

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054598.D
 Acq On : 23 Mar 2019 12:19
 Operator : JC/SP
 Sample : K2045-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FIELDQC-190320-TB3

Quant Time: Mar 25 03:28:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	654851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1005678	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	828652	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	291560	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	422194	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
35) Dibromofluoromethane	7.59	113	324466	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.09	98	1260017	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
62) 4-Bromofluorobenzene	12.40	95	394208	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	

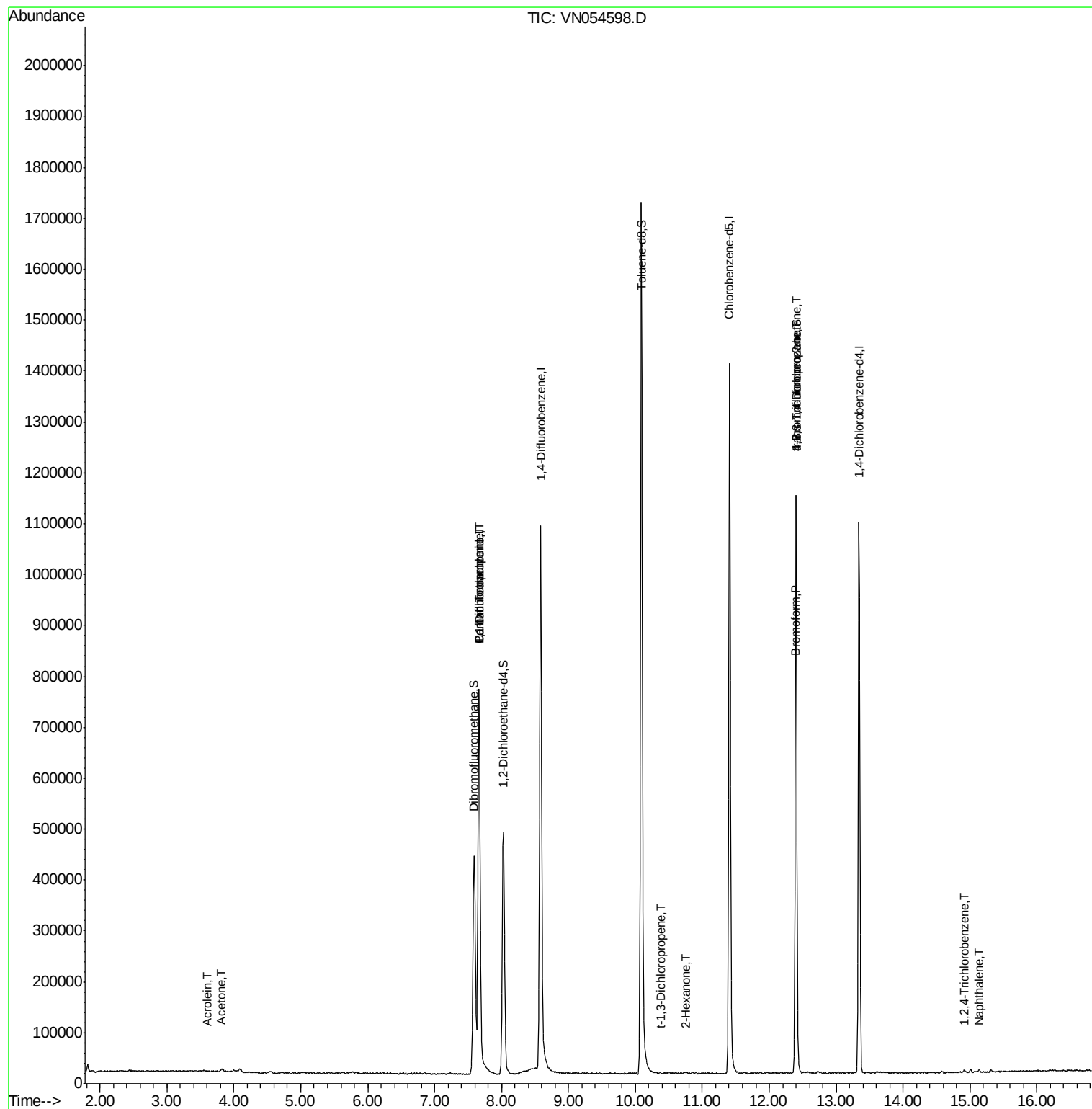
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	485	0.713	ug/l #	65
16) Acetone	3.82	43	8386	3.424	ug/l	94
31) Cyclohexane	7.66	56	13321	Below Cal	#	15
36) 1,1-Dichloropropene	7.66	75	47364	5.037	ug/l #	43
38) Carbon Tetrachloride	7.66	117	58613	6.414	ug/l #	15
53) t-1,3-Dichloropropene	10.39	75	30	2.235	ug/l #	1
59) 2-Hexanone	10.76	43	1065	0.260	ug/l	79
71) Bromoform	12.38	173	236	2.275	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	200072	43.244	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	200072	142.792	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1075	0.231	ug/l	83
94) Hexachlorobutadiene	15.01	225	1135	Below Cal		84
95) Naphthalene	15.14	128	3945	0.379	ug/l #	87

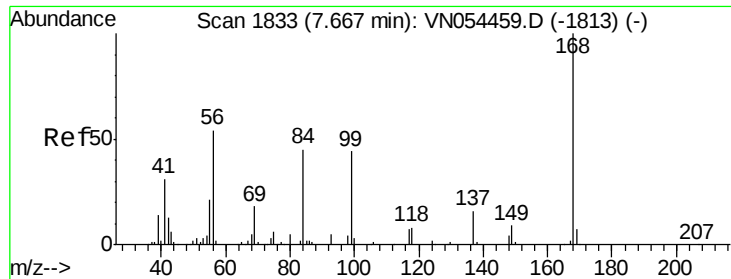
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

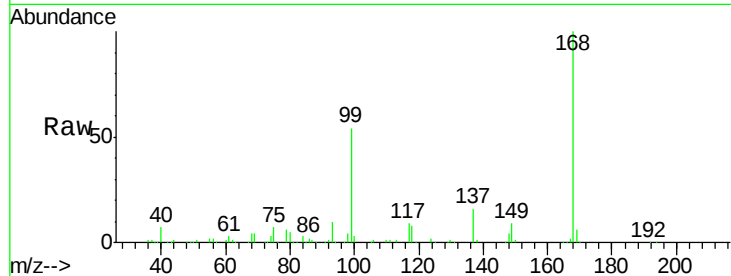
FIELDQC-190320-TB3

Tot Ion:168 Resp: 654851

Ion Ratio Lower Upper

168 100

99 53.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

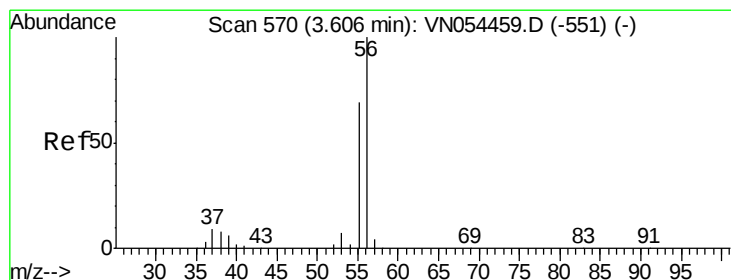
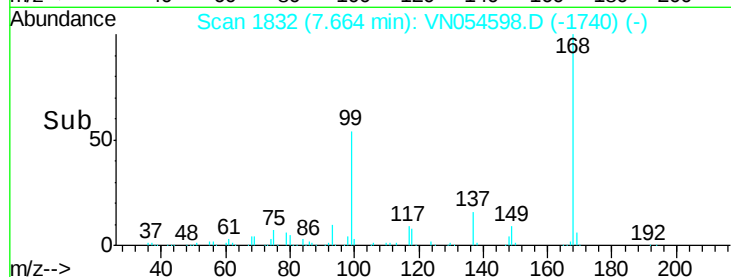
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.713 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054598.D

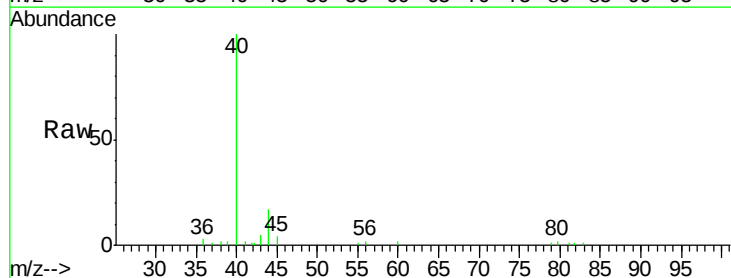
Acq: 23 Mar 2019 12:19

Tgt Ion: 56 Resp: 485

Ion Ratio Lower Upper

56 100

55 41.9 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

500

400

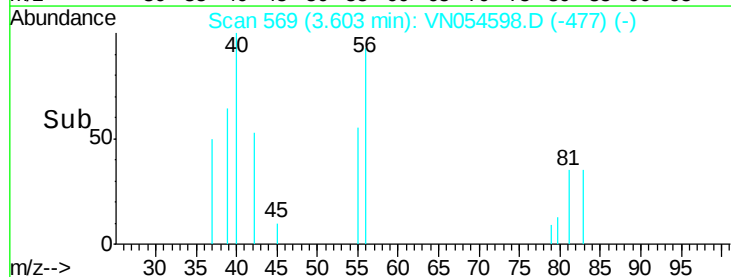
300

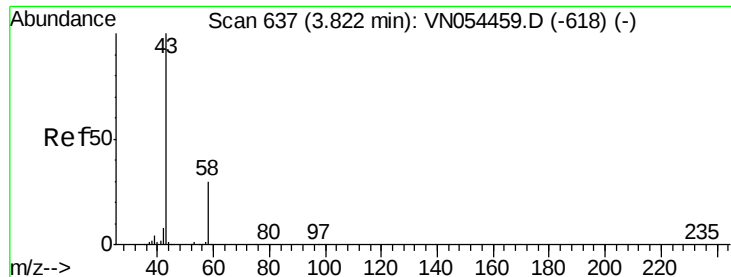
200

100

0

Time-->





#16

Acetone

Concen: 3.424 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

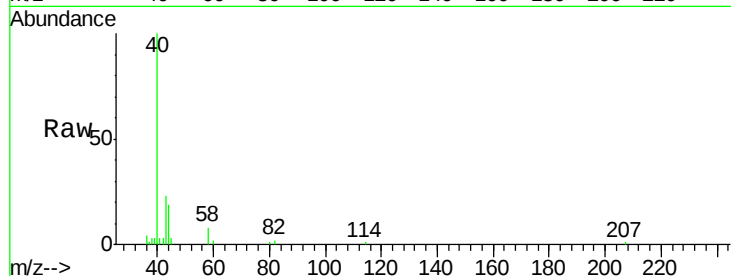
FIELDQC-190320-TB3

Tot Ion: 43 Resp: 8386

Ion Ratio Lower Upper

43 100

58 40.9 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

4000

3000

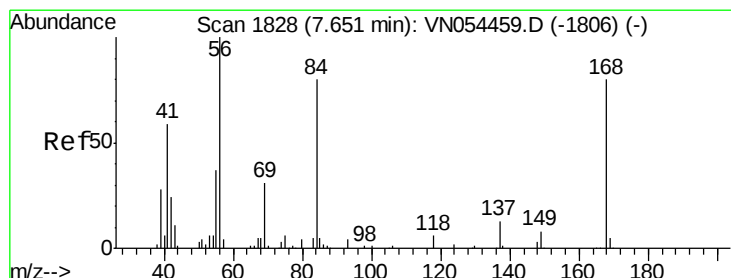
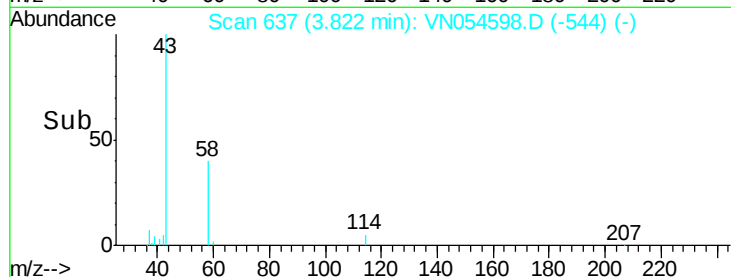
2000

1000

0

Time-->

3.75 3.80 3.85 3.90



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

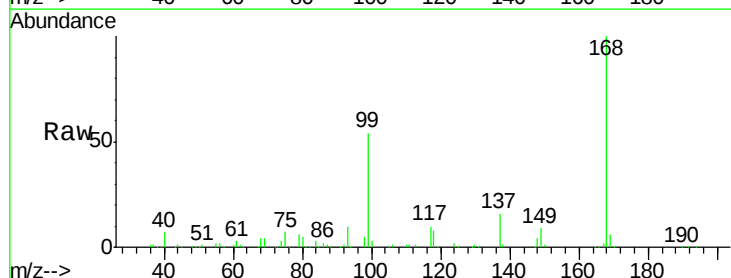
Tgt Ion: 56 Resp: 13321

Ion Ratio Lower Upper

56 100

69 167.9 27.8 41.6#

84 123.2 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

7.66

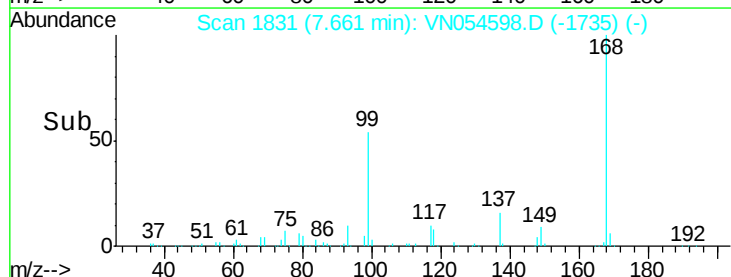
10000

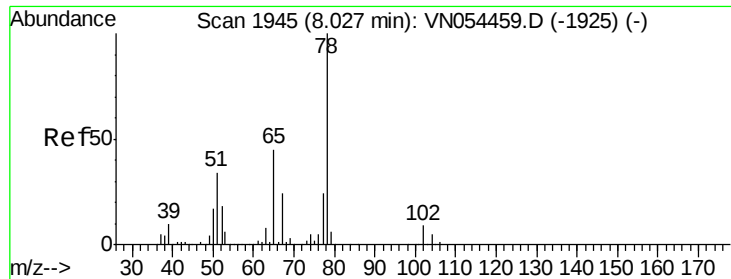
5000

0

Time-->

7.60 7.65 7.70 7.75

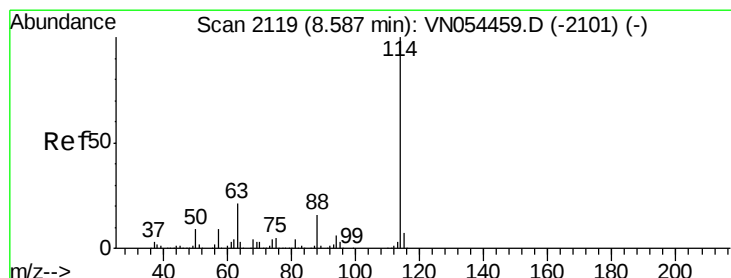
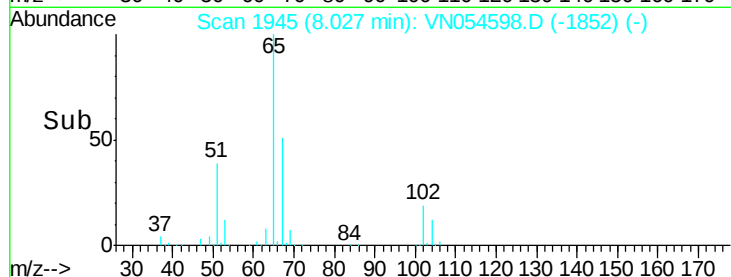
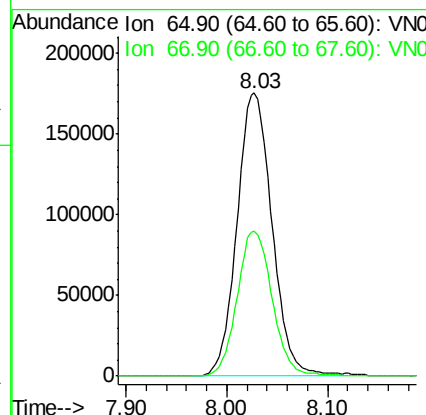
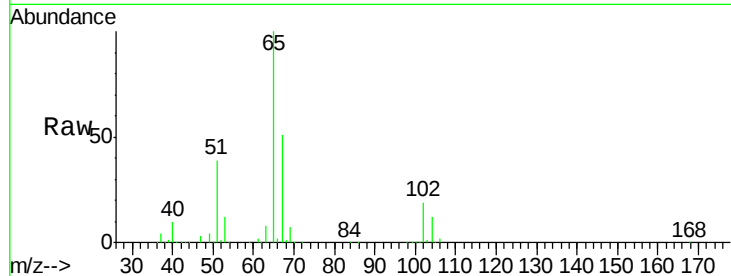




#33
 1,2-Dichloroethane-d4
 Concen: 51.833 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054598.D
 Acq: 23 Mar 2019 12:19

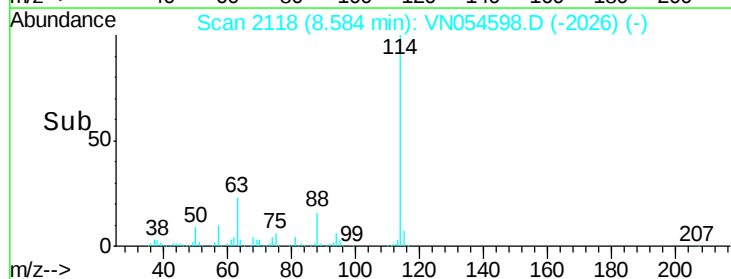
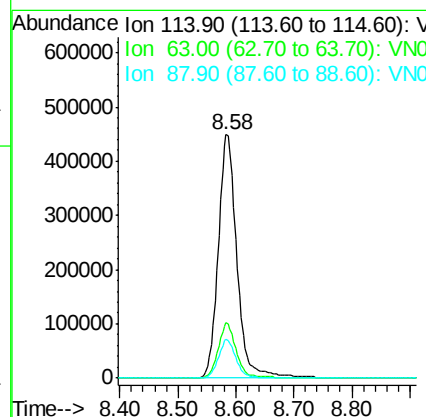
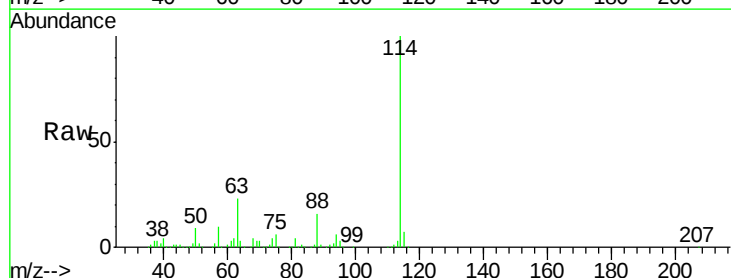
Instrument :
 MSVOA_N
 ClientSampleId :
 FIELDQC-190320-TB3

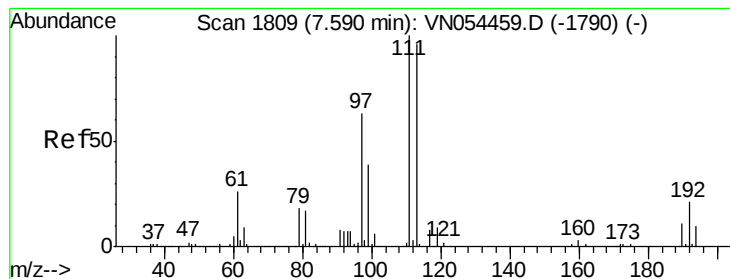
Tot Ion: 65 Resp: 422194
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054598.D
 Acq: 23 Mar 2019 12:19

Tgt Ion: 114 Resp: 1005678
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 35.2
 88 16.0 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.079 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

FIELDQC-190320-TB3

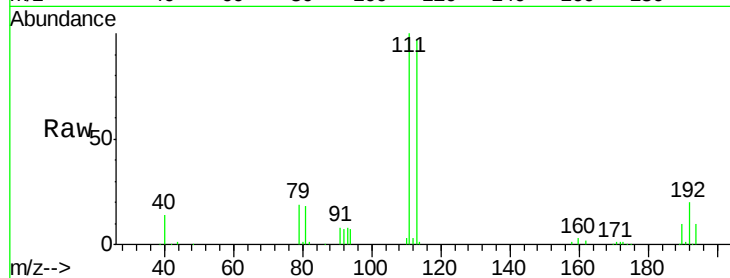
Tot Ion:113 Resp: 324466

Ion Ratio Lower Upper

113 100

111 104.6 82.2 123.4

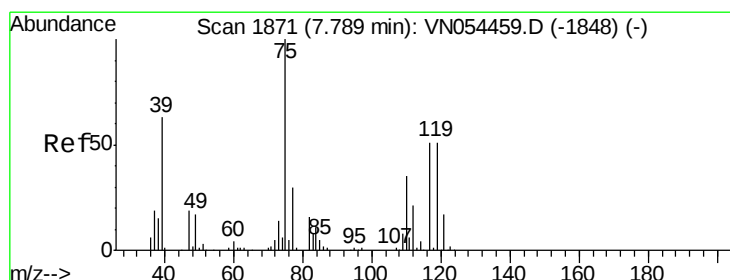
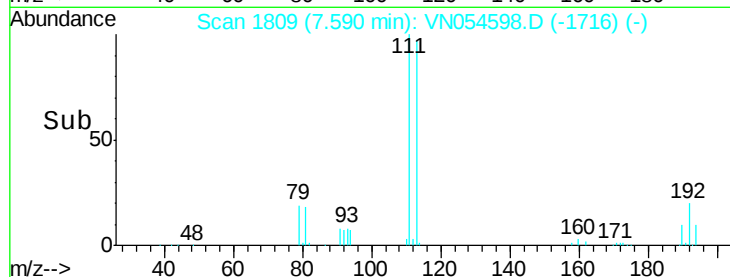
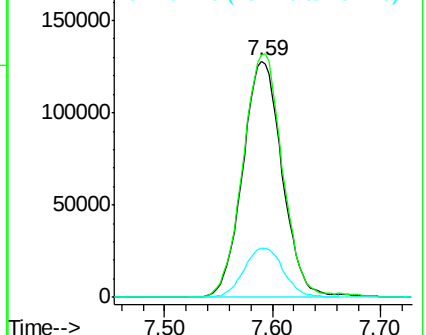
192 21.0 19.2 28.8



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: 5.037 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

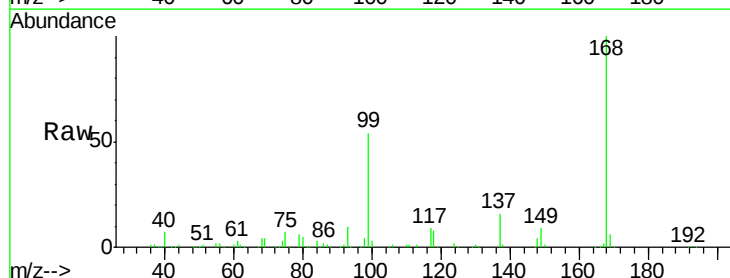
Tgt Ion: 75 Resp: 47364

Ion Ratio Lower Upper

75 100

110 3.5 19.1 57.5#

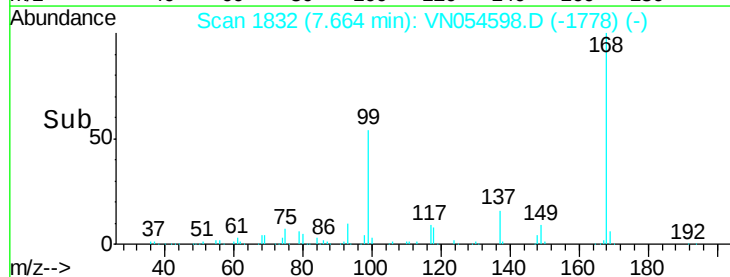
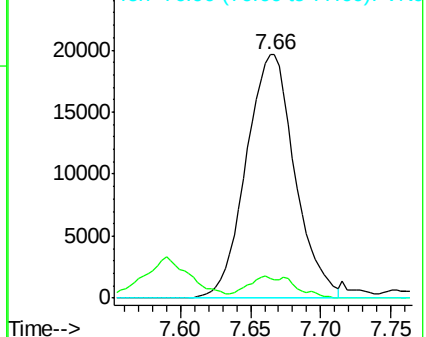
77 0.0 25.0 37.4#

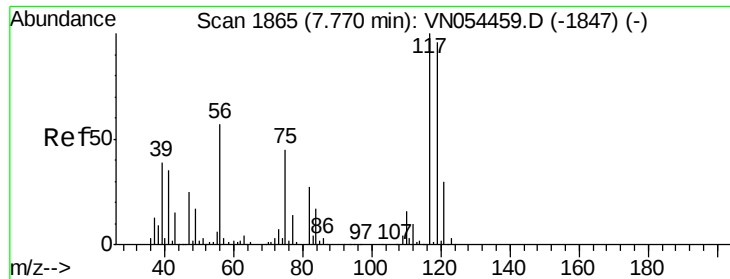


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.414 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

FIELDQC-190320-TB3

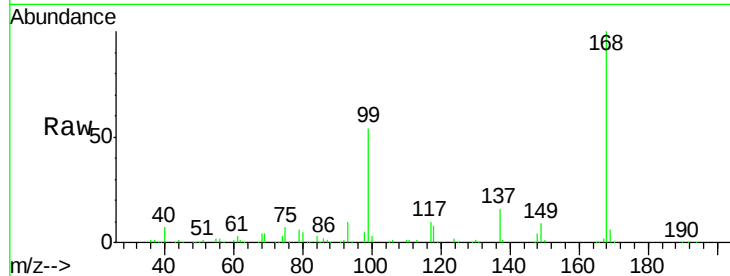
Tot Ion:117 Resp: 58613

Ion Ratio Lower Upper

117 100

119 4.1 76.3 114.5#

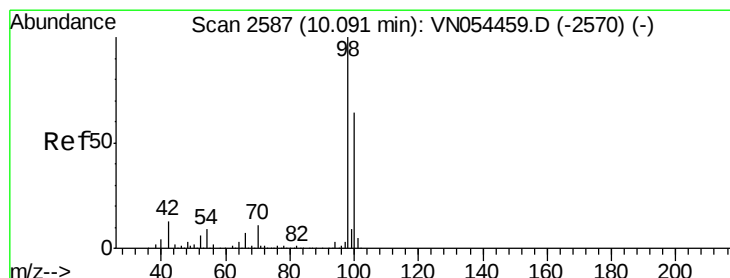
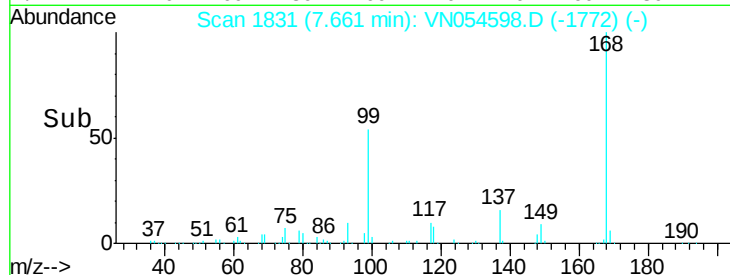
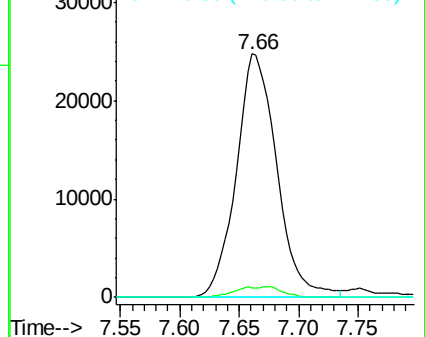
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 51.731 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054598.D

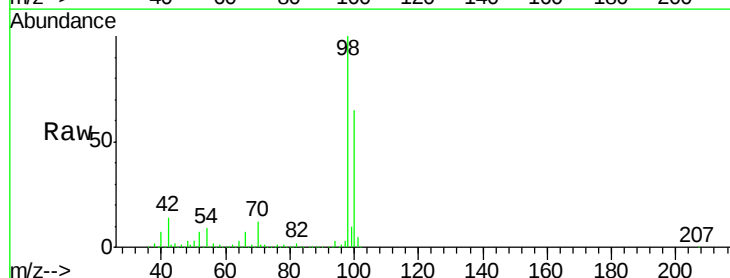
Acq: 23 Mar 2019 12:19

Tgt Ion: 98 Resp: 1260017

Ion Ratio Lower Upper

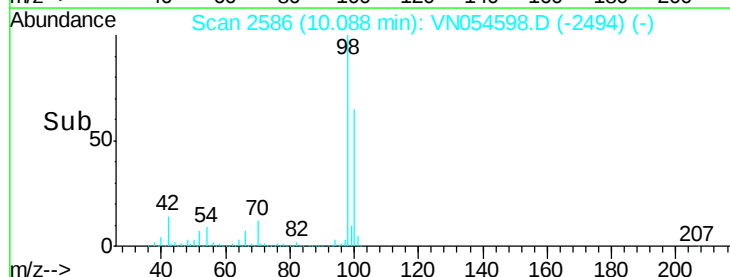
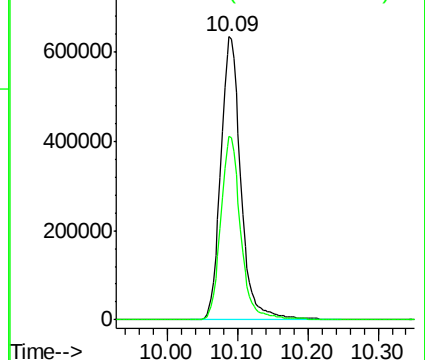
98 100

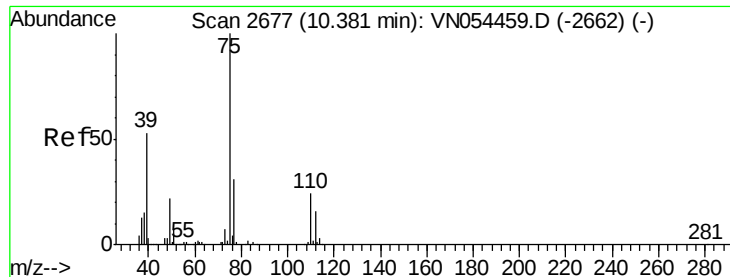
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.235 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

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ClientSampleId :

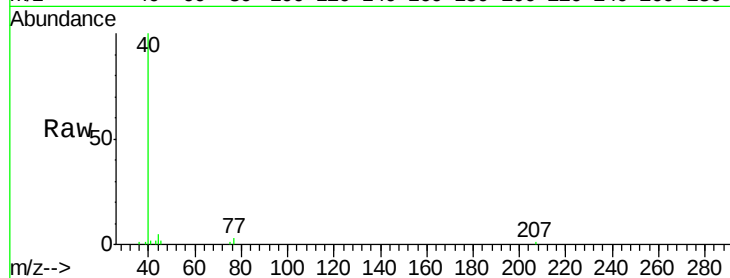
FIELDQC-190320-TB3

Tot Ion: 75 Resp: 30

Ion Ratio Lower Upper

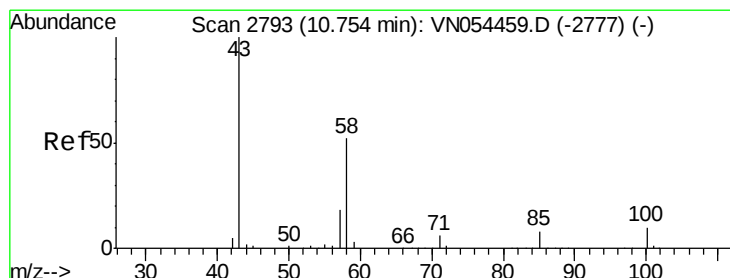
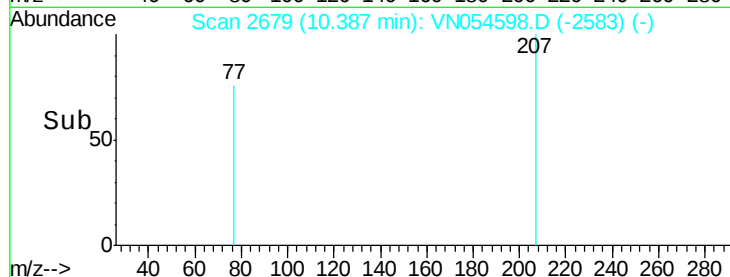
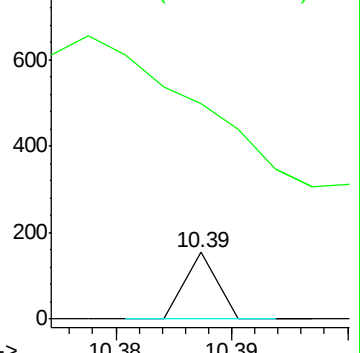
75 100

77 98.7 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#59

2-Hexanone

Concen: 0.260 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054598.D

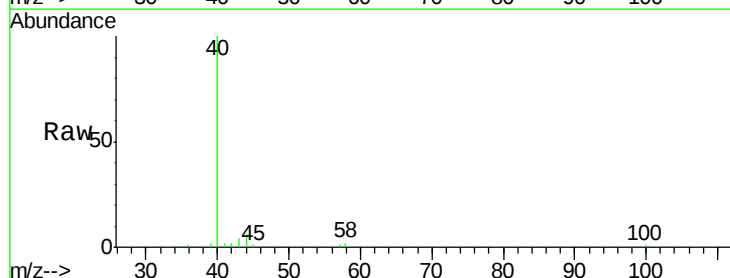
Acq: 23 Mar 2019 12:19

Tgt Ion: 43 Resp: 1065

Ion Ratio Lower Upper

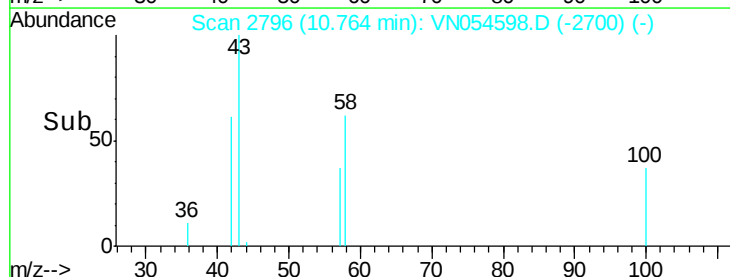
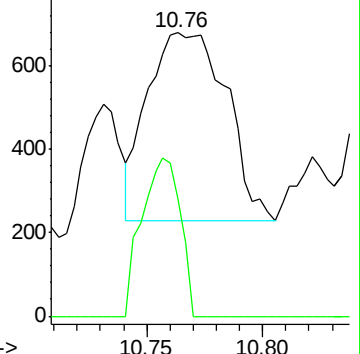
43 100

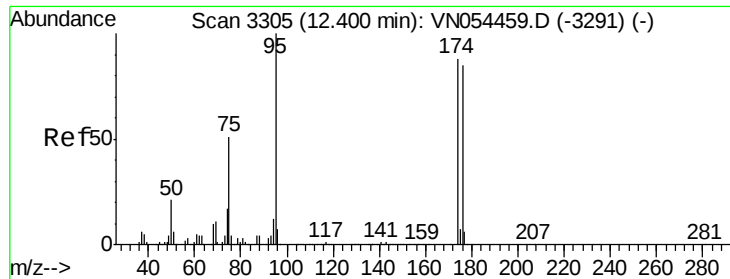
58 40.8 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.561 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

FIELDQC-190320-TB3

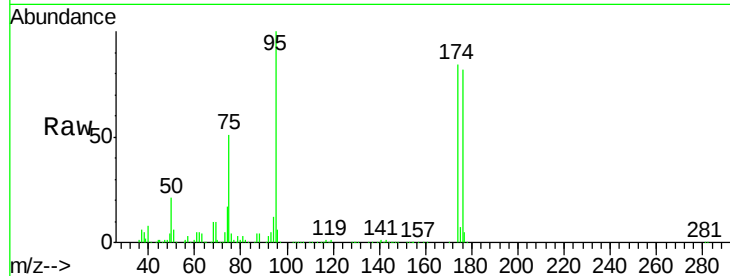
Tot Ion: 95 Resp: 394208

Ion Ratio Lower Upper

95 100

174 81.9 0.0 191.0

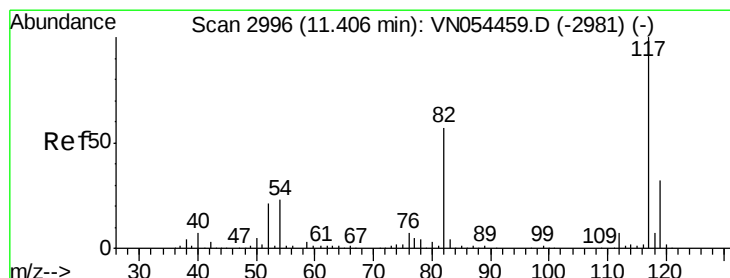
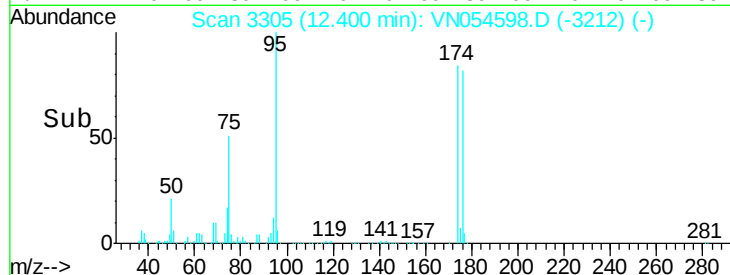
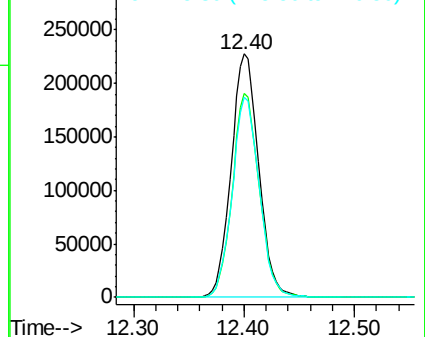
176 80.8 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

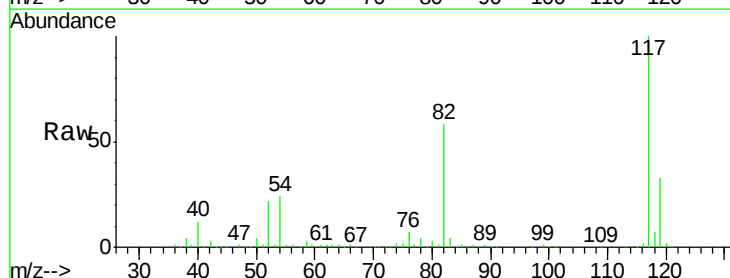
Tgt Ion: 117 Resp: 828652

Ion Ratio Lower Upper

117 100

82 57.6 40.0 60.0

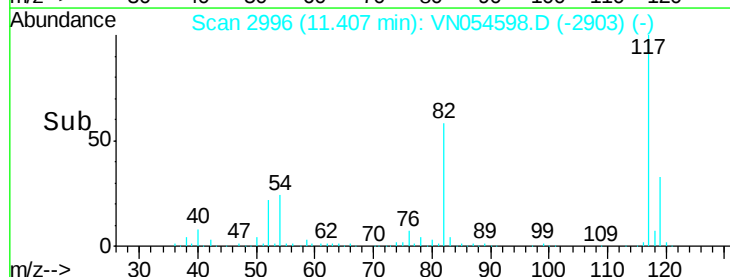
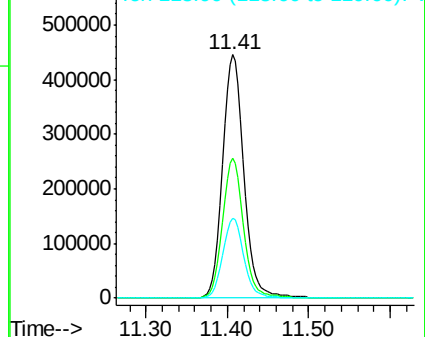
119 32.7 25.8 38.6

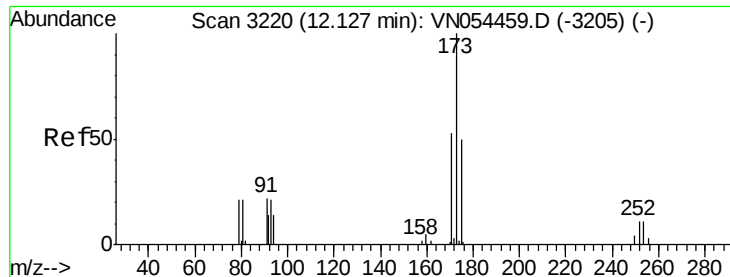


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)





#71

Bromoform

Concen: 2.275 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

FIELDQC-190320-TB3

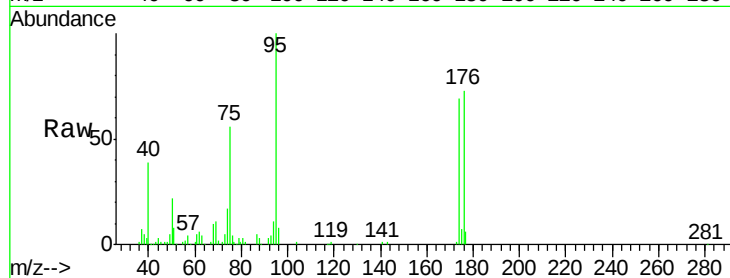
Tot Ion:173 Resp: 236

Ion Ratio Lower Upper

173 100

175 9661.9 24.4 73.2#

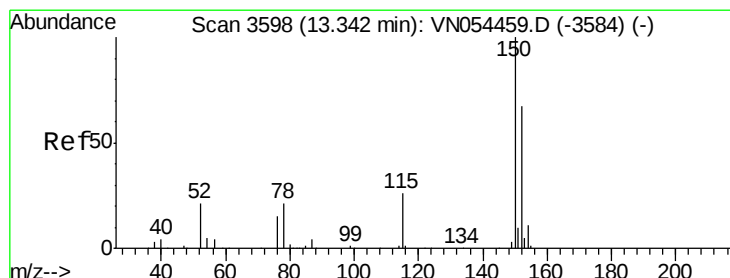
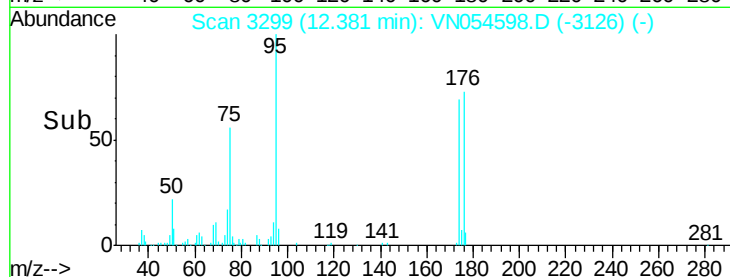
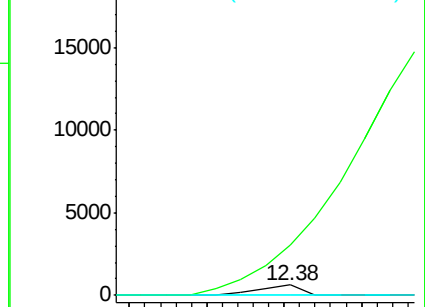
254 0.0 0.1 0.1#



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: VN054598.D

Acq: 23 Mar 2019 12:19

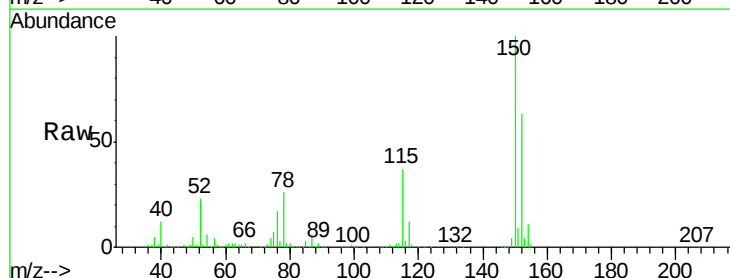
Tgt Ion:152 Resp: 291560

Ion Ratio Lower Upper

152 100

115 57.7 27.2 81.6

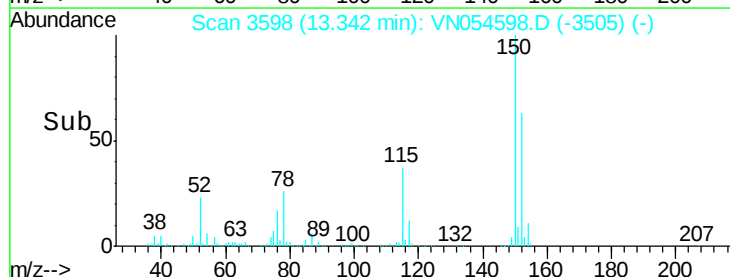
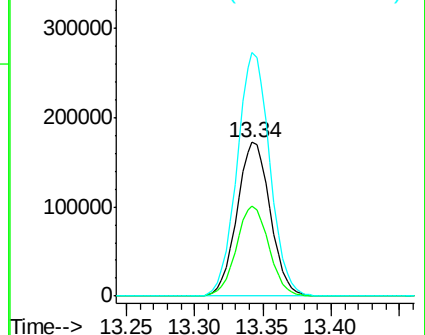
150 156.4 0.0 349.2

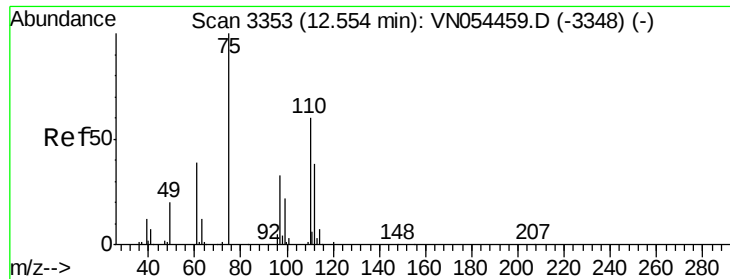


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 43.244 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

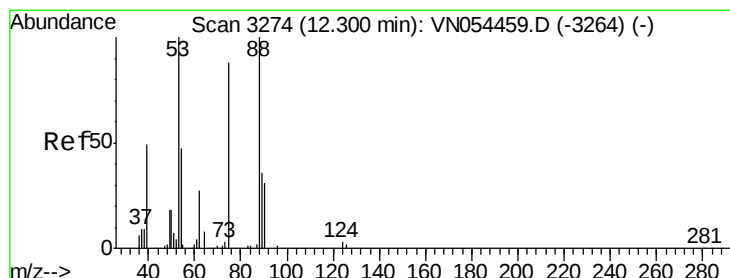
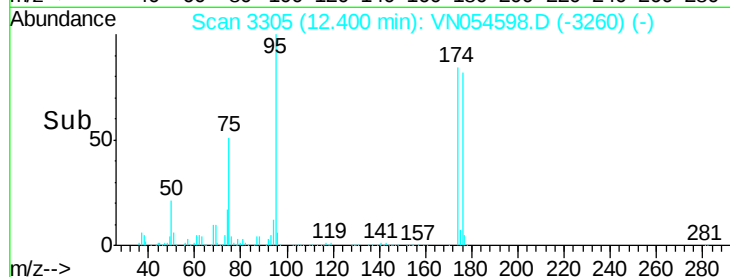
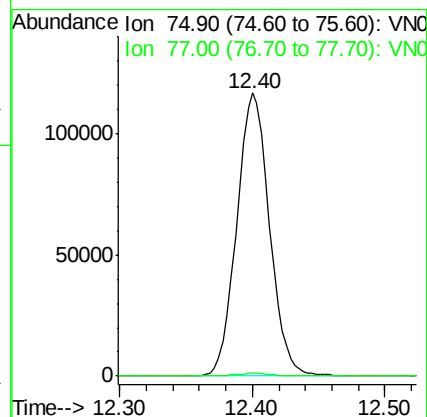
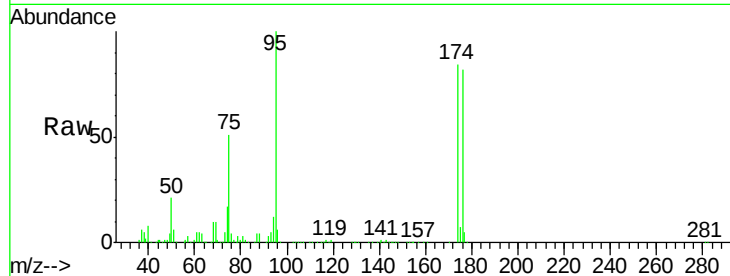
FIELDQC-190320-TB3

Tot Ion: 75 Resp: 200072

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 142.792 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

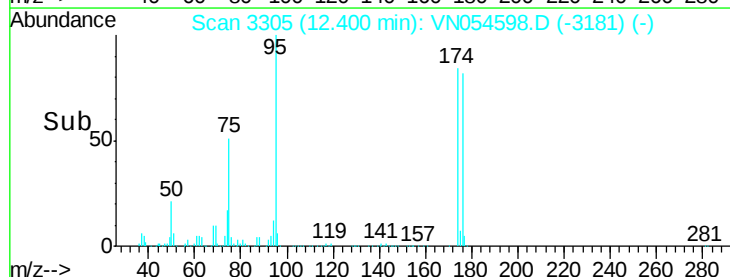
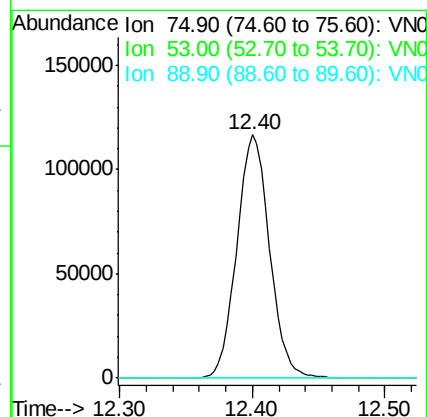
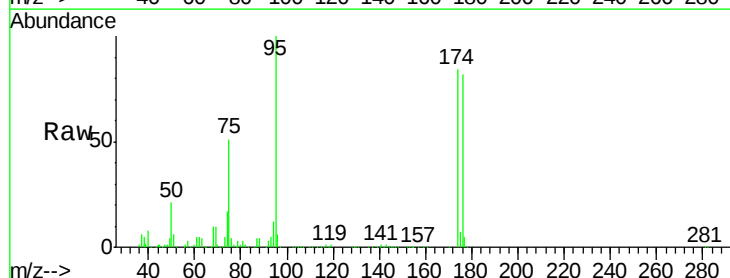
Tgt Ion: 75 Resp: 200072

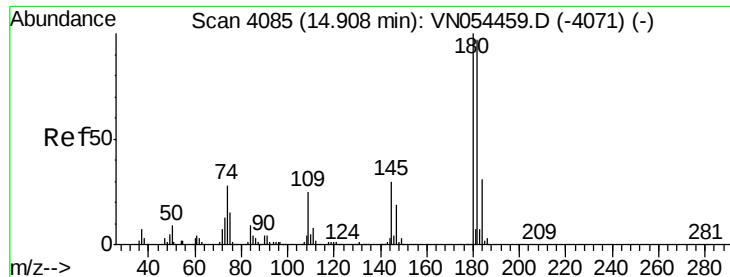
Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

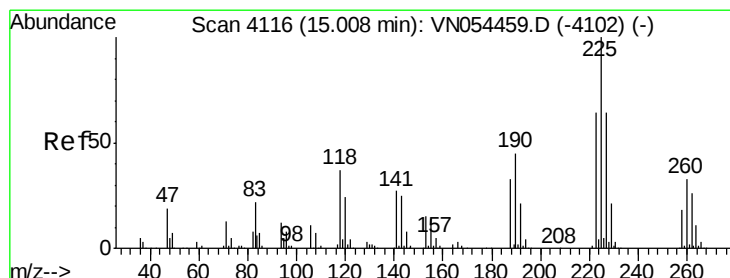
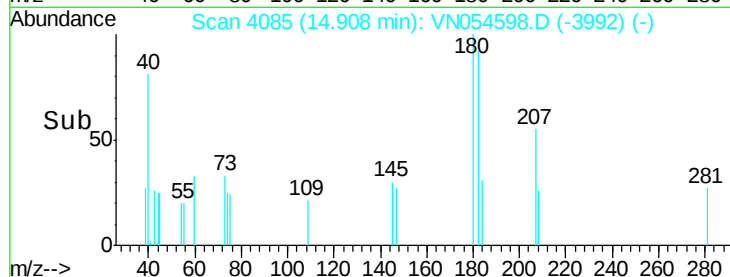
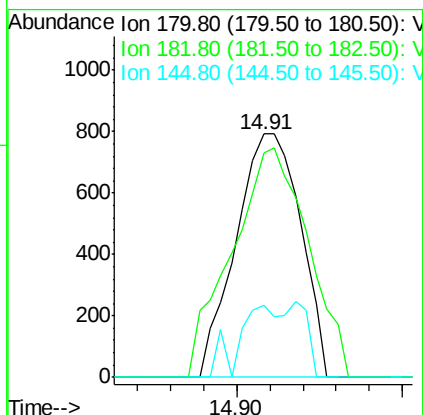
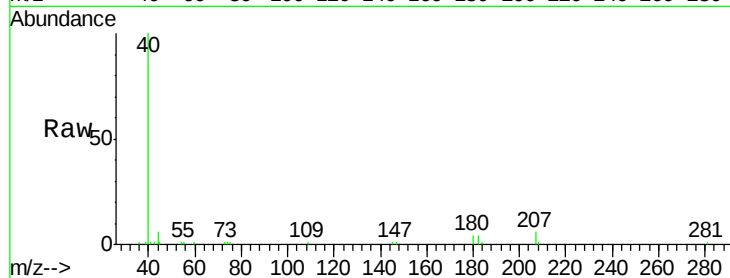




#93
 1,2,4-Trichlorobenzene
 Concen: 0.231 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054598.D
 Acq: 23 Mar 2019 12:19

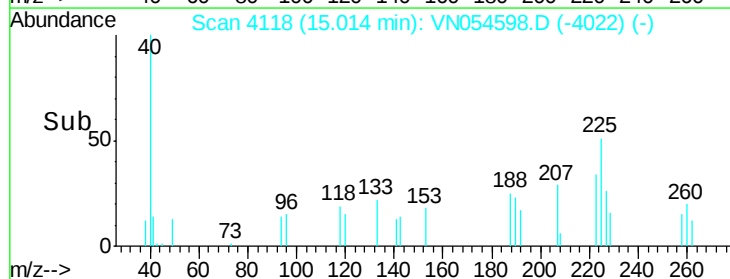
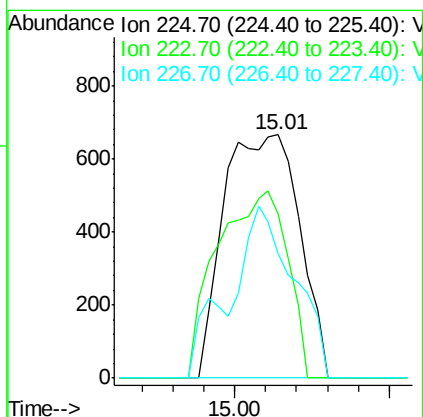
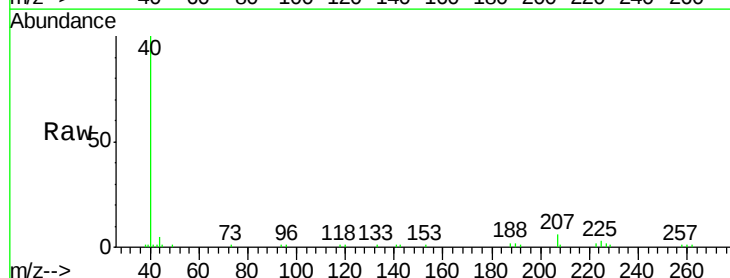
Instrument :
 MSVOA_N
 ClientSampleId :
 FIELDQC-190320-TB3

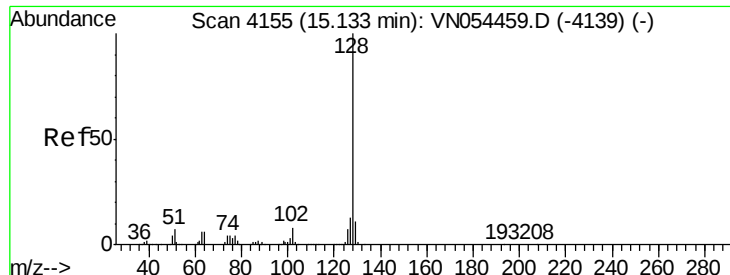
Tot Ion:180 Resp: 1075
 Ion Ratio Lower Upper
 180 100
 182 111.3 48.0 144.2
 145 17.4 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN054598.D
 Acq: 23 Mar 2019 12:19

Tgt Ion:225 Resp: 1135
 Ion Ratio Lower Upper
 225 100
 223 71.2 31.1 93.5
 227 47.7 31.9 95.9





#95

Naphthalene

Concen: 0.379 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN054598.D

Acq: 23 Mar 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

FIELDQC-190320-TB3

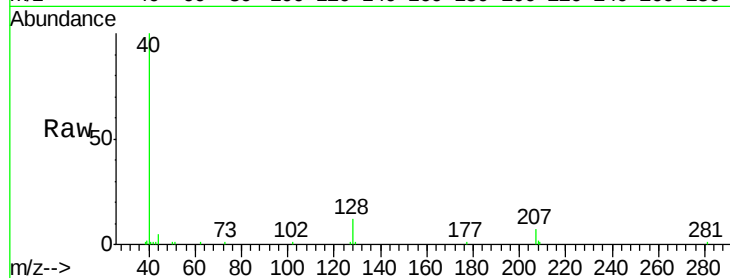
Tot Ion:128 Resp: 3945

Ion Ratio Lower Upper

128 100

127 4.5 10.1 15.1#

129 9.4 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

