

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054611.D
 Acq On : 23 Mar 2019 18:16
 Operator : JC/SP
 Sample : K2020-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS035-190318

Quant Time: Mar 25 03:34:00 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	7.67	168	617928	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	968699	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	781981	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	267931	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	430189	55.97	ug/l	0.00
Spiked Amount			Recovery	=	111.94%	
35) Dibromofluoromethane	7.59	113	338026	54.16	ug/l	0.00
Spiked Amount			Recovery	=	108.32%	
50) Toluene-d8	10.09	98	1262917	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
62) 4-Bromofluorobenzene	12.40	95	375780	47.07	ug/l	0.00
Spiked Amount			Recovery	=	94.14%	

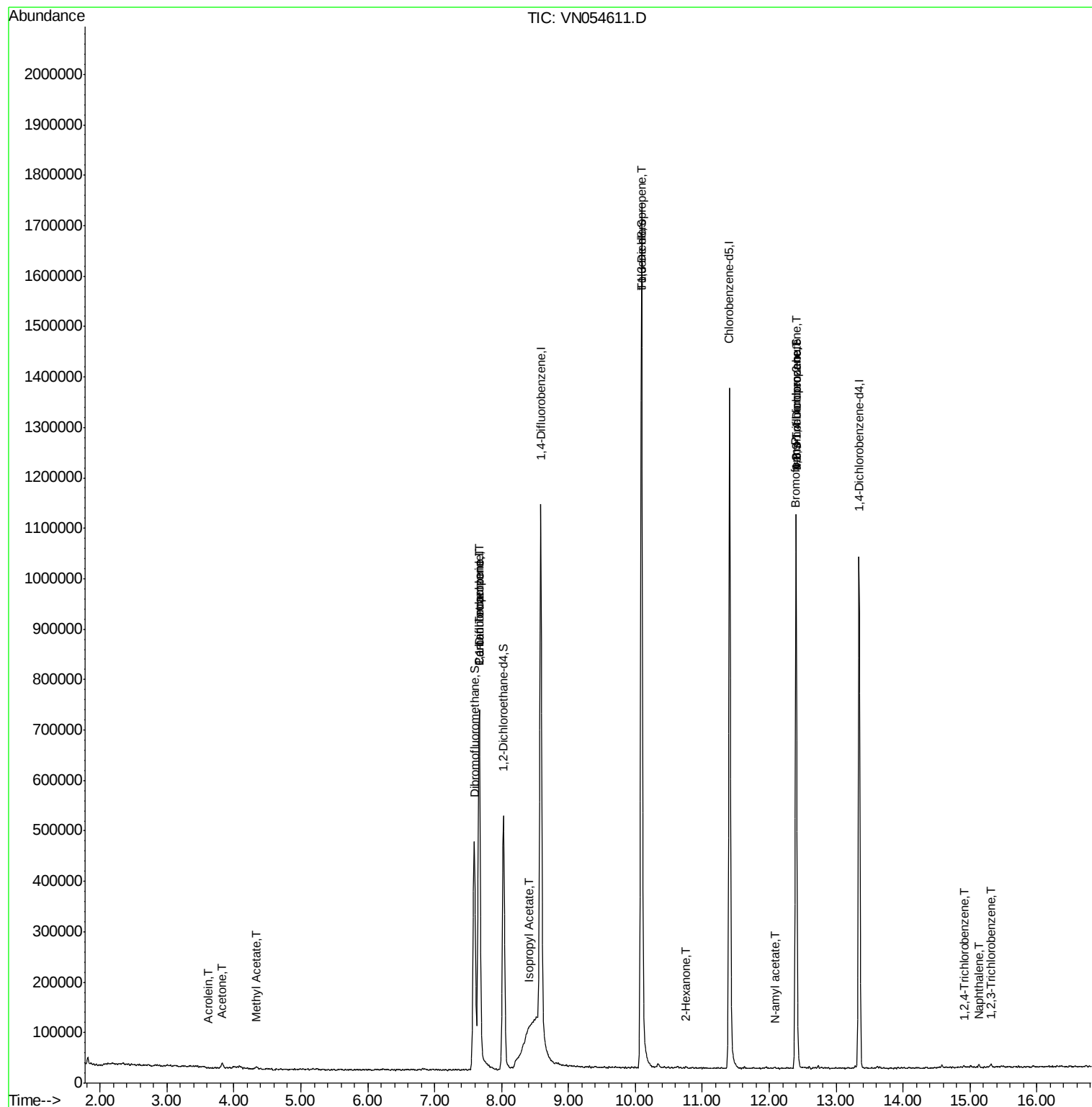
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	209	0.325	ug/l #	63
16) Acetone	3.83	43	15319	6.629	ug/l #	84
18) Methyl Acetate	4.34	43	7215	1.401	ug/l #	61
31) Cyclohexane	7.67	56	13119	Below Cal	#	25
36) 1,1-Dichloropropene	7.66	75	45258	4.997	ug/l #	49
38) Carbon Tetrachloride	7.66	117	56415	6.410	ug/l #	15
43) Isopropyl Acetate	8.40	43	186929	17.182	ug/l #	60
53) t-1,3-Dichloropropene	10.10	75	30	2.235	ug/l #	1
59) 2-Hexanone	10.75	43	2233	0.567	ug/l #	89
71) Bromoform	12.39	173	573	2.360	ug/l #	28
74) N-amyl acetate	12.08	43	1979	0.319	ug/l #	65
76) 1,2,3-Trichloropropane	12.40	75	196130	46.130	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	196130	152.111	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1445	0.337	ug/l	96
94) Hexachlorobutadiene	15.01	225	380	Below Cal	#	67
95) Naphthalene	15.13	128	5384	0.563	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.32	180	1759	0.412	ug/l	82

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

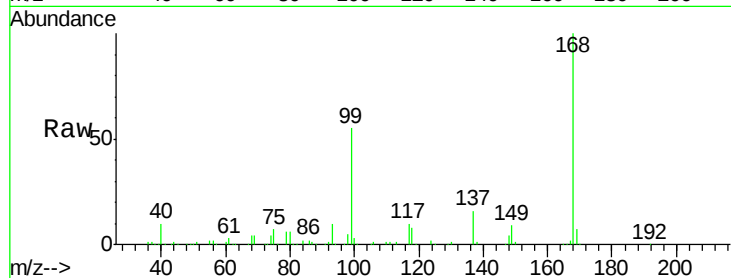
KY038PS035-190318

Tot Ion:168 Resp: 617928

Ion Ratio Lower Upper

168 100

99 55.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

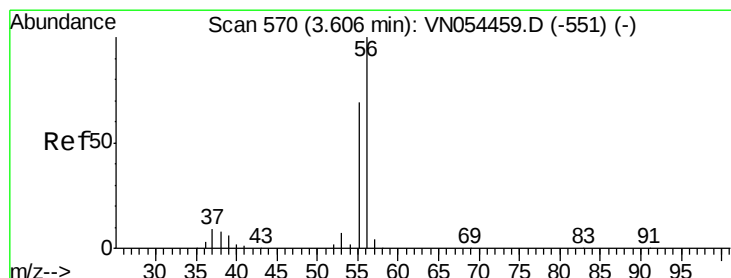
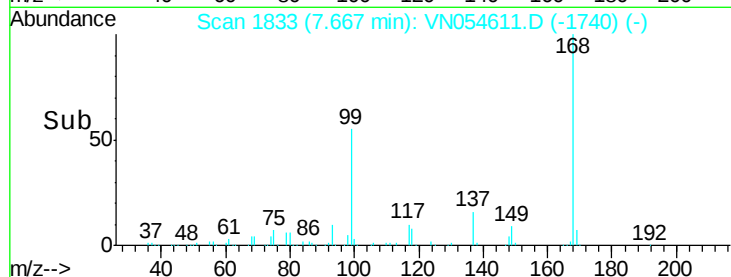
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 0.325 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054611.D

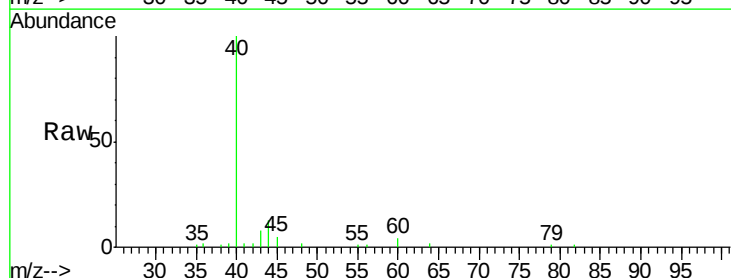
Acq: 23 Mar 2019 18:16

Tgt Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

55 40.2 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

300

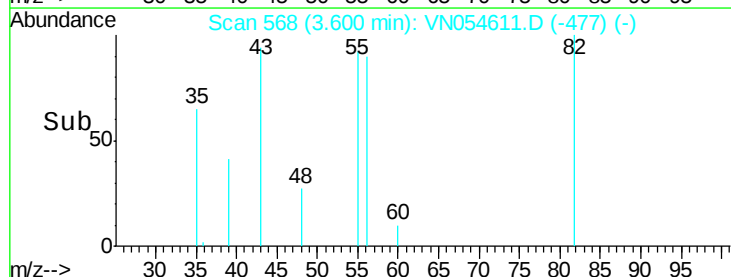
200

100

0

3.58 3.59 3.60 3.61

Time-->

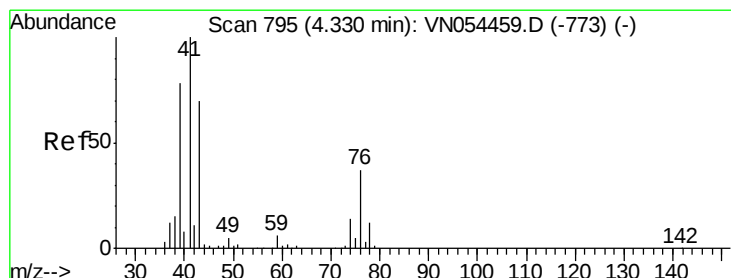
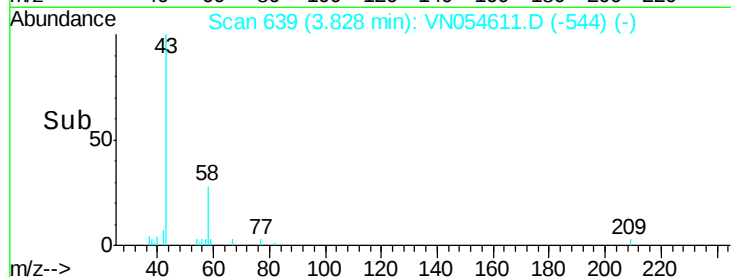
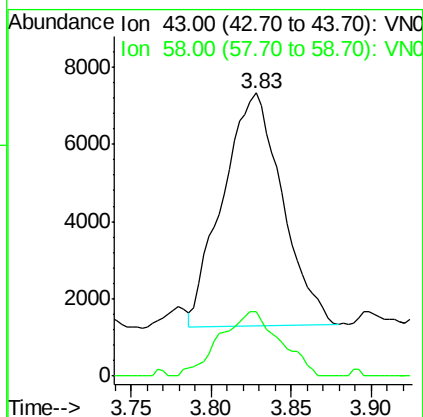
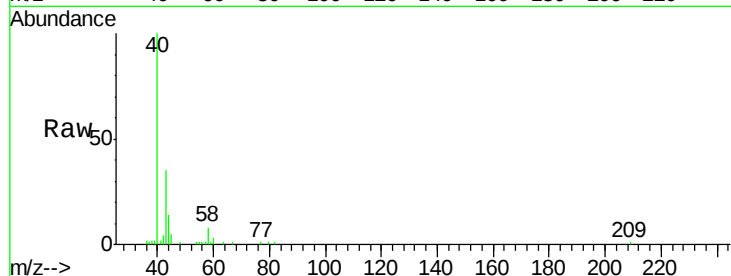




#16
Acetone
Concen: 6.629 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054611.D
Acq: 23 Mar 2019 18:16

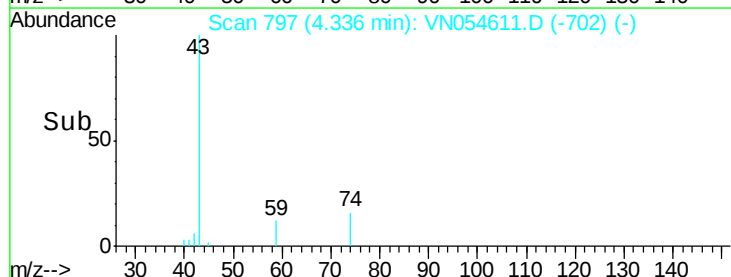
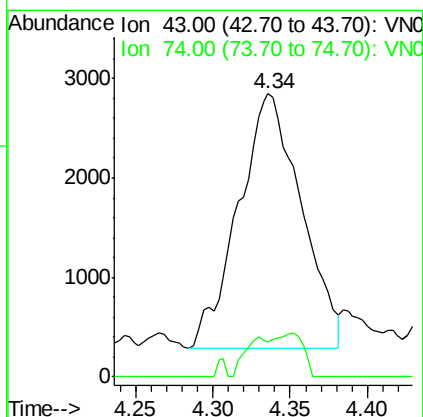
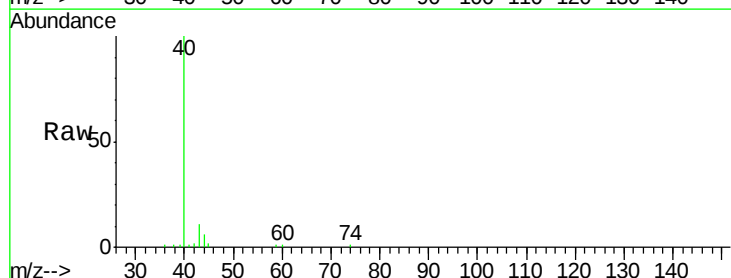
Instrument :
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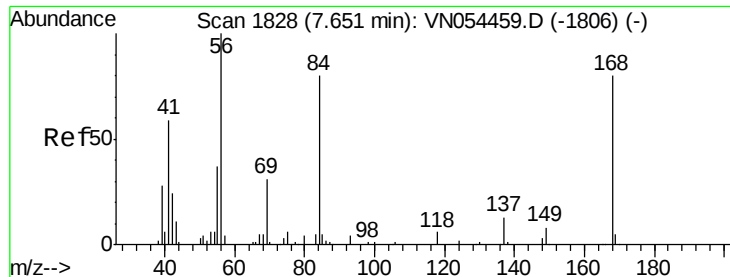
Tot Ion: 43 Resp: 15319
Ion Ratio Lower Upper
43 100
58 27.7 29.9 44.9#



#18
Methyl Acetate
Concen: 1.401 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054611.D
Acq: 23 Mar 2019 18:16

Tgt Ion: 43 Resp: 7215
Ion Ratio Lower Upper
43 100
74 5.9 20.8 31.2#

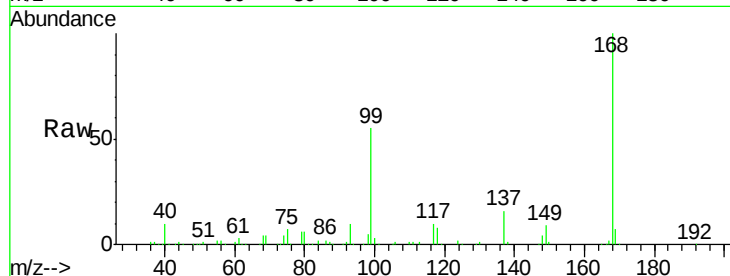




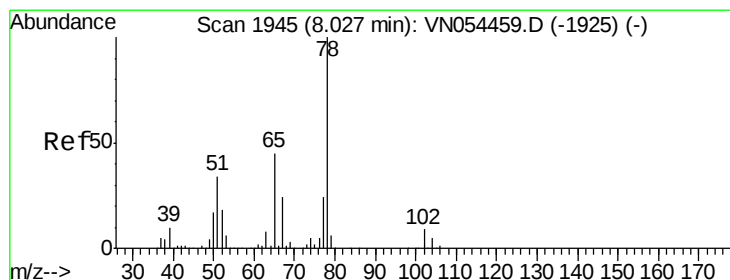
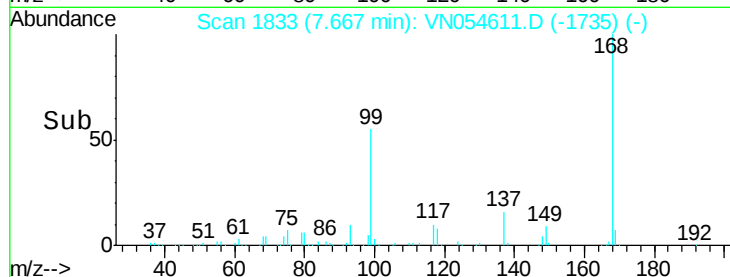
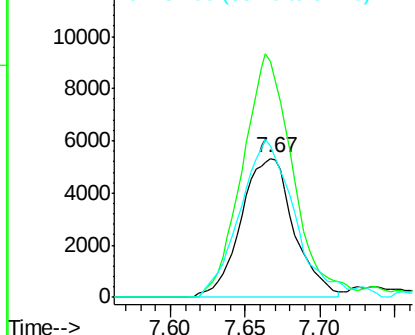
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054611.D
Acq: 23 Mar 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
KY038PS035-190318

Tot Ion: 56 Resp: 13119
Ion Ratio Lower Upper
56 100
69 169.5 27.8 41.6#
84 108.8 74.6 111.8

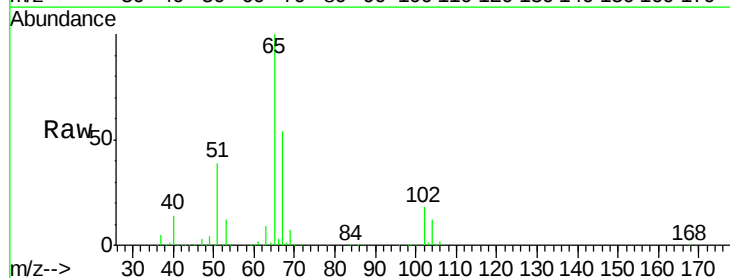


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

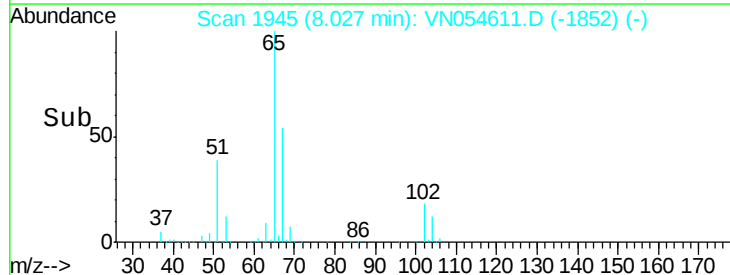
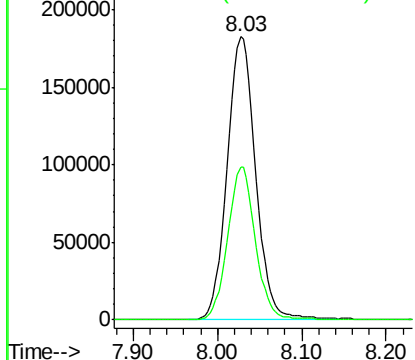


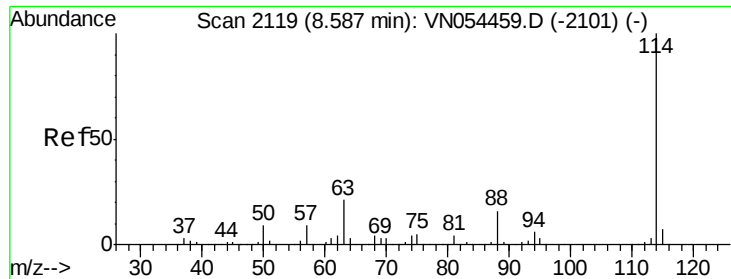
#33
1,2-Dichloroethane-d4
Concen: 55.970 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN054611.D
Acq: 23 Mar 2019 18:16

Tgt Ion: 65 Resp: 430189
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6



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

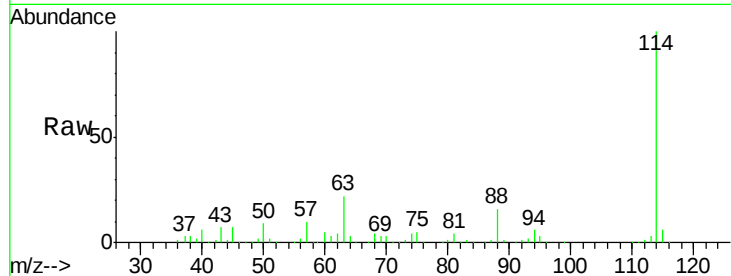




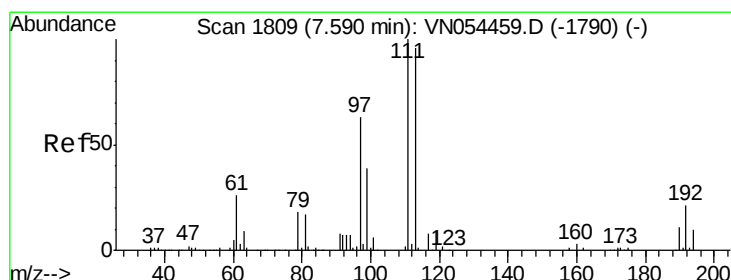
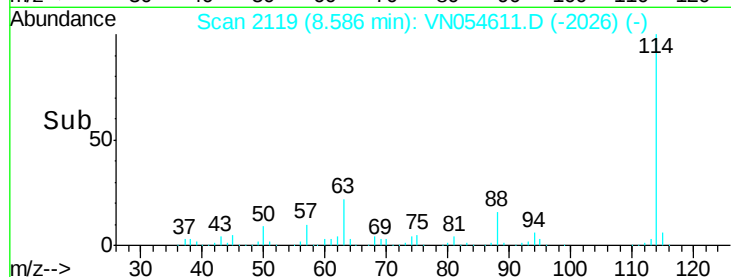
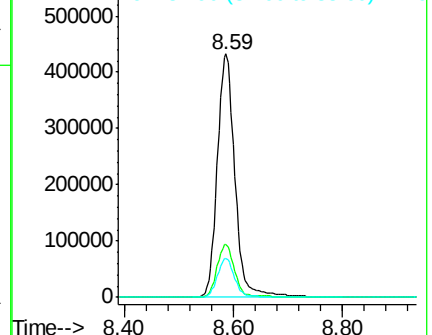
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054611.D
 Acq: 23 Mar 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS035-190318

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	35.2
88	16.0	0.0	30.2

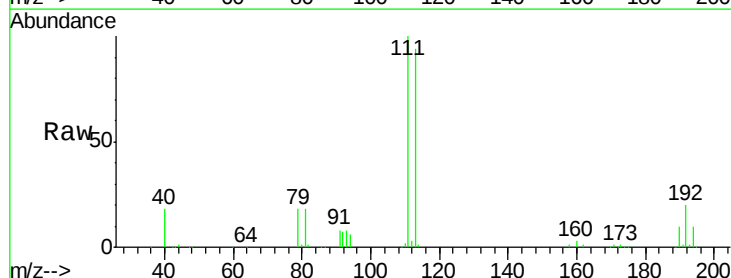


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

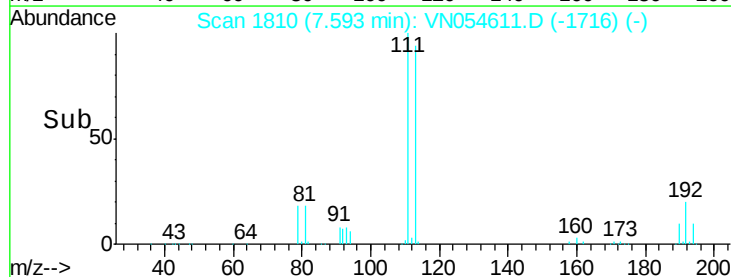
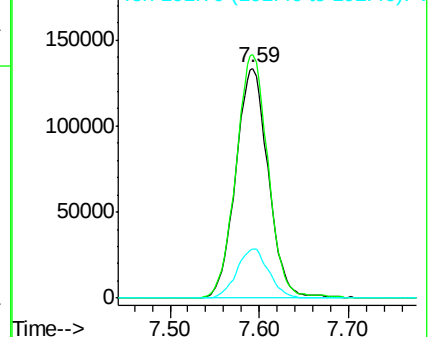


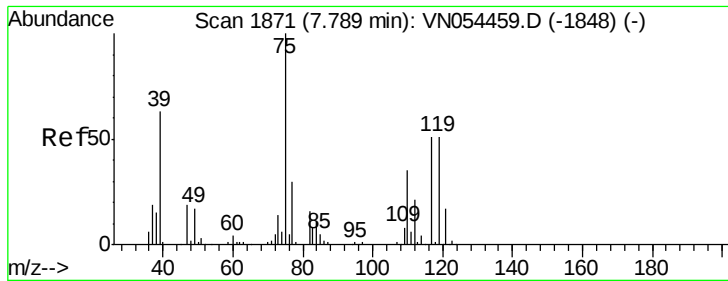
#35
 Dibromofluoromethane
 Concen: 54.164 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054611.D
 Acq: 23 Mar 2019 18:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.2	123.4
192	20.9	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

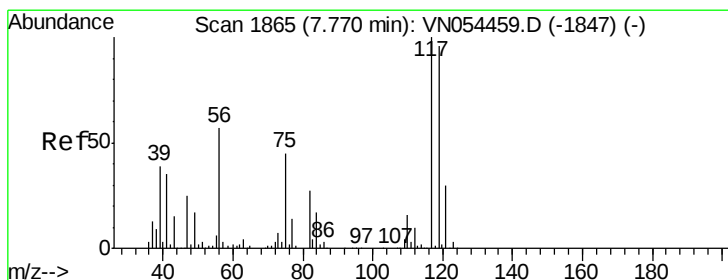
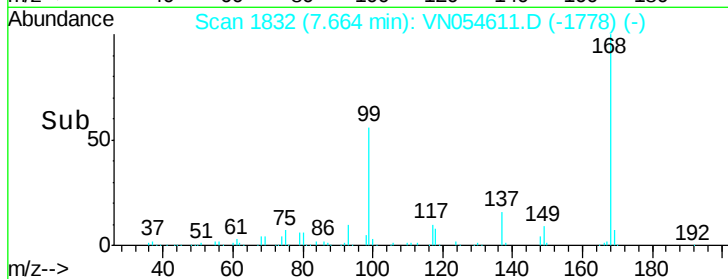
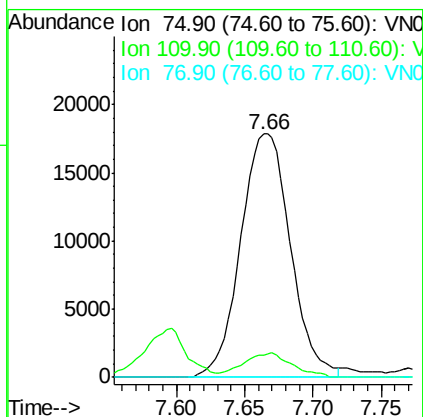
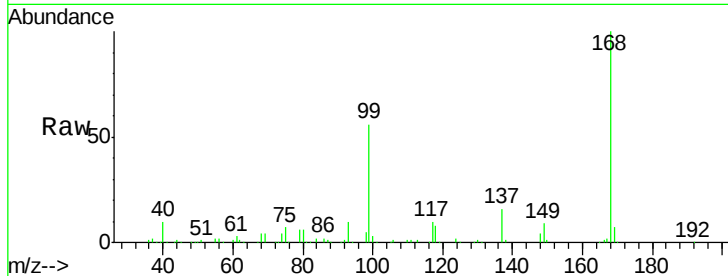




#36
 1,1-Dichloropropene
 Concen: 4.997 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054611.D
 Acq: 23 Mar 2019 18:16

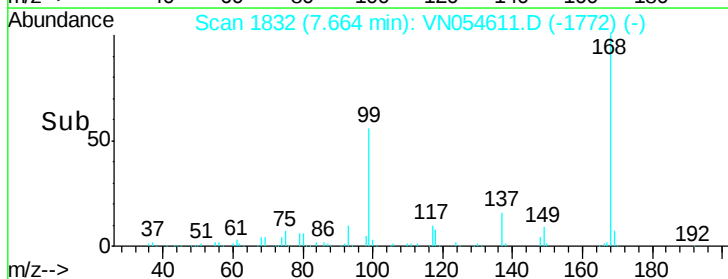
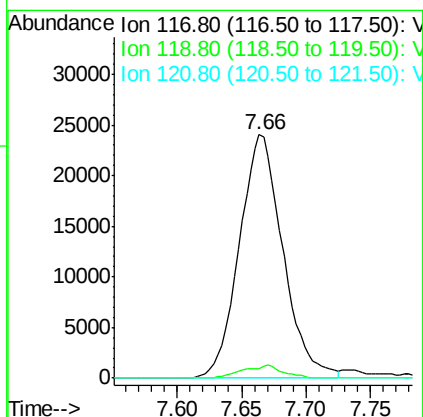
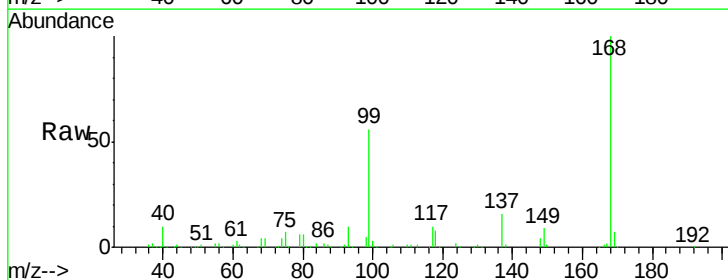
Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS035-190318

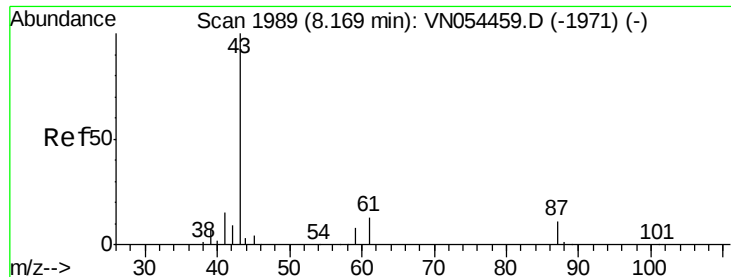
Tot Ion: 75 Resp: 45258
 Ion Ratio Lower Upper
 75 100
 110 9.8 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.410 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054611.D
 Acq: 23 Mar 2019 18:16

Tgt Ion: 117 Resp: 56415
 Ion Ratio Lower Upper
 117 100
 119 4.0 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 17.182 ug/l

RT: 8.40 min Scan# 2061

Delta R.T. 0.23 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

KY038PS035-190318

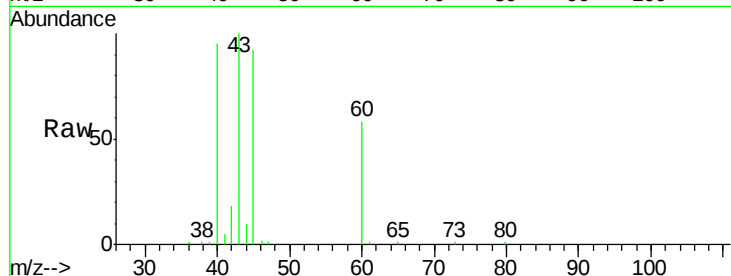
Tot Ion: 43 Resp: 186929

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

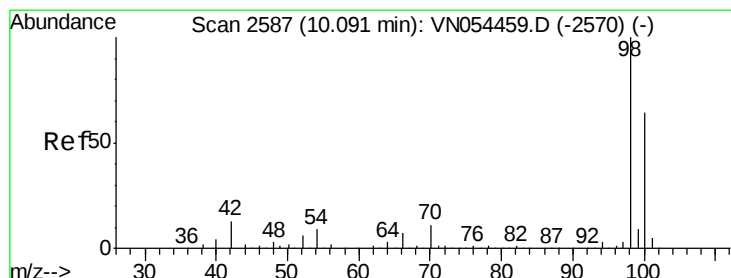
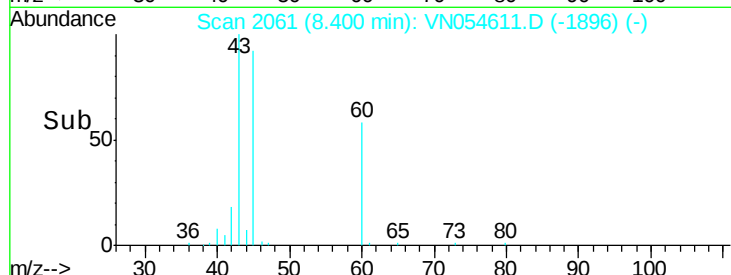
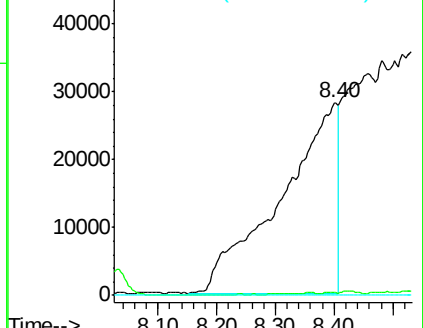
87 0.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 53.829 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054611.D

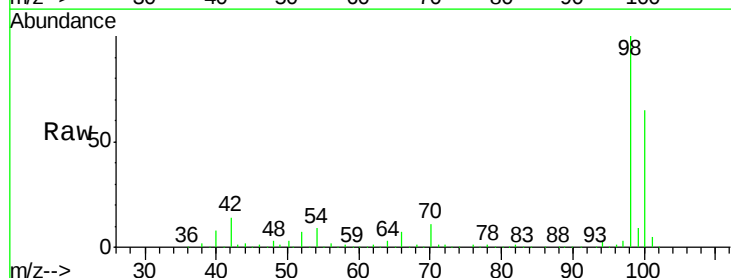
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Tgt Ion: 98 Resp: 1262917

Ion Ratio Lower Upper

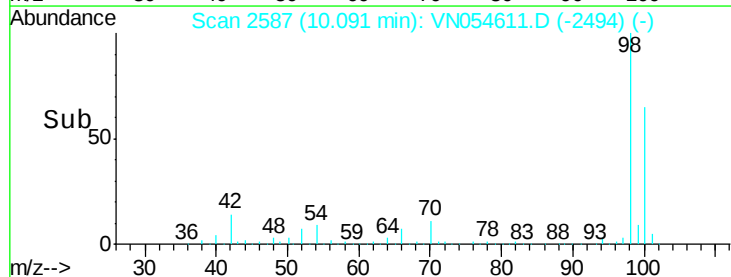
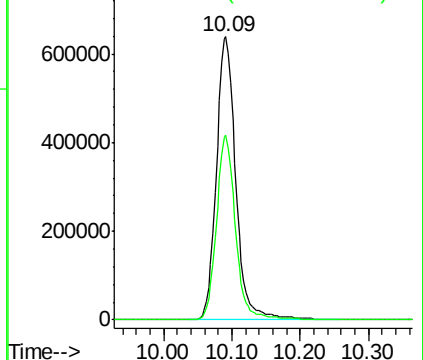
98 100

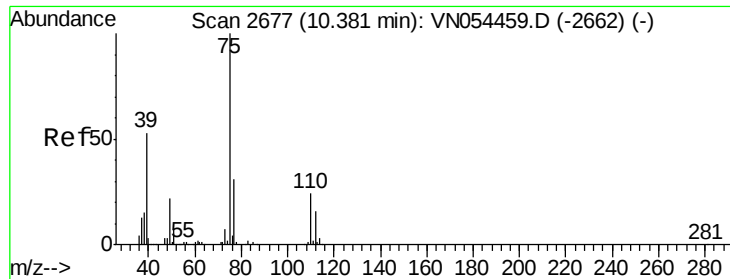
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 2.235 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.28 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

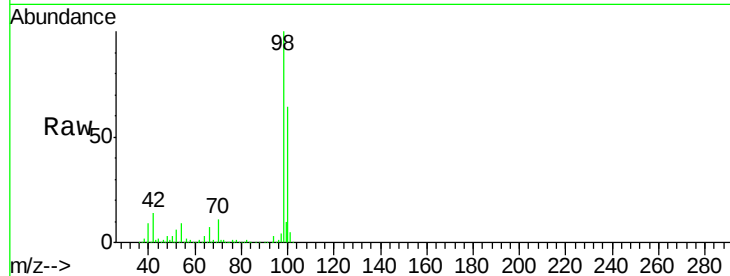
KY038PS035-190318

Tot Ion: 75 Resp: 30

Ion Ratio Lower Upper

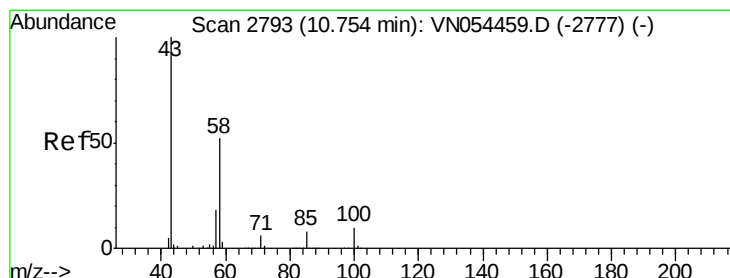
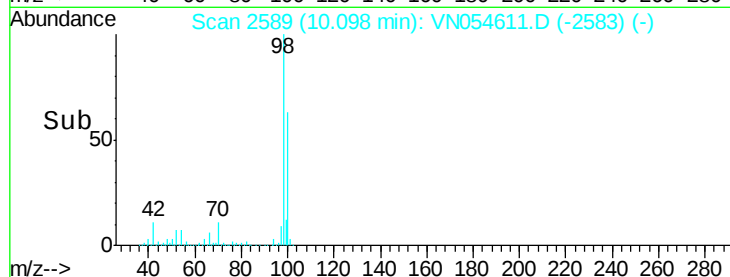
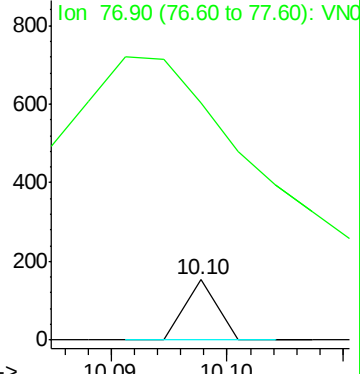
75 100

77 137.3 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: 0.567 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN054611.D

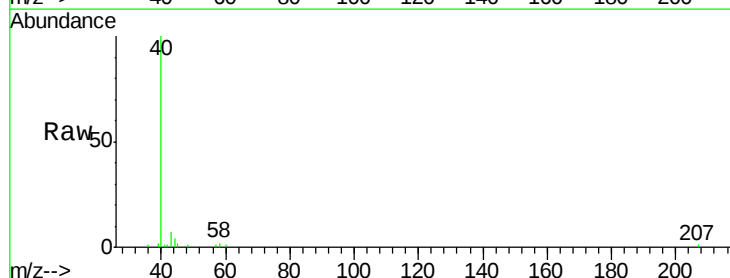
Acq: 23 Mar 2019 18:16

Tgt Ion: 43 Resp: 2233

Ion Ratio Lower Upper

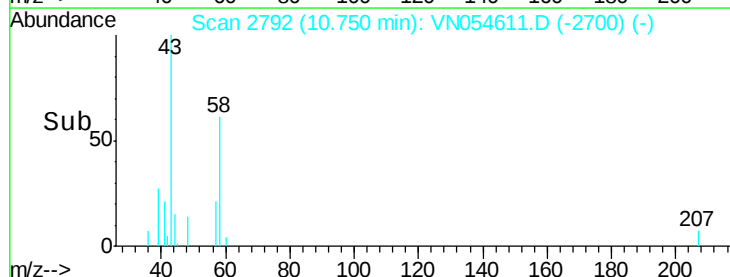
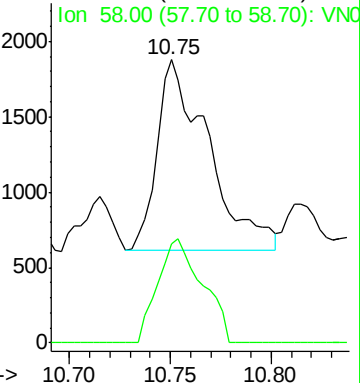
43 100

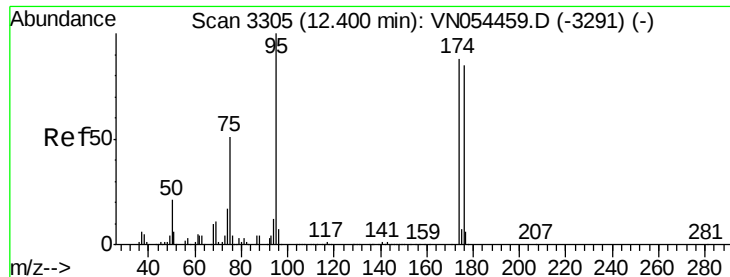
58 47.6 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.069 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

KY038PS035-190318

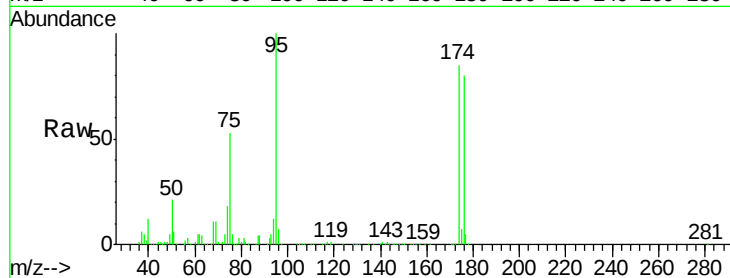
Tot Ion: 95 Resp: 375780

Ion Ratio Lower Upper

95 100

174 84.3 0.0 191.0

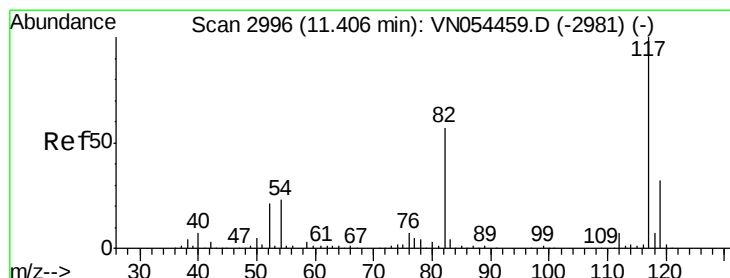
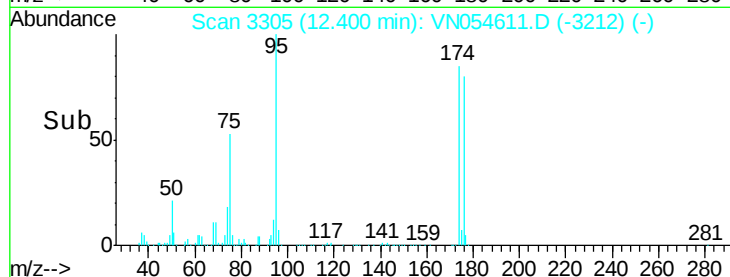
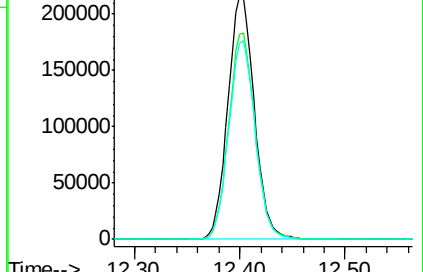
176 81.5 0.0 187.4



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: VN054611.D

Acq: 23 Mar 2019 18:16

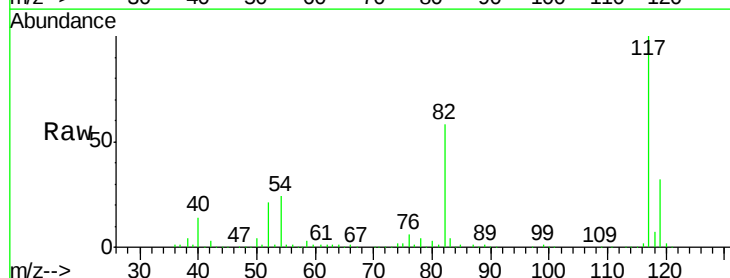
Tgt Ion: 117 Resp: 781981

Ion Ratio Lower Upper

117 100

82 57.8 40.0 60.0

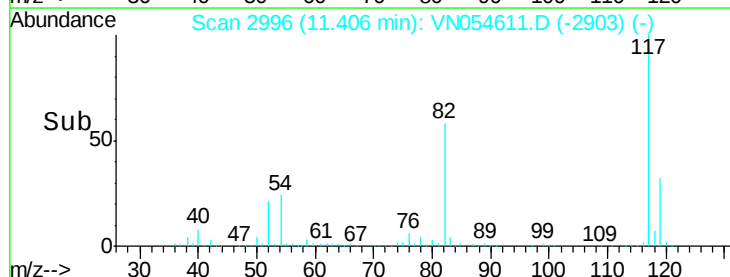
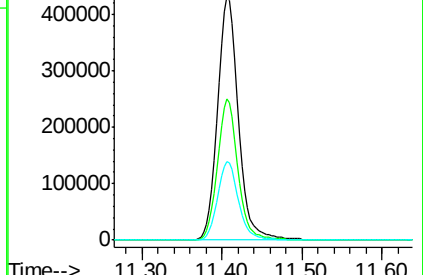
119 32.3 25.8 38.6

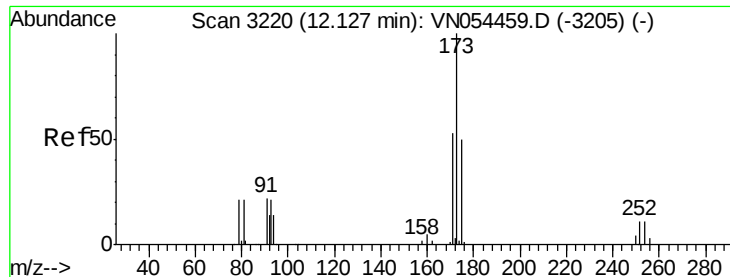


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

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: 2.360 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

KY038PS035-190318

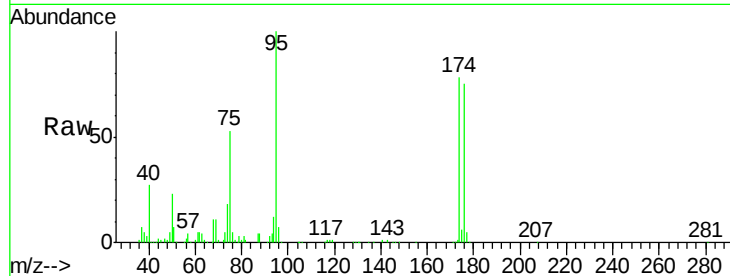
Tot Ion:173 Resp: 573

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

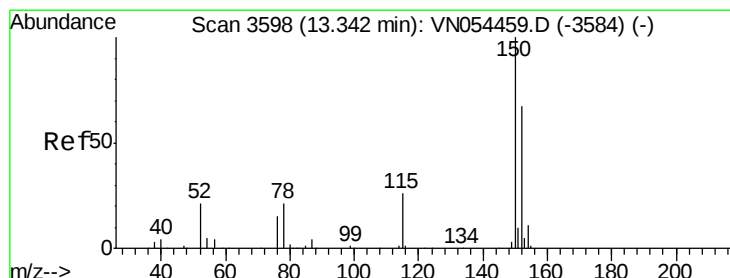
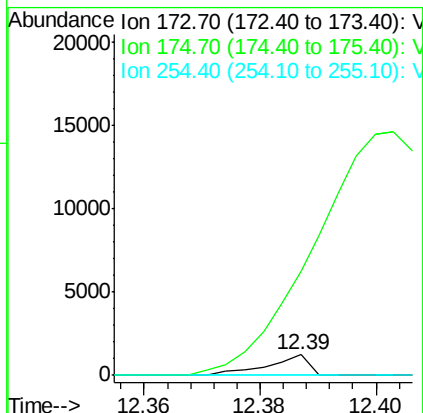
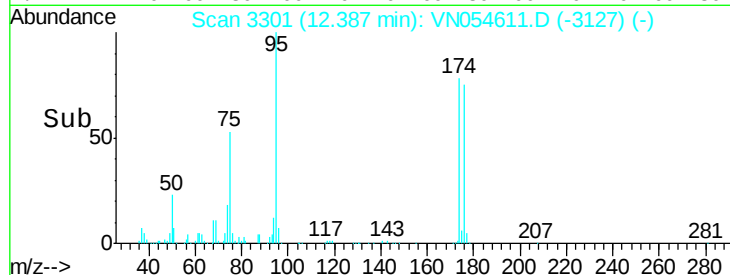
254 0.0 0.1 0.1#



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: VN054611.D

Acq: 23 Mar 2019 18:16

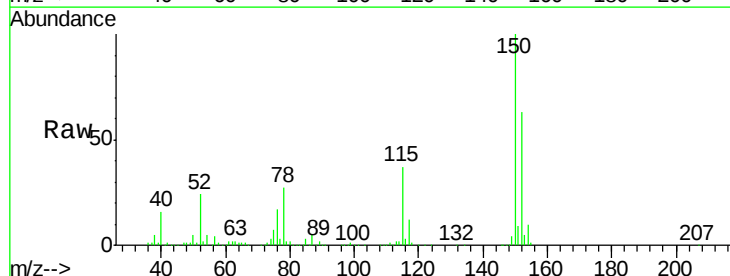
Tgt Ion:152 Resp: 267931

Ion Ratio Lower Upper

152 100

115 59.0 27.2 81.6

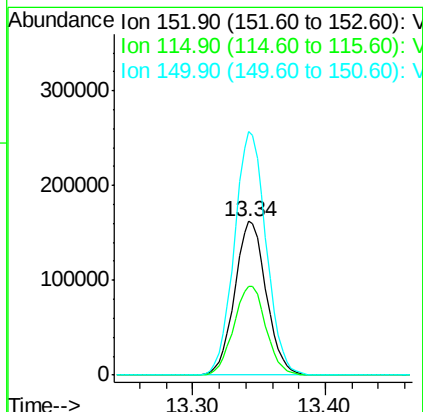
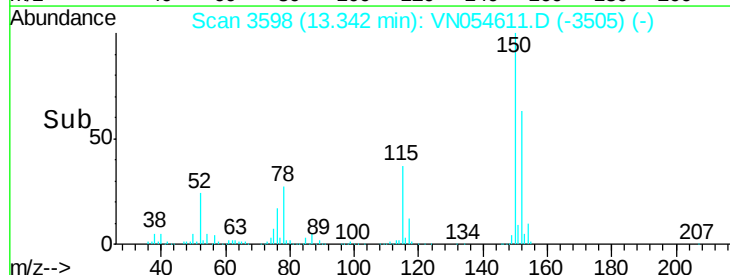
150 159.4 0.0 349.2

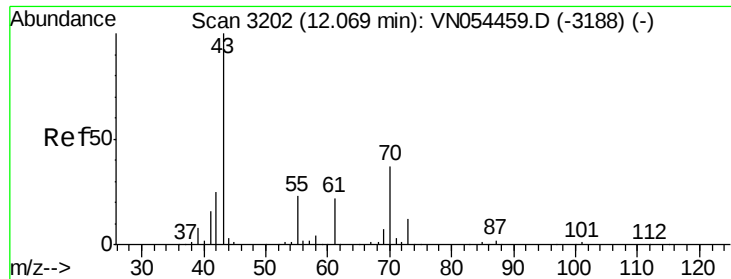


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.319 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

KY038PS035-190318

Tot Ion: 43 Resp: 1979

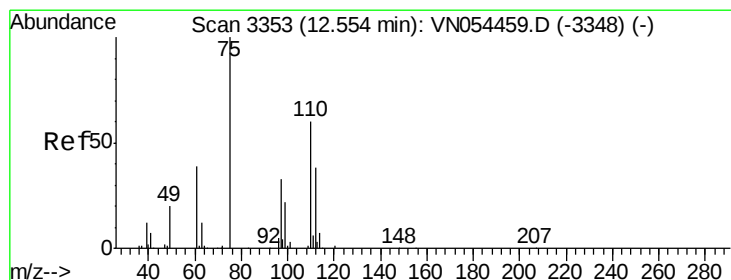
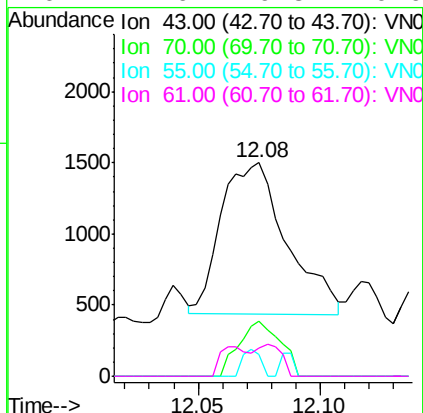
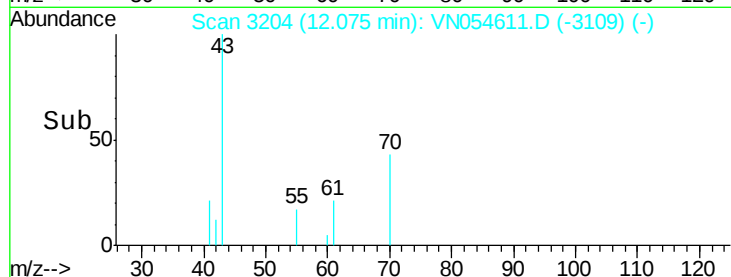
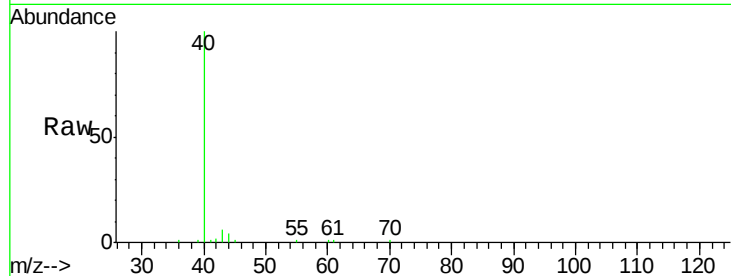
Ion Ratio Lower Upper

43 100

70 22.9 35.4 53.0#

55 4.9 19.8 29.6#

61 7.6 19.8 29.6#



#76

1,2,3-Trichloropropane

Concen: 46.130 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054611.D

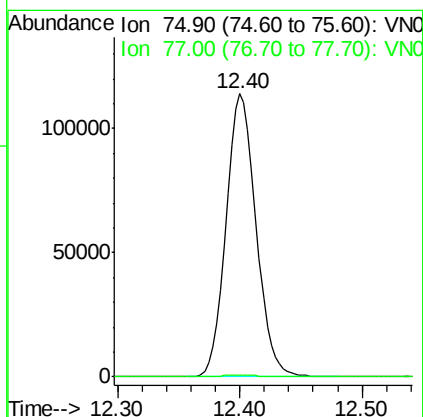
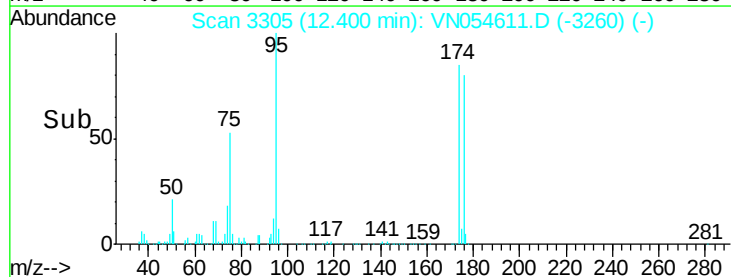
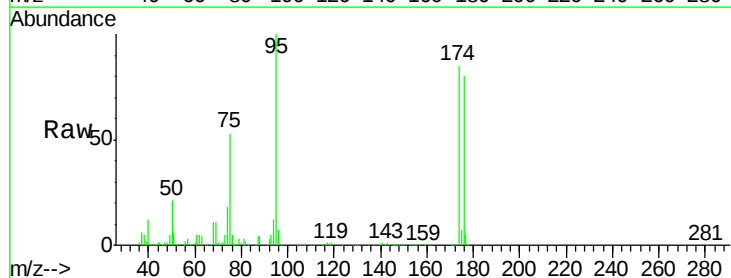
Acq: 23 Mar 2019 18:16

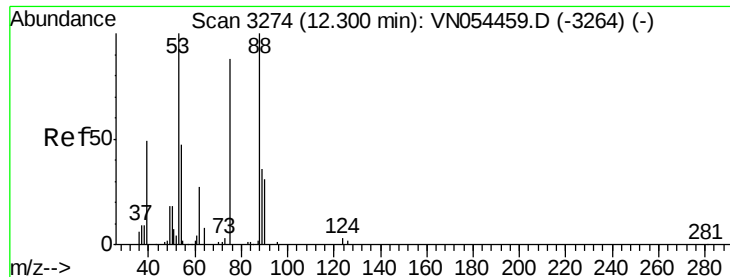
Tgt Ion: 75 Resp: 196130

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 152.111 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

KY038PS035-190318

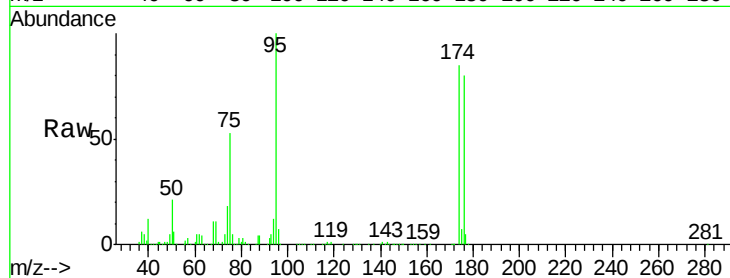
Tot Ion: 75 Resp: 196130

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

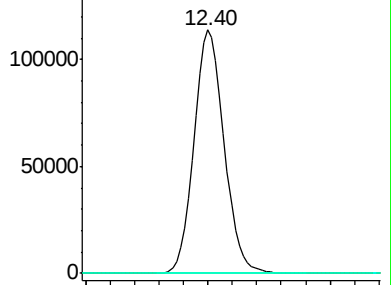
89 0.0 39.2 58.8#



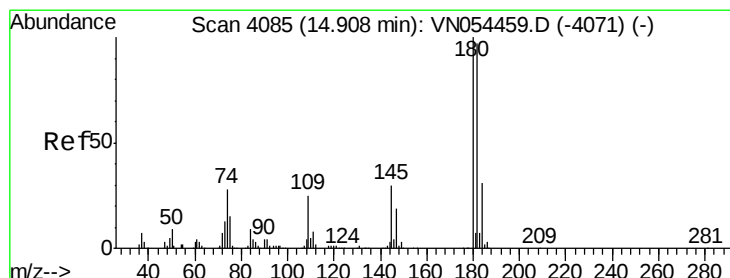
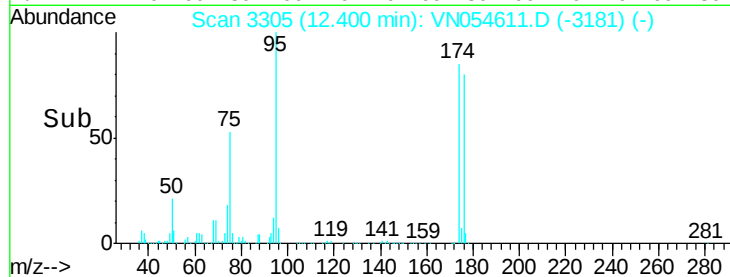
Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)



Time--> 12.30 12.40 12.50



#93

1,2,4-Trichlorobenzene

Concen: 0.337 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

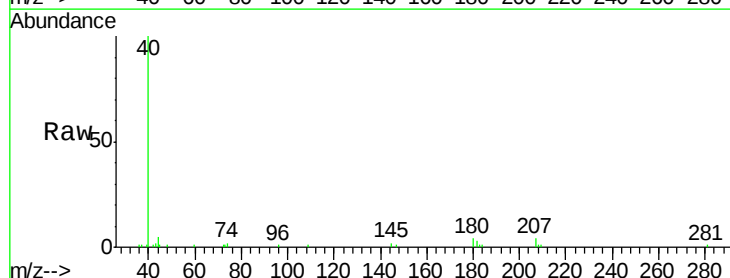
Tgt Ion: 180 Resp: 1445

Ion Ratio Lower Upper

180 100

182 94.7 48.0 144.2

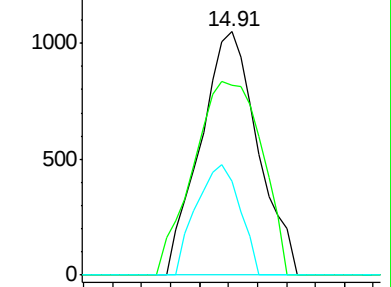
145 34.5 14.2 42.8



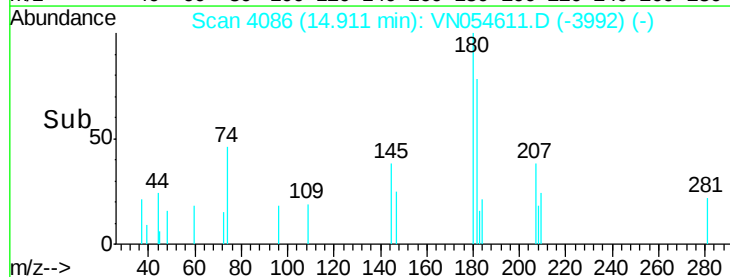
Abundance Ion 179.80 (179.50 to 180.50): VN054459.D (-4071) (-)

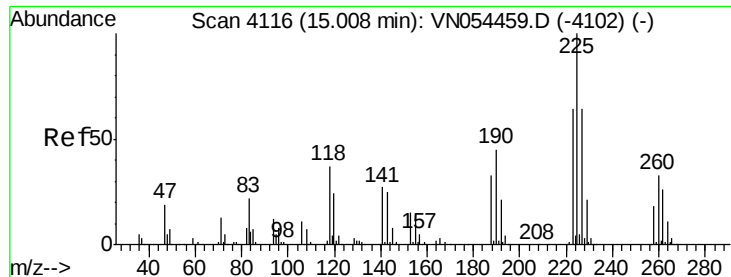
Ion 181.80 (181.50 to 182.50): VN054459.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN054459.D (-4071) (-)



Time--> 14.90 14.95





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

KY038PS035-190318

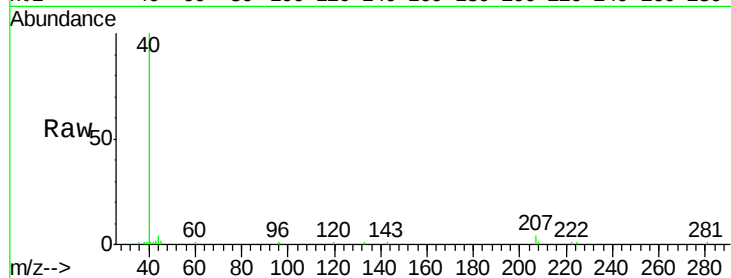
Tot Ion:225 Resp: 380

Ion Ratio Lower Upper

225 100

223 48.2 31.1 93.5

227 27.6 31.9 95.9#

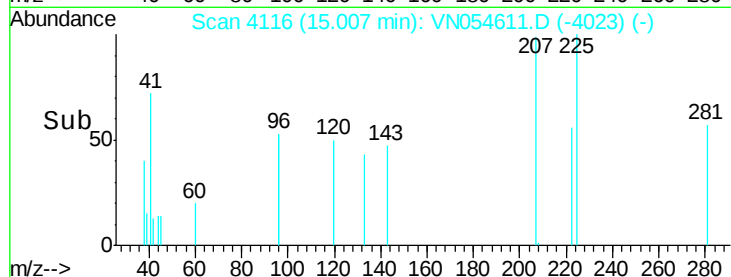


Abundance Ion 224.70 (224.40 to 225.40): V

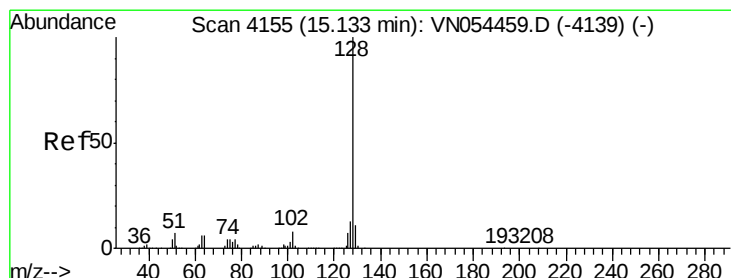
Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

Time--> 14.98 15.00 15.02



Time--> 14.98 15.00 15.02



#95

Naphthalene

Concen: 0.563 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

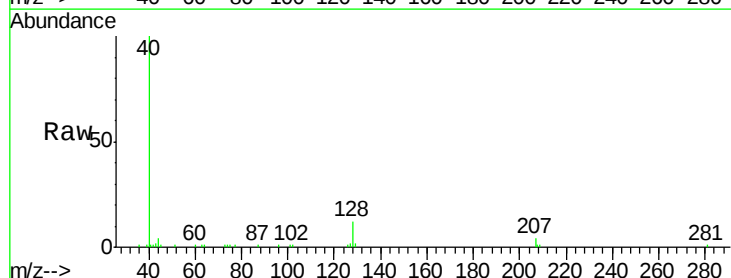
Tgt Ion:128 Resp: 5384

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

129 6.2 8.7 13.1#

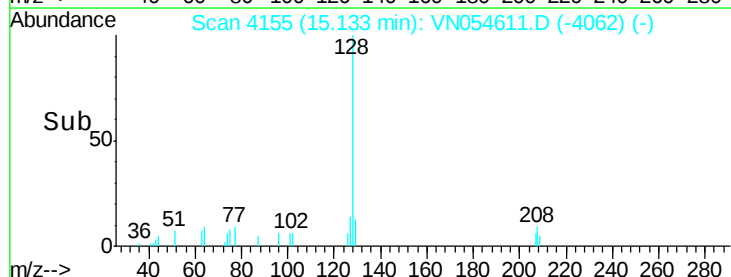


Abundance Ion 128.00 (127.70 to 128.70): V

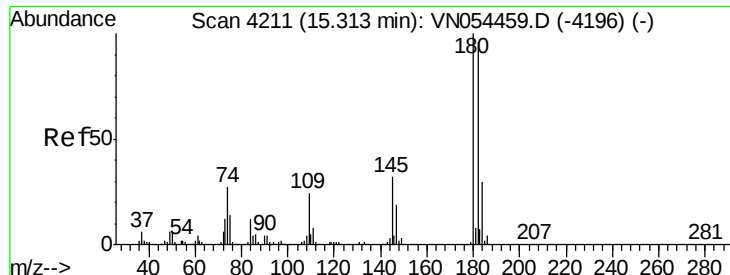
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time--> 15.10 15.15



Time--> 15.10 15.15



#96

1,2,3-Trichlorobenzene

Concen: 0.412 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054611.D

Acq: 23 Mar 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

KY038PS035-190318

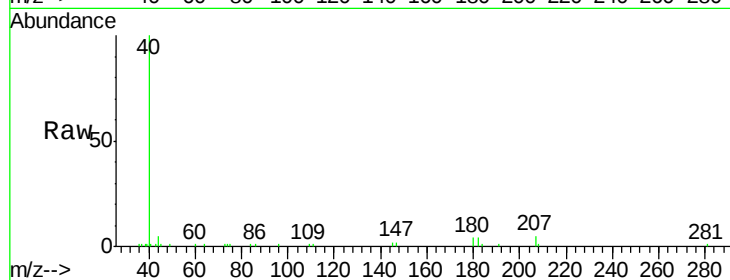
Tot Ion:180 Resp: 1759

Ion Ratio Lower Upper

180 100

182 114.6 47.5 142.6

145 36.2 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

