

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054413.D
 Acq On : 19 Mar 2019 00:55
 Operator : JC/SP
 Sample : K1902-12 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 05:18:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1915926	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2779611	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2304853	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	852252	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	931730	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
35) Dibromofluoromethane	7.59	113	847532	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	10.09	98	3179669	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
62) 4-Bromofluorobenzene	12.40	95	941554	40.64	ug/l	0.00
Spiked Amount			Recovery	=	81.28%	

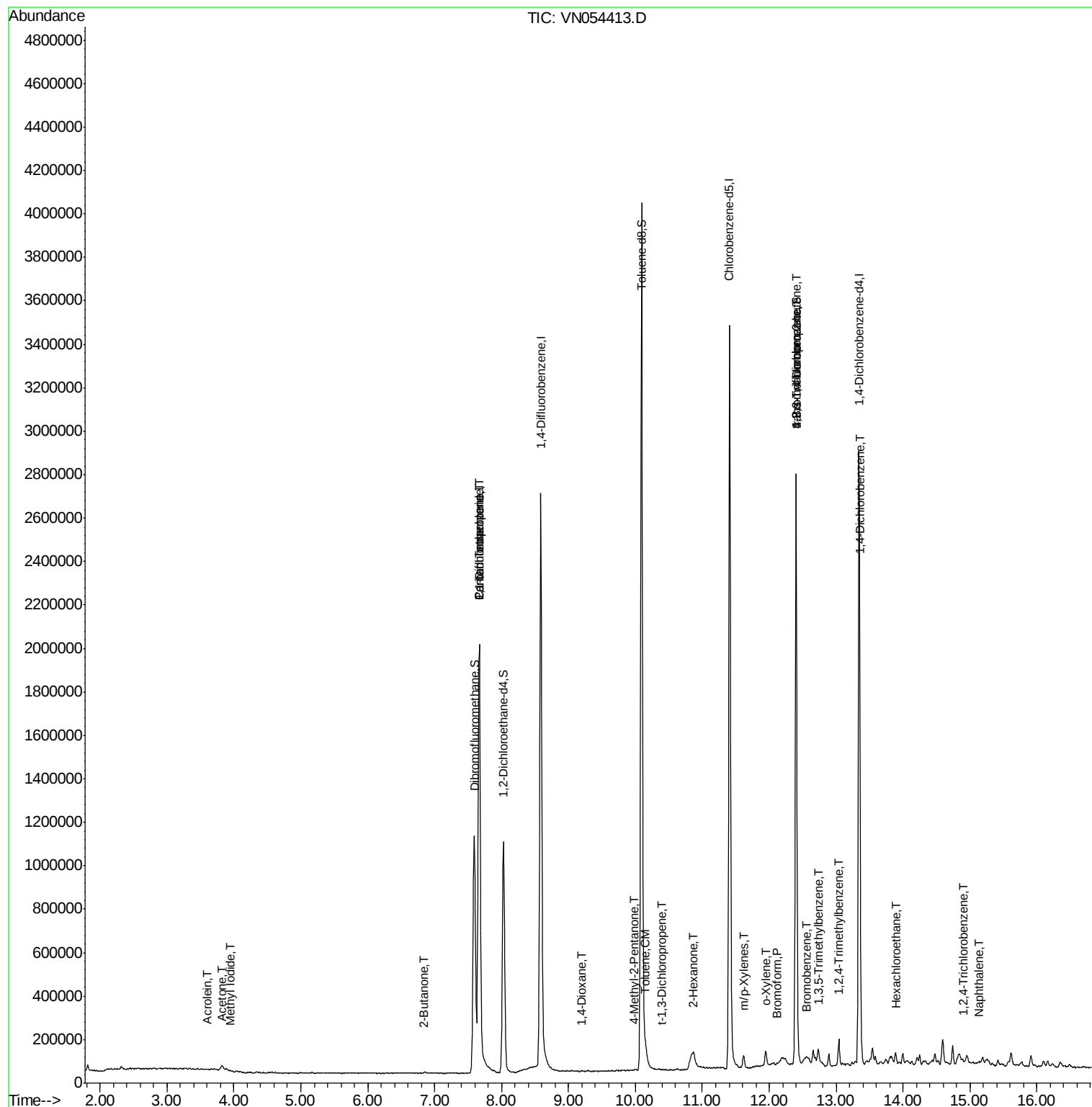
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	416	1.511	ug/l #	45
13) Acrolein	3.60	56	284	0.215	ug/l #	36
16) Acetone	3.82	43	32938	5.654	ug/l	96
25) 2-Butanone	6.85	43	2379	0.348	ug/l	94
31) Cyclohexane	7.66	56	27863	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	110284	4.308	ug/l #	48
38) Carbon Tetrachloride	7.67	117	153782	5.729	ug/l #	16
49) 1,4-Dioxane	9.20	88	78	0.421	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4690	0.343	ug/l	98
52) Toluene	10.16	92	17186	0.370	ug/l	94
53) t-1,3-Dichloropropene	10.38	75	34	1.987	ug/l #	1
59) 2-Hexanone	10.87	43	67980	7.478	ug/l #	41
68) m/p-Xylenes	11.62	106	20925	0.638	ug/l	97
69) o-Xylene	11.95	106	18561	0.581	ug/l	99
71) Bromoform	12.12	173	461	2.382	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	446613	35.636	ug/l #	100
77) Bromobenzene	12.55	156	35811	1.985	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.73	105	29051	0.512	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	446613	121.819	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	71403	1.283	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	10279	0.344	ug/l #	25
90) Hexachloroethane	13.89	117	3193	0.325	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.90	180	340	2.535	ug/l #	1
95) Naphthalene	15.14	128	10593	3.733	ug/l #	87

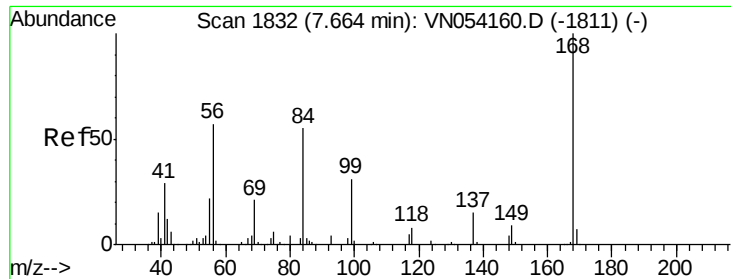
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

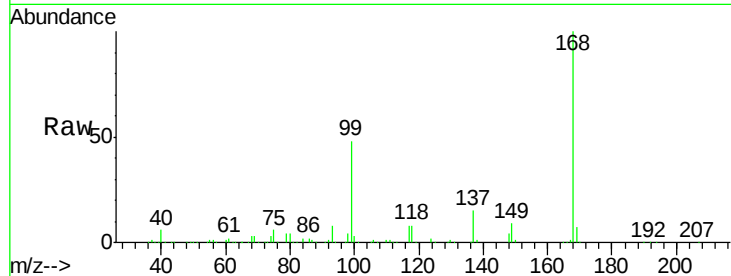
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1915926

Ion Ratio Lower Upper

168 100

99 47.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

800000

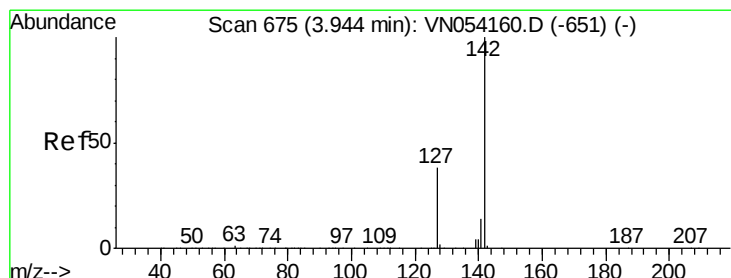
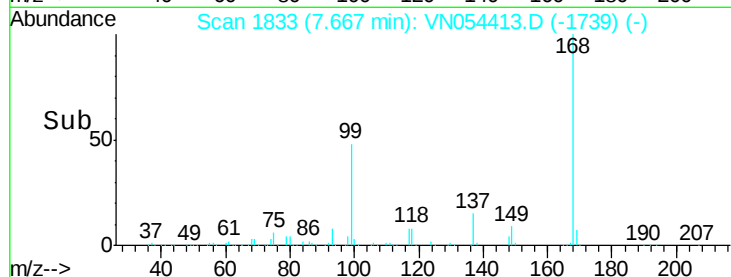
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#10

Methyl Iodide

Concen: 1.511 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

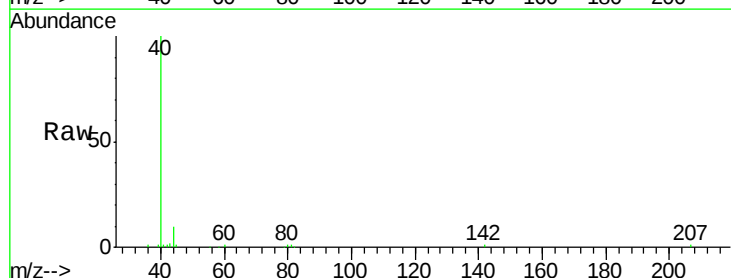
Tgt Ion:142 Resp: 416

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

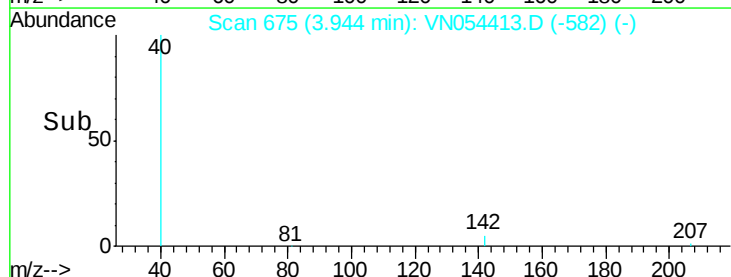
300

200

100

0

Time--> 3.92 3.94 3.96 3.98

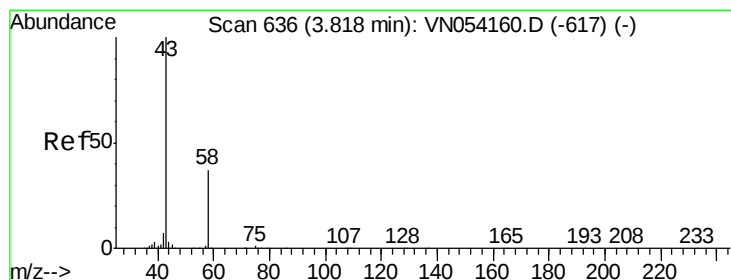
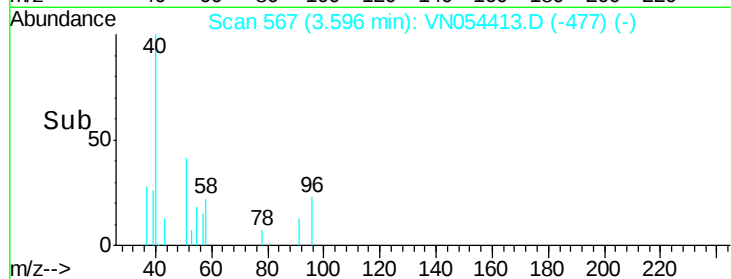
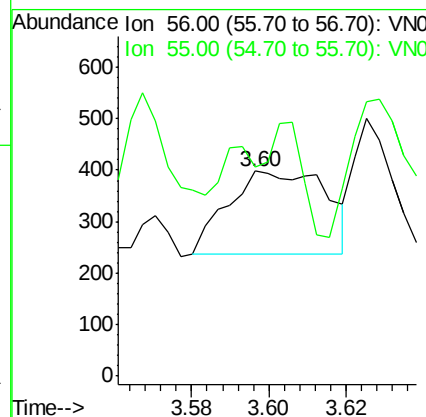
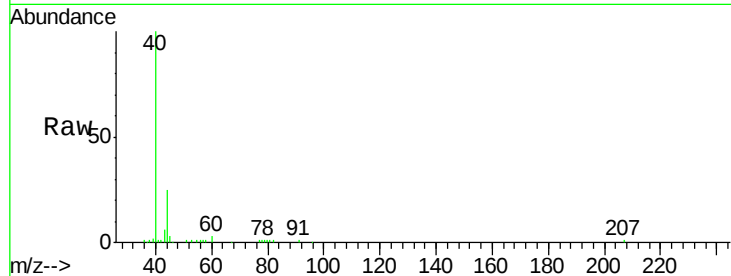




#13
Acrolein
Concen: 0.215 ug/l
RT: 3.60 min Scan# 567
Delta R.T. -0.01 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

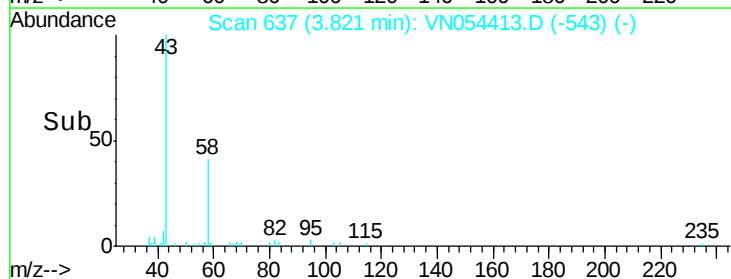
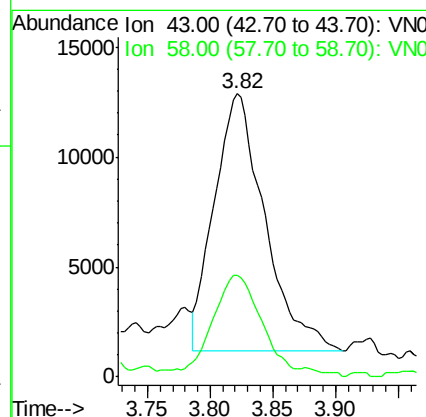
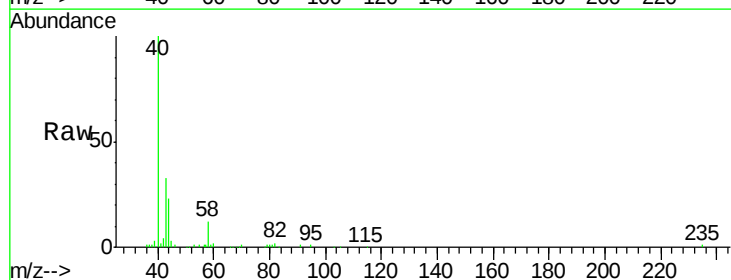
Instrument :
MSVOA_N
ClientSampled :

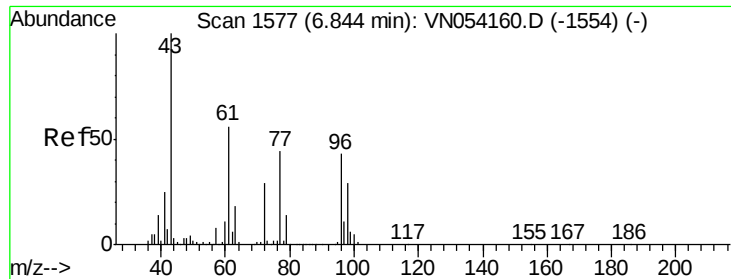
Tot Ion: 56 Resp: 284
Ion Ratio Lower Upper
56 100
55 18.0 56.7 85.1#



#16
Acetone
Concen: 5.654 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Tgt Ion: 43 Resp: 32938
Ion Ratio Lower Upper
43 100
58 39.6 29.9 44.9





#25

2-Butanone

Concen: 0.348 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

Instrument :

MSVOA_N

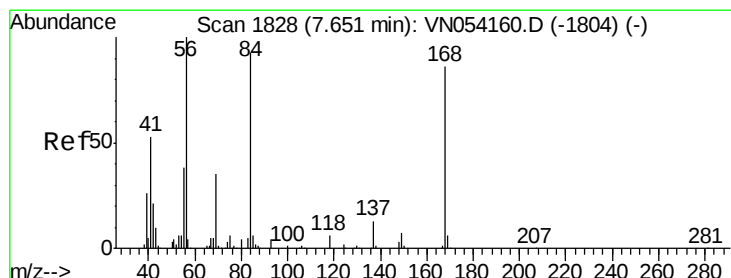
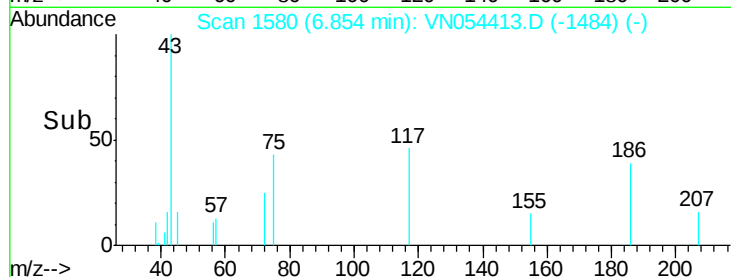
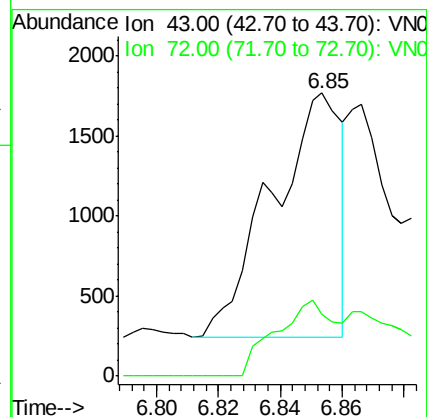
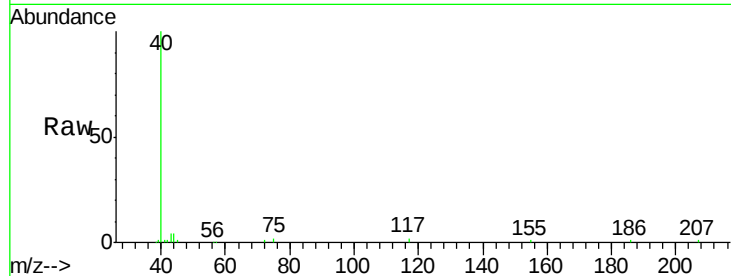
ClientSampled :

Tot Ion: 43 Resp: 2379

Ion Ratio Lower Upper

43 100

72 25.4 23.0 34.6



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

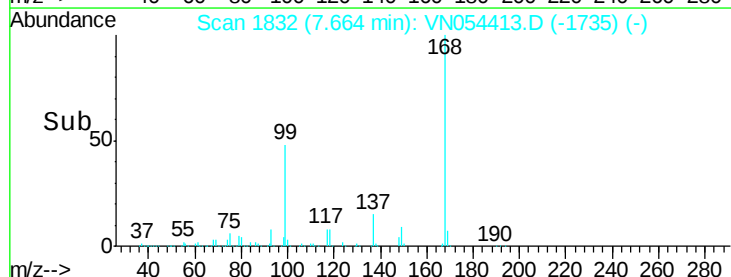
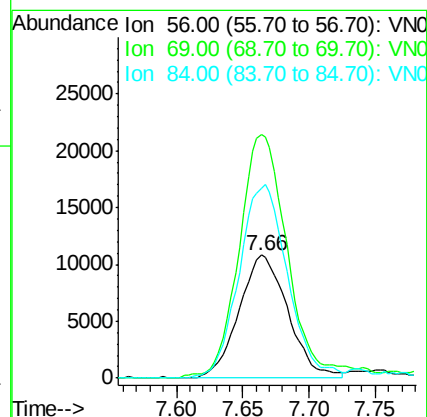
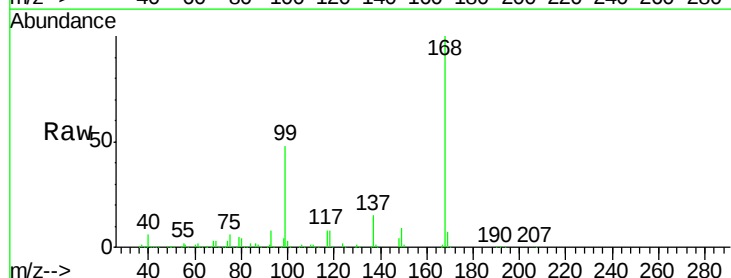
Tgt Ion: 56 Resp: 27863

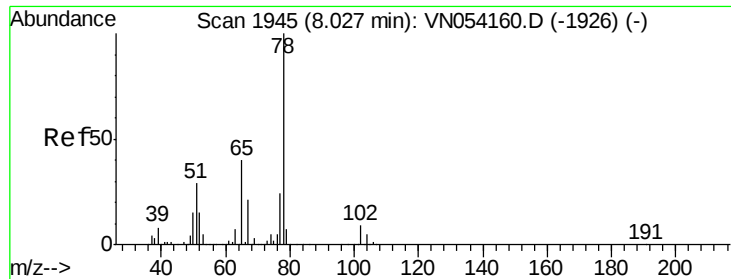
Ion Ratio Lower Upper

56 100

69 195.1 27.8 41.6#

84 153.3 74.6 111.8#





#33

1,2-Dichloroethane-d4

Concen: 45.792 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

Instrument :

MSVOA_N

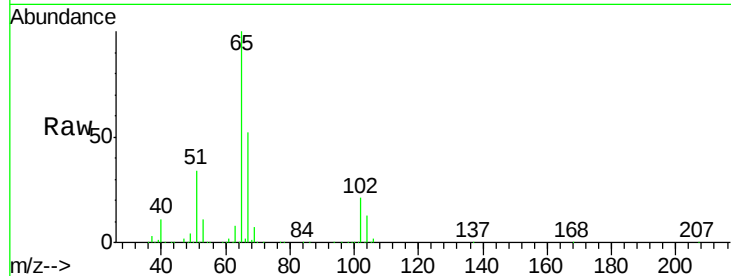
ClientSampled :

Tot Ion: 65 Resp: 931730

Ion Ratio Lower Upper

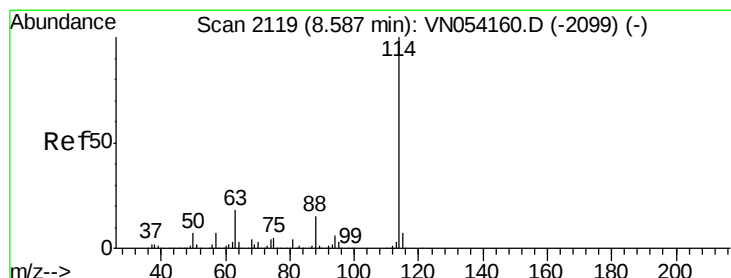
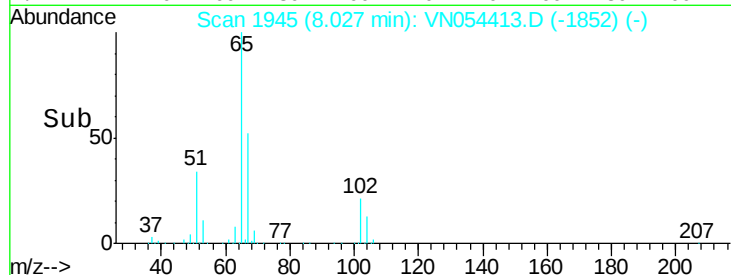
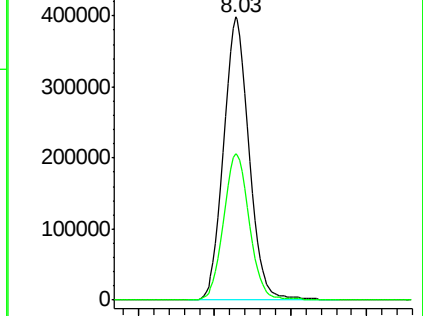
65 100

67 52.6 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: VN054413.D

Acq: 19 Mar 2019 00:55

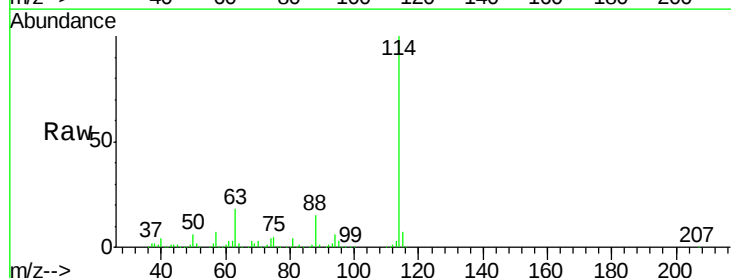
Tgt Ion: 114 Resp: 2779611

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.2

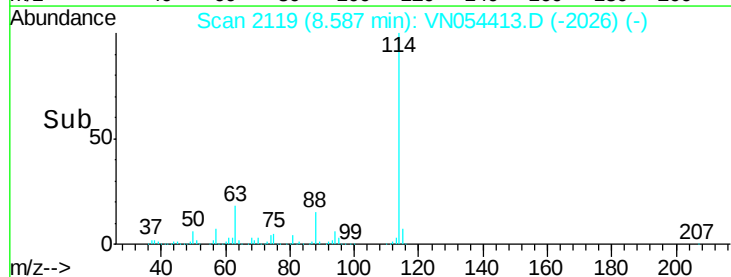
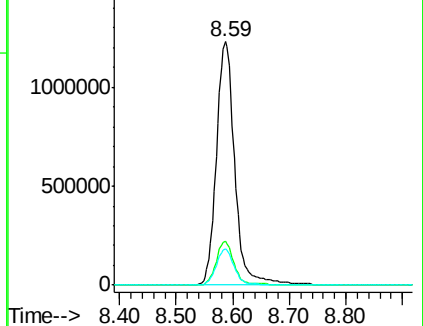
88 14.8 0.0 30.2

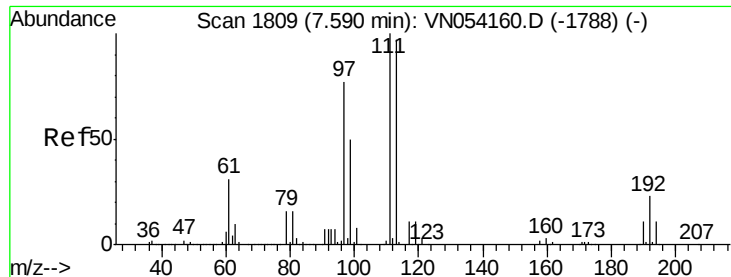


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

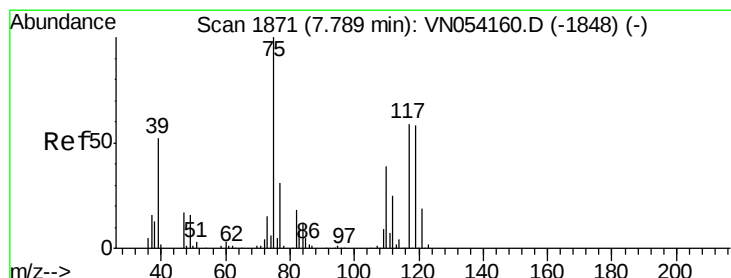
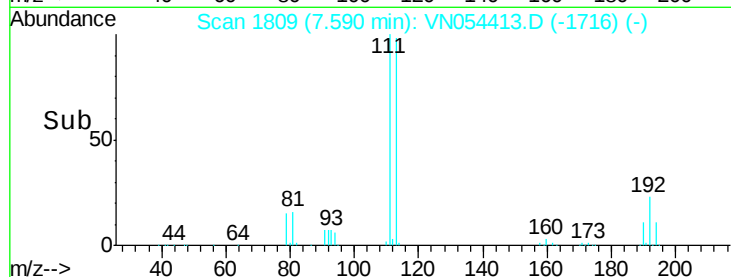
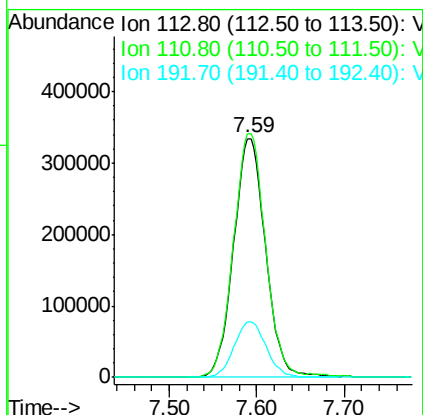
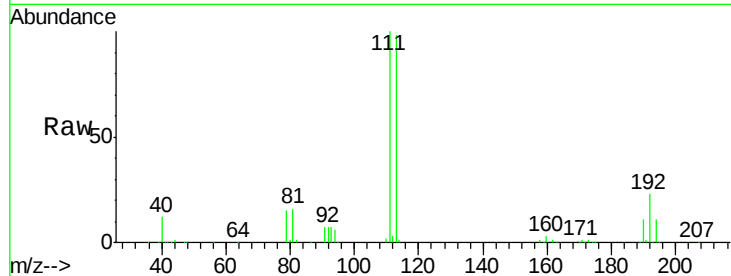




#35
 Dibromofluoromethane
 Concen: 47.276 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054413.D
 Acq: 19 Mar 2019 00:55

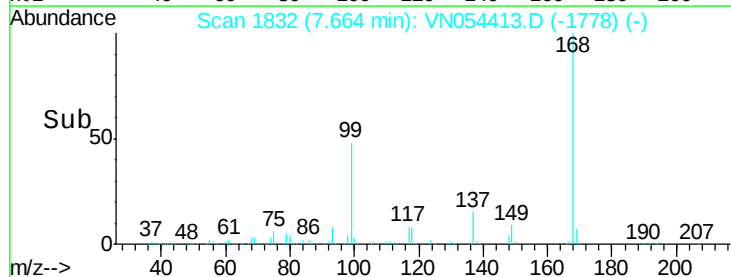
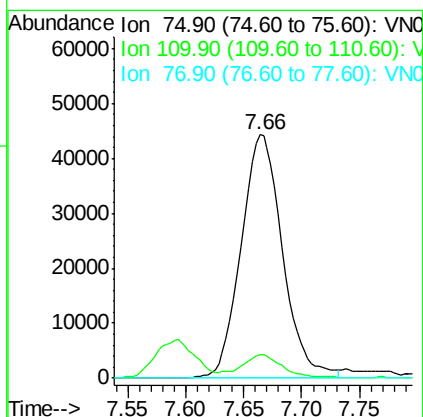
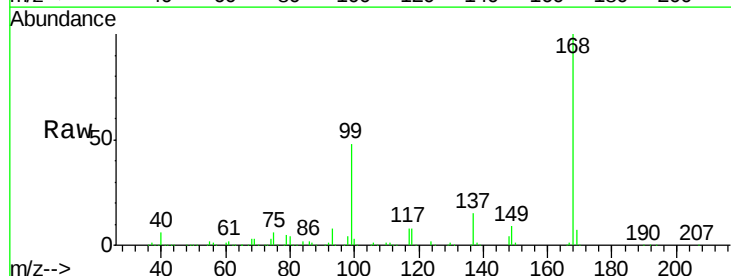
Instrument :
 MSVOA_N
 ClientSampled :

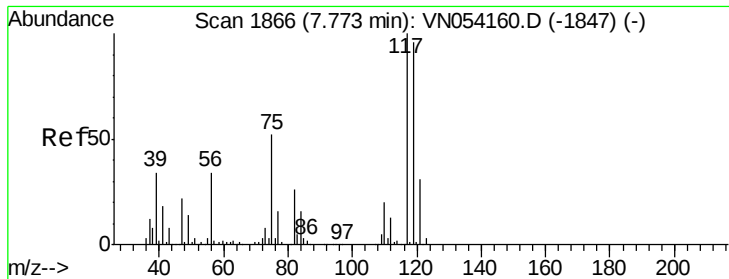
Tot Ion:113 Resp: 847532
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.2 123.4
 192 23.4 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 4.308 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054413.D
 Acq: 19 Mar 2019 00:55

Tgt Ion: 75 Resp: 110284
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.1 57.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.729 ug/l

RT: 7.67 min Scan# 1833

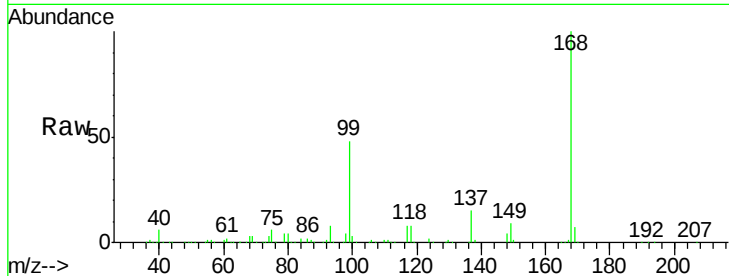
Delta R.T. -0.11 min

Lab File: VN054413.D

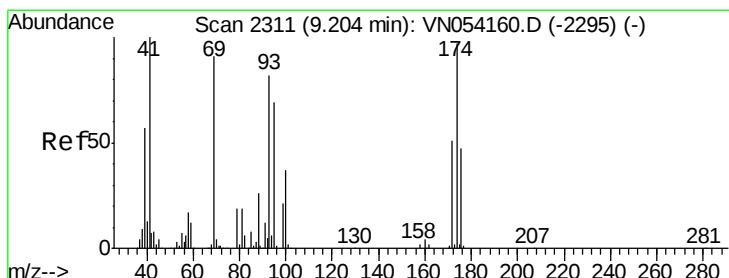
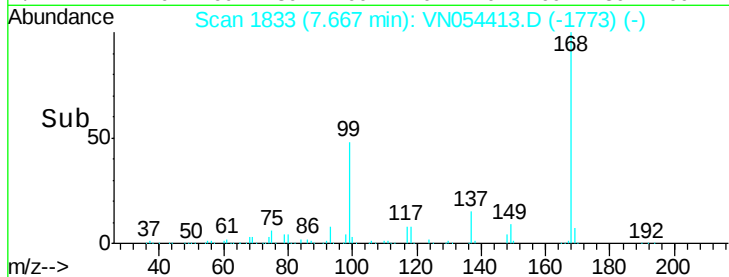
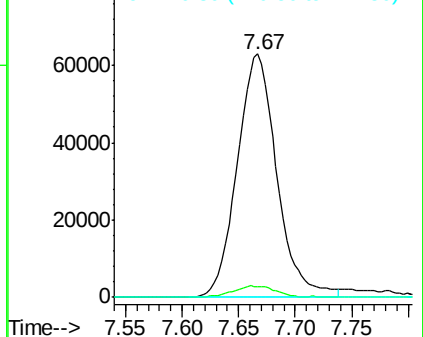
Acq: 19 Mar 2019 00:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 153782
Ion Ratio Lower Upper
117 100
119 4.3 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



#49

1,4-Dioxane

Concen: 0.421 ug/l

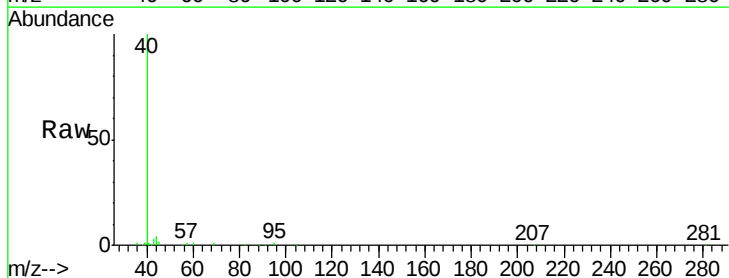
RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

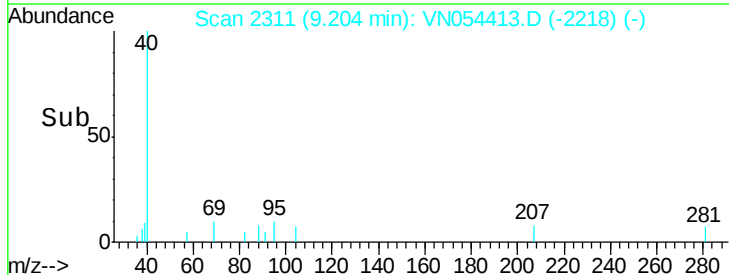
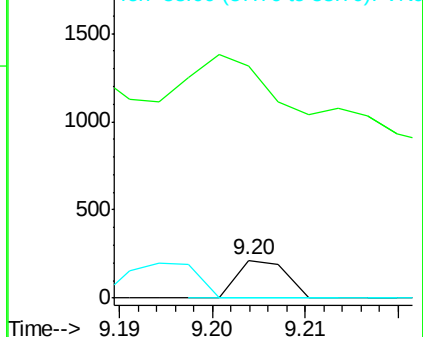
Lab File: VN054413.D

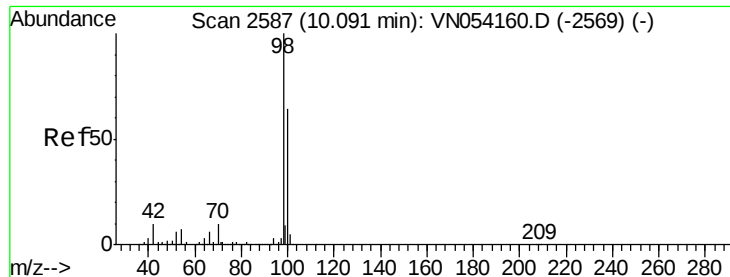
Acq: 19 Mar 2019 00:55

Tgt Ion: 88 Resp: 78
Ion Ratio Lower Upper
88 100
43 487.2 24.1 36.1#
58 135.9 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 48.025 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

Instrument :

MSVOA_N

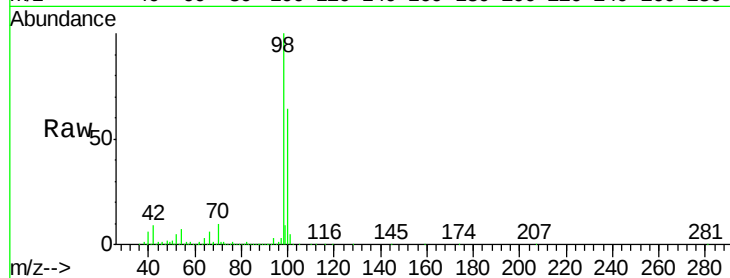
ClientSampleId :

Tot Ion: 98 Resp: 3179669

Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054160.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054160.D (-2569) (-)

10.09

1500000

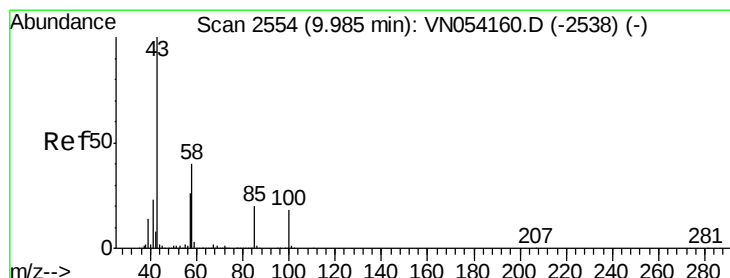
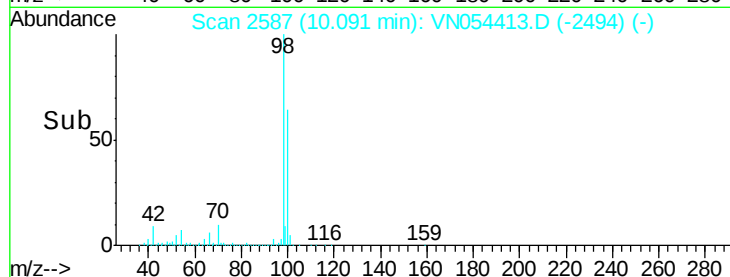
1000000

500000

0

Time-->

10.00 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.343 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN054413.D

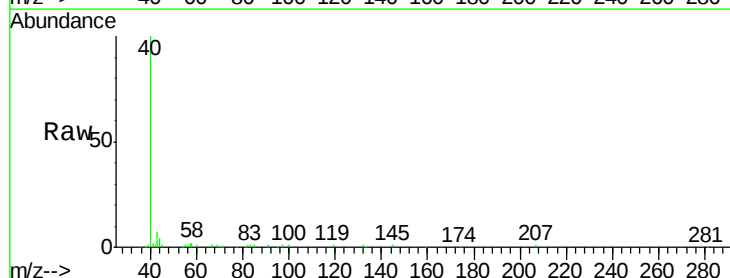
Acq: 19 Mar 2019 00:55

Tgt Ion: 43 Resp: 4690

Ion Ratio Lower Upper

43 100

58 40.9 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-2538) (-)

9.99

3000

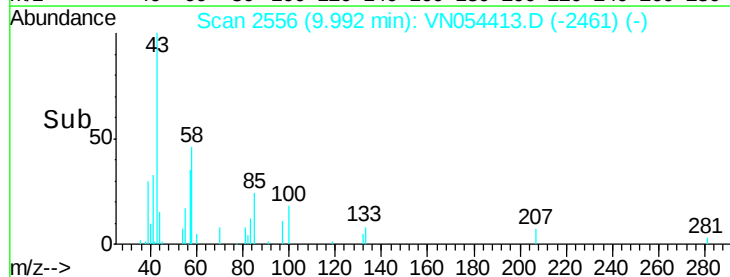
2000

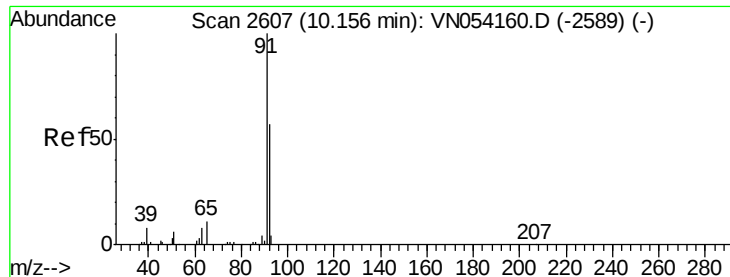
1000

0

Time-->

9.95 10.00





#52

Toluene

Concen: 0.370 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

Instrument :

MSVOA_N

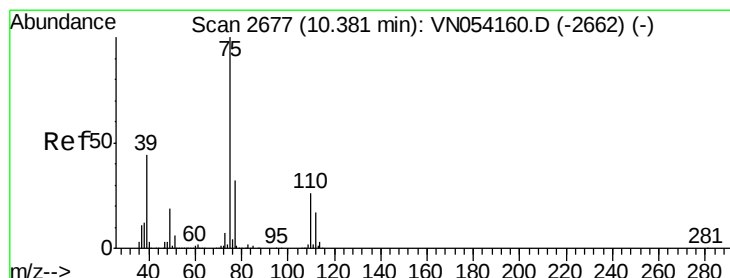
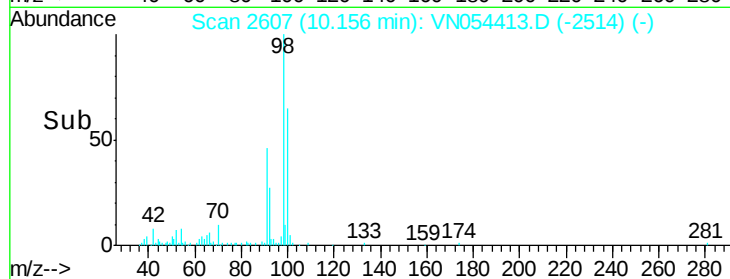
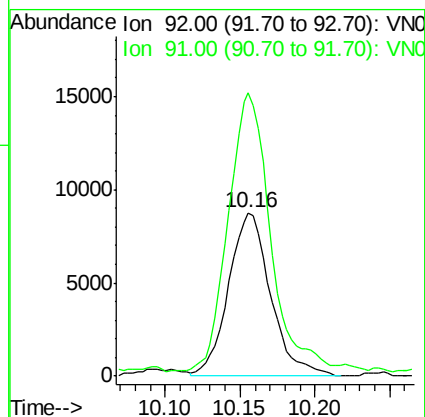
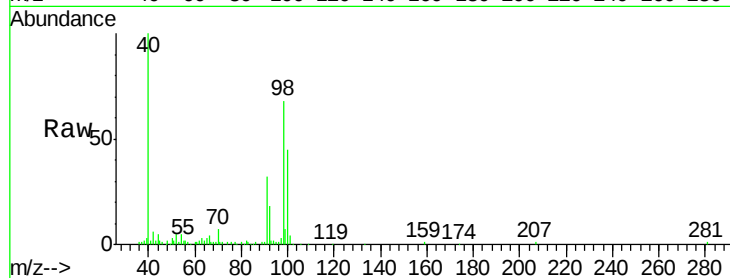
ClientSampleId :

Tot Ion: 92 Resp: 17186

Ion Ratio Lower Upper

92 100

91 168.0 140.7 211.1



#53

t-1,3-Dichloropropene

Concen: 1.987 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054413.D

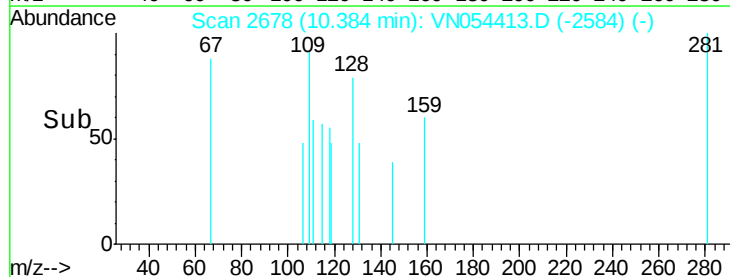
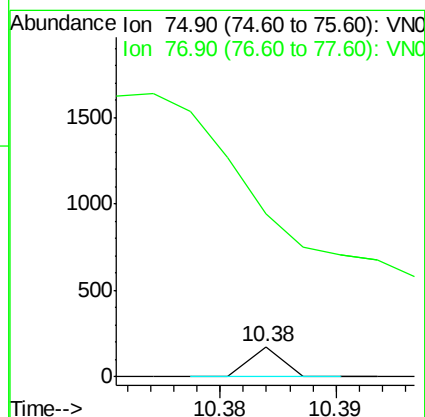
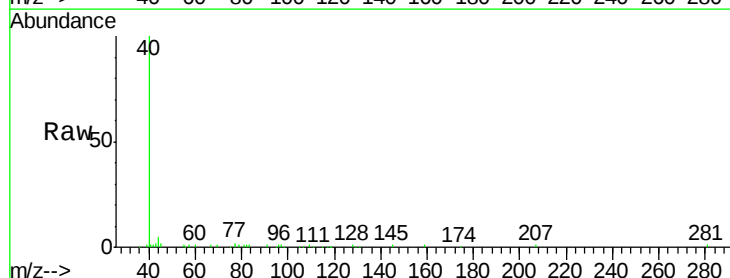
Acq: 19 Mar 2019 00:55

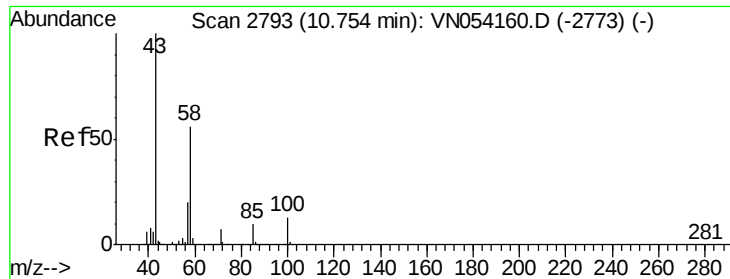
Tgt Ion: 75 Resp: 34

Ion Ratio Lower Upper

75 100

77 134.5 25.8 38.8#

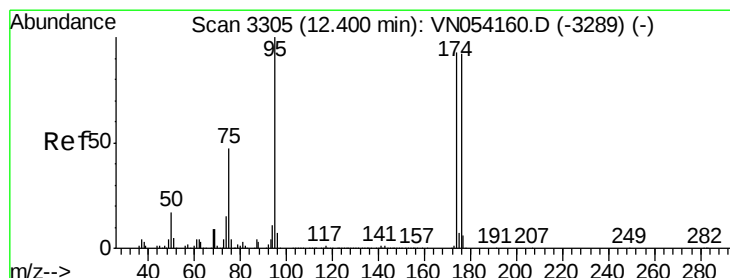
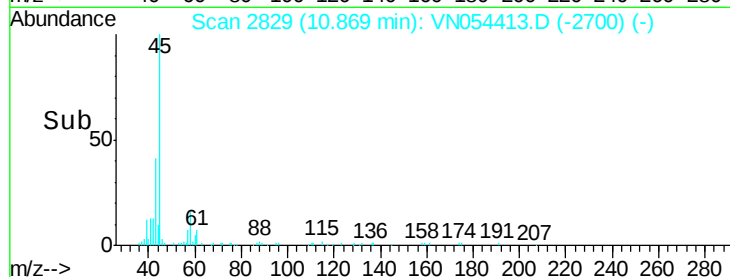
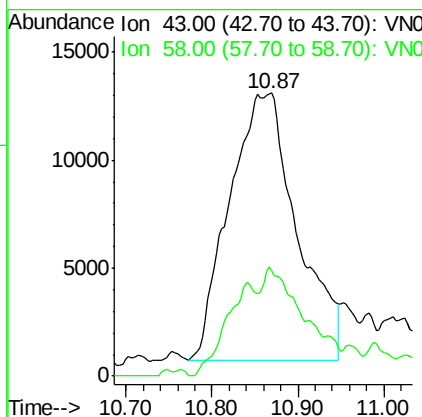
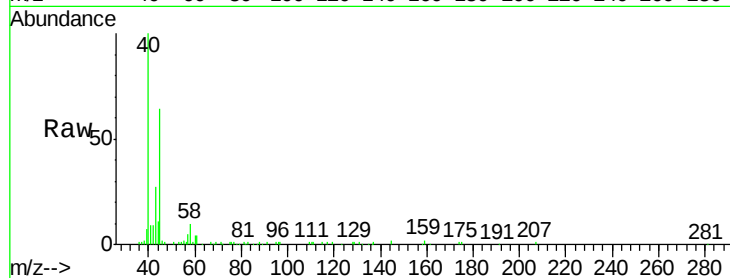




#59
2-Hexanone
Concen: 7.478 ug/l
RT: 10.87 min Scan# 2829
Delta R.T. 0.12 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

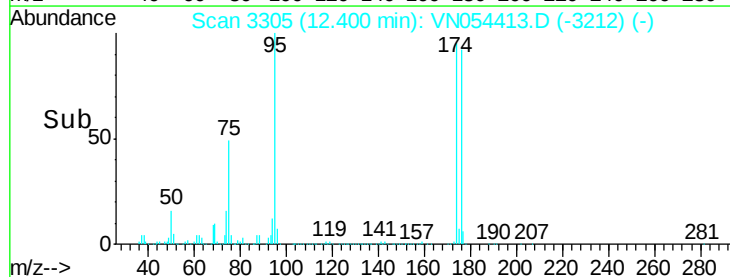
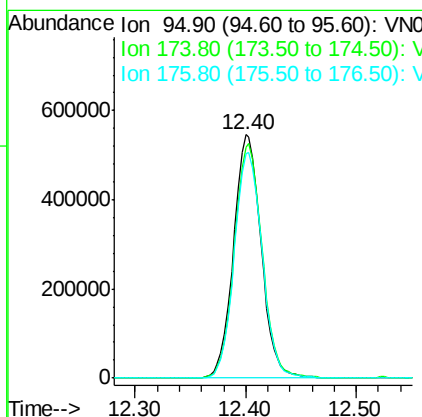
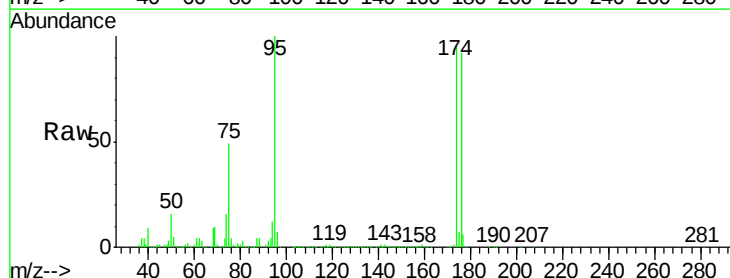
Instrument :
MSVOA_N
ClientSampled :

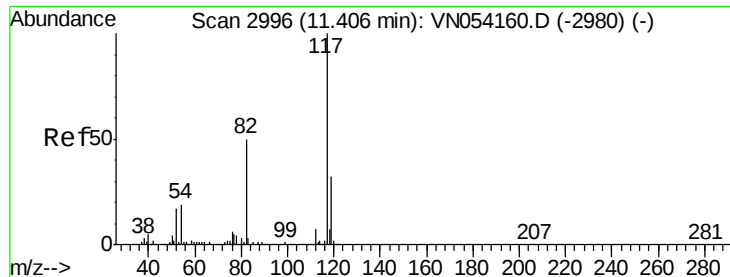
Tot Ion: 43 Resp: 67980
Ion Ratio Lower Upper
43 100
58 13.1 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 40.643 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Tgt Ion: 95 Resp: 941554
Ion Ratio Lower Upper
95 100
174 96.8 0.0 191.0
176 94.2 0.0 187.4

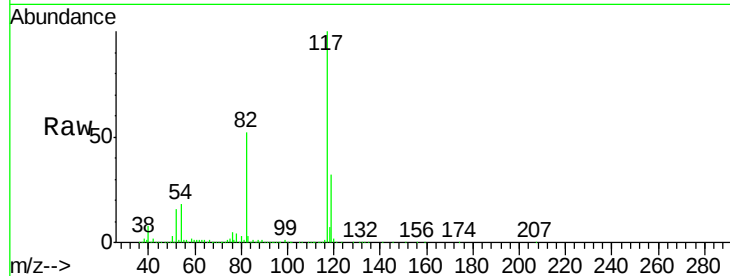




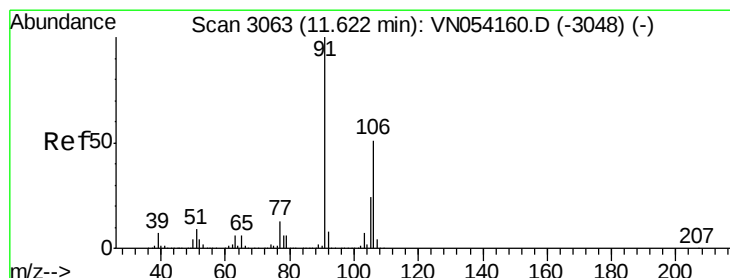
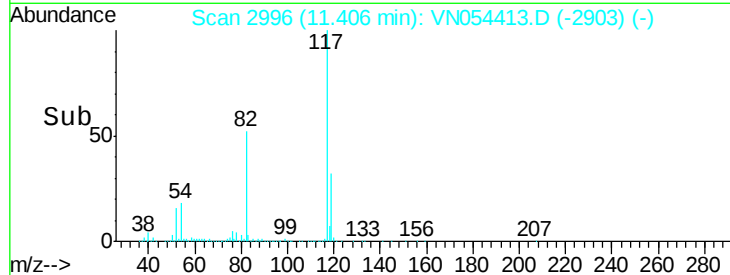
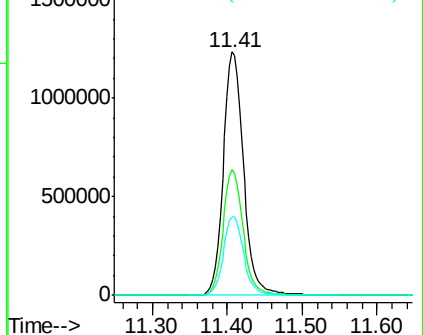
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 2304853
Ion Ratio Lower Upper
117 100
82 51.5 40.0 60.0
119 32.3 25.8 38.6

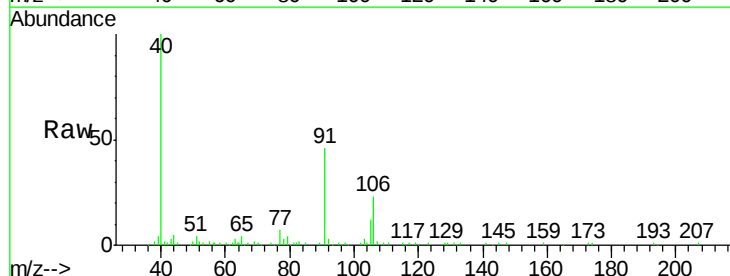


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

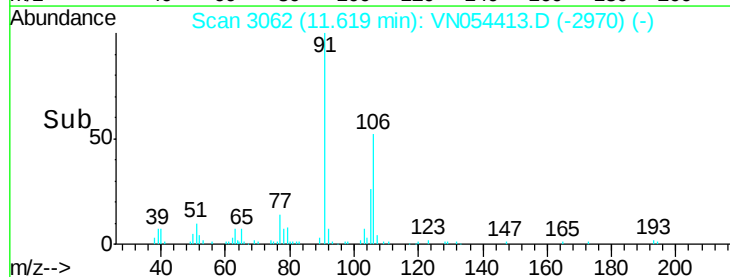
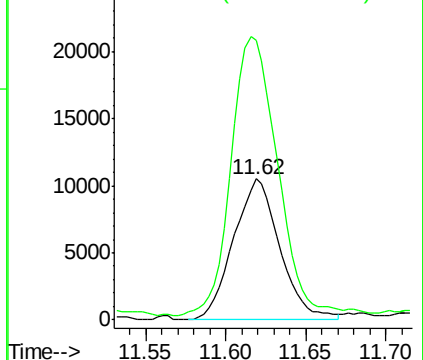


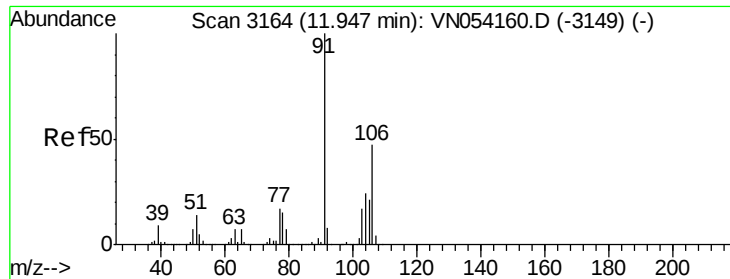
#68
m/p-Xylenes
Concen: 0.638 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Tgt Ion:106 Resp: 20925
Ion Ratio Lower Upper
106 100
91 195.4 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

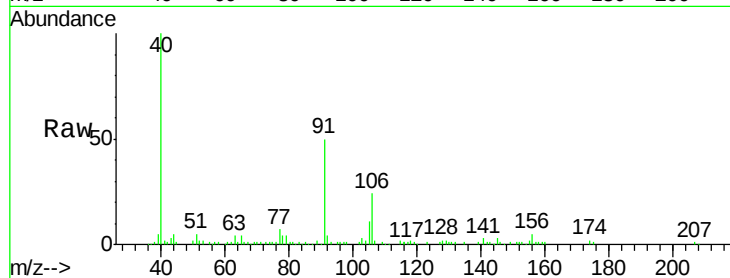




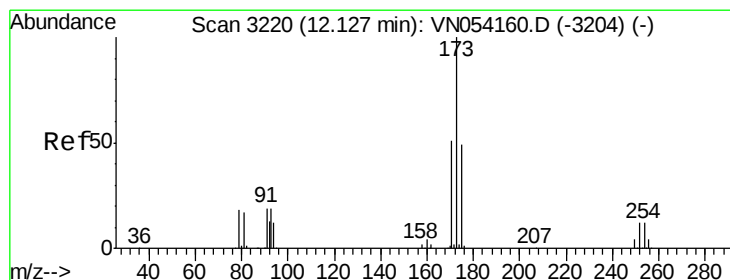
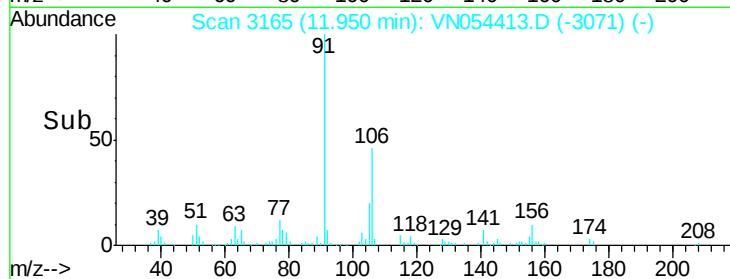
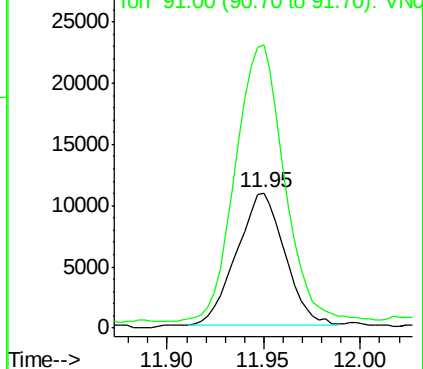
#69
o-Xylene
Concen: 0.581 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 18561
Ion Ratio Lower Upper
106 100
91 213.3 105.7 317.1

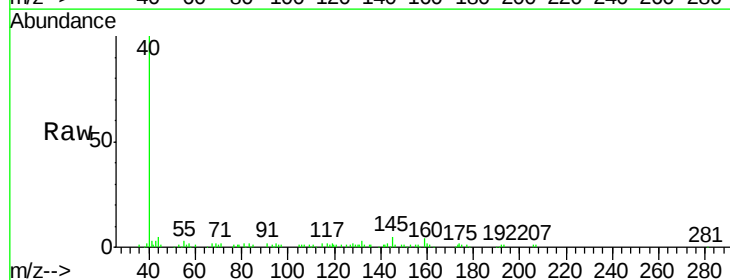


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

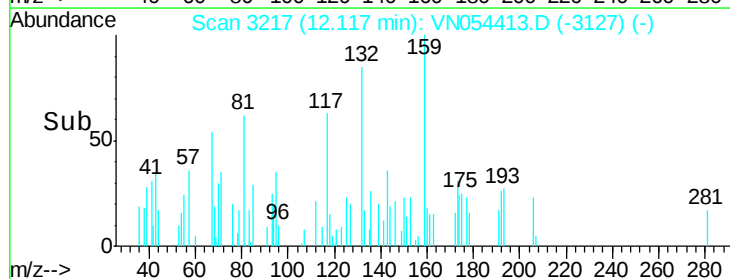
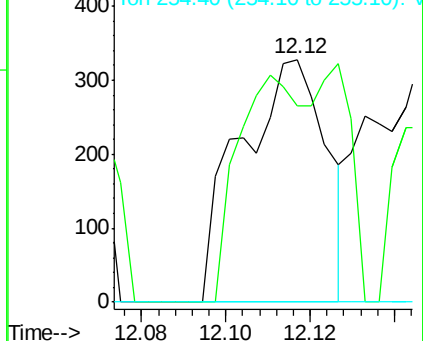


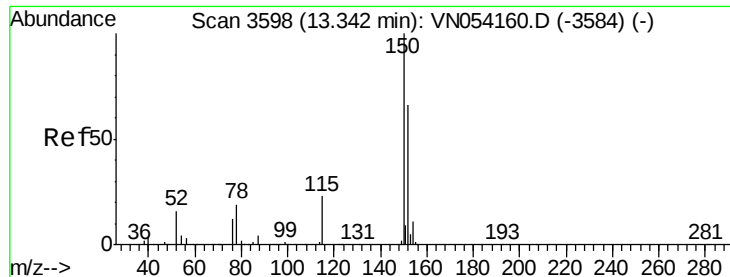
#71
Bromoform
Concen: 2.382 ug/l
RT: 12.12 min Scan# 3217
Delta R.T. -0.01 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Tgt Ion:173 Resp: 461
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



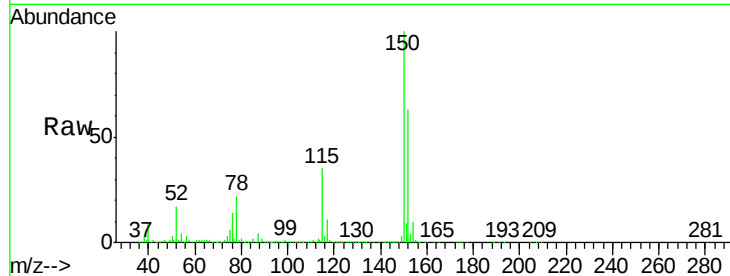


#72

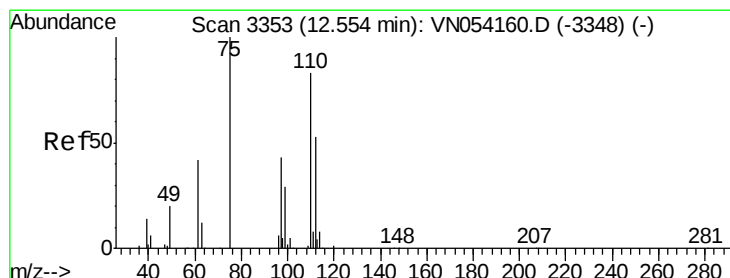
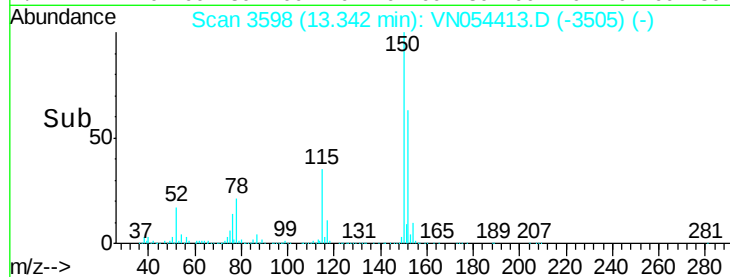
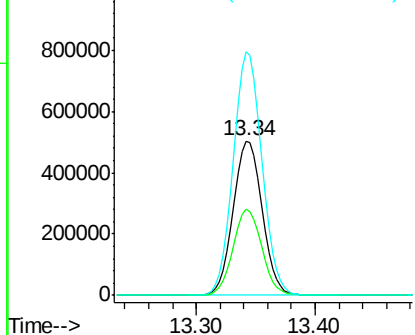
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.2	81.6
150	156.1	0.0	349.2



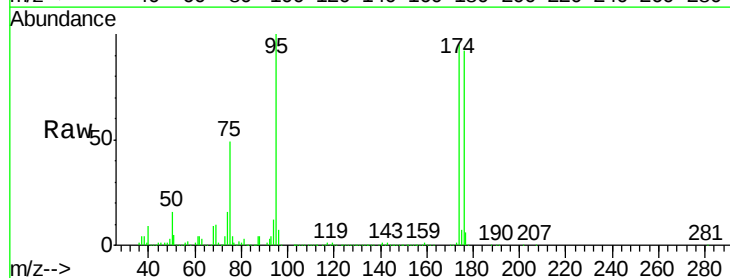
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



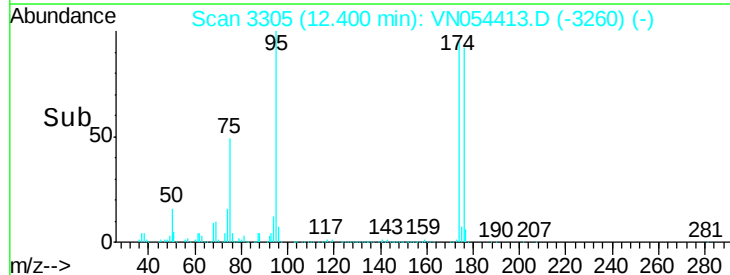
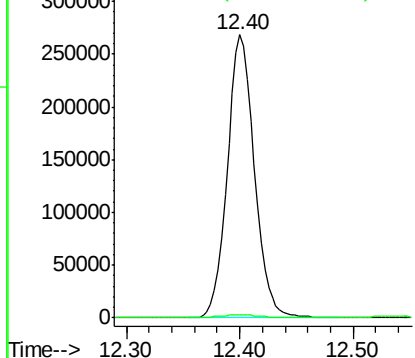
#76

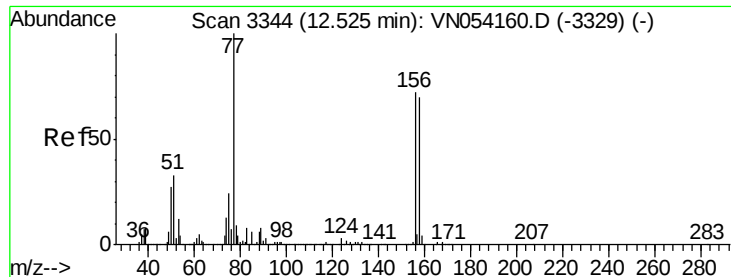
1,2,3-Trichloropropane
Concen: 35.636 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054413.D
Acq: 19 Mar 2019 00:55

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 1.985 ug/l

RT: 12.55 min Scan# 3351

Delta R.T. 0.02 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

Instrument :

MSVOA_N

ClientSampleId :

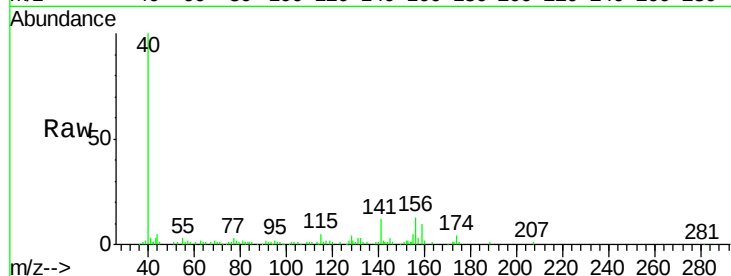
Tot Ion:156 Resp: 35811

Ion Ratio Lower Upper

156 100

77 1.4 81.5 244.4#

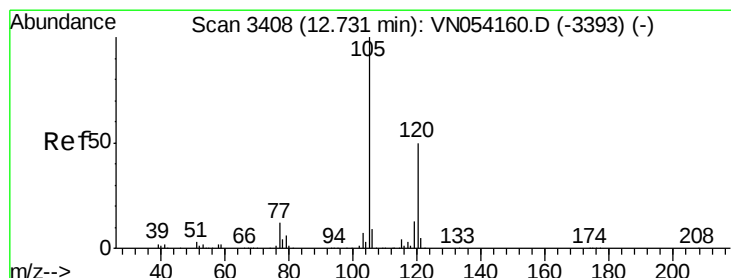
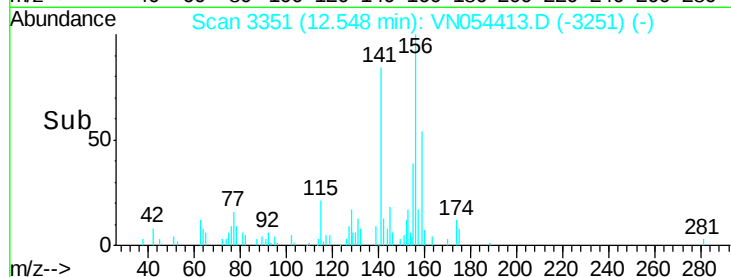
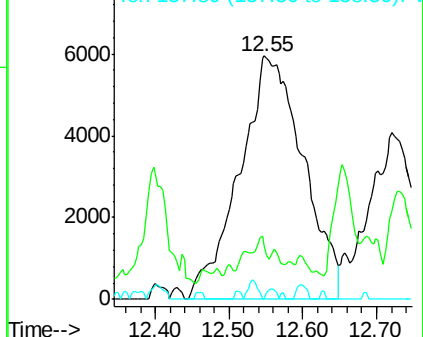
158 0.6 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 0.512 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054413.D

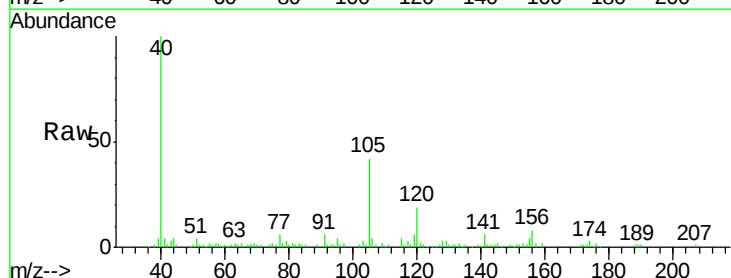
Acq: 19 Mar 2019 00:55

Tgt Ion:105 Resp: 29051

Ion Ratio Lower Upper

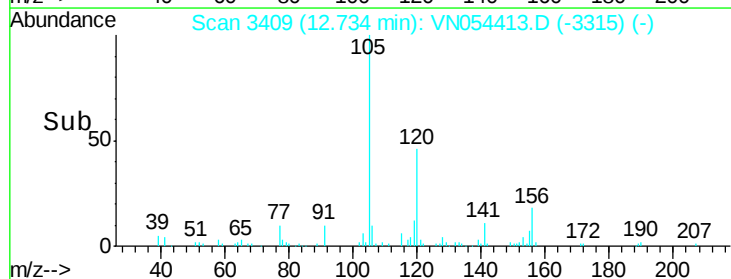
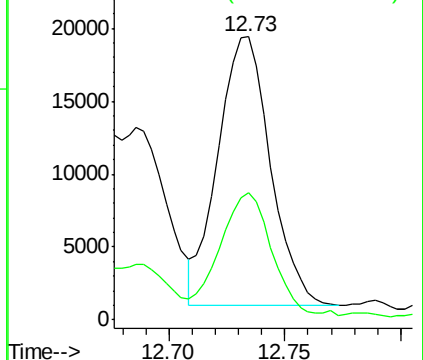
105 100

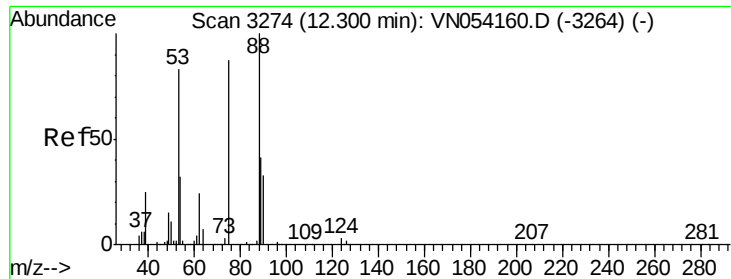
120 44.2 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 121.819 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054413.D

Acq: 19 Mar 2019 00:55

Instrument :

MSVOA_N

ClientSampleId :

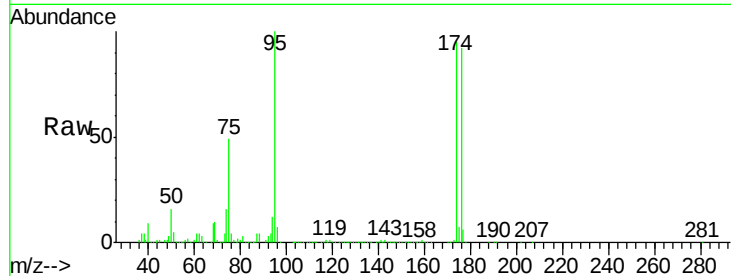
Tot Ion: 75 Resp: 446613

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

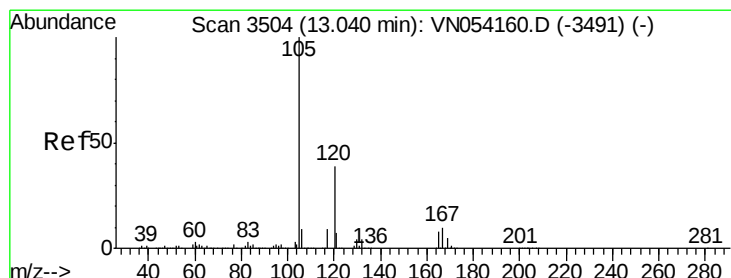
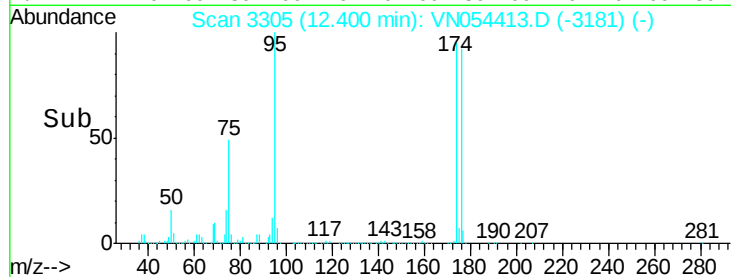
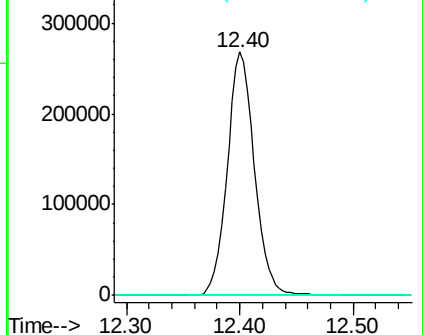
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: 1.283 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN054413.D

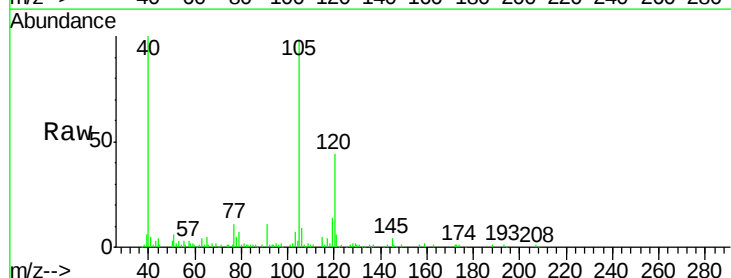
Acq: 19 Mar 2019 00:55

Tgt Ion: 105 Resp: 71403

Ion Ratio Lower Upper

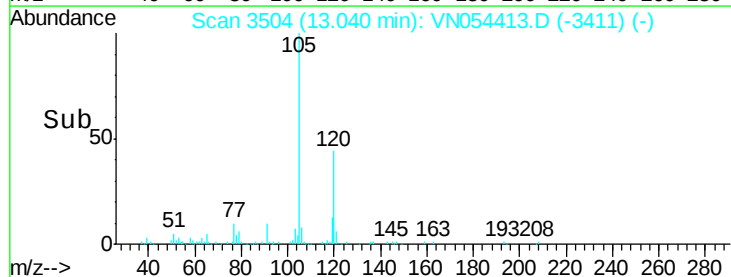
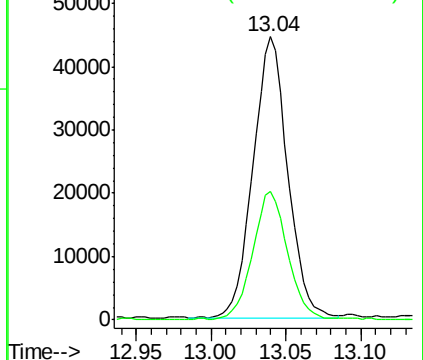
105 100

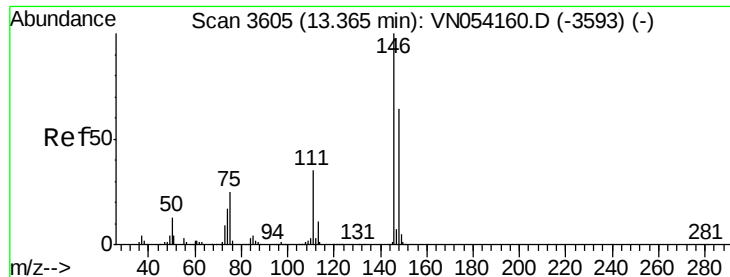
120 46.6 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

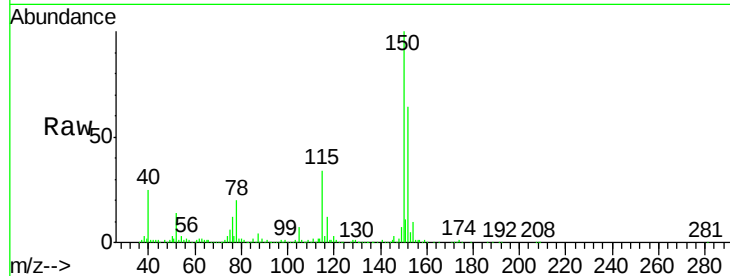




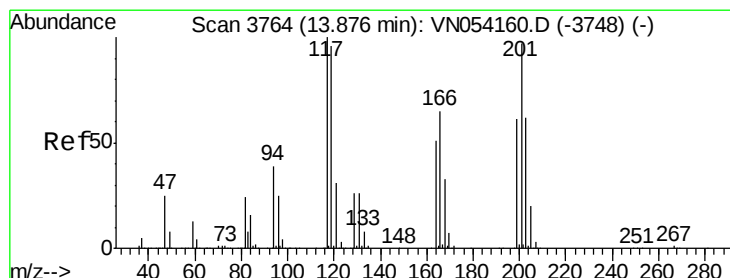
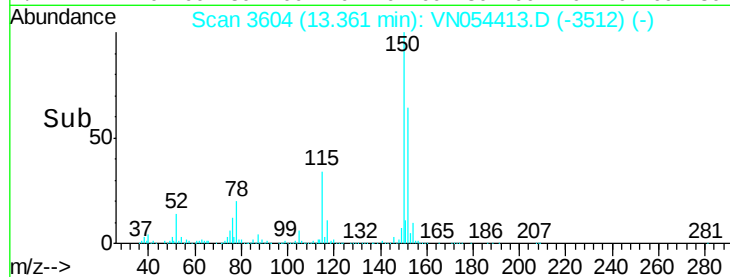
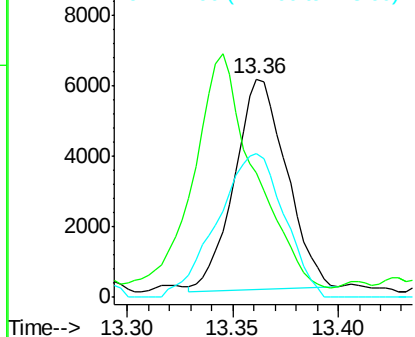
#88
 1,4-Dichlorobenzene
 Concen: 0.344 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN054413.D
 Acq: 19 Mar 2019 00:55

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 10279
 Ion Ratio Lower Upper
 146 100
 111 128.9 18.1 54.1#
 148 86.7 32.0 96.0

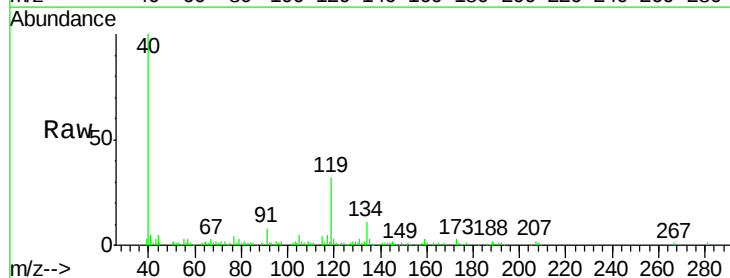


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

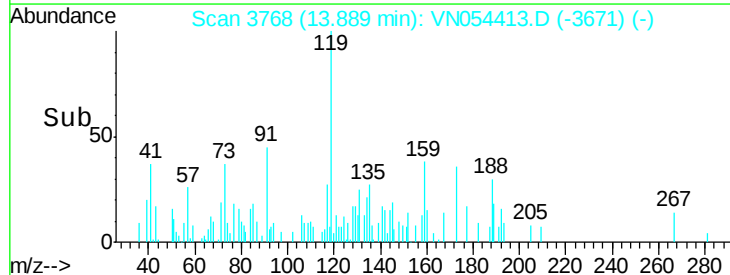
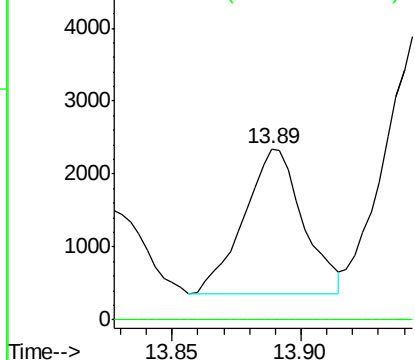


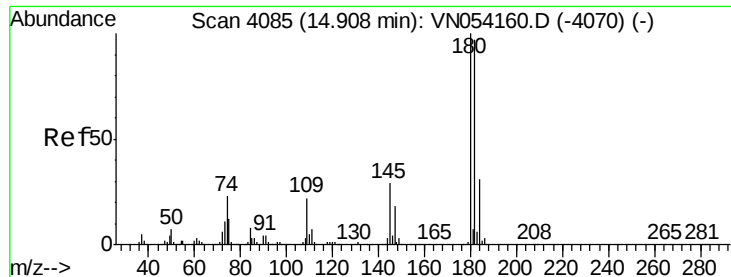
#90
 Hexachloroethane
 Concen: 0.325 ug/l
 RT: 13.89 min Scan# 3768
 Delta R.T. 0.01 min
 Lab File: VN054413.D
 Acq: 19 Mar 2019 00:55

Tgt Ion:117 Resp: 3193
 Ion Ratio Lower Upper
 117 100
 201 0.0 48.1 144.4#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V

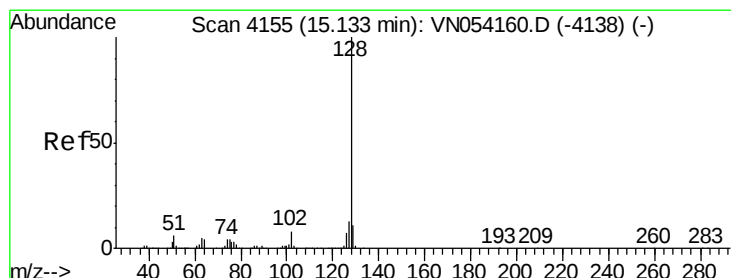
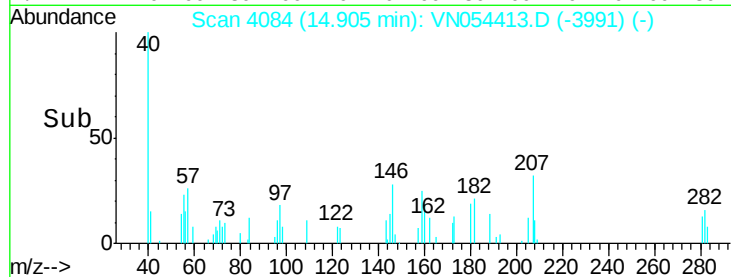
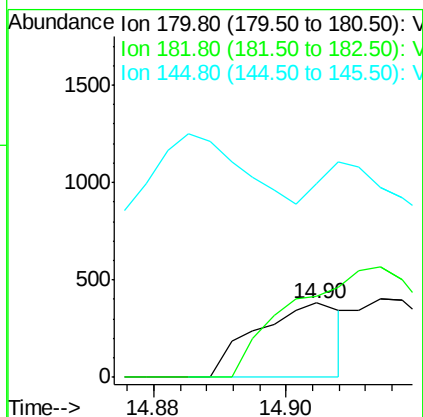
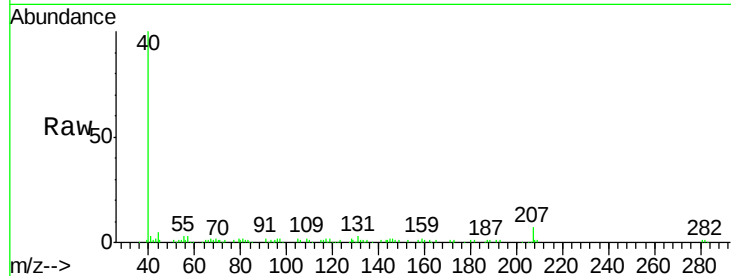




#93
 1,2,4-Trichlorobenzene
 Concen: 2.535 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN054413.D
 Acq: 19 Mar 2019 00:55

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 340
 Ion Ratio Lower Upper
 180 100
 182 253.2 48.0 144.2#
 145 0.0 14.2 42.8#



#95
 Naphthalene
 Concen: 3.733 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN054413.D
 Acq: 19 Mar 2019 00:55

Tgt Ion:128 Resp: 10593
 Ion Ratio Lower Upper
 128 100
 127 20.3 10.1 15.1#
 129 8.8 8.7 13.1

