

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031519\
 Data File : VN054307.D
 Acq On : 15 Mar 2019 14:08
 Operator : JC/SP
 Sample : K1938-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Quant Time: Mar 16 03:19:15 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	1443726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2393883	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2437168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	943632	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	746583	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
35) Dibromofluoromethane	7.59	113	731340	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	10.09	98	2928666	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
62) 4-Bromofluorobenzene	12.40	95	1076730	53.97	ug/l	0.00
Spiked Amount			Recovery	=	107.94%	

Target Compounds

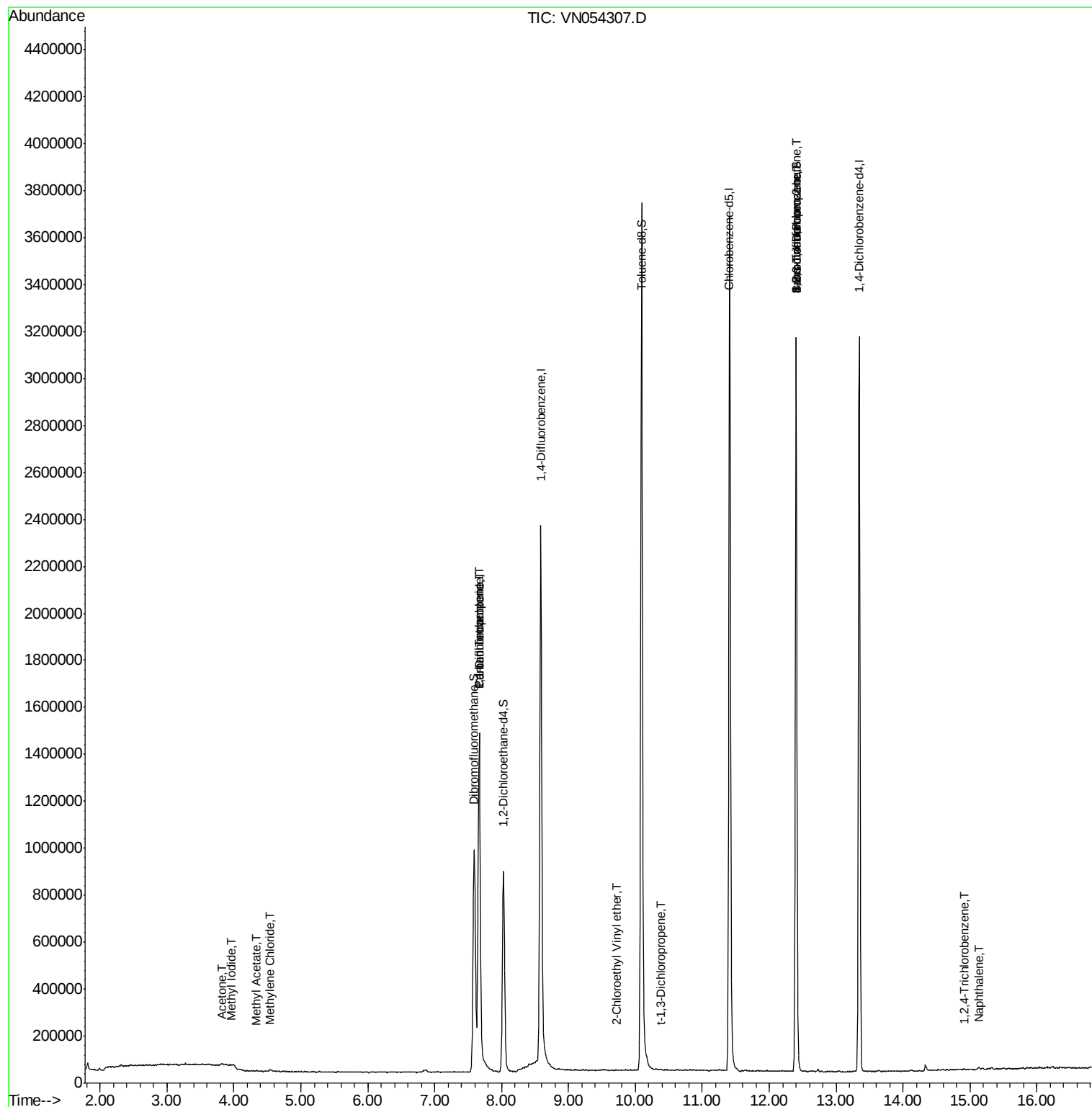
					Qvalue	
10) Methyl Iodide	3.95	142	294	1.510	ug/l #	49
16) Acetone	3.82	43	5085	1.158	ug/l #	73
18) Methyl Acetate	4.33	43	4325	0.487	ug/l #	87
20) Methylene Chloride	4.55	84	6126	0.425	ug/l	86
31) Cyclohexane	7.67	56	20214	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	80309	3.643	ug/l #	48
38) Carbon Tetrachloride	7.67	117	115224	4.984	ug/l #	16
53) t-1,3-Dichloropropene	10.39	75	59	1.988	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.73	63	30	16.832	ug/l #	44
71) Bromoform	12.40	173	6272	2.754	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	501579	36.146	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	501579	123.563	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1433	2.585	ug/l #	73
95) Naphthalene	15.14	128	6759	3.622	ug/l #	92

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

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Quant Time: Mar 16 03:19:15 2019
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: VN054307.D

Acq: 15 Mar 2019 14:08

Instrument :

MSVOA_N

ClientSampled :

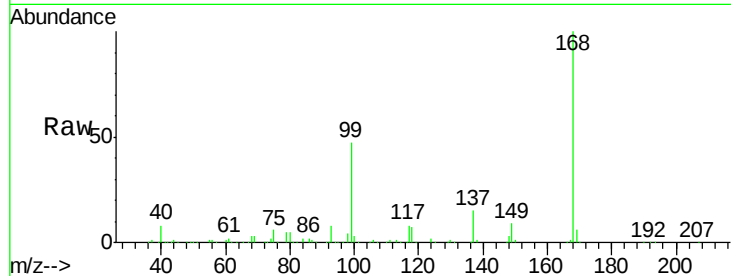
TB

Tot Ion:168 Resp: 1443726

Ion Ratio Lower Upper

168 100

99 46.5 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

600000

500000

400000

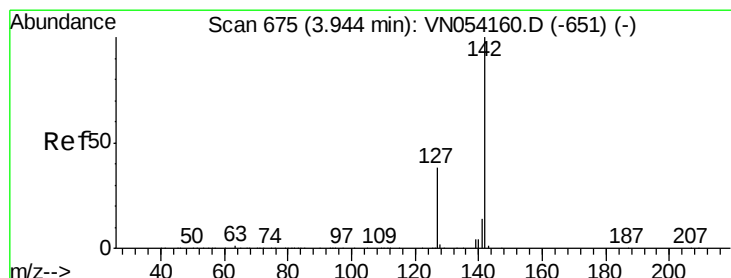
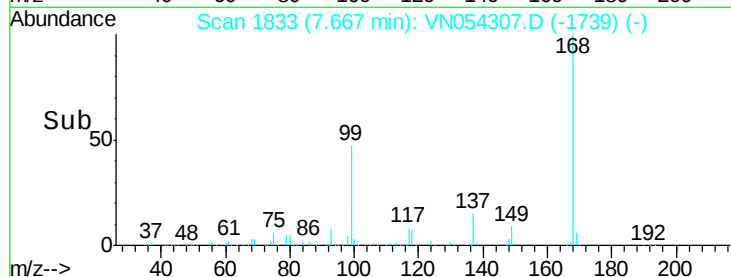
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#10

Methyl Iodide

Concen: 1.510 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.01 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

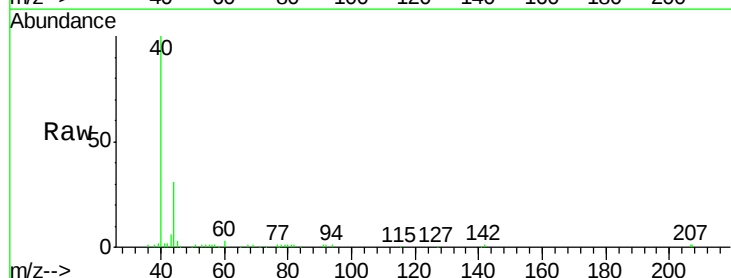
Tgt Ion:142 Resp: 294

Ion Ratio Lower Upper

142 100

127 77.2 30.3 45.5#

141 19.7 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

3.95

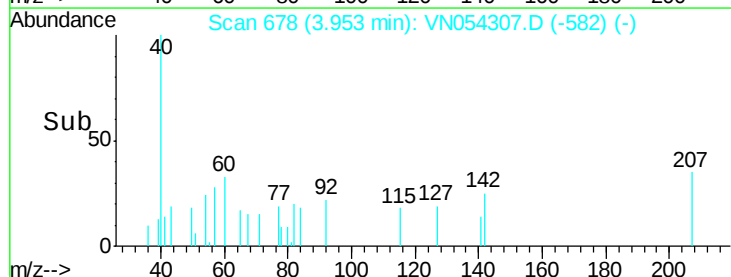
300

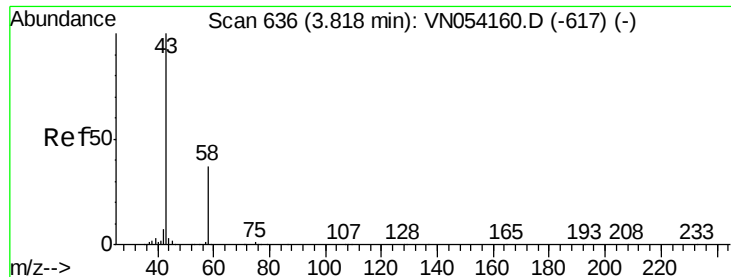
200

100

0

Time--> 3.94 3.96 3.98





#16

Acetone

Concen: 1.158 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

Instrument :

MSVOA_N

ClientSampled :

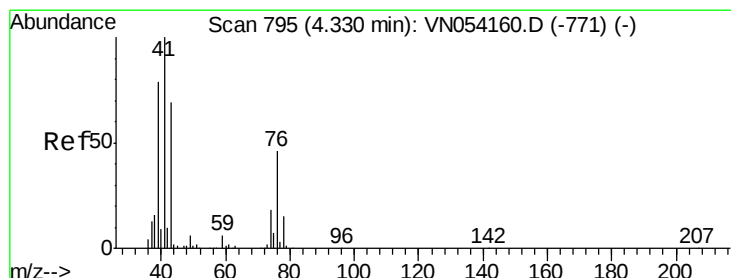
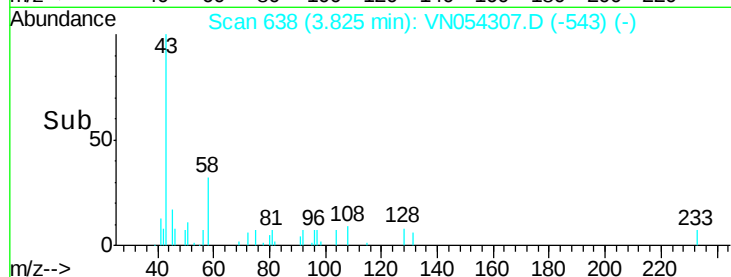
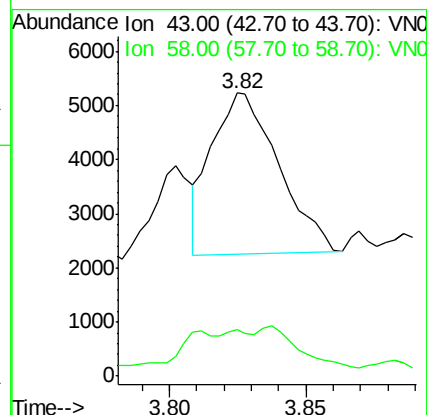
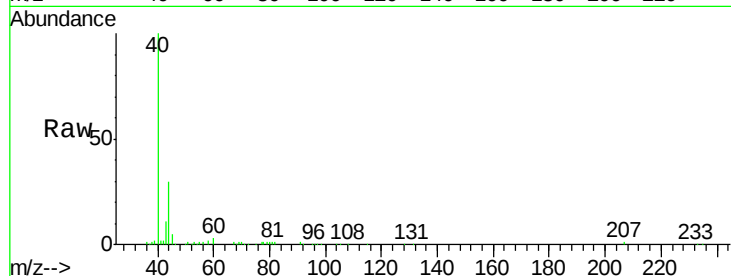
TB

Tot Ion: 43 Resp: 5085

Ion Ratio Lower Upper

43 100

58 21.1 29.9 44.9#



#18

Methyl Acetate

Concen: 0.487 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054307.D

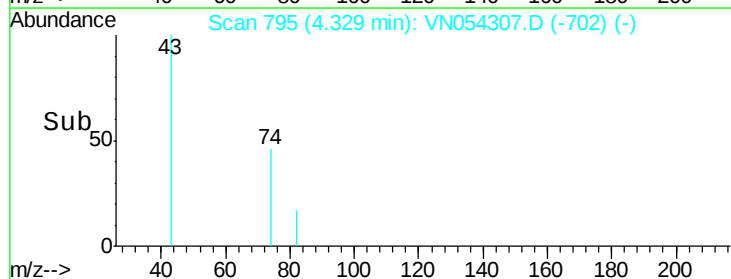
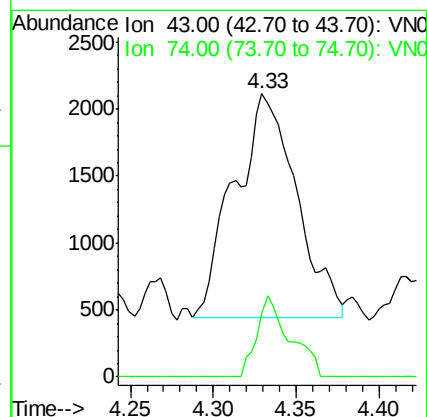
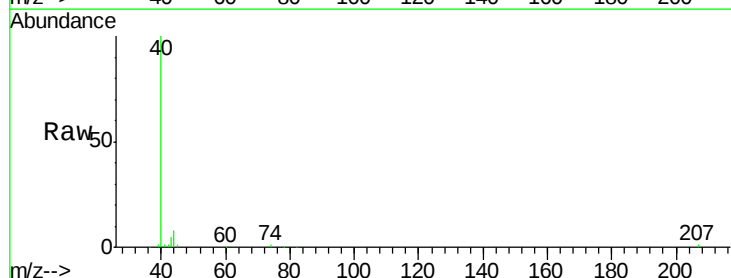
Acq: 15 Mar 2019 14:08

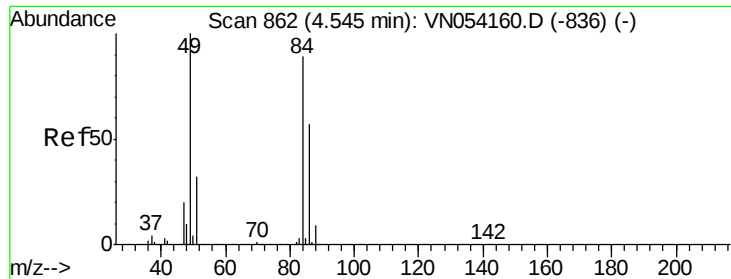
Tgt Ion: 43 Resp: 4325

Ion Ratio Lower Upper

43 100

74 19.2 20.8 31.2#

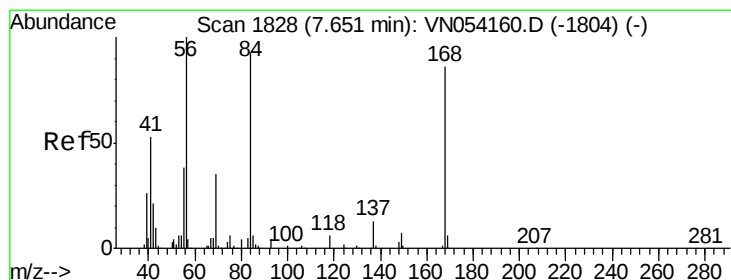
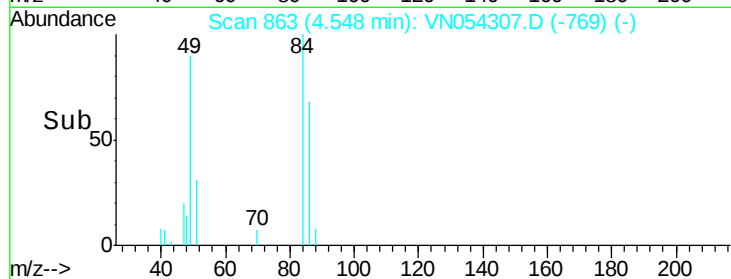
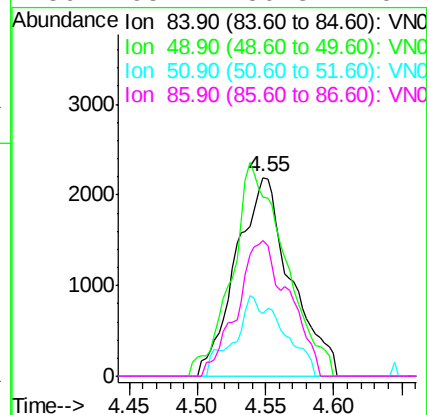
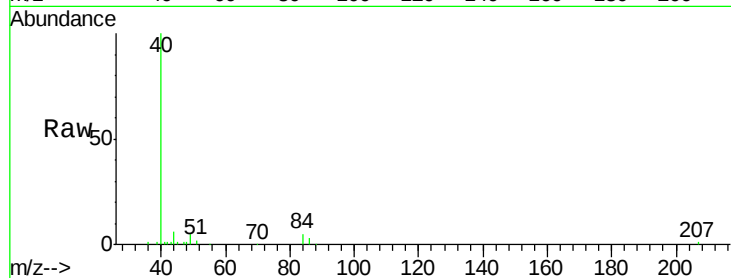




#20
Methvlene Chloride
Concen: 0.425 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054307.D
Acq: 15 Mar 2019 14:08

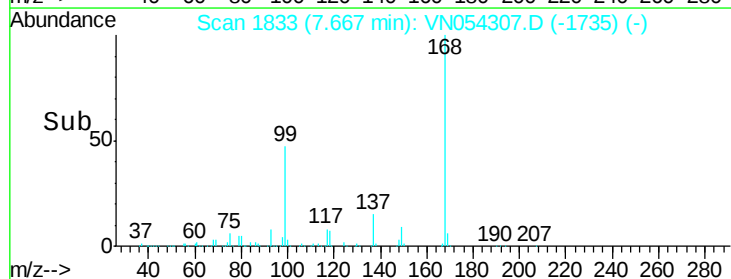
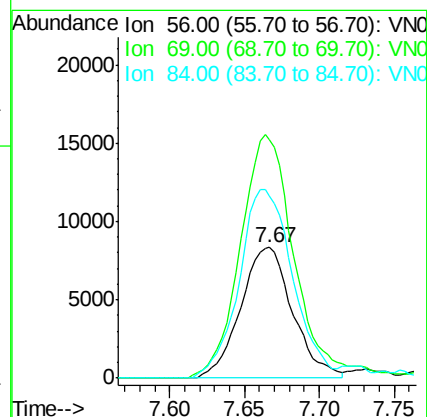
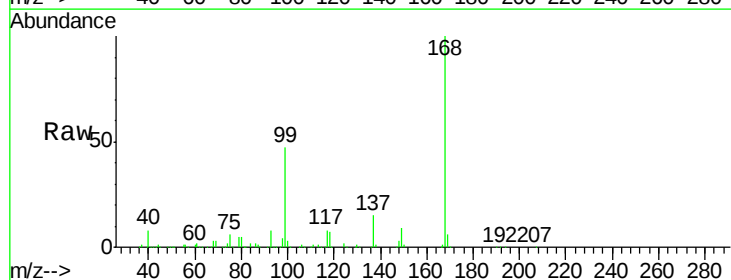
Instrument :
MSVOA_N
ClientSampleId :
TB

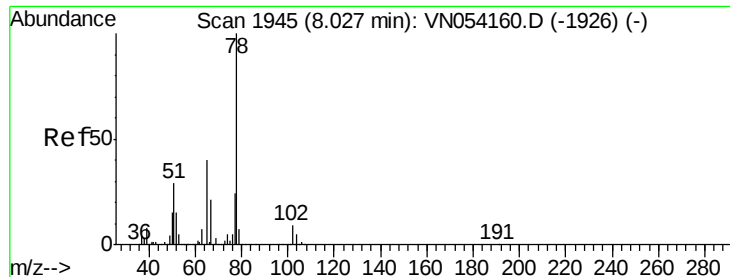
Tot Ion:	84	Resp:	6126
Ion	Ratio	Lower	Upper
84	100		
49	90.1	89.7	134.5
51	31.2	28.2	42.4
86	68.1	50.8	76.2



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054307.D
Acq: 15 Mar 2019 14:08

Tgt Ion:	56	Resp:	20214
Ion	Ratio	Lower	Upper
56	100		
69	180.0	27.8	41.6#
84	139.4	74.6	111.8#

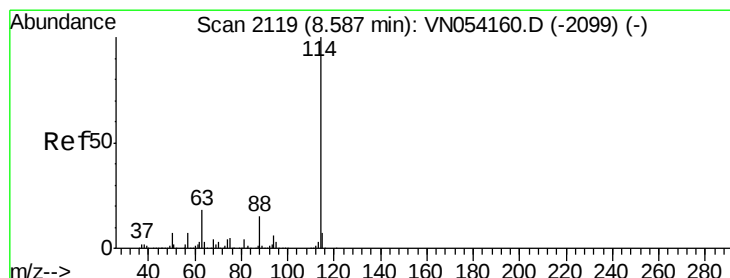
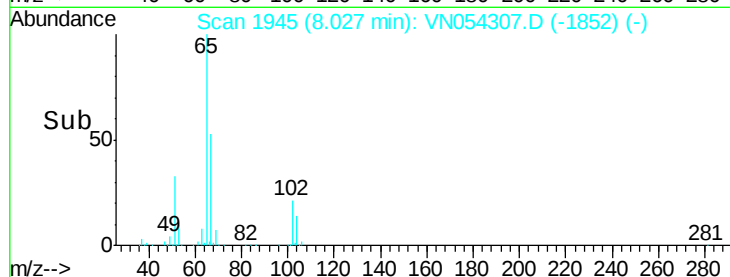
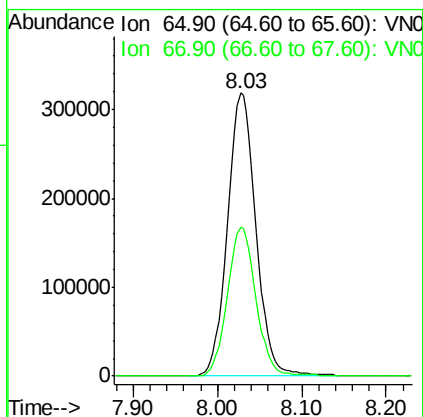
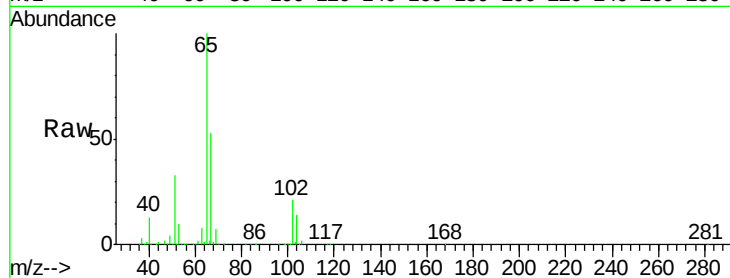




#33
 1,2-Dichloroethane-d4
 Concen: 48.693 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054307.D
 Acq: 15 Mar 2019 14:08

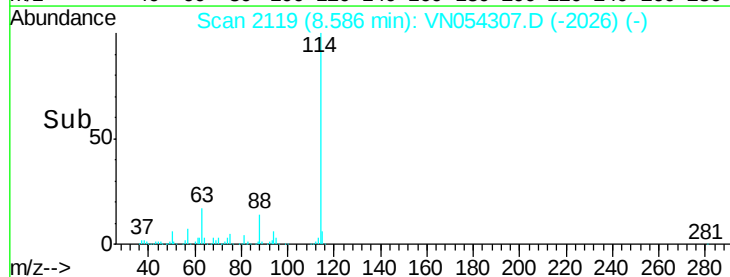
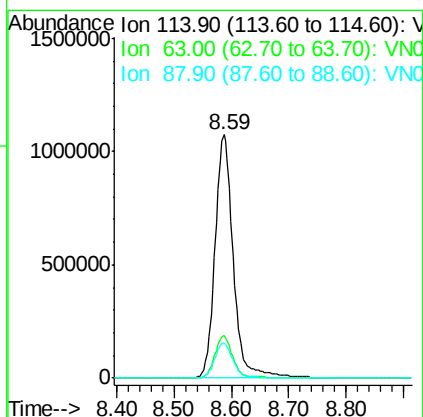
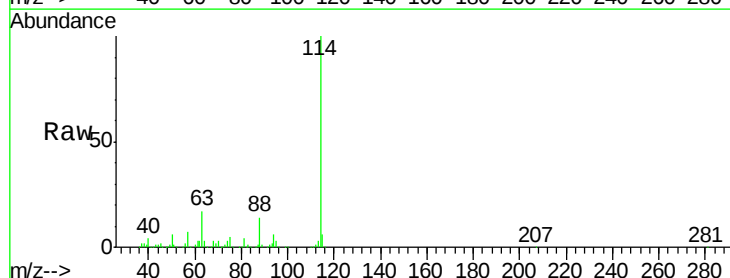
Instrument :
 MSVOA_N
 ClientSampleId :
 TB

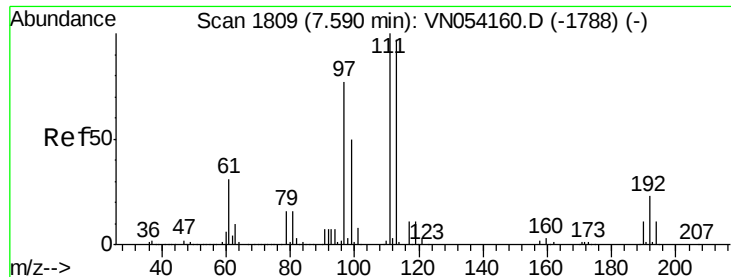
Tot Ion: 65 Resp: 746583
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054307.D
 Acq: 15 Mar 2019 14:08

Tgt Ion: 114 Resp: 2393883
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 35.2
 88 14.5 0.0 30.2

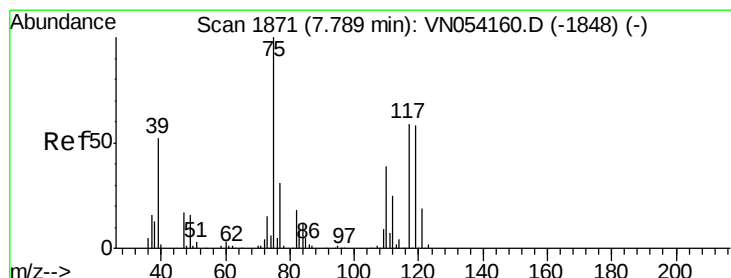
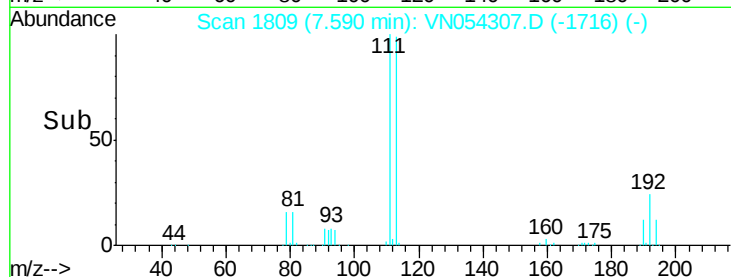
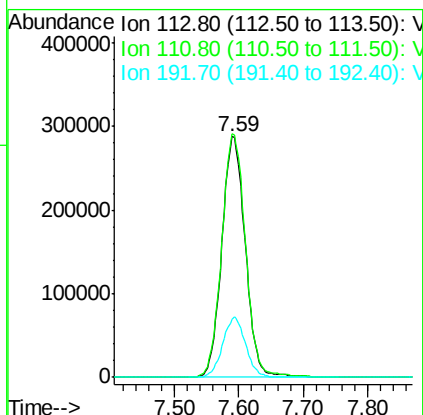
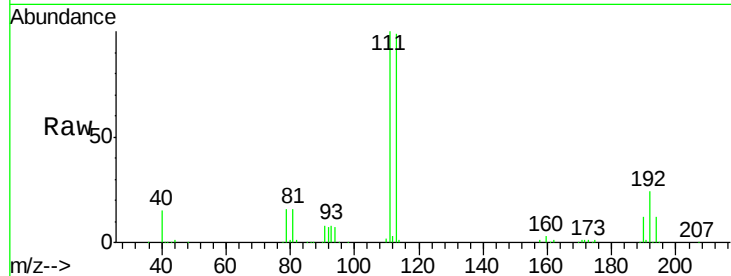




#35
 Dibromofluoromethane
 Concen: 47.368 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054307.D
 Acq: 15 Mar 2019 14:08

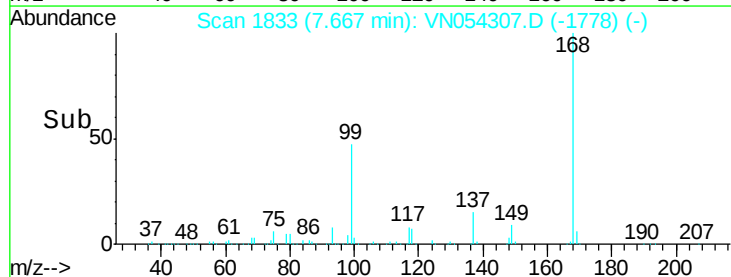
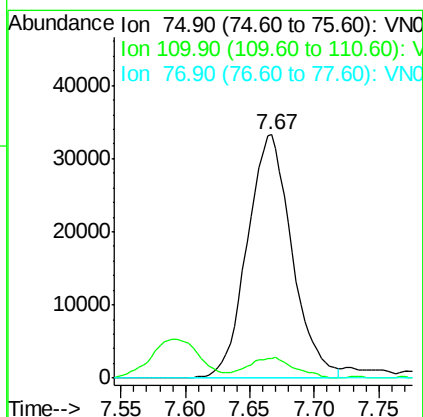
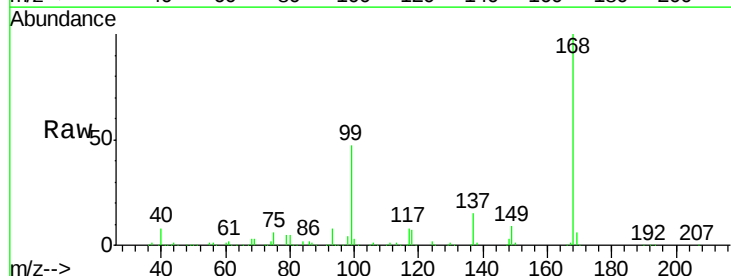
Instrument :
 MSVOA_N
 ClientSampleId :
 TB

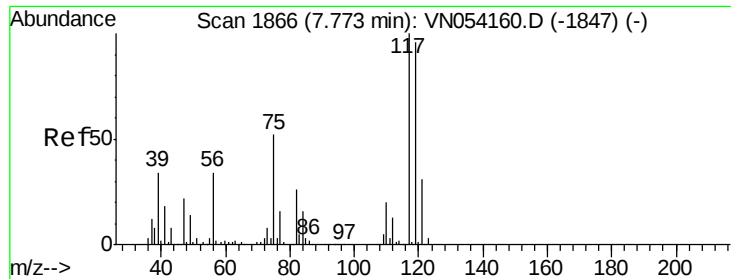
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	24.3	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 3.643 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054307.D
 Acq: 15 Mar 2019 14:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.1	57.5#
77	0.0	25.0	37.4#

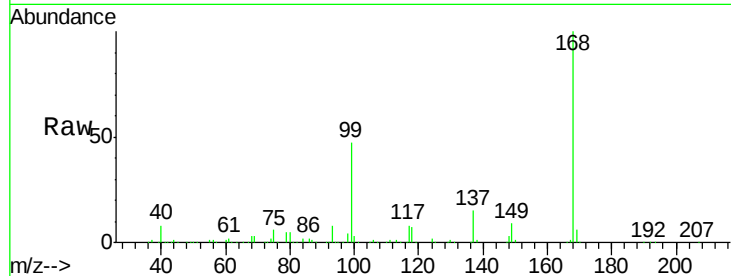




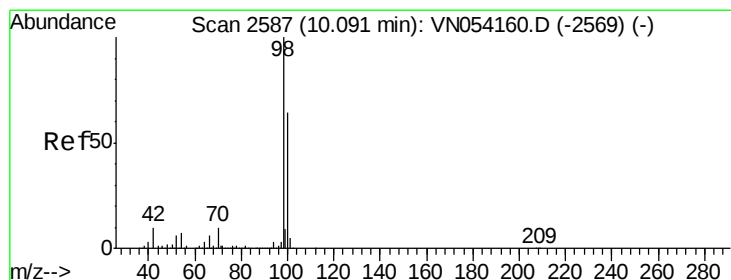
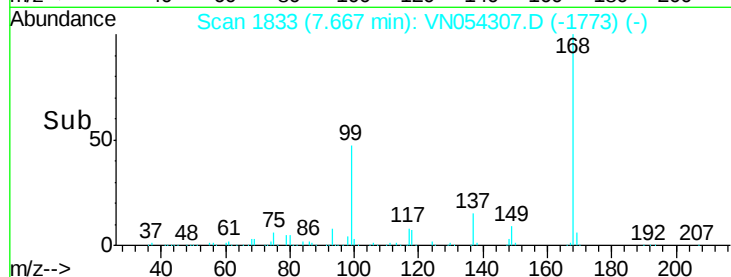
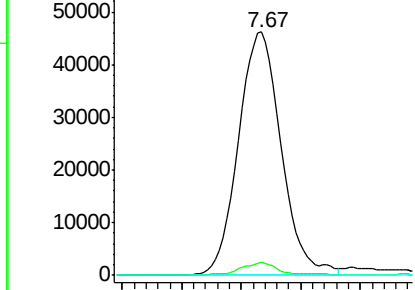
#38
Carbon Tetrachloride
Concen: 4.984 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN054307.D
Acq: 15 Mar 2019 14:08

Instrument :
MSVOA_N
ClientSampled :
TB

Tot Ion:117 Resp: 115224
Ion Ratio Lower Upper
117 100
119 5.4 76.3 114.5#
121 0.0 24.6 36.8#

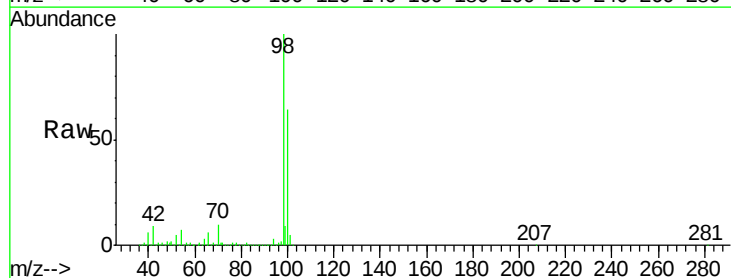


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

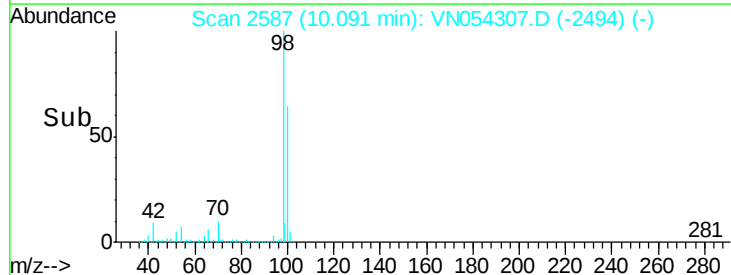
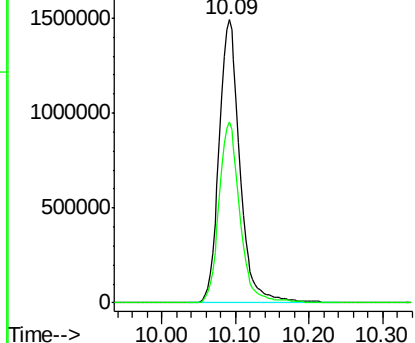


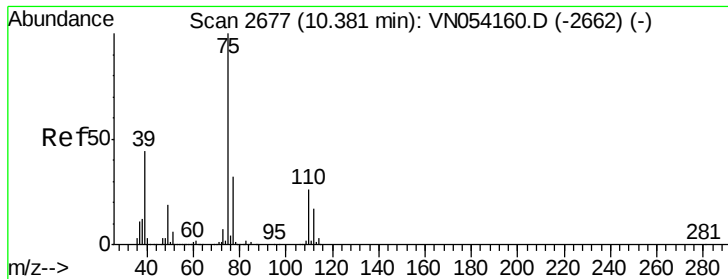
#50
Toluene-d8
Concen: 51.362 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054307.D
Acq: 15 Mar 2019 14:08

Tgt Ion: 98 Resp: 2928666
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: 1.988 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

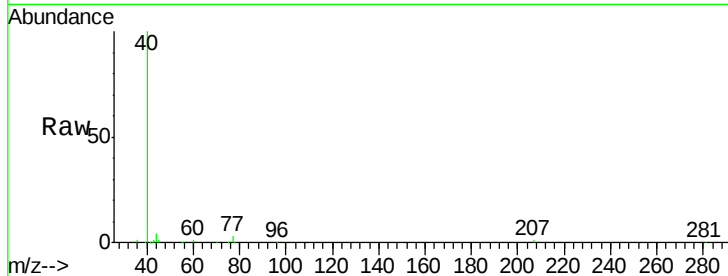
TB

Tot Ion: 75 Resp: 59

Ion Ratio Lower Upper

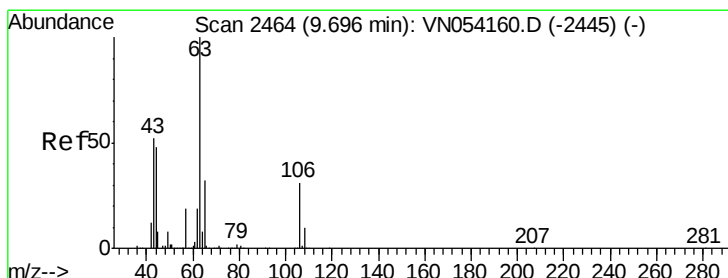
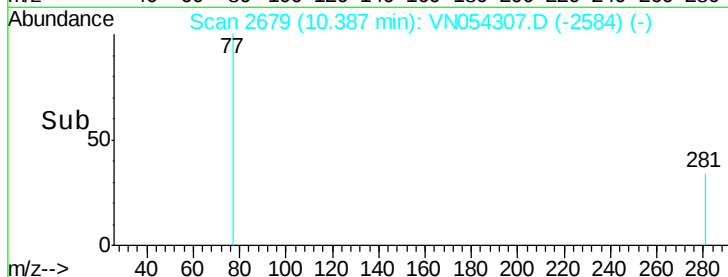
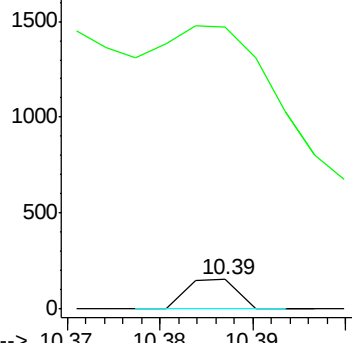
75 100

77 286.4 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 16.832 ug/l

RT: 9.73 min Scan# 2474

Delta R.T. 0.03 min

Lab File: VN054307.D

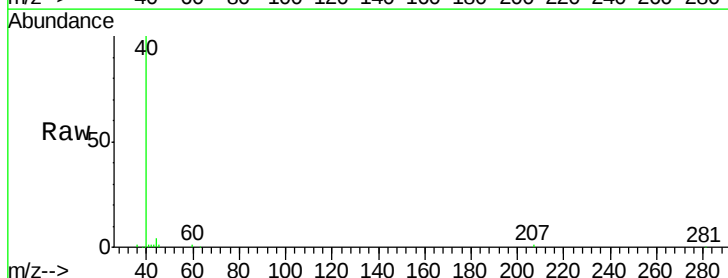
Acq: 15 Mar 2019 14:08

Tgt Ion: 63 Resp: 30

Ion Ratio Lower Upper

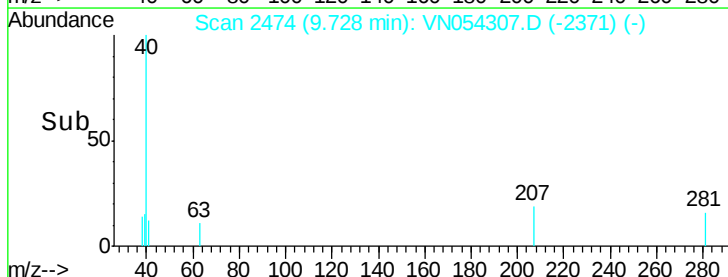
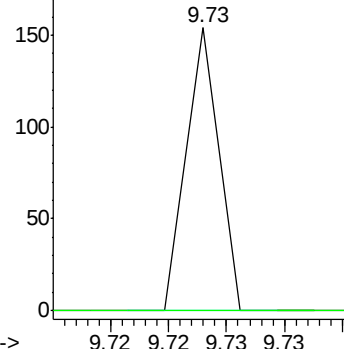
63 100

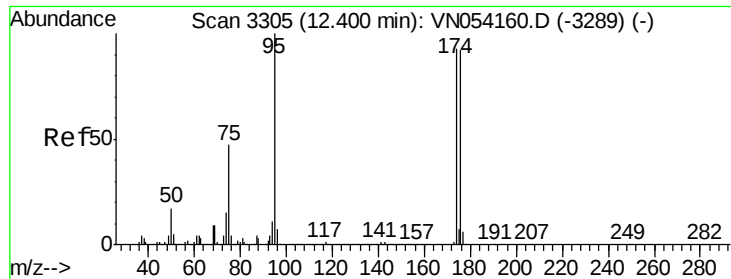
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 53.967 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

TB

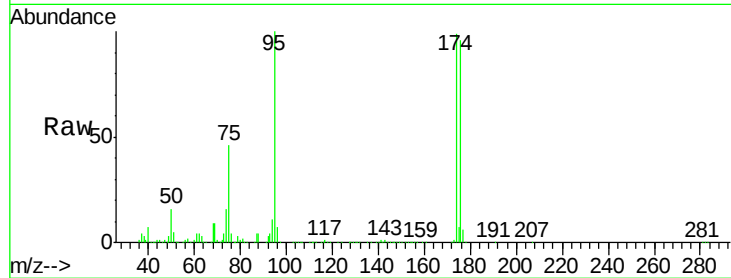
Tot Ion: 95 Resp: 1076730

Ion Ratio Lower Upper

95 100

174 98.6 0.0 191.0

176 95.4 0.0 187.4



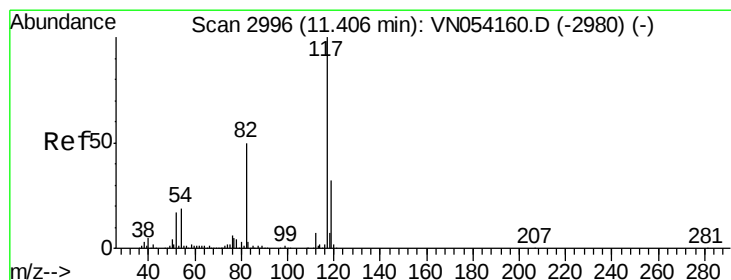
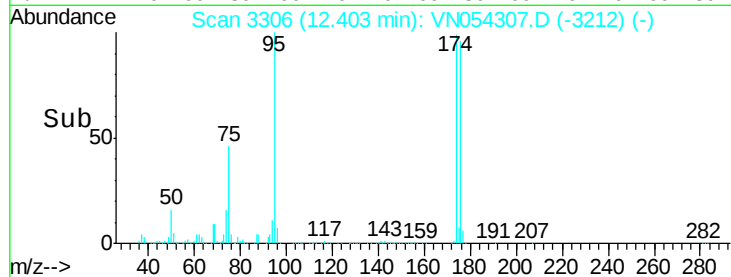
Abundance Ion 94.90 (94.60 to 95.60): VN054307.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054307.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054307.D (-3212) (-)

Time-->

12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

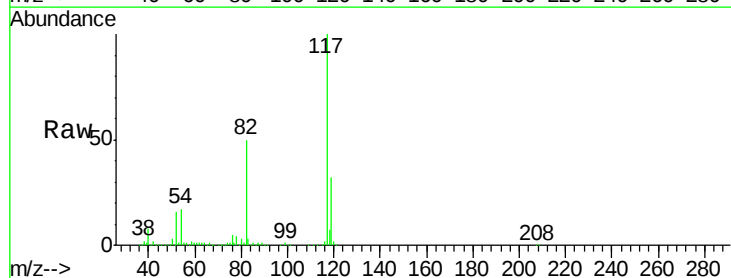
Tgt Ion: 117 Resp: 2437168

Ion Ratio Lower Upper

117 100

82 49.6 40.0 60.0

119 32.2 25.8 38.6



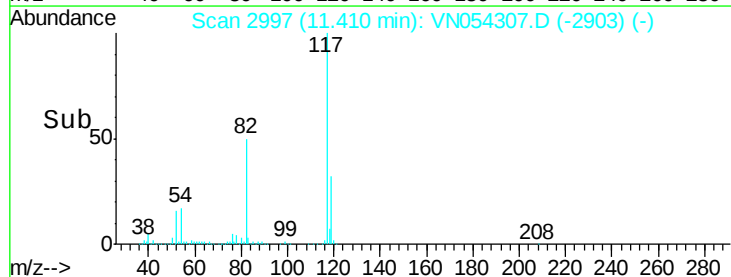
Abundance Ion 116.90 (116.60 to 117.60): VN054307.D (-2903) (-)

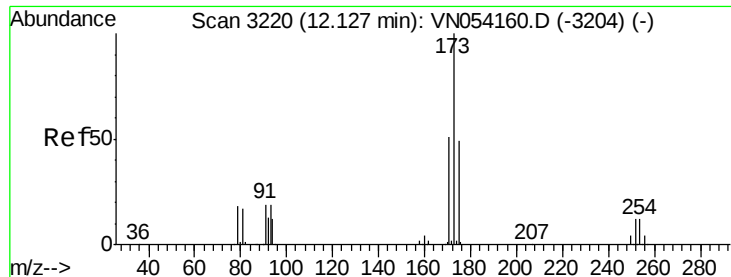
Ion 82.00 (81.70 to 82.70): VN054307.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054307.D (-2903) (-)

Time-->

11.30 11.40 11.50





#71

Bromoform

Concen: 2.754 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

TB

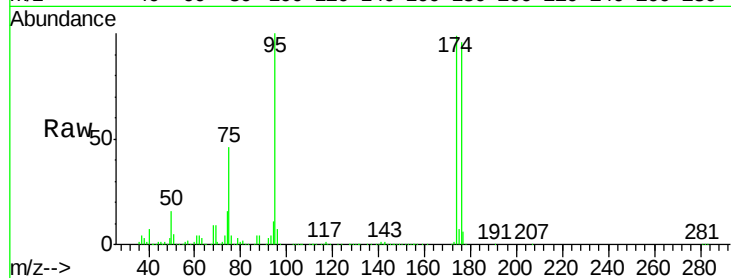
Tot Ion:173 Resp: 6272

Ion Ratio Lower Upper

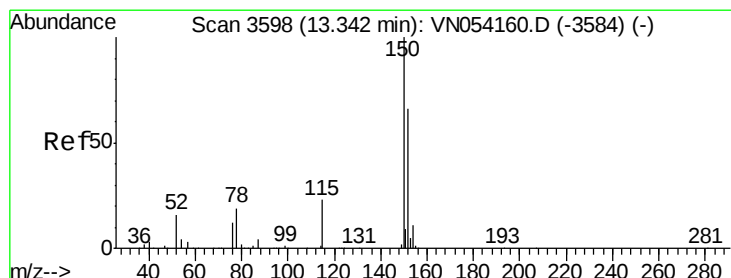
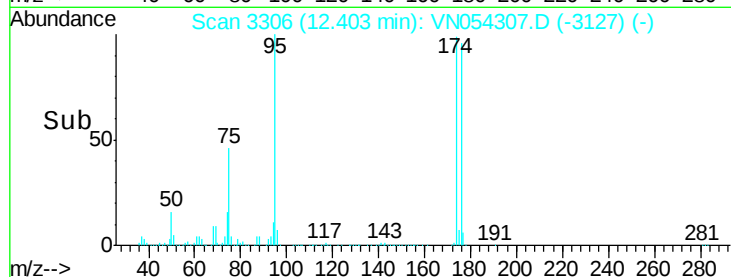
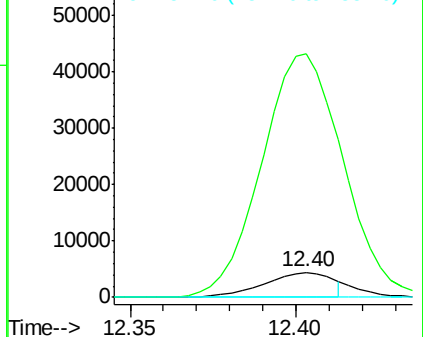
173 100

175 1014.1 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

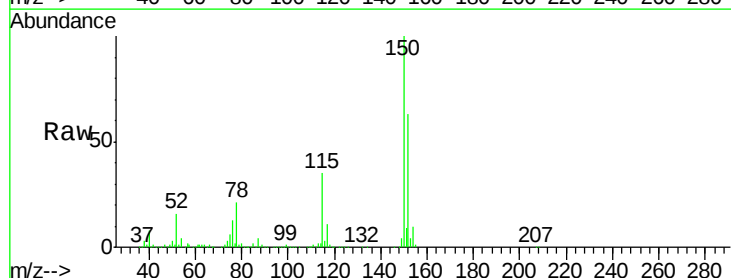
Tgt Ion:152 Resp: 943632

Ion Ratio Lower Upper

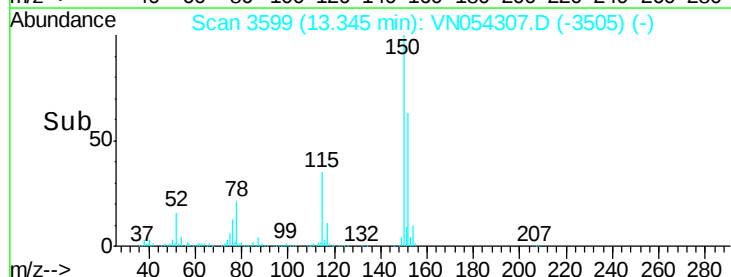
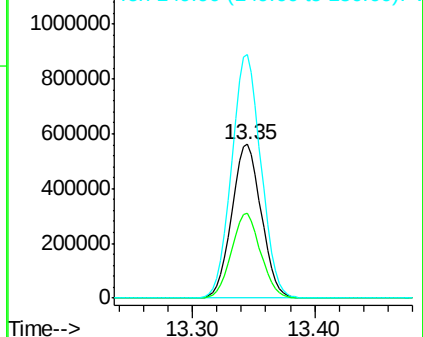
152 100

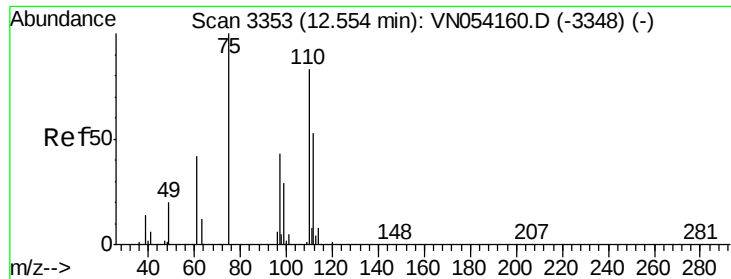
115 54.6 27.2 81.6

150 158.0 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: 36.146 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

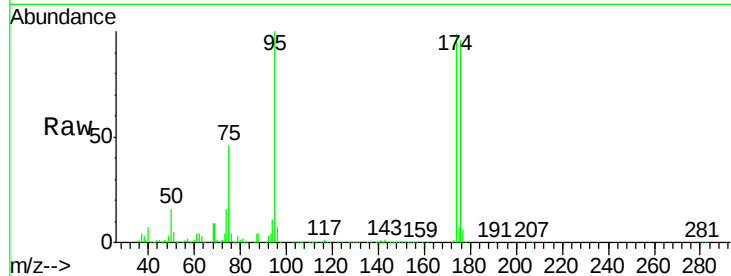
TB

Tot Ion: 75 Resp: 501579

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

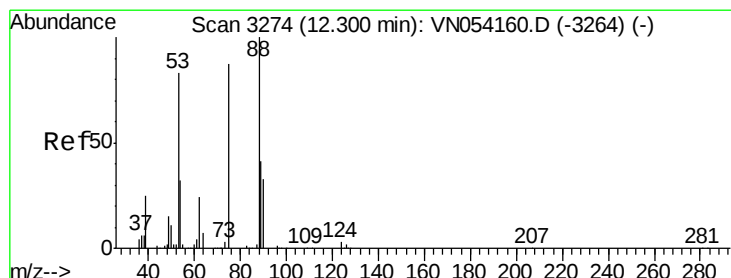
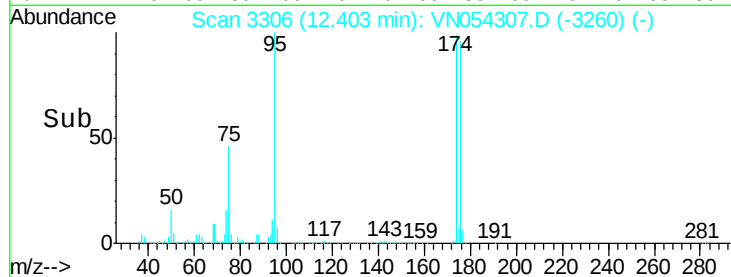
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 123.563 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

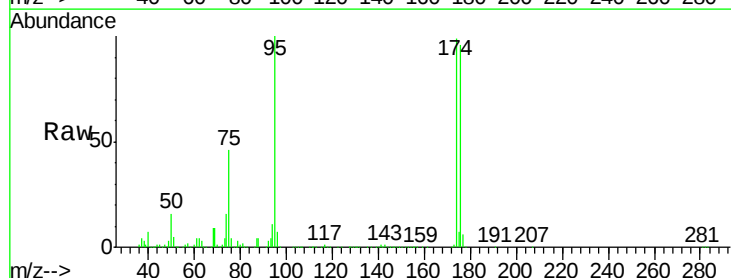
Tgt Ion: 75 Resp: 501579

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

400000

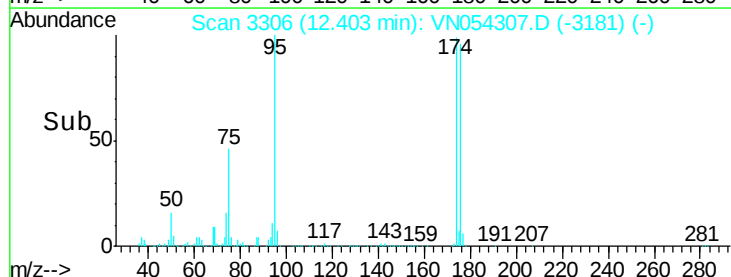
300000

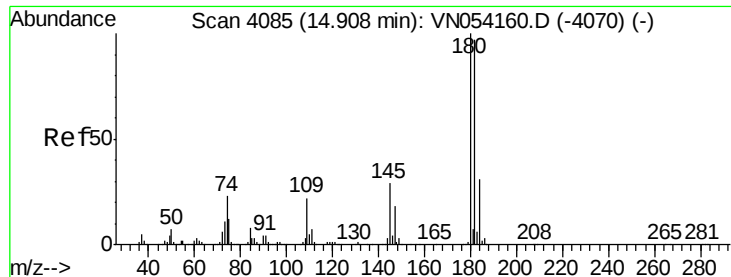
200000

100000

0

Time--> 12.30 12.40 12.50





#93

1,2,4-Trichlorobenzene

Concen: 2.585 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

Instrument :

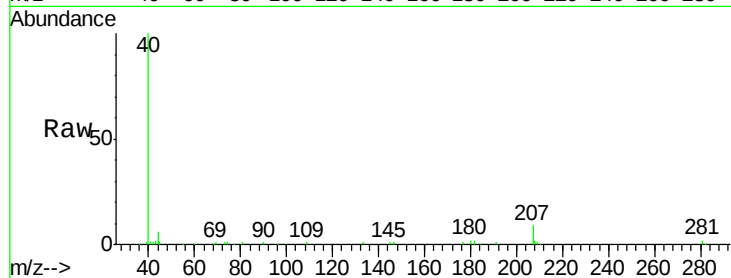
MSVOA_N

ClientSampled :

TB

Tot Ion:180 Resp: 1433

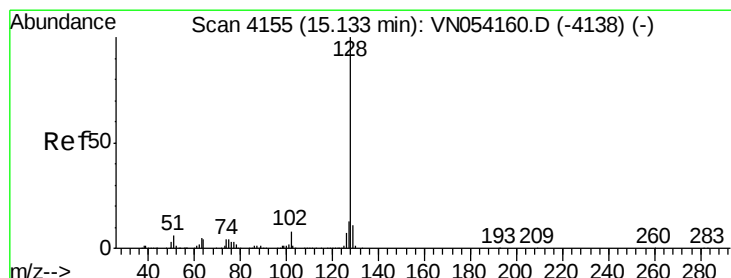
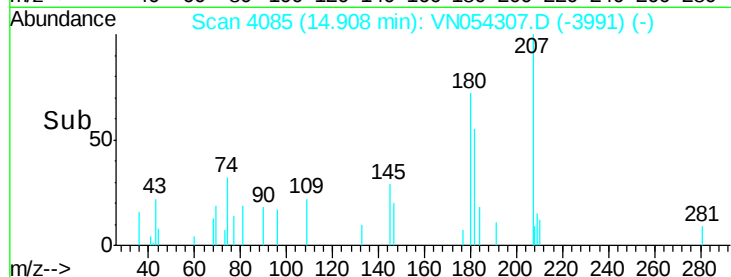
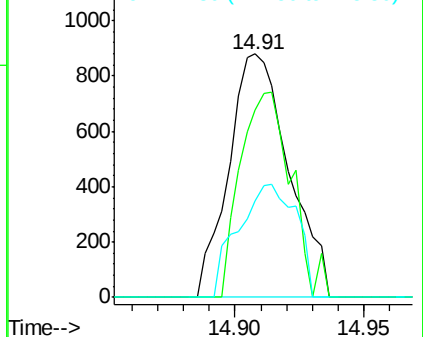
Ion	Ratio	Lower	Upper
180	100		
182	71.5	48.0	144.2
145	44.9	14.2	42.8#



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: 3.622 ug/l

RT: 15.14 min Scan# 4157

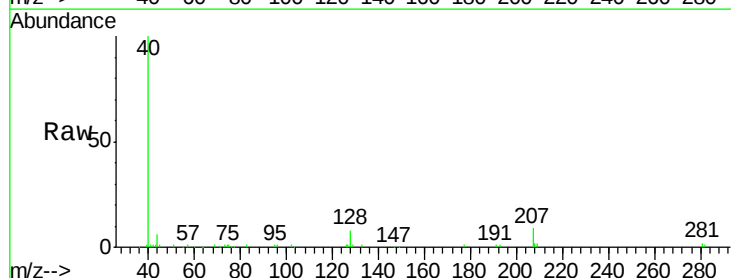
Delta R.T. 0.01 min

Lab File: VN054307.D

Acq: 15 Mar 2019 14:08

Tgt Ion:128 Resp: 6759

Ion	Ratio	Lower	Upper
128	100		
127	9.7	10.1	15.1#
129	13.9	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

