

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054337.D
 Acq On : 16 Mar 2019 15:23
 Operator : JC/SP
 Sample : K1960-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-031419-01

Quant Time: Mar 18 04:50:25 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	7.66	168	1831086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2678537	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2207674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	778620	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	913664	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
35) Dibromofluoromethane	7.59	113	818502	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
50) Toluene-d8	10.09	98	3075080	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
62) 4-Bromofluorobenzene	12.40	95	892101	39.96	ug/l	0.00
Spiked Amount			Recovery	=	79.92%	

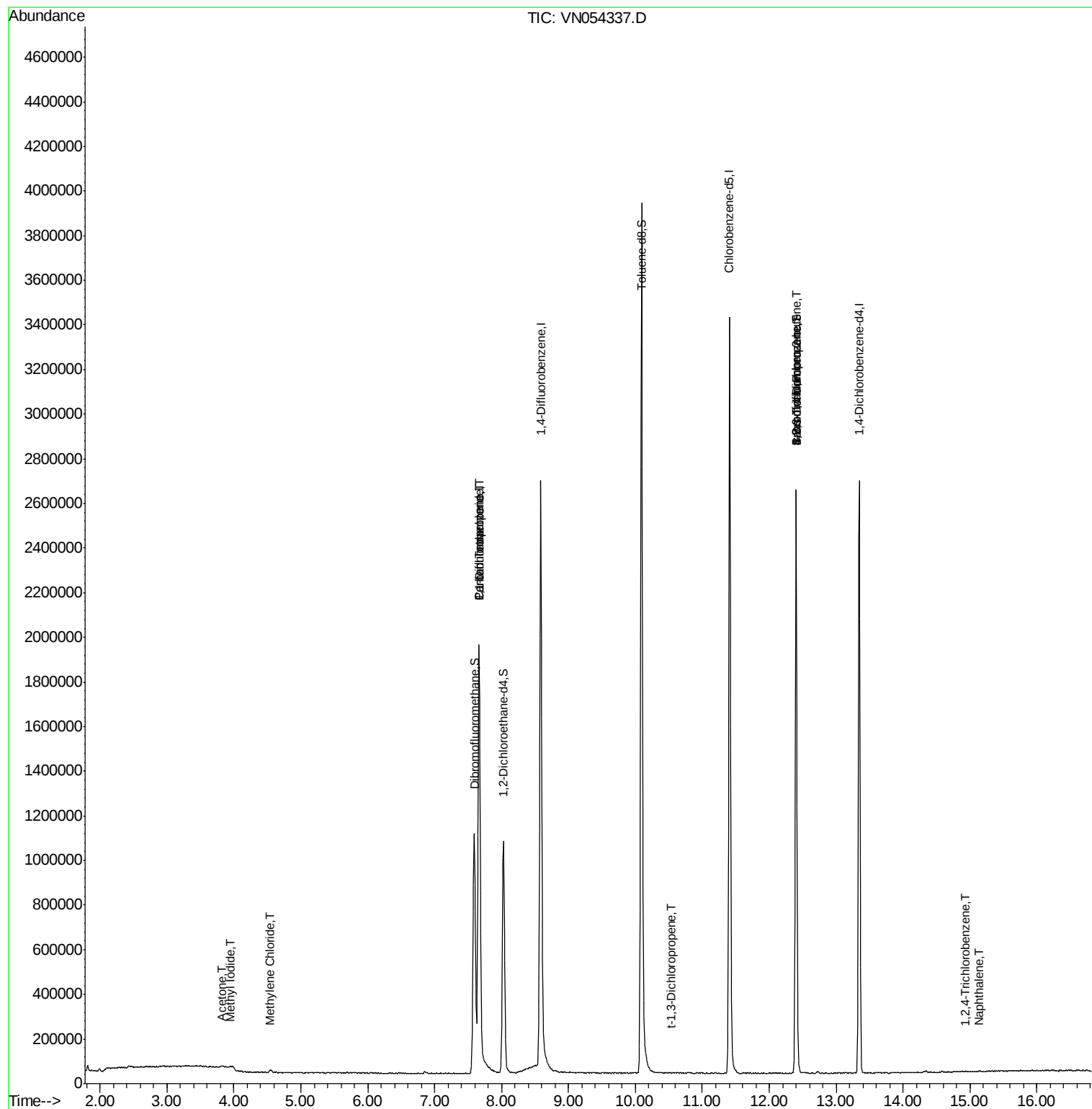
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.93	142	362	1.510	ug/l #	55
16) Acetone	3.83	43	3566	0.640	ug/l	90
20) Methylene Chloride	4.55	84	6334	0.346	ug/l	89
31) Cyclohexane	7.66	56	29129	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	110959	4.498	ug/l #	48
38) Carbon Tetrachloride	7.66	117	157823	6.101	ug/l #	16
53) t-1,3-Dichloropropene	10.54	75	64	1.988	ug/l #	44
71) Bromoform	12.40	173	5611	2.749	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	435743	38.056	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	435743	130.093	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.92	180	450	2.543	ug/l #	81
95) Naphthalene	15.14	128	2310	3.533	ug/l #	82

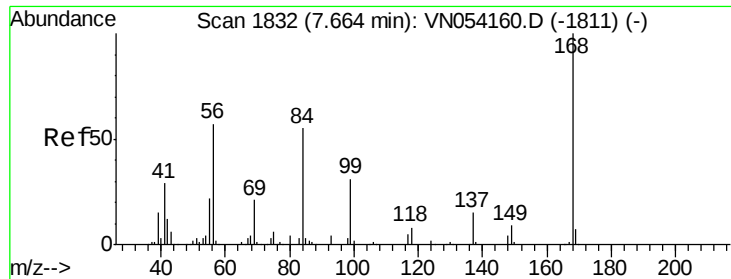
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

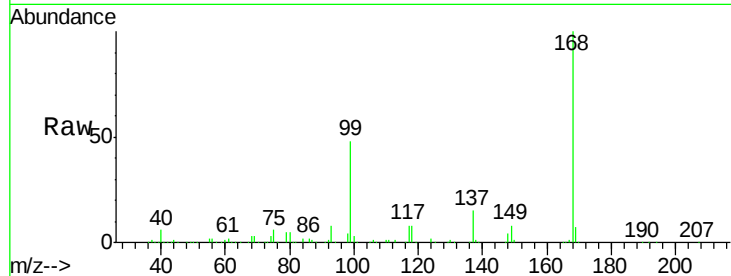
TB-031419-01

Tot Ion:168 Resp: 1831086

Ion Ratio Lower Upper

168 100

99 48.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

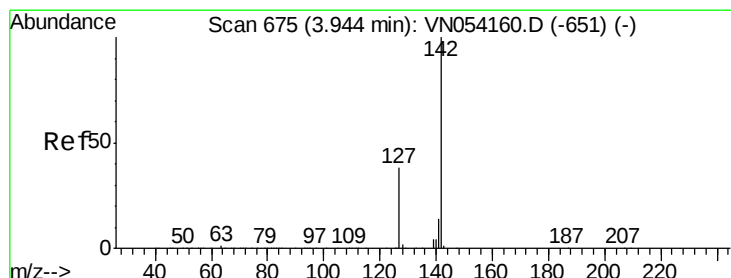
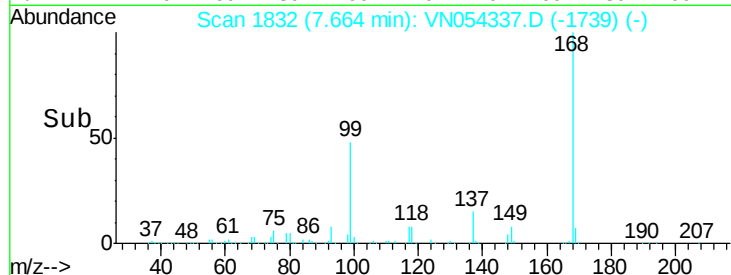
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.510 ug/l

RT: 3.93 min Scan# 672

Delta R.T. -0.01 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

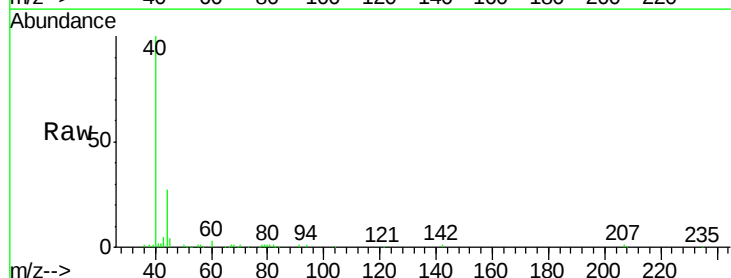
Tgt Ion:142 Resp: 362

Ion Ratio Lower Upper

142 100

127 8.6 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

3.93

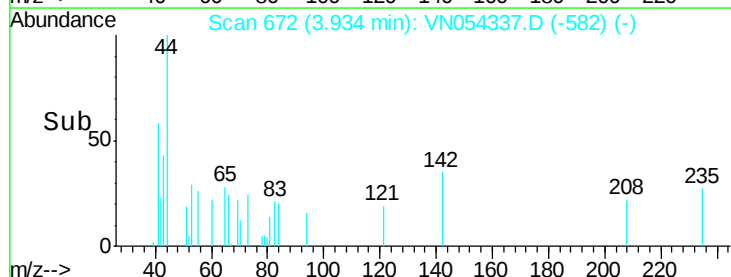
300

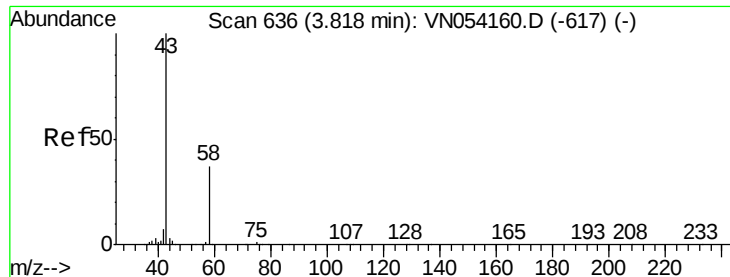
200

100

0

Time-->





#16

Acetone

Concen: 0.640 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

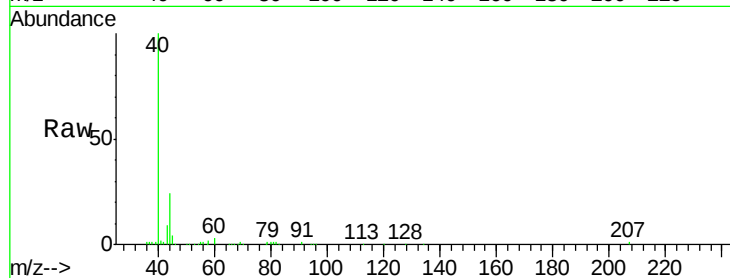
TB-031419-01

Tot Ion: 43 Resp: 3566

Ion Ratio Lower Upper

43 100

58 31.2 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.83

4000

3000

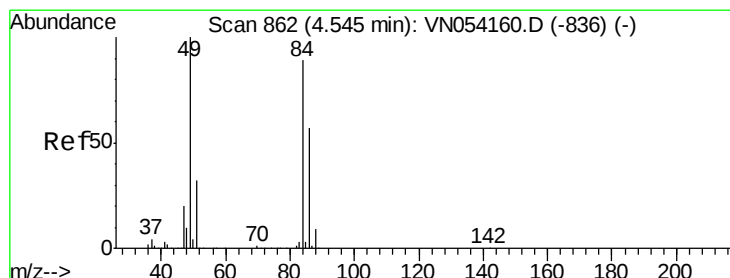
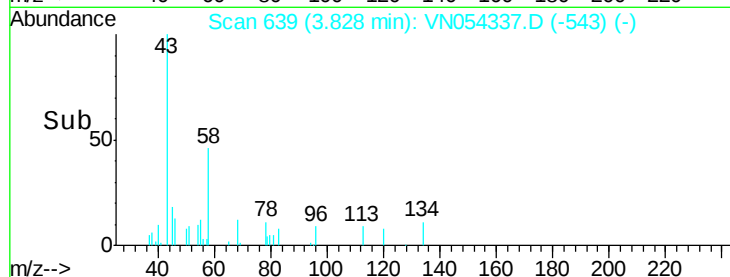
2000

1000

0

Time-->

3.80 3.85



#20

Methylene Chloride

Concen: 0.346 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Tgt Ion: 84 Resp: 6334

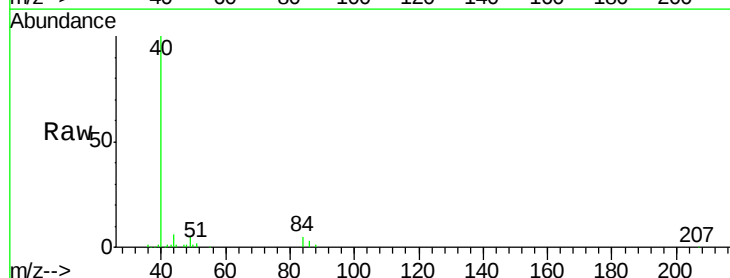
Ion Ratio Lower Upper

84 100

49 98.7 89.7 134.5

51 31.9 28.2 42.4

86 54.6 50.8 76.2



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

4.55

3000

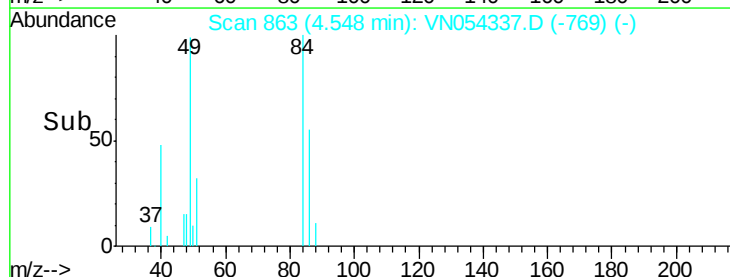
2000

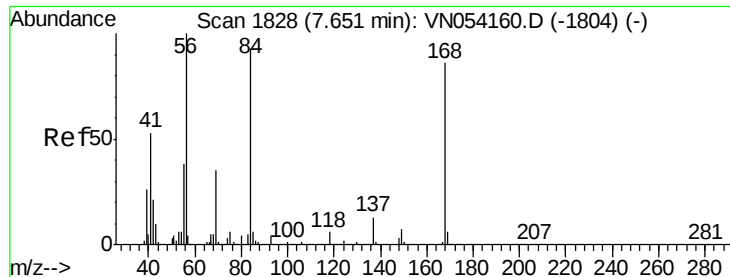
1000

0

Time-->

4.45 4.50 4.55 4.60





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

TB-031419-01

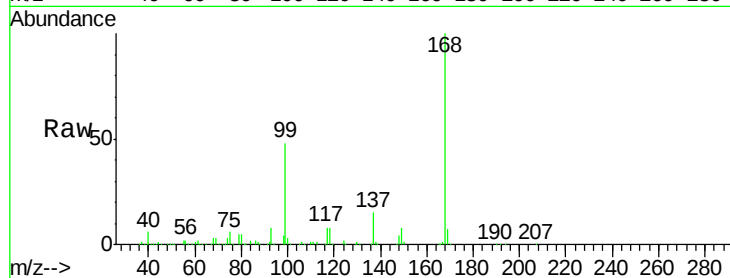
Tot Ion: 56 Resp: 29129

Ion Ratio Lower Upper

56 100

69 179.7 27.8 41.6#

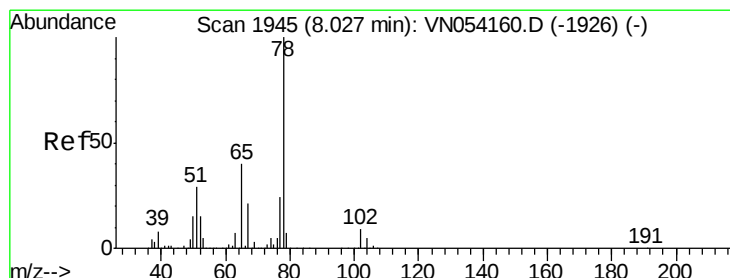
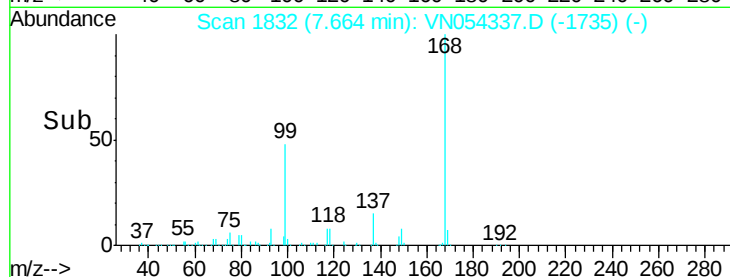
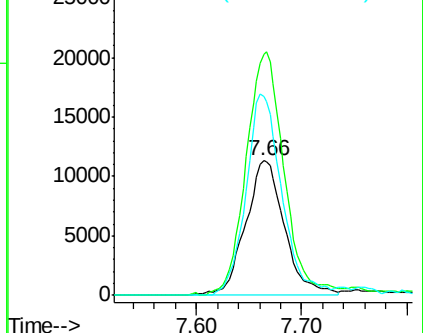
84 147.8 74.6 111.8#



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: 46.984 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054337.D

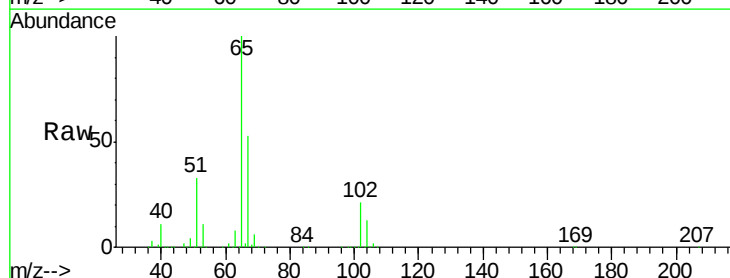
Acq: 16 Mar 2019 15:23

Tgt Ion: 65 Resp: 913664

Ion Ratio Lower Upper

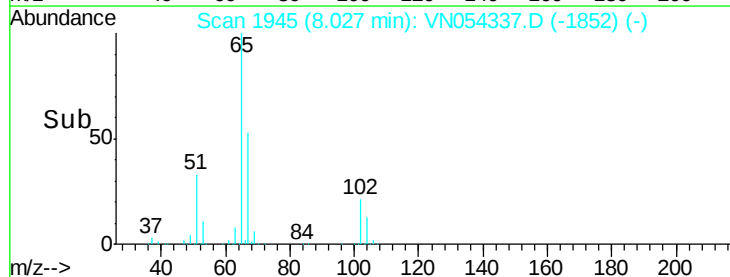
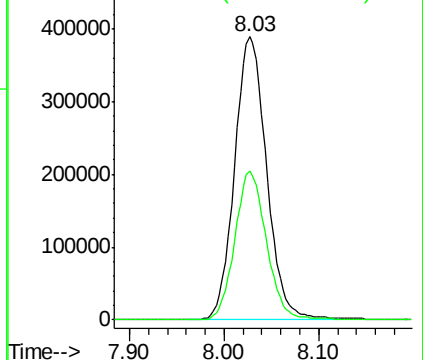
65 100

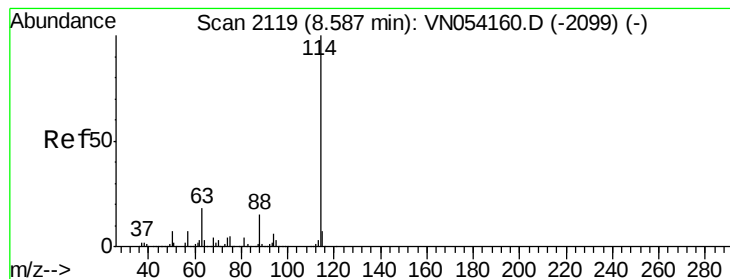
67 52.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

TB-031419-01

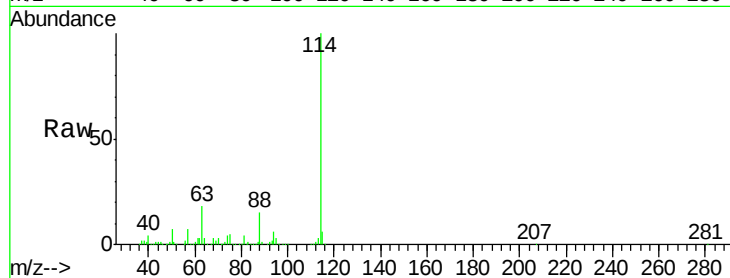
Tot Ion:114 Resp: 2678537

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.2

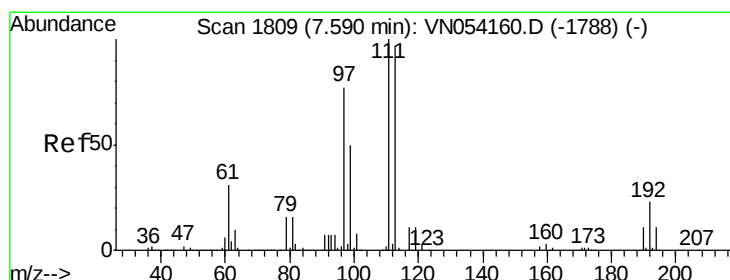
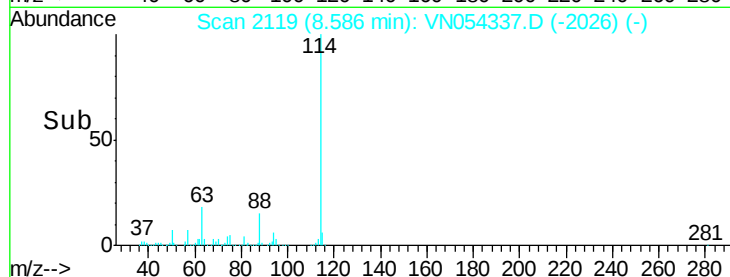
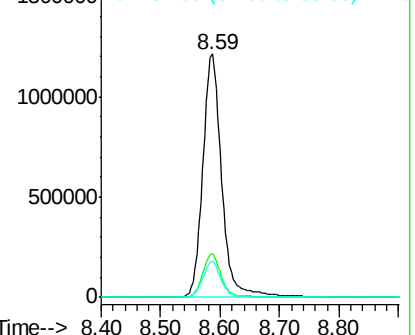
88 14.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.379 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

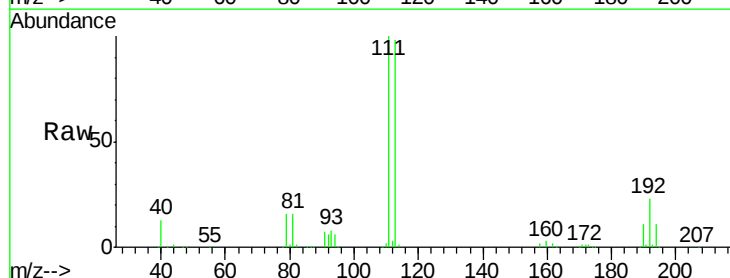
Tgt Ion:113 Resp: 818502

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

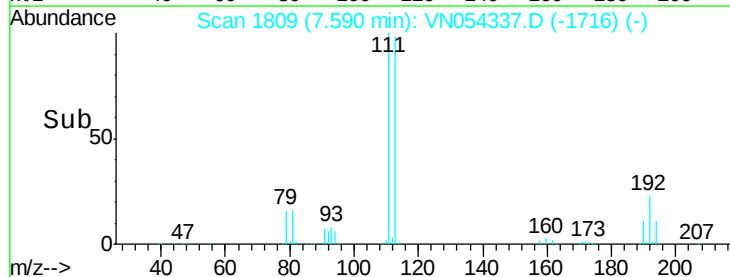
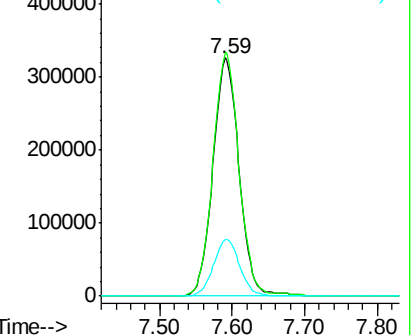
192 23.9 19.2 28.8

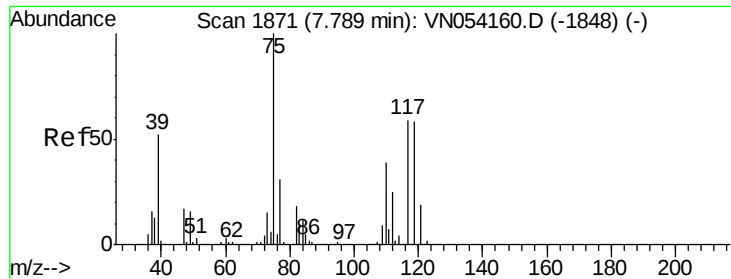


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

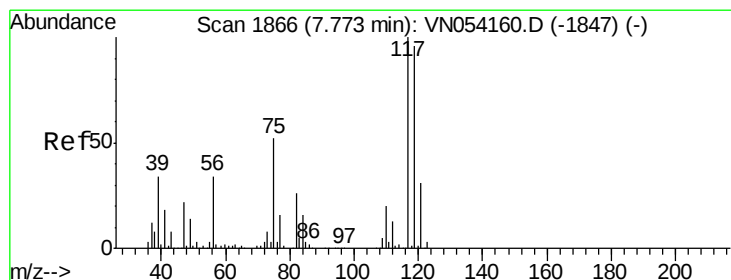
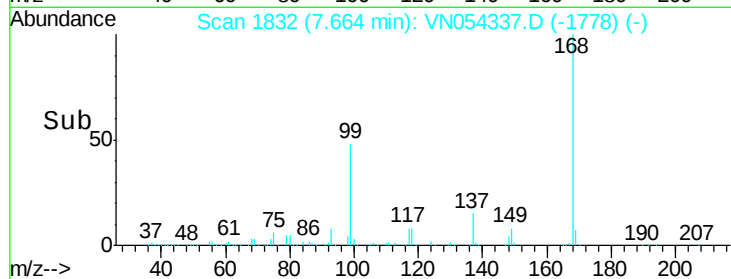
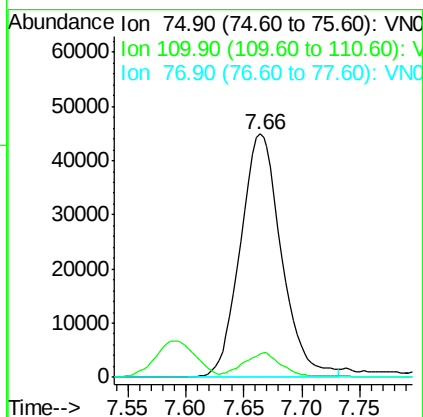
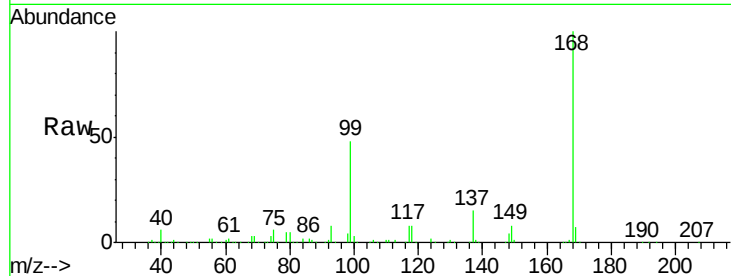




#36
 1,1-Dichloropropene
 Concen: 4.498 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054337.D
 Acq: 16 Mar 2019 15:23

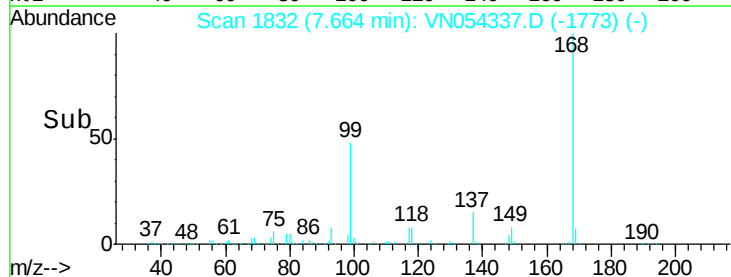
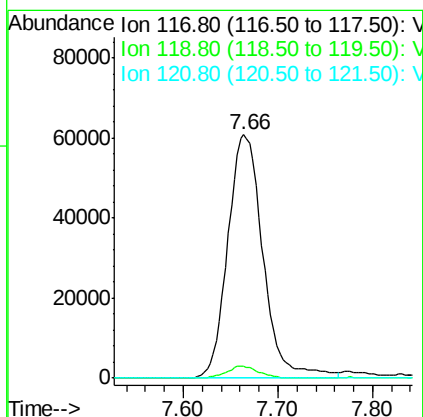
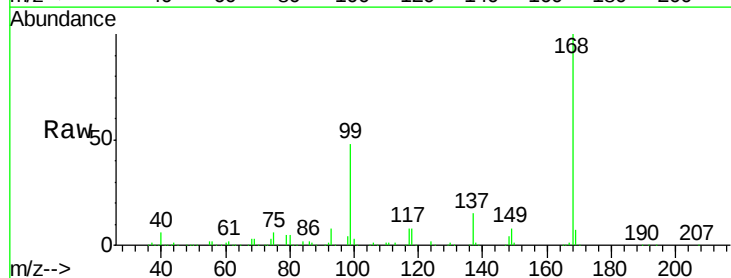
Instrument :
 MSVOA_N
 ClientSampled :
 TB-031419-01

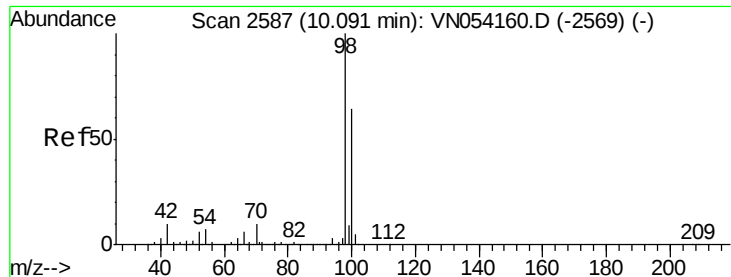
Tot Ion: 75 Resp: 110959
 Ion Ratio Lower Upper
 75 100
 110 8.9 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.101 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054337.D
 Acq: 16 Mar 2019 15:23

Tgt Ion: 117 Resp: 157823
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.3 114.5#
 121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 48.198 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

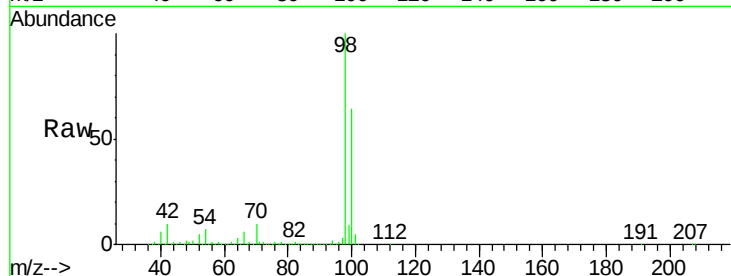
TB-031419-01

Tot Ion: 98 Resp: 3075080

Ion Ratio Lower Upper

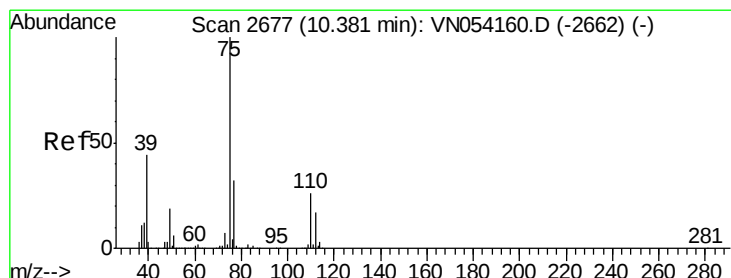
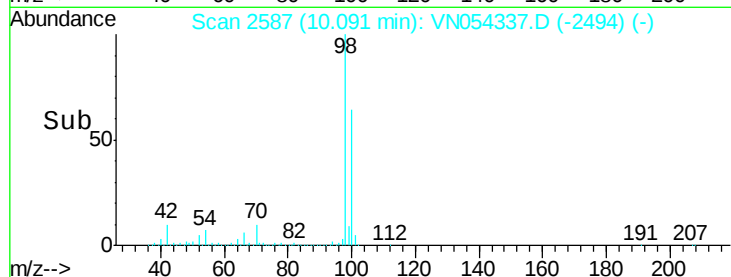
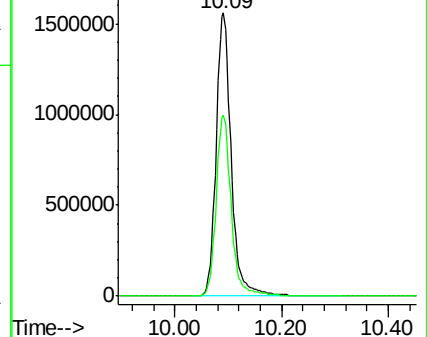
98 100

100 64.1 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) (-)



#53

t-1,3-Dichloropropene

Concen: 1.988 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.16 min

Lab File: VN054337.D

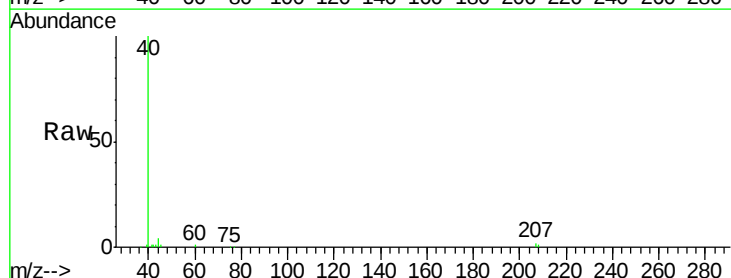
Acq: 16 Mar 2019 15:23

Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

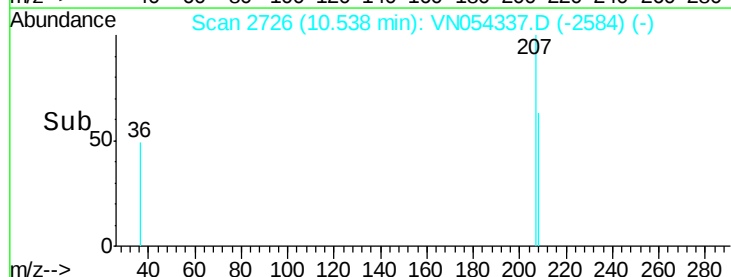
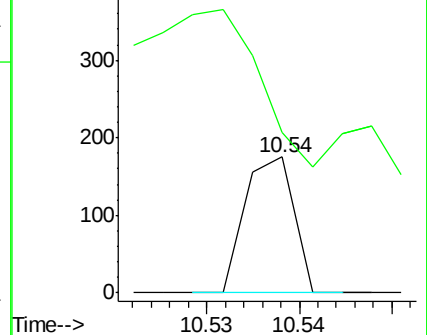
75 100

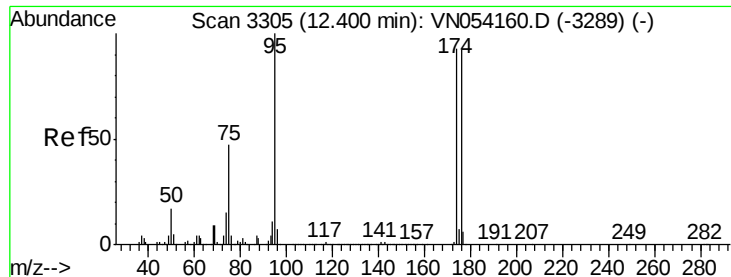
77 1.1 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054160.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN054160.D (-2662) (-)





#62

4-Bromofluorobenzene

Concen: 39.962 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

TB-031419-01

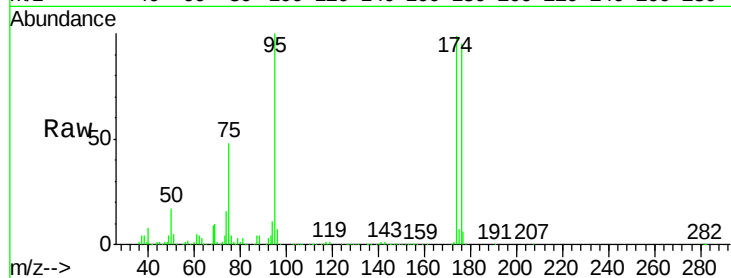
Tot Ion: 95 Resp: 892101

Ion Ratio Lower Upper

95 100

174 97.9 0.0 191.0

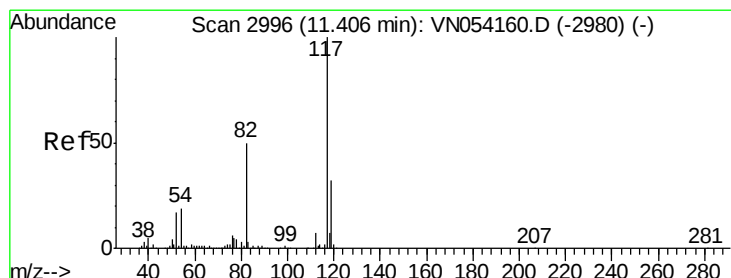
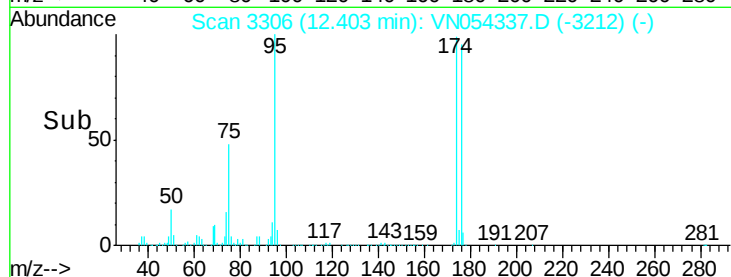
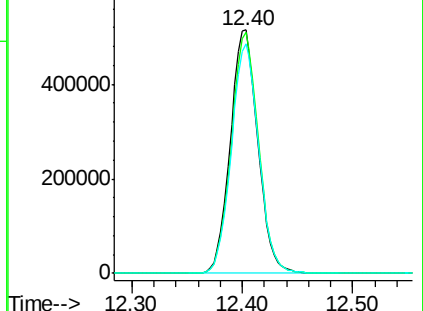
176 94.0 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054337.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054337.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054337.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

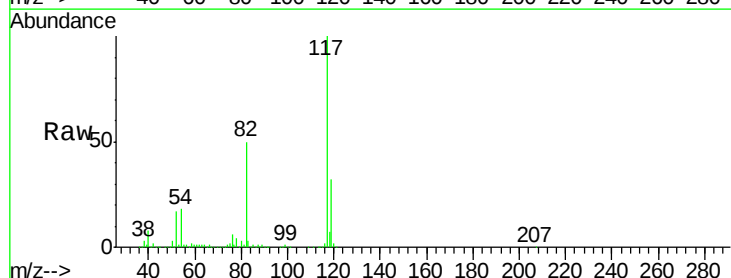
Tgt Ion: 117 Resp: 2207674

Ion Ratio Lower Upper

117 100

82 50.1 40.0 60.0

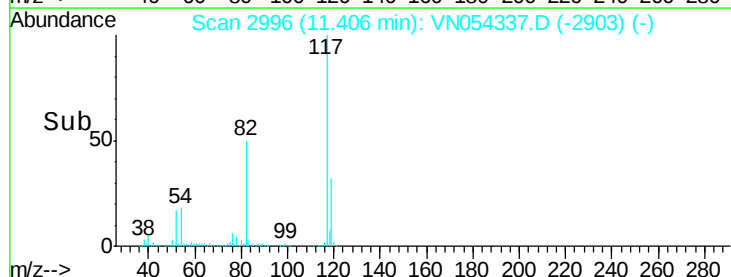
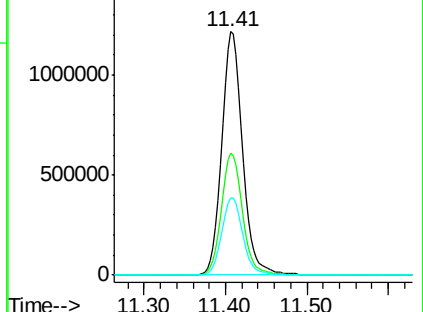
119 31.8 25.8 38.6

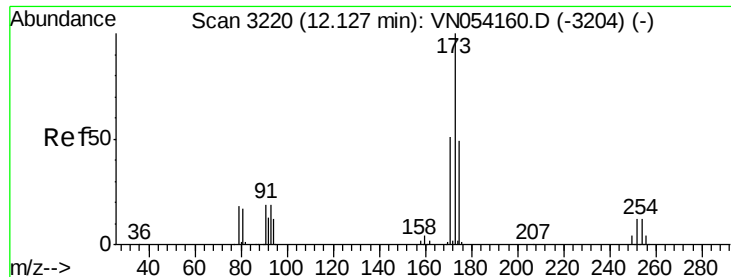


Abundance Ion 116.90 (116.60 to 117.60): VN054337.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054337.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054337.D (-2903) (-)





#71

Bromoform

Concen: 2.749 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

TB-031419-01

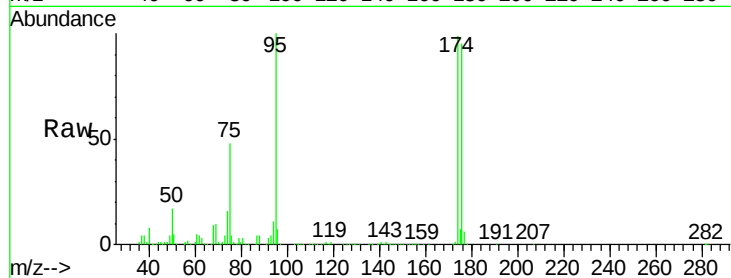
Tot Ion:173 Resp: 5611

Ion Ratio Lower Upper

173 100

175 946.8 24.4 73.2#

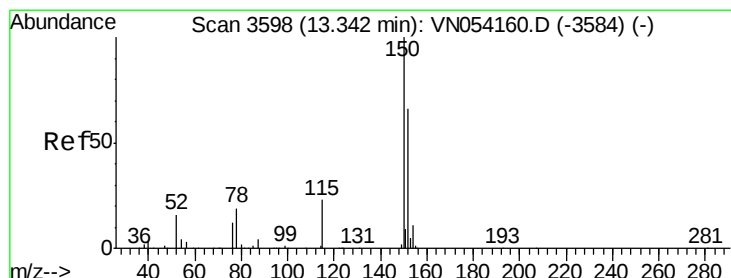
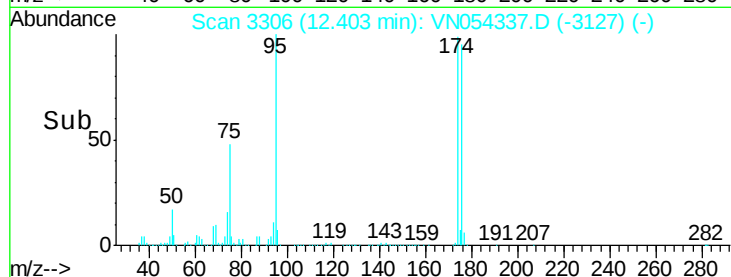
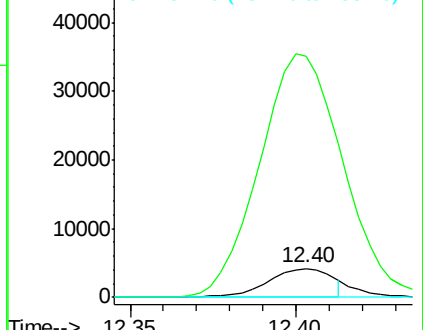
254 0.0 0.1 0.1#



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: VN054337.D

Acq: 16 Mar 2019 15:23

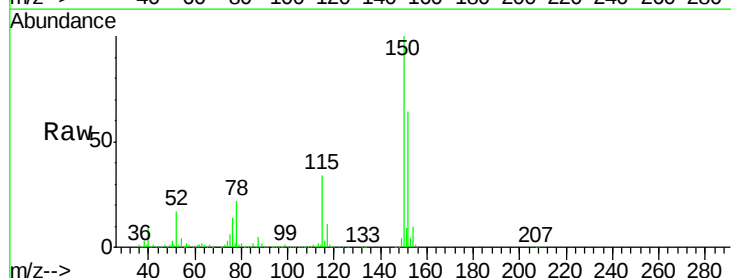
Tgt Ion:152 Resp: 778620

Ion Ratio Lower Upper

152 100

115 54.4 27.2 81.6

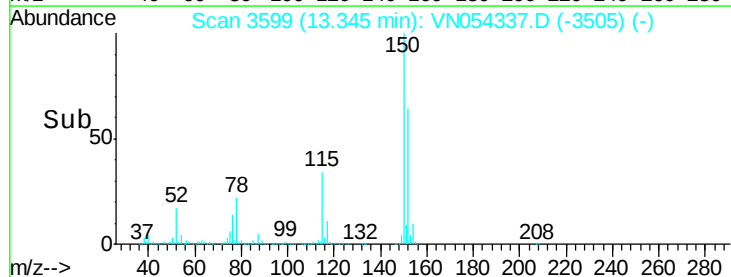
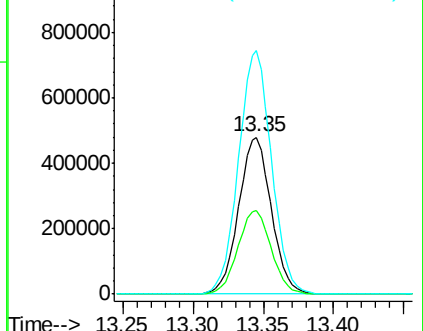
150 156.8 0.0 349.2

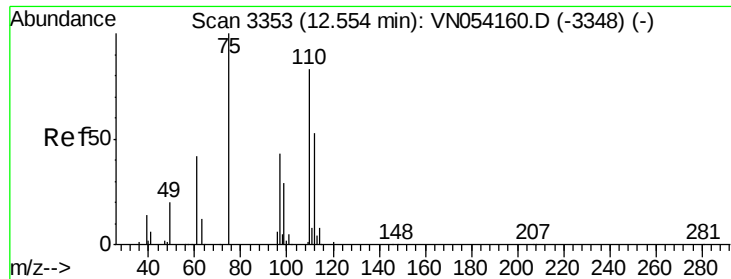


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.056 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

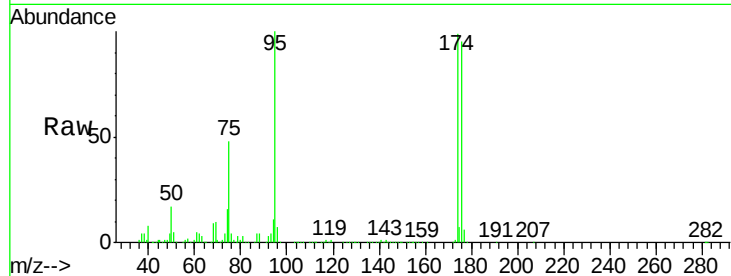
TB-031419-01

Tot Ion: 75 Resp: 435743

Ion Ratio Lower Upper

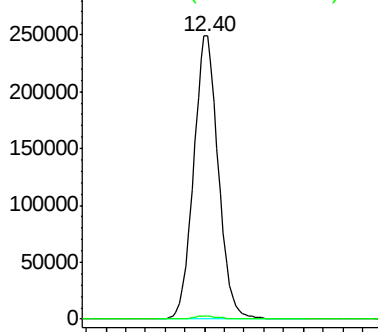
75 100

77 1.1 0.0 0.0#

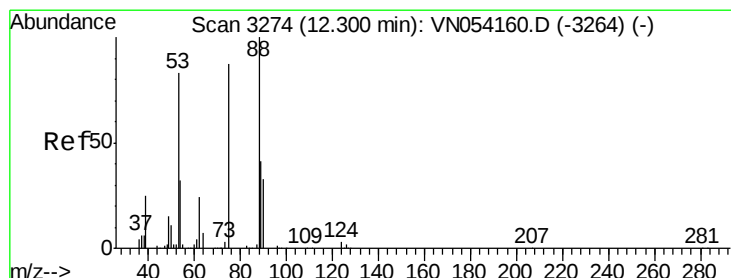
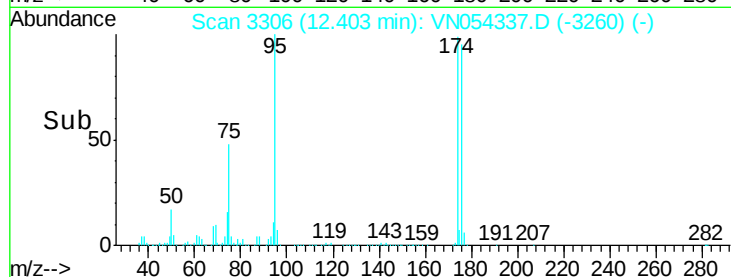


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 130.093 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054337.D

Acq: 16 Mar 2019 15:23

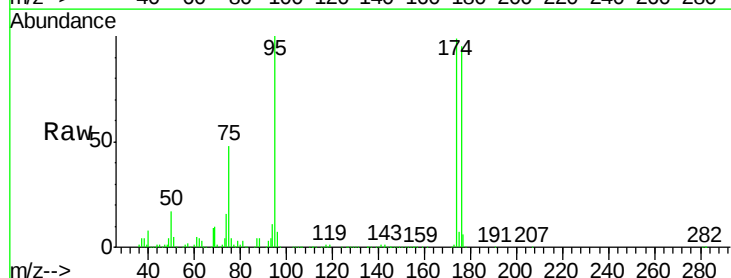
Tgt Ion: 75 Resp: 435743

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

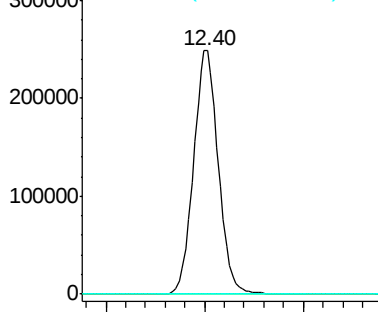
89 0.0 39.2 58.8#



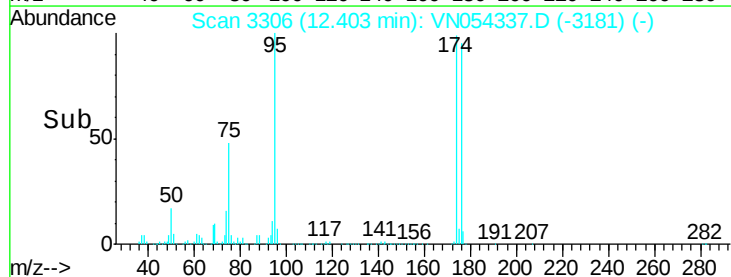
Abundance Ion 74.90 (74.60 to 75.60): VNO

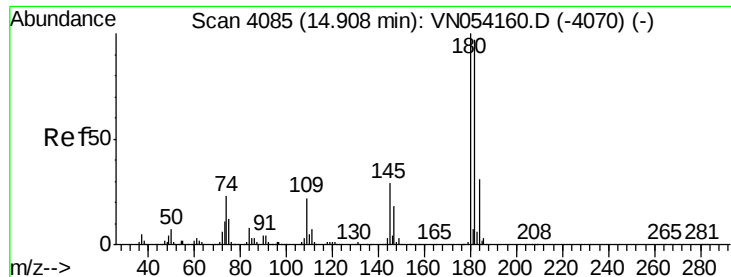
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time--> 12.30 12.40 12.50

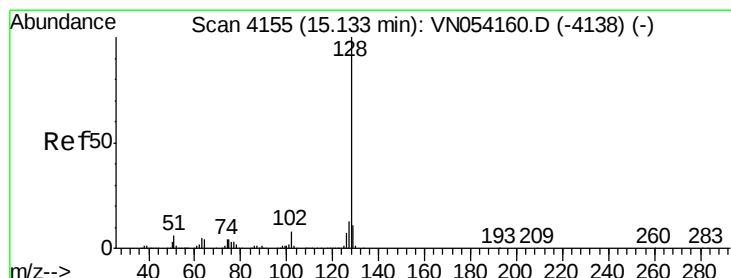
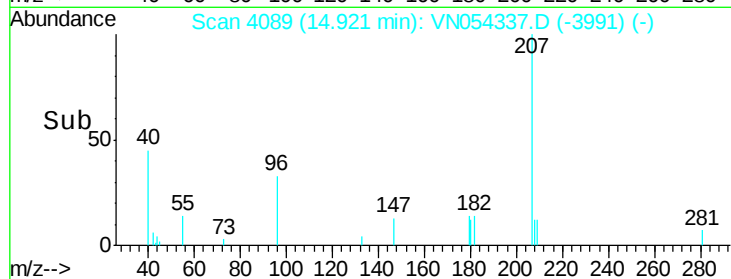
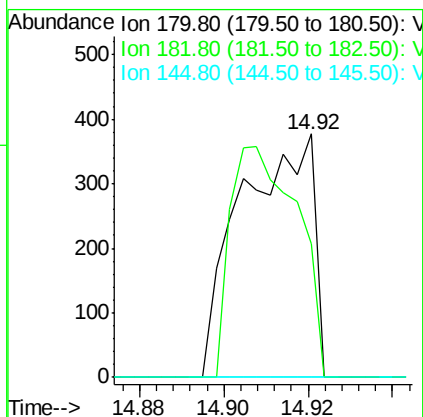
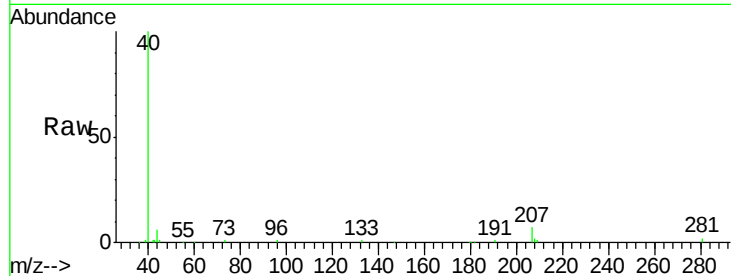




#93
 1,2,4-Trichlorobenzene
 Concen: 2.543 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN054337.D
 Acq: 16 Mar 2019 15:23

Instrument :
 MSVOA_N
 ClientSampled :
 TB-031419-01

Tot Ion:180 Resp: 450
 Ion Ratio Lower Upper
 180 100
 182 87.8 48.0 144.2
 145 0.0 14.2 42.8#



#95
 Naphthalene
 Concen: 3.533 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN054337.D
 Acq: 16 Mar 2019 15:23

Tgt Ion:128 Resp: 2310
 Ion Ratio Lower Upper
 128 100
 127 1.3 10.1 15.1#
 129 8.9 8.7 13.1

