

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021219\
 Data File : VN053742.D
 Acq On : 12 Feb 2019 20:28
 Operator : JC/SP
 Sample : K1462-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-D

Quant Time: Feb 13 04:18:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	729957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1199356	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1094487	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	440979	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	381934	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
35) Dibromofluoromethane	7.59	113	378676	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	
50) Toluene-d8	10.09	98	1451104	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.40	95	478536	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	

Target Compounds

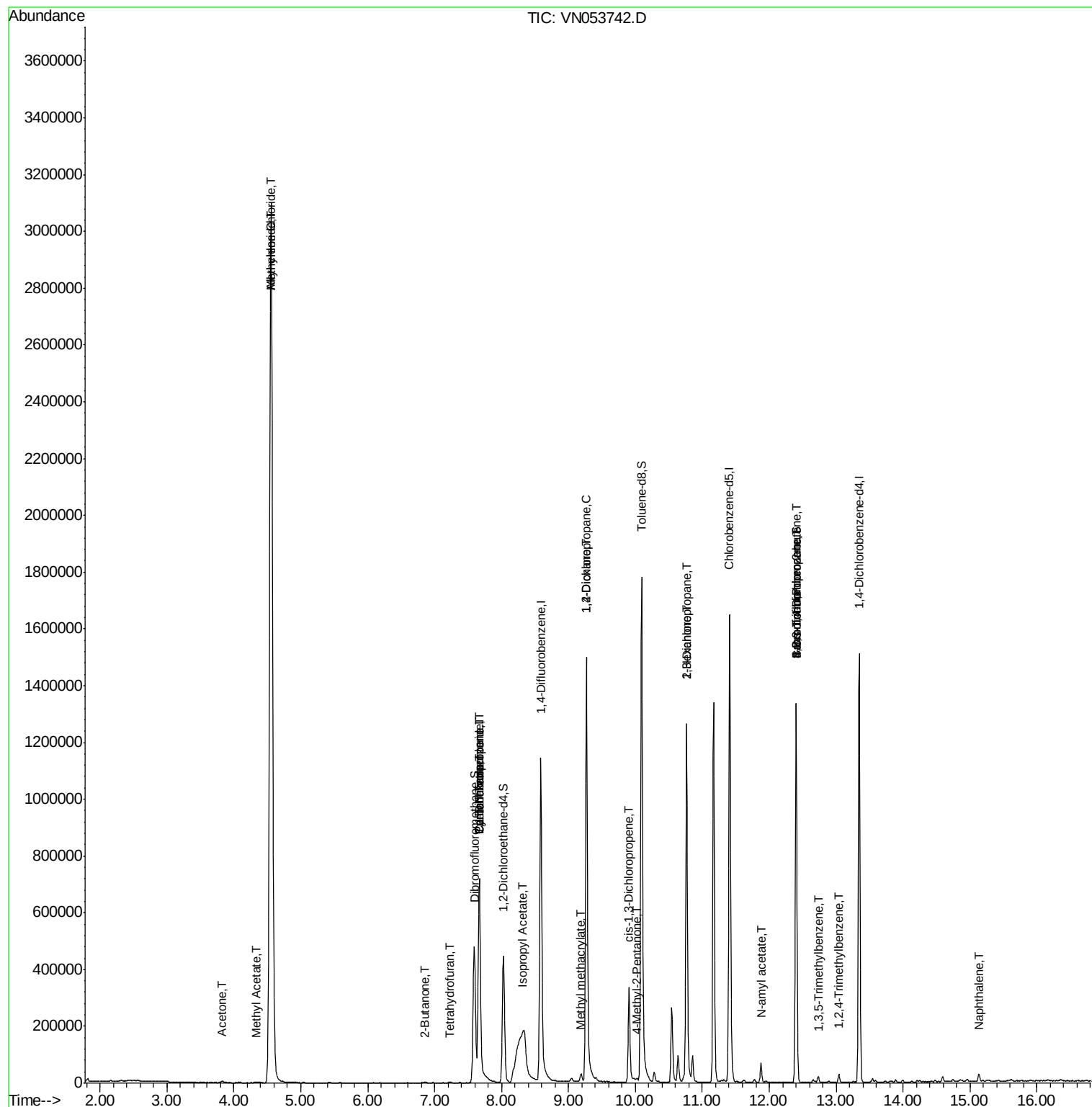
						Qvalue
14) Allyl chloride	4.56	41	89998	8.362	ug/l #	27
16) Acetone	3.82	43	6609	3.519	ug/l	97
18) Methyl Acetate	4.34	43	3780	0.680	ug/l #	67
20) Methylene Chloride	4.55	84	2515083	319.157	ug/l	99
25) 2-Butanone	6.86	43	2604	0.972	ug/l #	82
29) Tetrahydrofuran	7.22	42	812	0.472	ug/l #	60
31) Cyclohexane	7.67	56	9909	0.633	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	43207	3.996	ug/l #	48
38) Carbon Tetrachloride	7.67	117	60678	5.571	ug/l #	16
43) Isopropyl Acetate	8.30	43	352096	30.194	ug/l #	52
45) 1,2-Dichloropropane	9.27	63	2146	0.252	ug/l #	43
48) Methyl methacrylate	9.18	41	9821	1.764	ug/l #	12
49) 1,4-Dioxane	9.26	88	197	41.445	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8643	1.508	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	72709	5.733	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	14572	1.196	ug/l #	43
59) 2-Hexanone	10.77	43	190164	48.884	ug/l #	50
71) Bromoform	12.40	173	3639	0.654	ug/l #	1
74) N-amyl acetate	11.88	43	21366	2.866	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	217298	38.364	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	11417	0.444	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	217298	107.877	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	17857	0.682	ug/l	96
95) Naphthalene	15.13	128	23502	2.907	ug/l	98

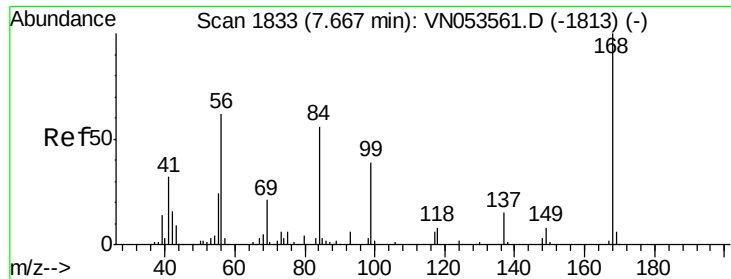
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 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: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampleId :

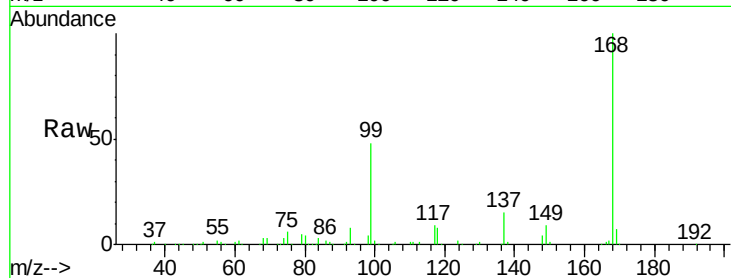
TP-3-D

Tot Ion:168 Resp: 729957

Ion Ratio Lower Upper

168 100

99 48.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

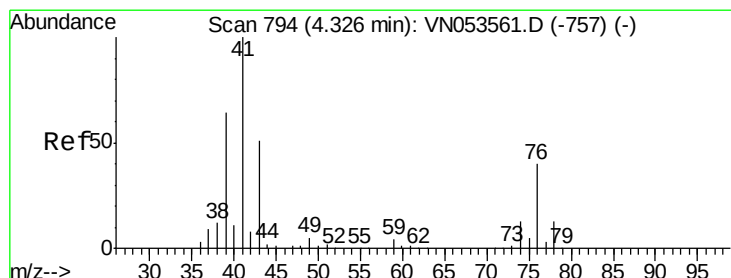
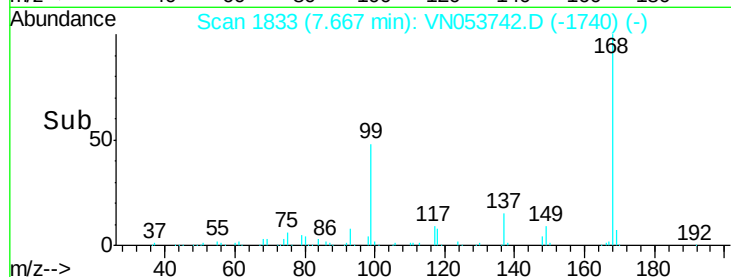
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#14

Allyl chloride

Concen: 8.362 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.23 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

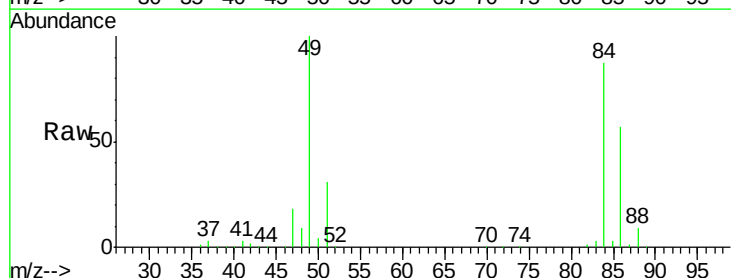
Tgt Ion: 41 Resp: 89998

Ion Ratio Lower Upper

41 100

39 0.5 48.9 73.3#

76 0.0 29.4 44.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

40000

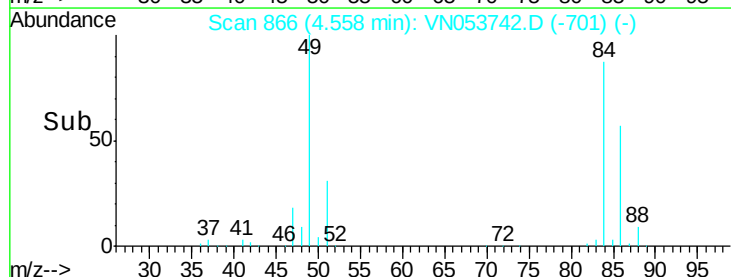
30000

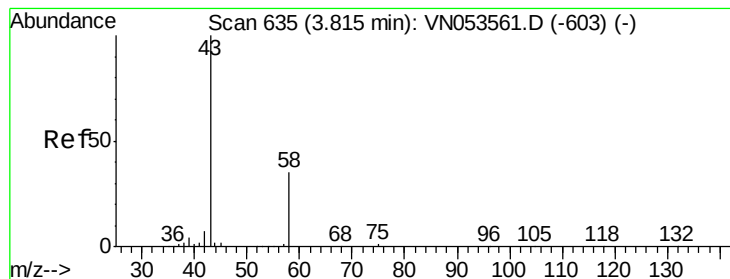
20000

10000

0

Time--> 4.50 4.60





#16

Acetone

Concen: 3.519 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampleId :

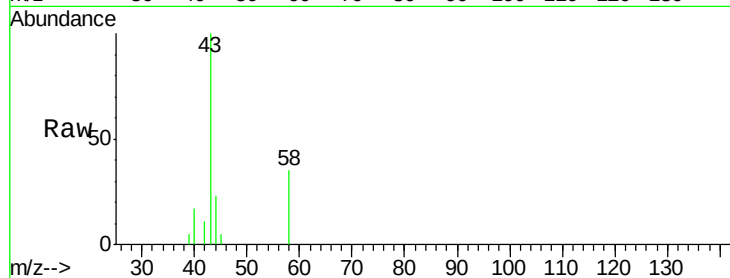
TP-3-D

Tot Ion: 43 Resp: 6609

Ion Ratio Lower Upper

43 100

58 35.4 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

4000

3000

2000

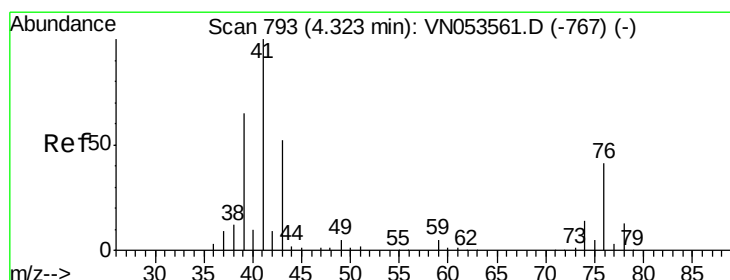
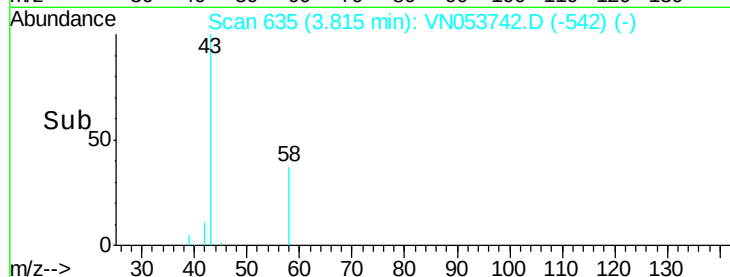
1000

0

Time-->

3.75

3.80



#18

Methyl Acetate

Concen: 0.680 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN053742.D

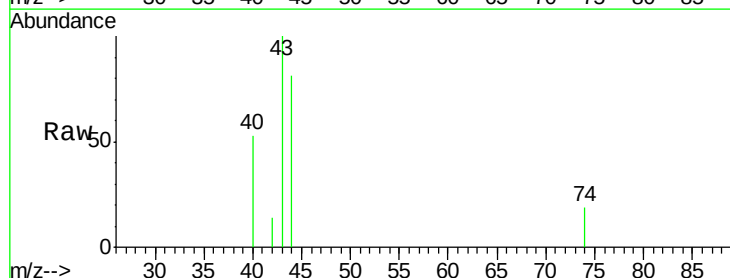
Acq: 12 Feb 2019 20:28

Tgt Ion: 43 Resp: 3780

Ion Ratio Lower Upper

43 100

74 7.9 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

1000

500

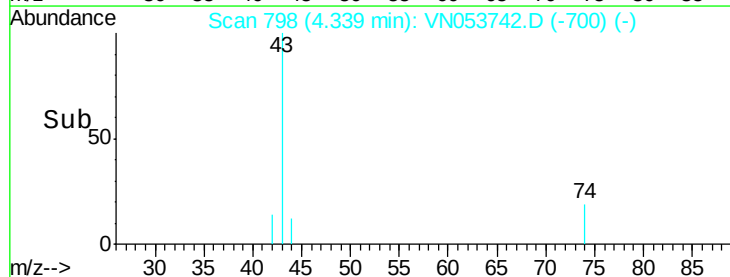
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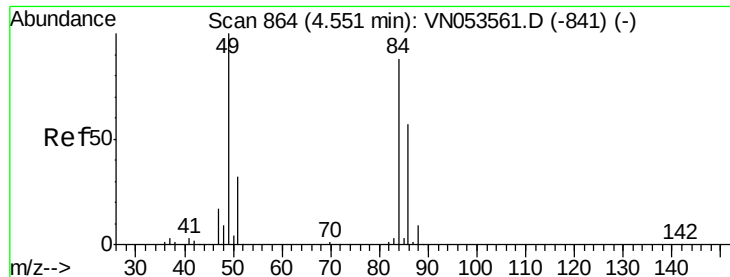
Time-->

4.25

4.30

4.35



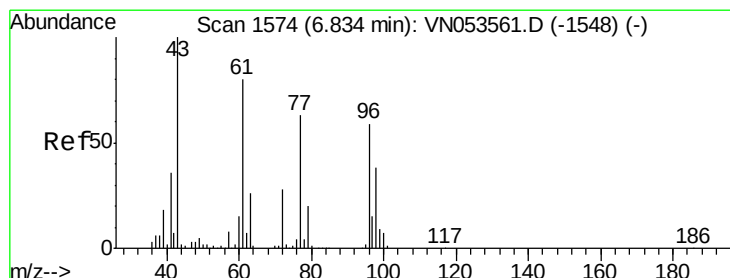
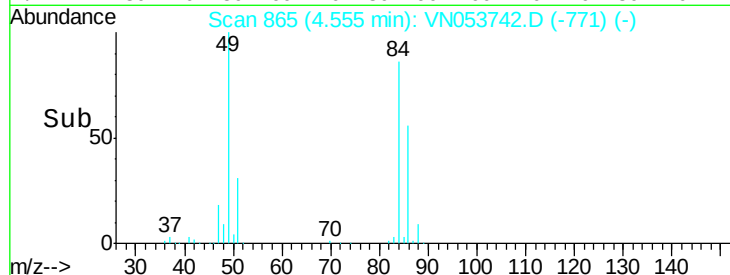
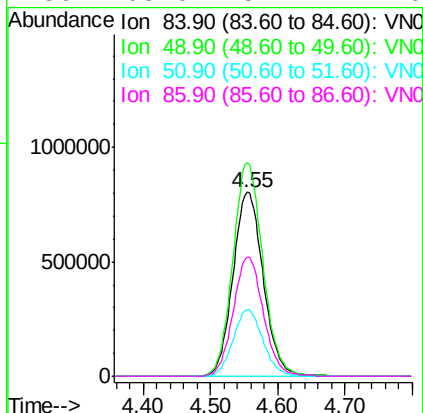
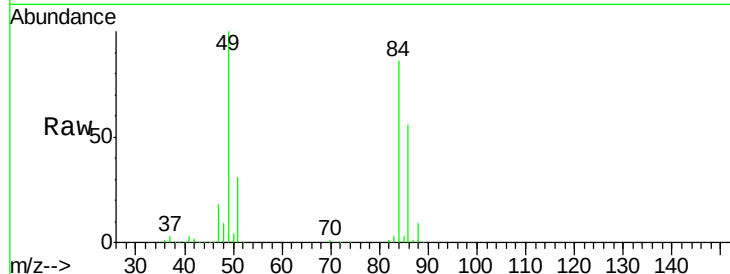


#20
Methvlene Chloride
Concen: 319.157 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053742.D
Acq: 12 Feb 2019 20:28

Instrument :
MSVOA_N
ClientSampled :
TP-3-D

Tot Ion: 84 Resp: 2515083

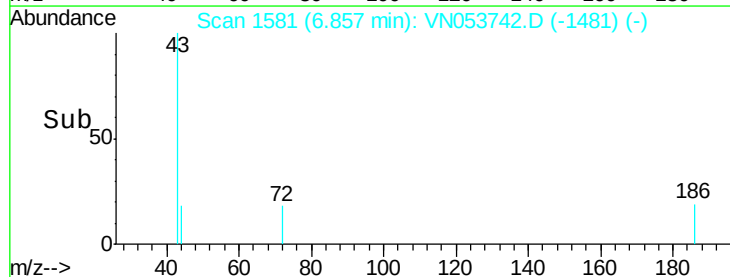
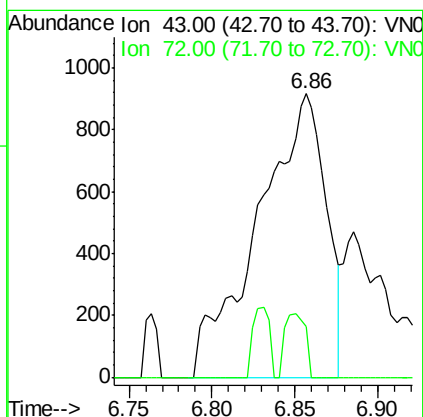
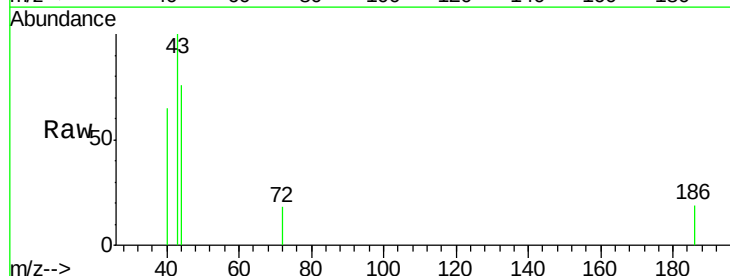
Ion	Ratio	Lower	Upper
84	100		
49	116.1	94.3	141.5
51	36.3	29.4	44.2
86	65.0	51.4	77.0

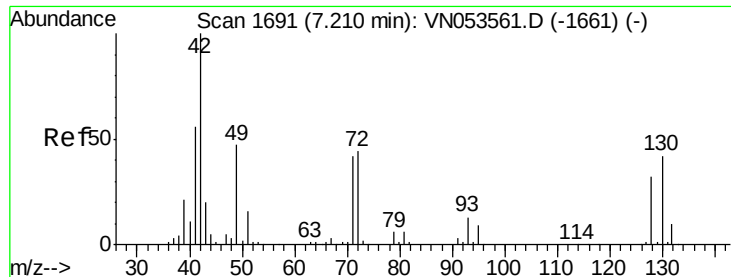


#25
2-Butanone
Concen: 0.972 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN053742.D
Acq: 12 Feb 2019 20:28

Tgt Ion: 43 Resp: 2604

Ion	Ratio	Lower	Upper
43	100		
72	18.0	22.0	33.0#





#29

Tetrahydrofuran

Concen: 0.472 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampled :

TP-3-D

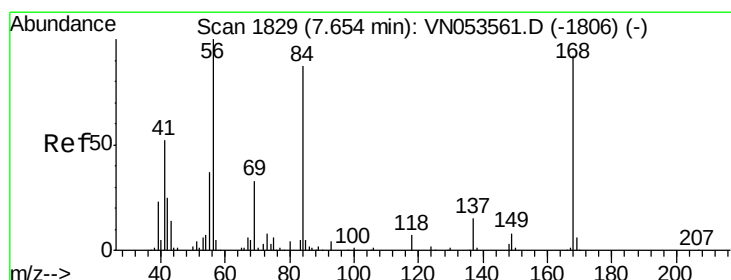
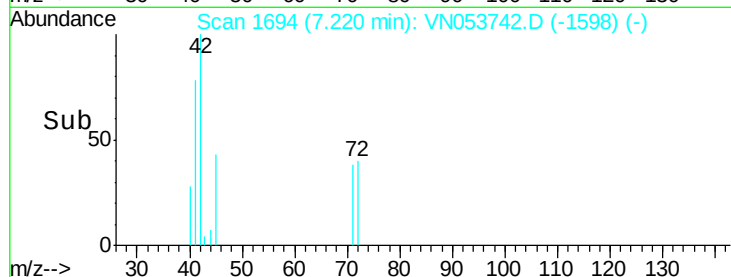
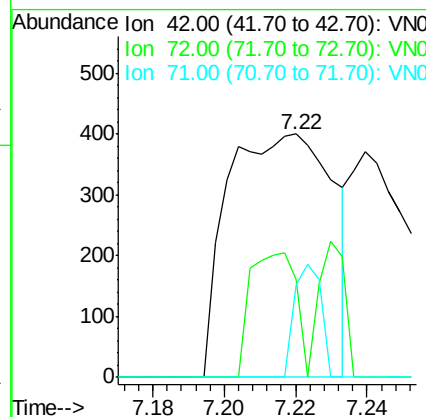
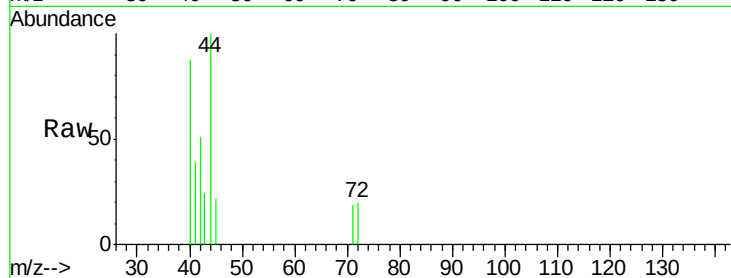
Tot Ion: 42 Resp: 812

Ion Ratio Lower Upper

42 100

72 22.3 35.2 52.8#

71 11.8 33.0 49.4#



#31

Cyclohexane

Concen: 0.633 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

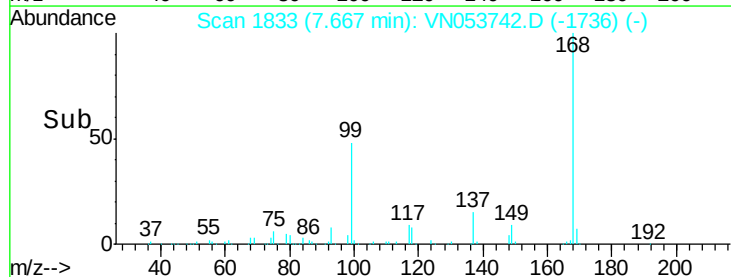
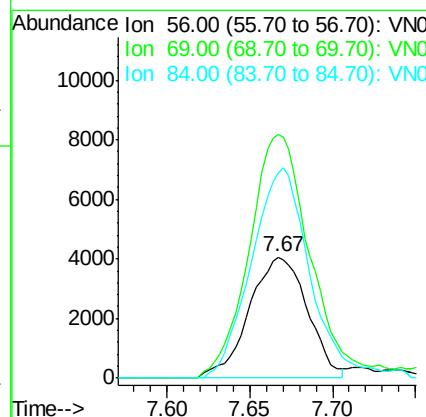
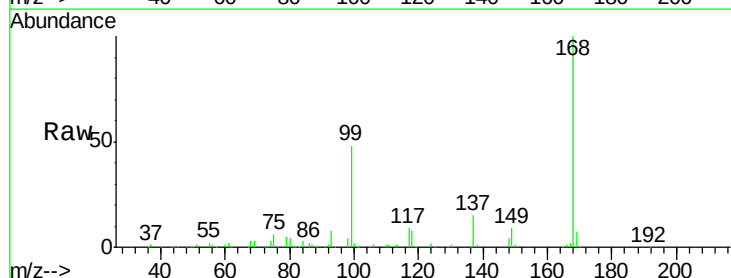
Tgt Ion: 56 Resp: 9909

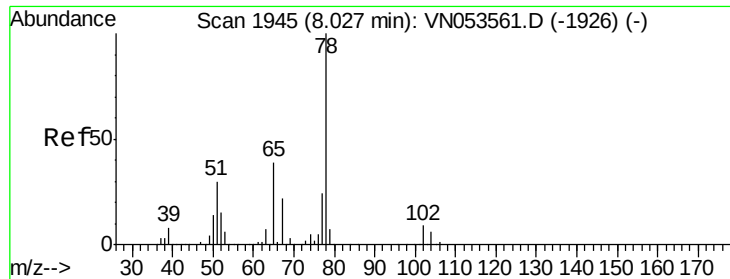
Ion Ratio Lower Upper

56 100

69 201.1 26.4 39.6#

84 169.6 67.9 101.9#

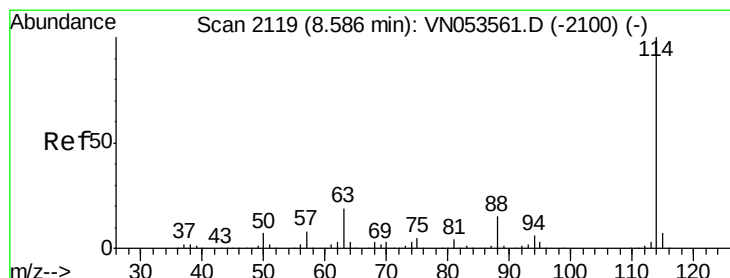
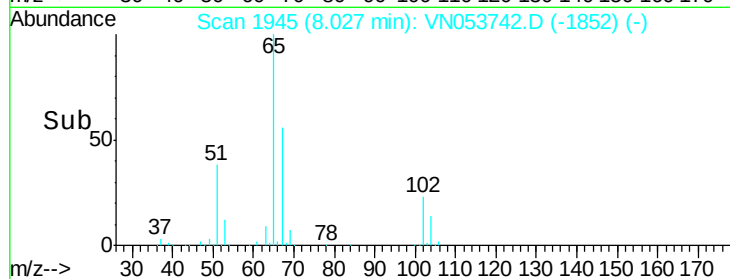
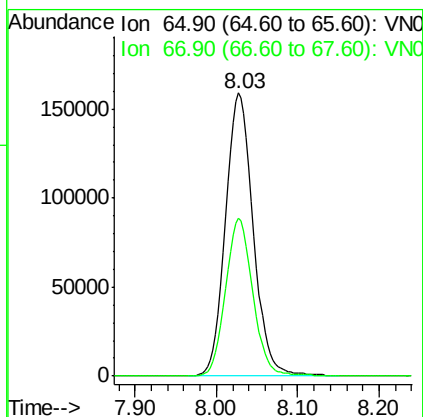
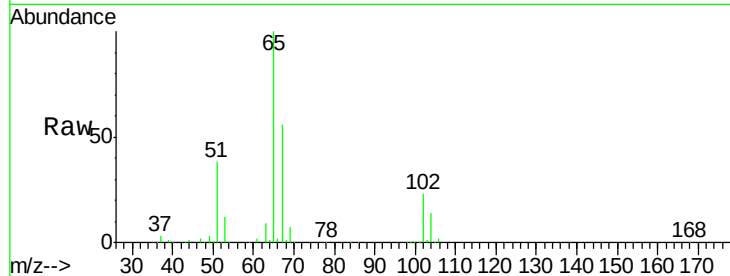




#33
 1,2-Dichloroethane-d4
 Concen: 52.156 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

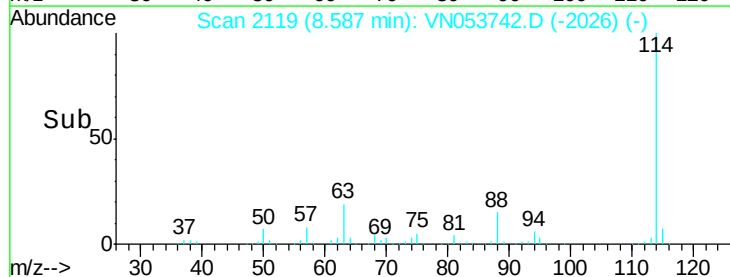
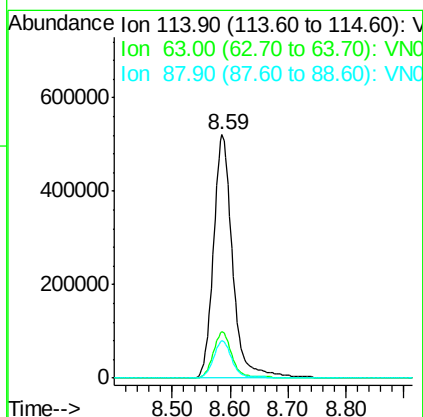
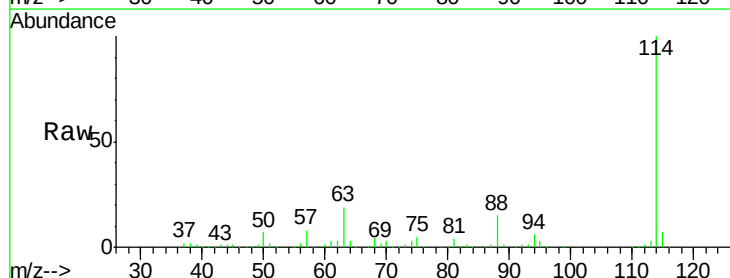
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 MSVOA_N
 ClientSampleID :
 TP-3-D

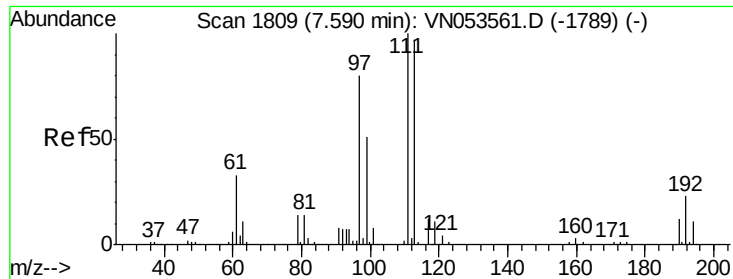
Tot Ion: 65 Resp: 381934
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

Tgt Ion: 114 Resp: 1199356
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.4 0.0 30.4

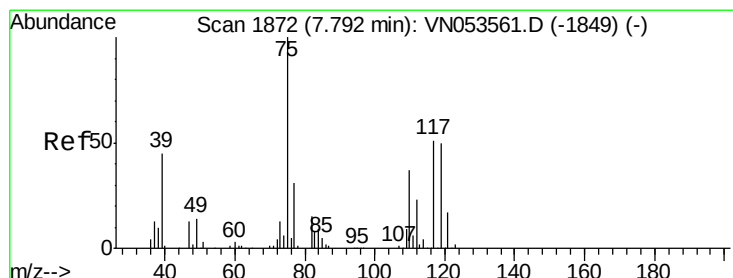
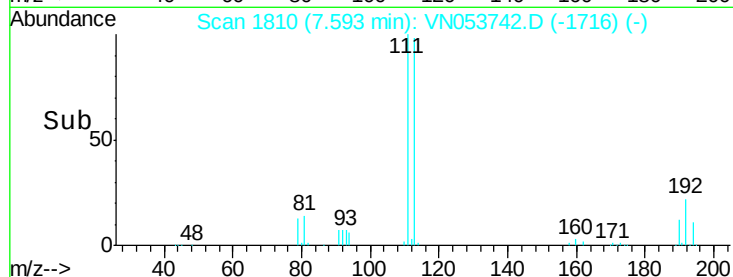
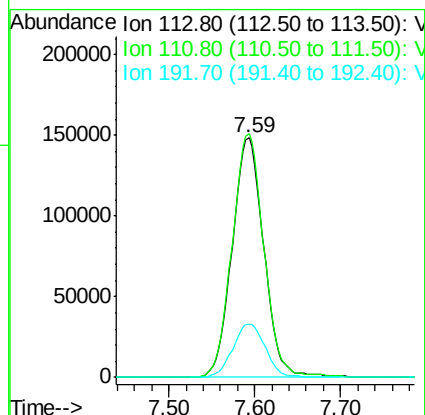
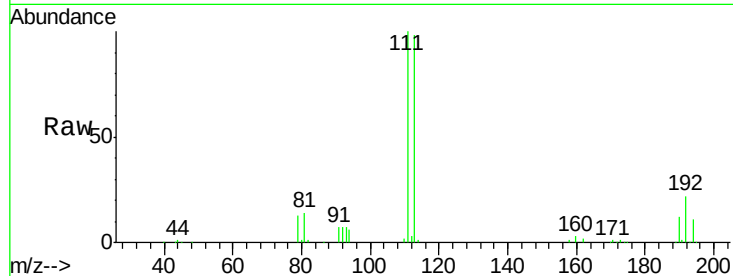




#35
 Dibromofluoromethane
 Concen: 49.968 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

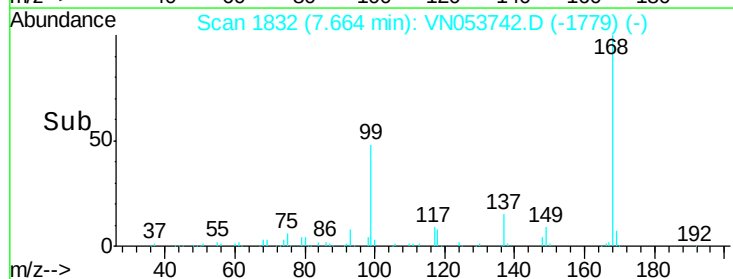
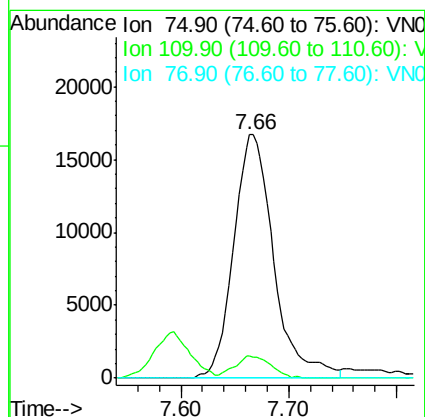
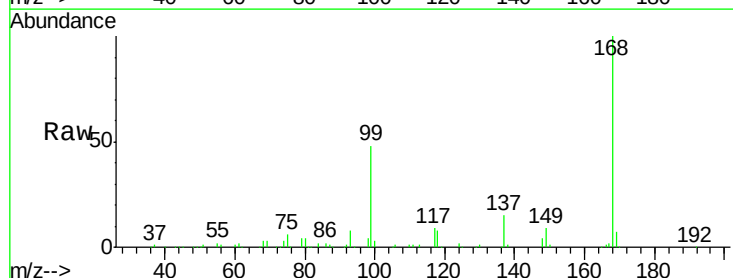
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-D

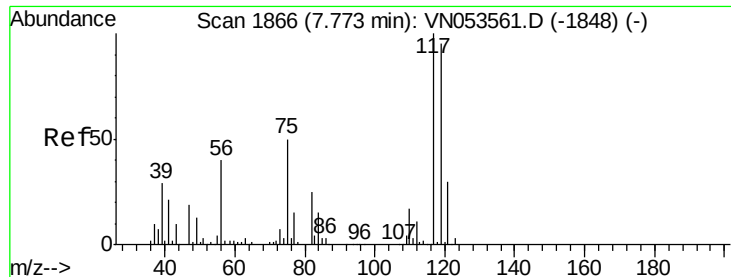
Tot Ion:113 Resp: 378676
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.1 121.7
 192 22.9 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 3.996 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

Tgt Ion: 75 Resp: 43207
 Ion Ratio Lower Upper
 75 100
 110 8.0 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.571 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampled :

TP-3-D

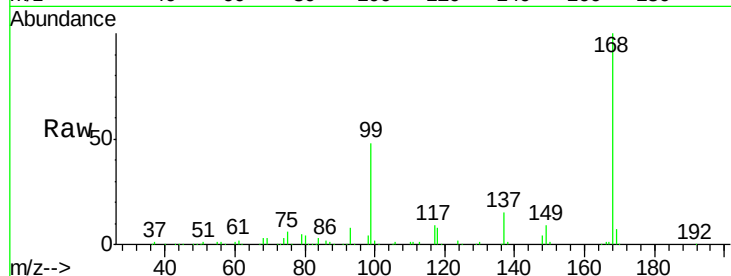
Tot Ion:117 Resp: 60678

Ion Ratio Lower Upper

117 100

119 5.0 77.2 115.8#

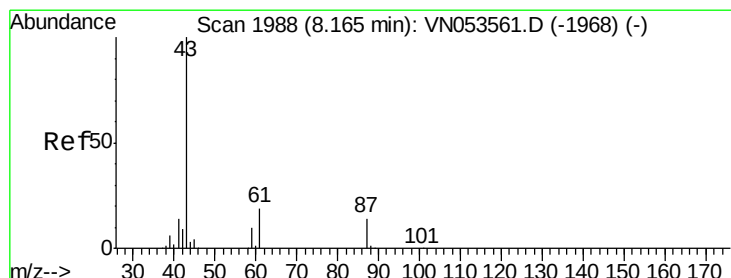
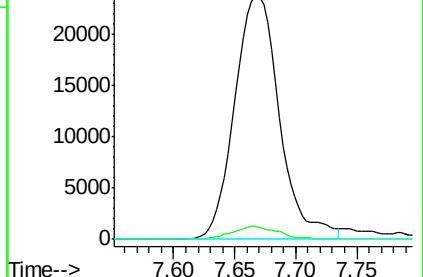
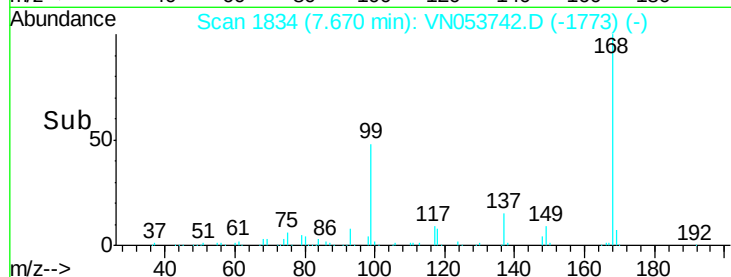
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 30.194 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

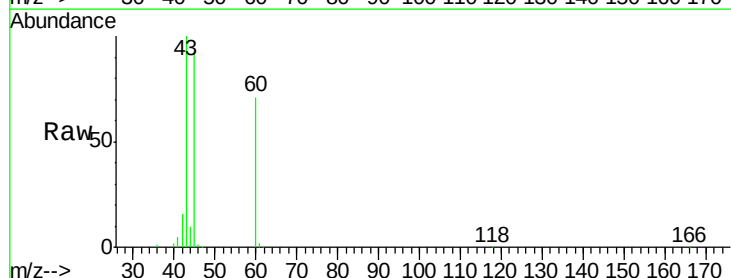
Tgt Ion: 43 Resp: 352096

Ion Ratio Lower Upper

43 100

61 0.1 23.9 35.9#

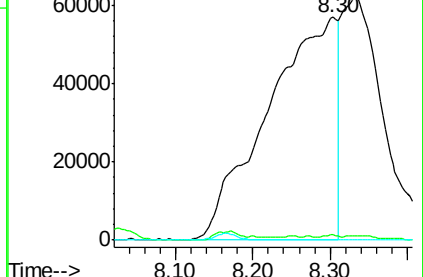
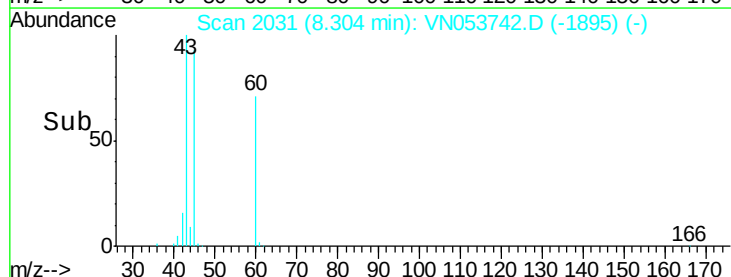
87 0.0 11.0 16.6#

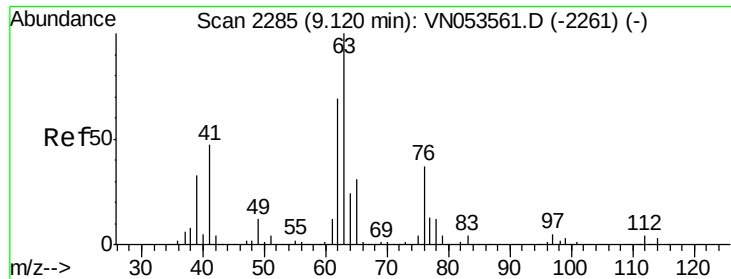


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

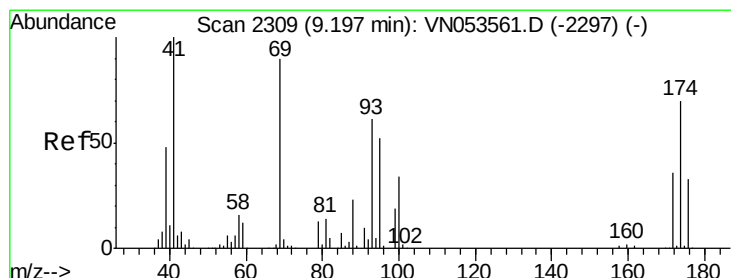
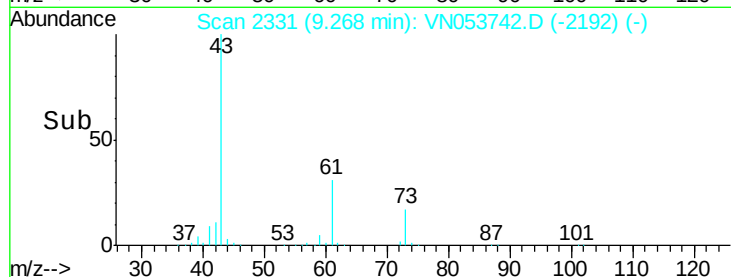
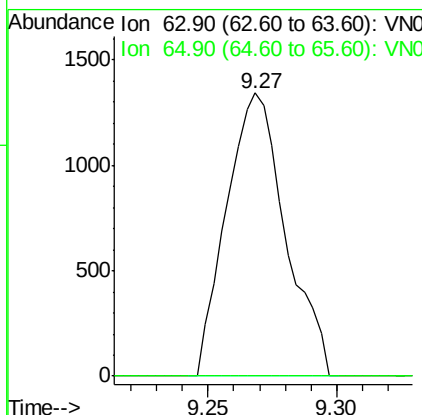
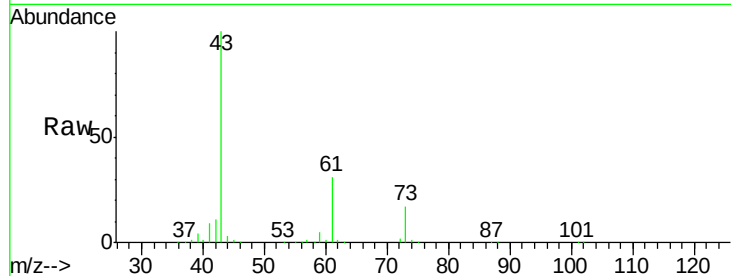




#45
 1,2-Dichloropropane
 Concen: 0.252 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

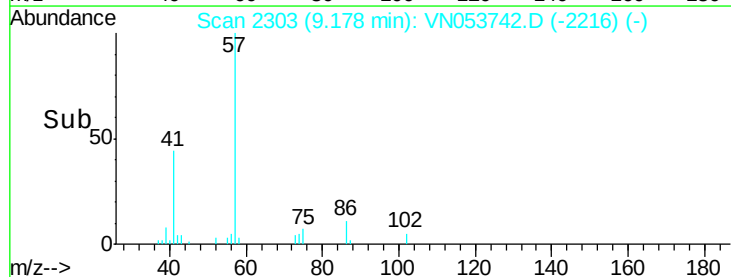
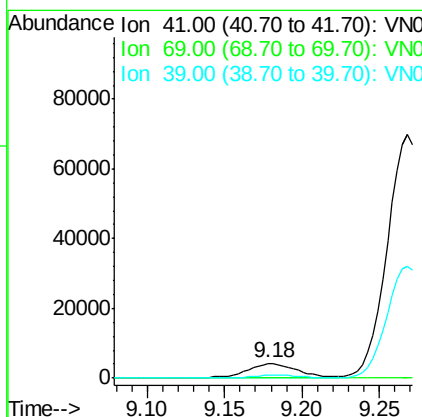
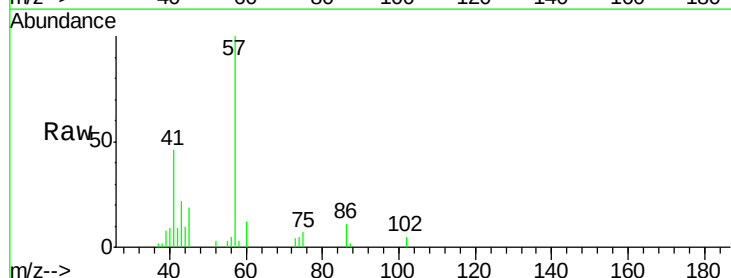
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3-D

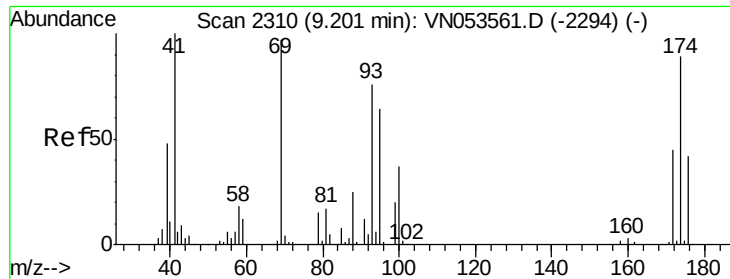
Tot Ion: 63 Resp: 2146
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.764 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

Tgt Ion: 41 Resp: 9821
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 41.445 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampled :

TP-3-D

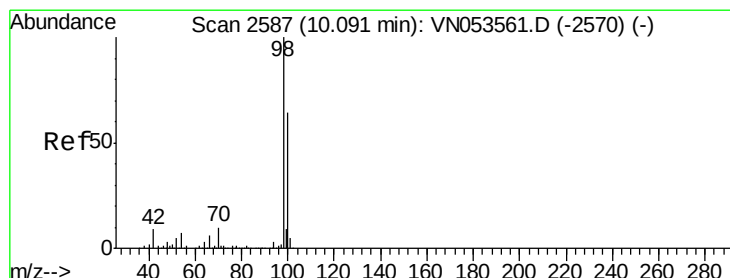
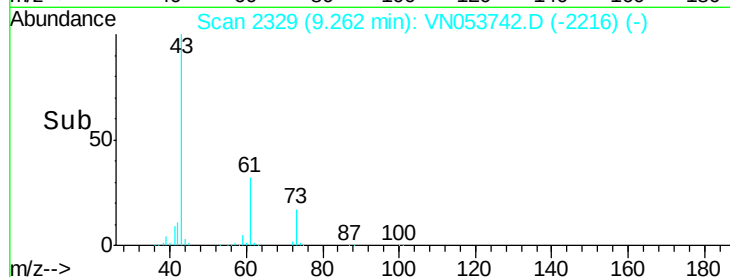
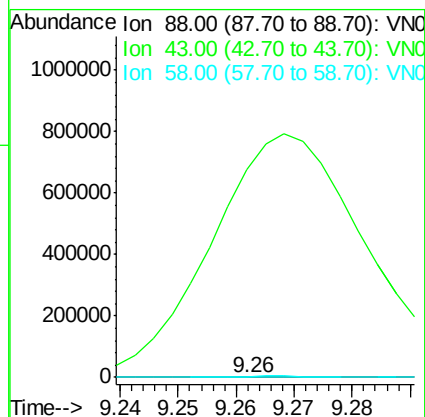
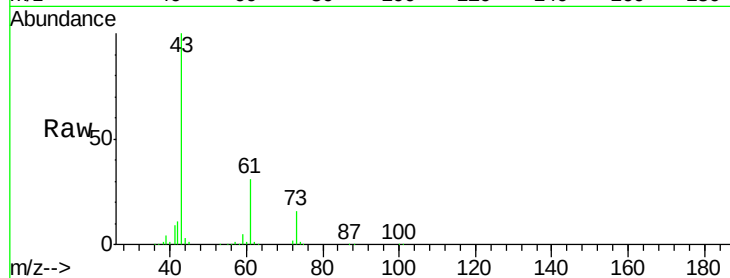
Tot Ion: 88 Resp: 197

Ion Ratio Lower Upper

88 100

43 812802.5 27.8 41.6#

58 3936.0 56.5 84.7#



#50

Toluene-d8

Concen: 50.996 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053742.D

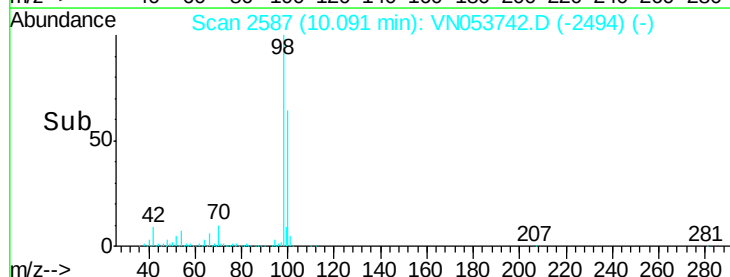
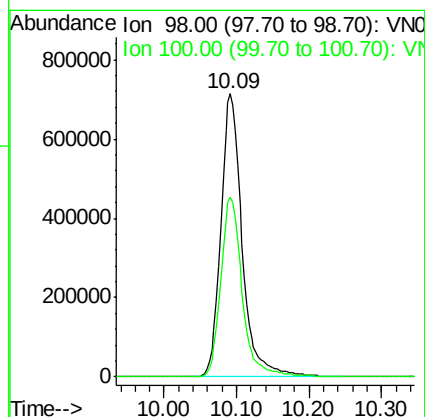
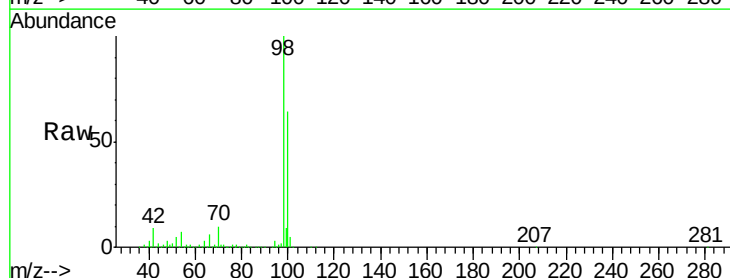
Acq: 12 Feb 2019 20:28

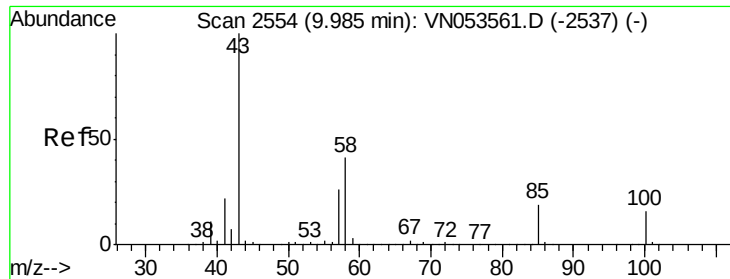
Tgt Ion: 98 Resp: 1451104

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 1.508 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampled :

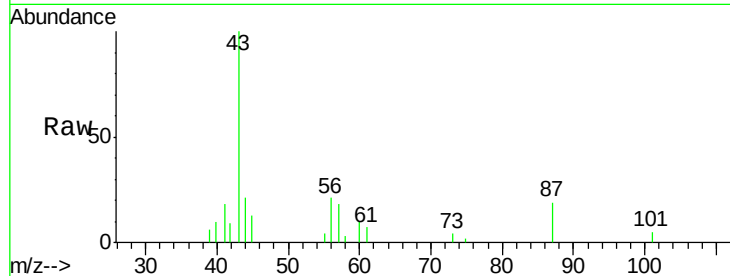
TP-3-D

Tot Ion: 43 Resp: 8643

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

6000

4000

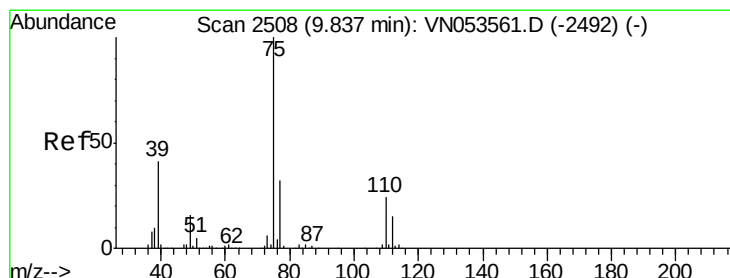
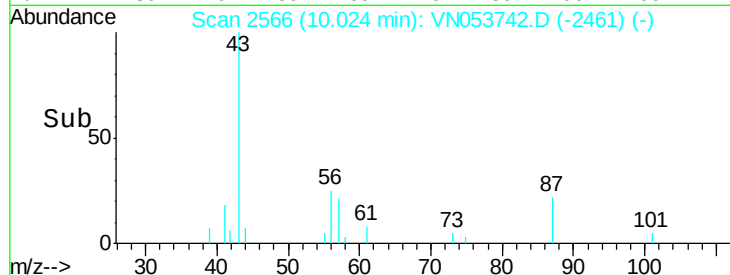
2000

0

Time-->

10.00

10.05



#54

cis-1,3-Dichloropropene

Concen: 5.733 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

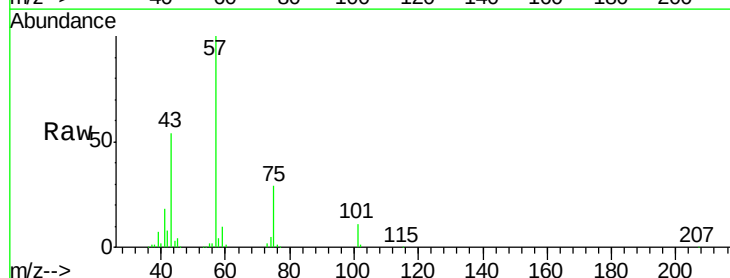
Tgt Ion: 75 Resp: 72709

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

39 25.1 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

50000

40000

30000

20000

10000

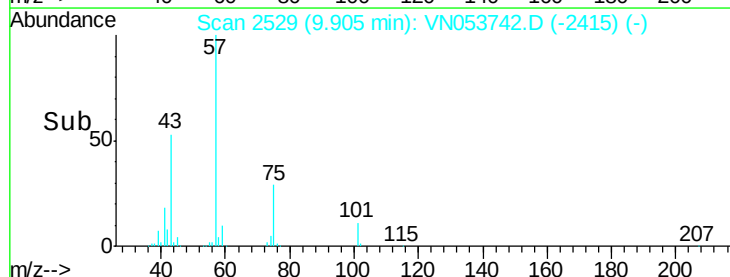
0

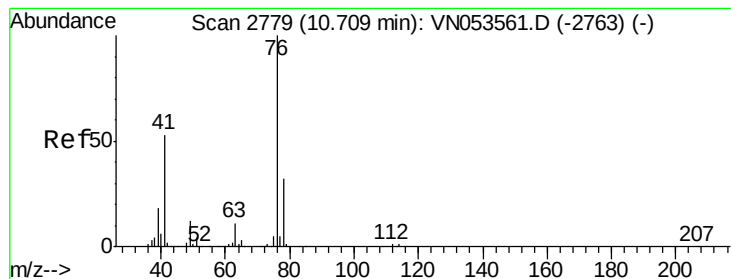
Time-->

9.80

9.90

10.00





#57

1,3-Dichloropropane

Concen: 1.196 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampleId :

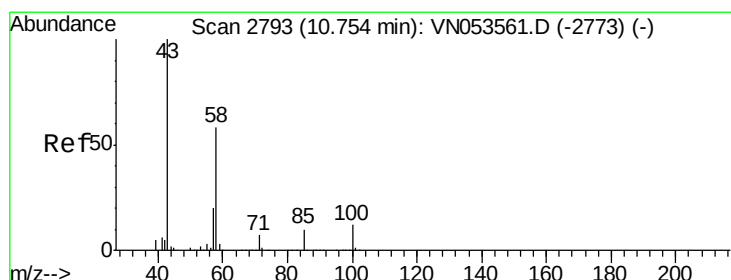
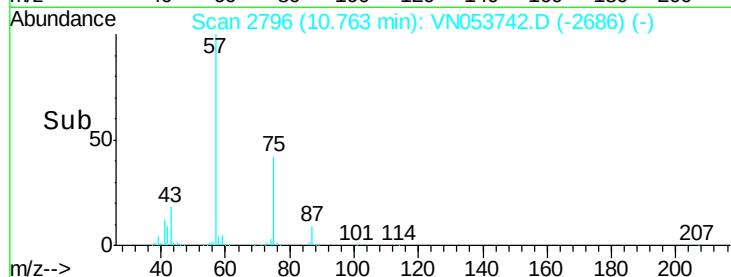
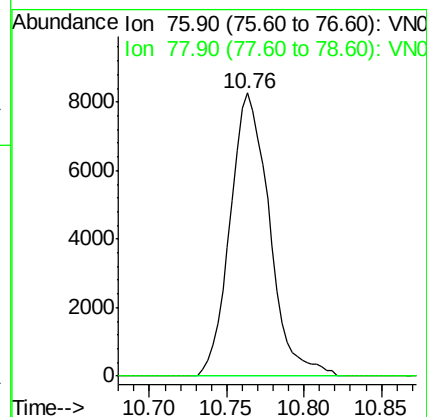
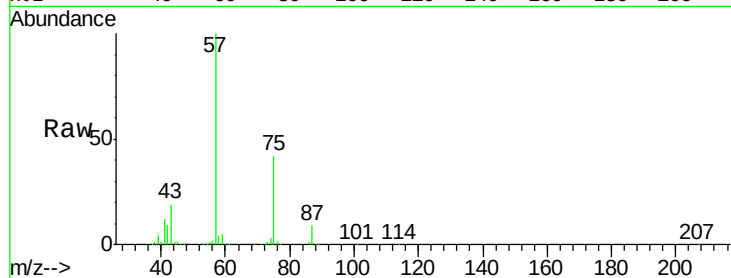
TP-3-D

Tot Ion: 76 Resp: 14572

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 48.884 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN053742.D

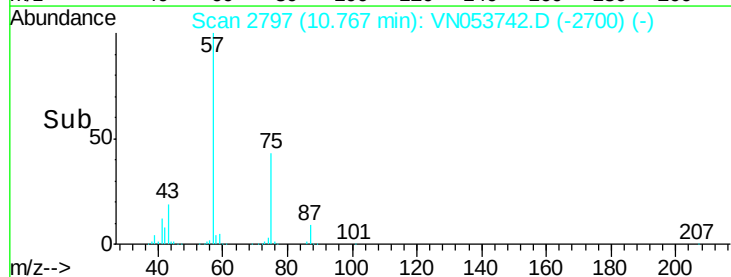
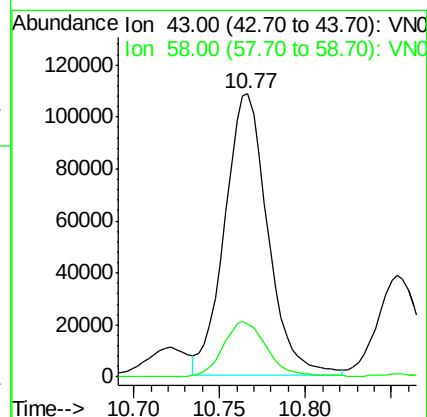
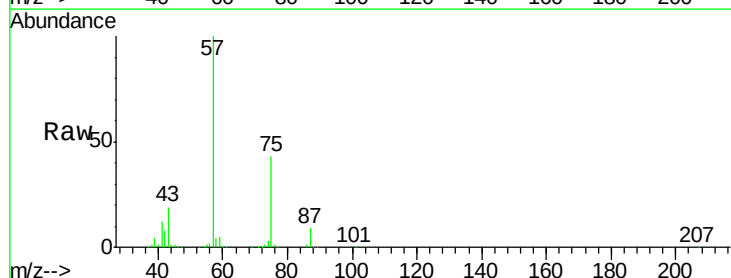
Acq: 12 Feb 2019 20:28

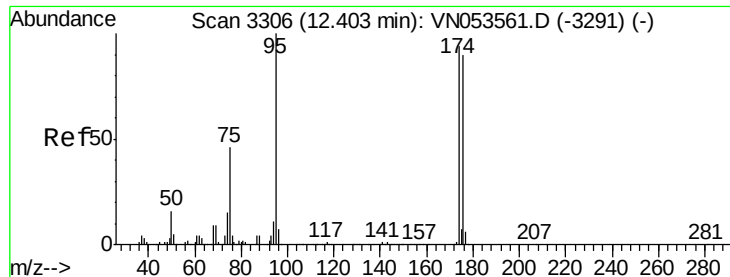
Tgt Ion: 43 Resp: 190164

Ion Ratio Lower Upper

43 100

58 20.1 28.6 85.8#

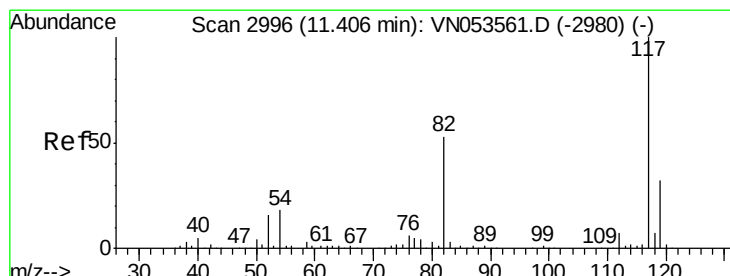
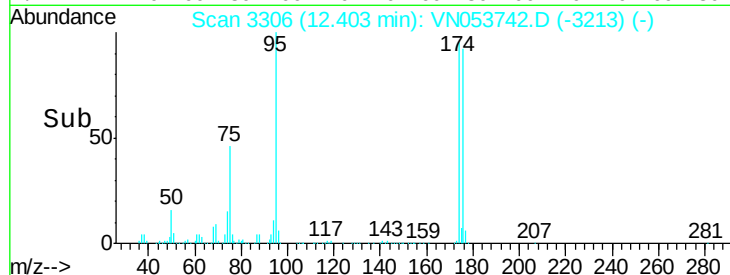
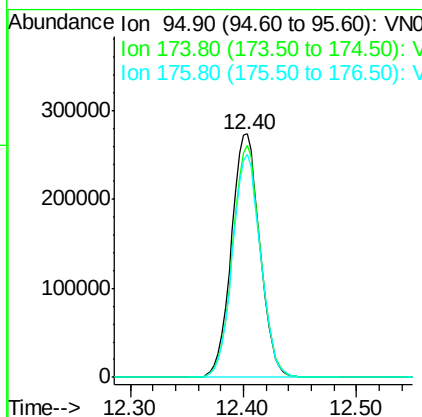
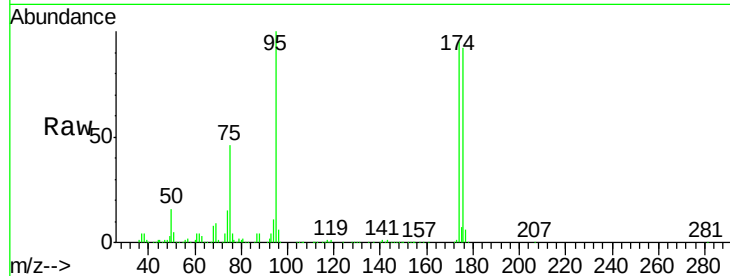




#62
4-Bromofluorobenzene
Concen: 50.424 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053742.D
Acq: 12 Feb 2019 20:28

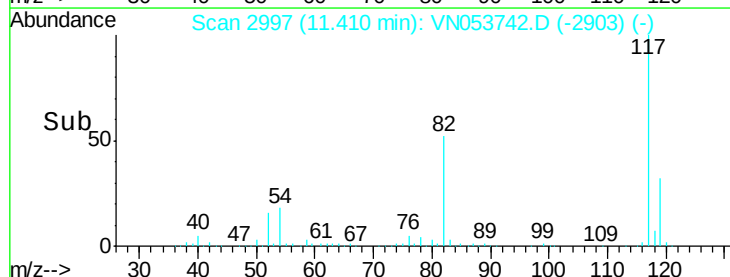
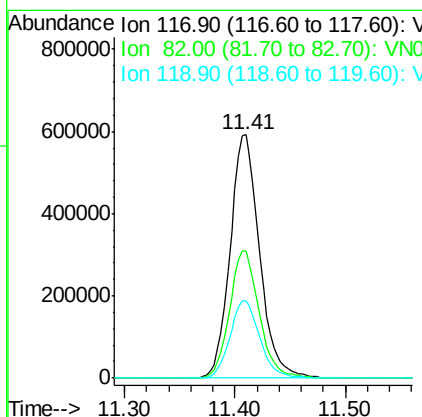
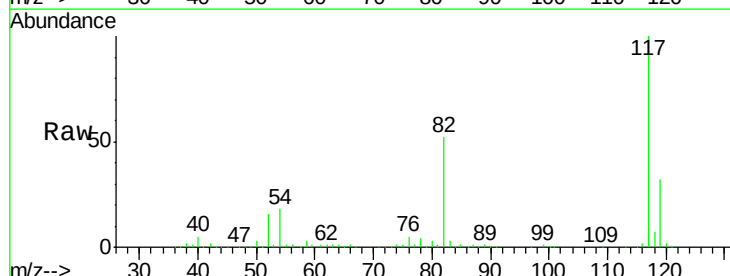
Instrument :
MSVOA_N
ClientSampled :
TP-3-D

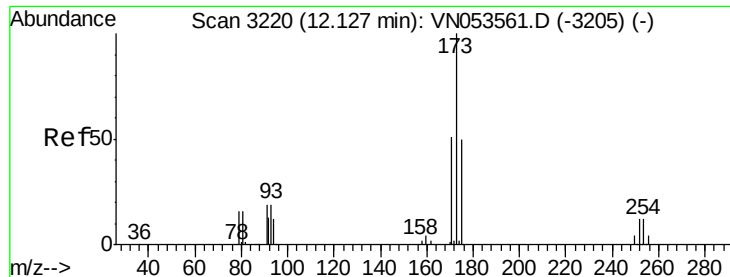
Tot Ion: 95 Resp: 478536
Ion Ratio Lower Upper
95 100
174 93.6 0.0 183.2
176 90.4 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053742.D
Acq: 12 Feb 2019 20:28

Tgt Ion: 117 Resp: 1094487
Ion Ratio Lower Upper
117 100
82 52.0 42.9 64.3
119 31.9 26.0 39.0

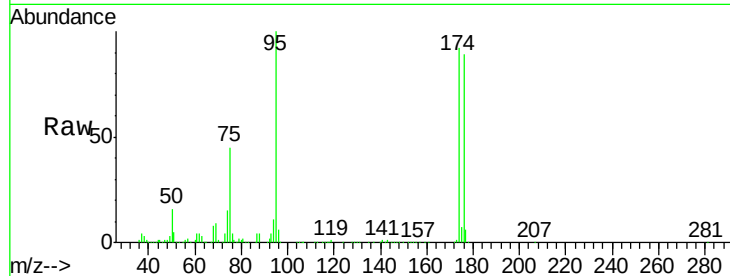




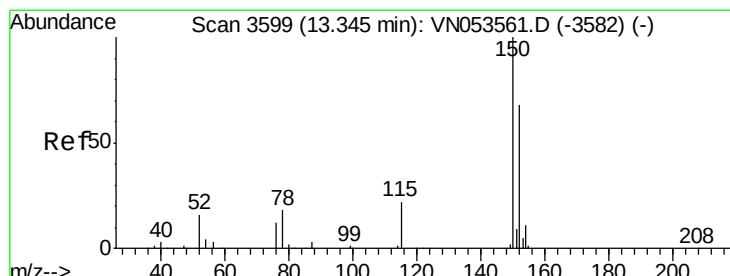
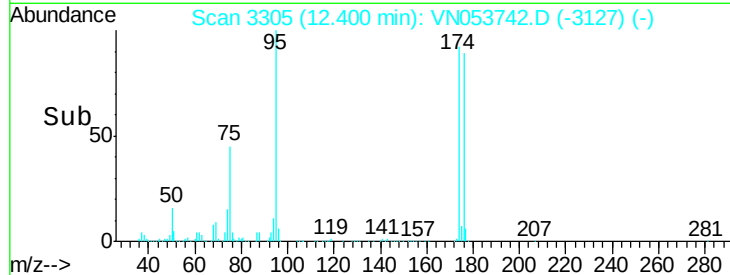
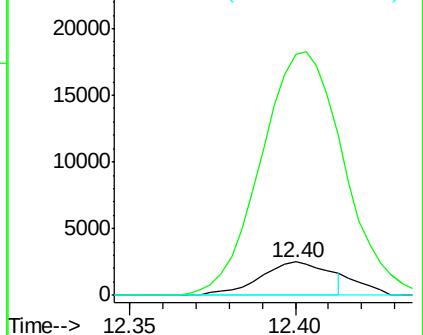
#71
 Bromoform
 Concen: 0.654 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.27 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

Instrument :
 MSVOA_N
 ClientSampled :
 TP-3-D

Tot Ion:173 Resp: 3639
 Ion Ratio Lower Upper
 173 100
 175 747.8 24.6 74.0#
 254 0.0 0.2 0.2#

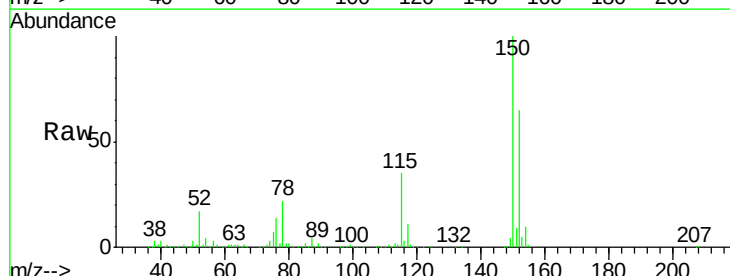


Abundance Ion 172.70 (172.40 to 173.40): V
 Ion 174.70 (174.40 to 175.40): V
 Ion 254.40 (254.10 to 255.10): V

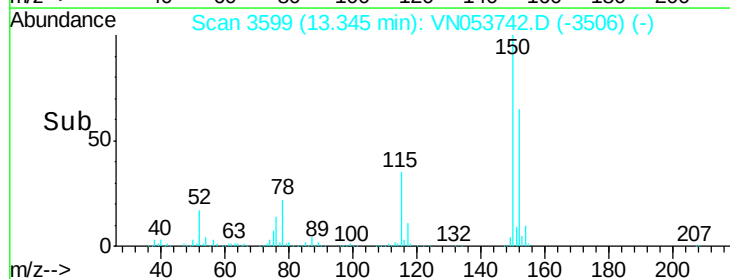
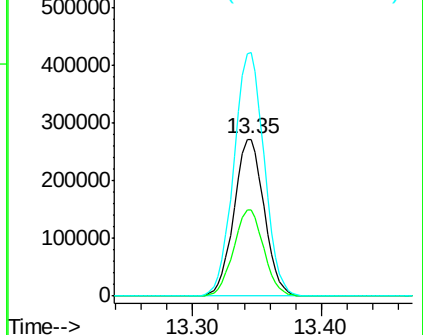


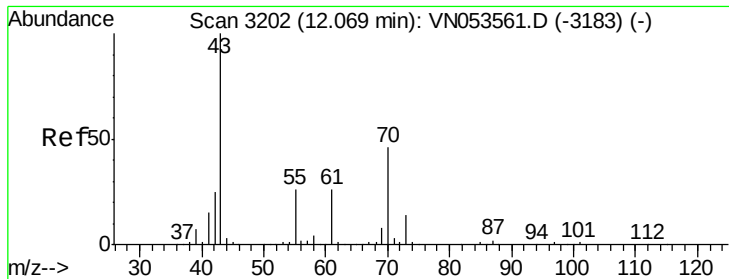
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN053742.D
 Acq: 12 Feb 2019 20:28

Tgt Ion:152 Resp: 440979
 Ion Ratio Lower Upper
 152 100
 115 55.1 27.8 83.4
 150 156.1 0.0 349.0



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: 2.866 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampled :

TP-3-D

Tot Ion: 43 Resp: 21366

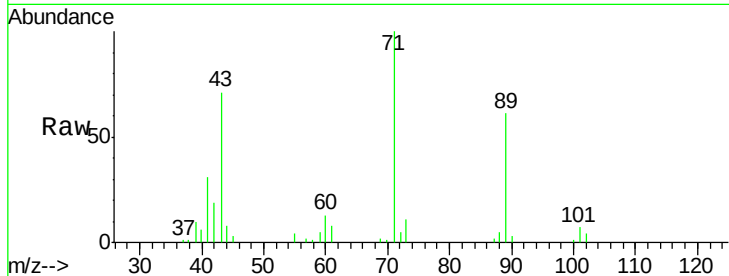
Ion Ratio Lower Upper

43 100

70 1.5 35.4 53.2#

55 5.2 20.9 31.3#

61 11.0 20.5 30.7#

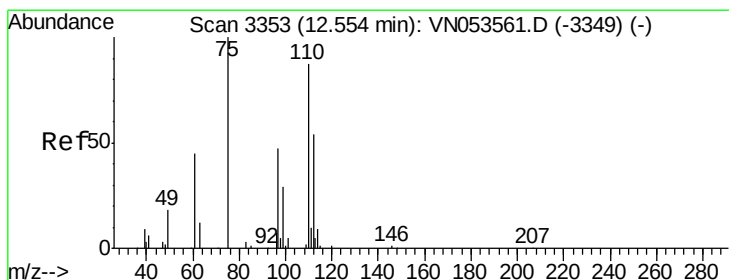
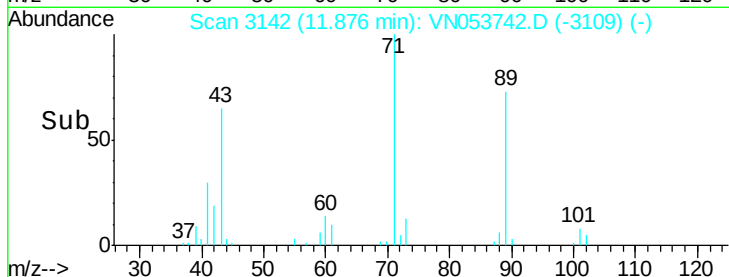
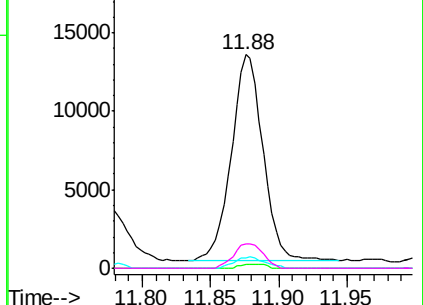


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 38.364 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053742.D

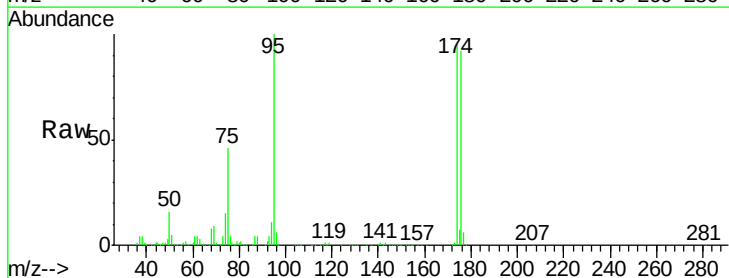
Acq: 12 Feb 2019 20:28

Tgt Ion: 75 Resp: 217298

Ion Ratio Lower Upper

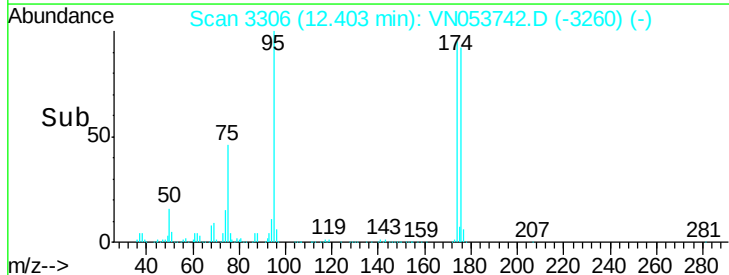
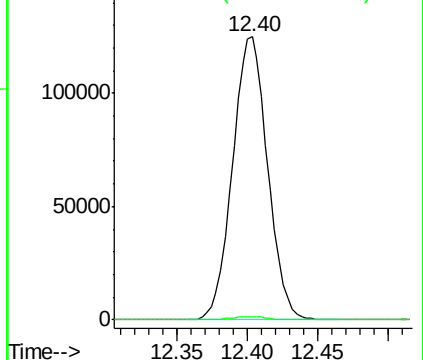
75 100

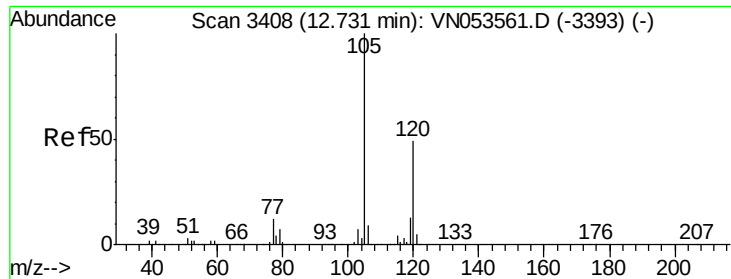
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.444 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampleId :

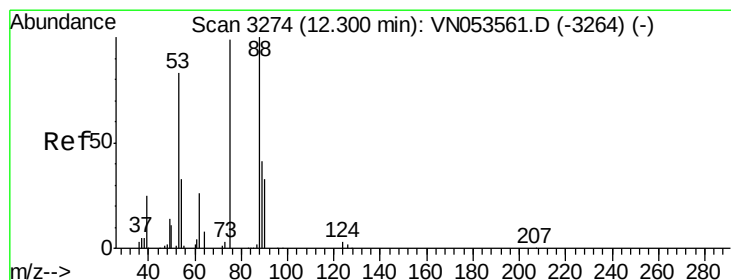
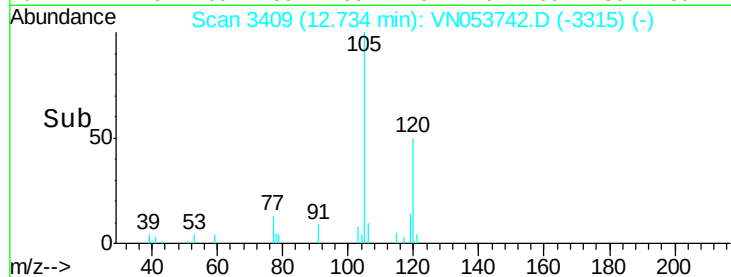
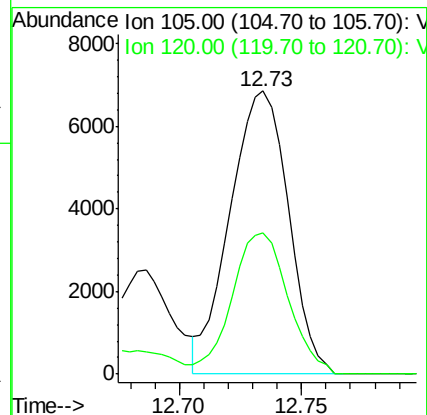
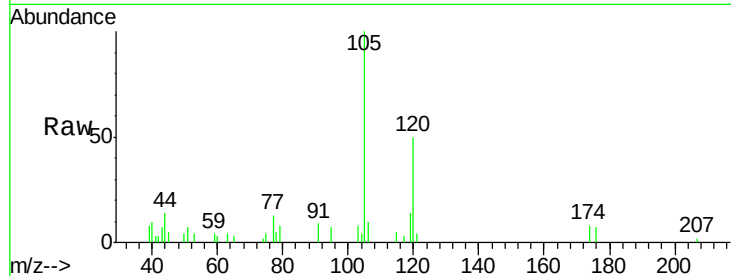
TP-3-D

Tot Ion:105 Resp: 11417

Ion Ratio Lower Upper

105 100

120 47.7 24.9 74.6



#81

trans-1,4-Dichloro-2-butene

Concen: 107.877 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

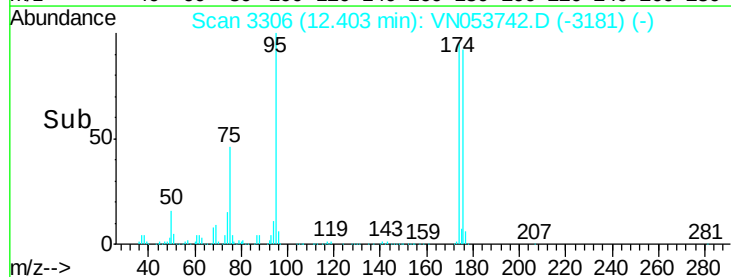
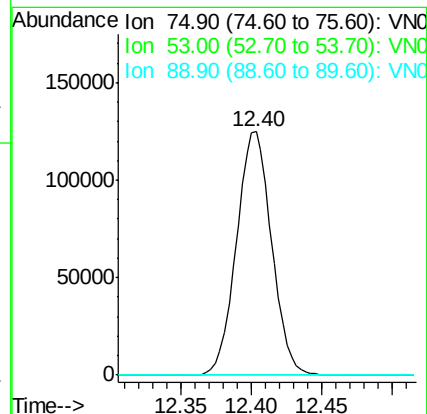
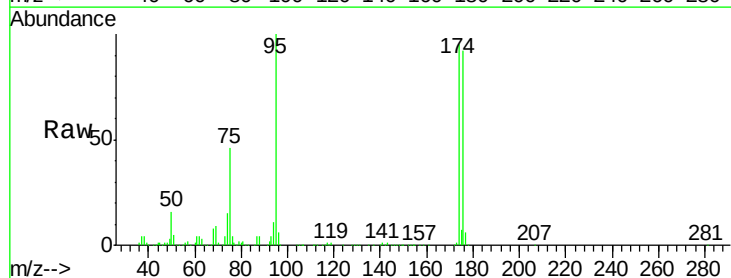
Tgt Ion: 75 Resp: 217298

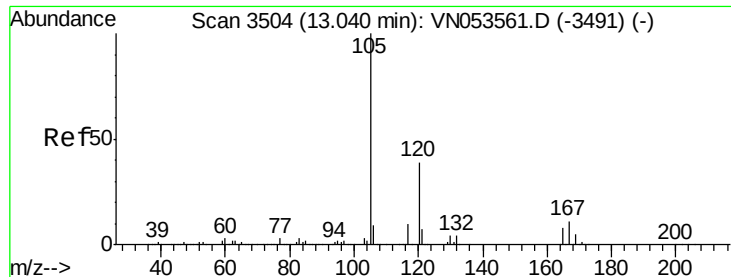
Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.682 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

Instrument :

MSVOA_N

ClientSampled :

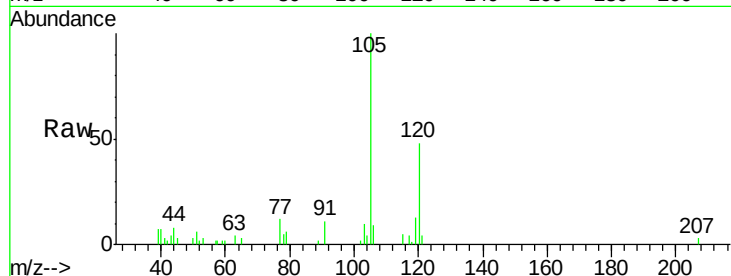
TP-3-D

Tot Ion:105 Resp: 17857

Ion Ratio Lower Upper

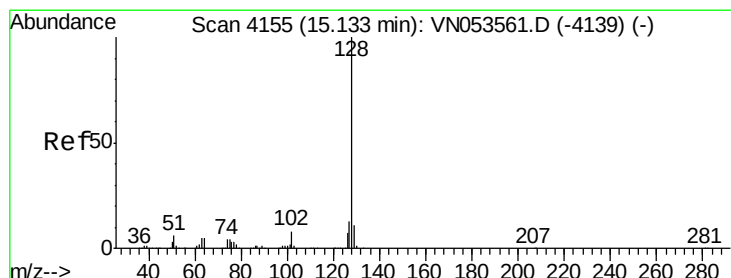
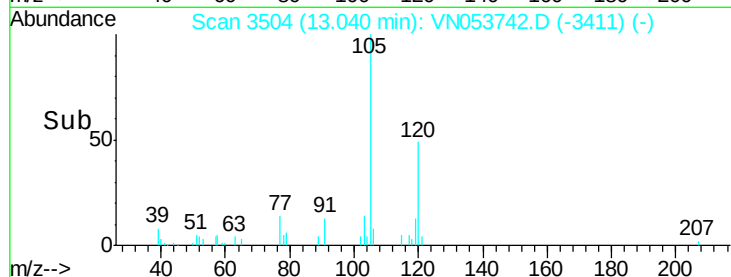
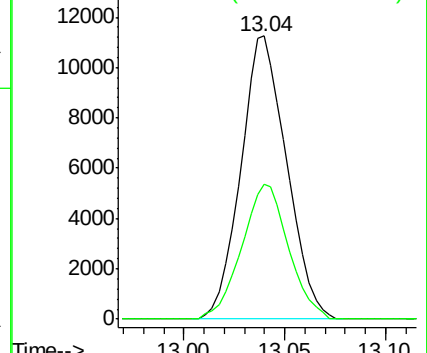
105 100

120 48.5 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 2.907 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053742.D

Acq: 12 Feb 2019 20:28

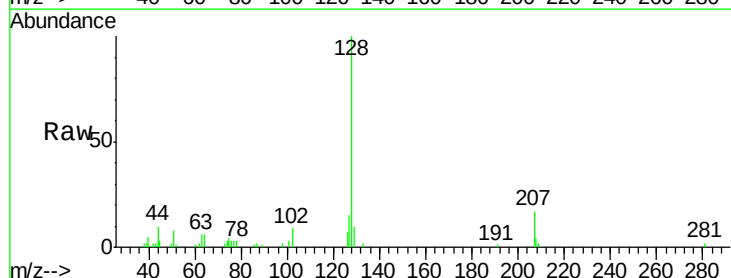
Tgt Ion:128 Resp: 23502

Ion Ratio Lower Upper

128 100

127 13.6 10.3 15.5

129 10.1 8.6 13.0



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

