

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022619\
 Data File : VN053951.D
 Acq On : 26 Feb 2019 13:30
 Operator : JC/SP
 Sample : K1605-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 N48966

Quant Time: Feb 27 02:25:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	618924	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1093174	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1058131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	374835	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	390515	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
35) Dibromofluoromethane	7.59	113	359259	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
50) Toluene-d8	10.09	98	1387212	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
62) 4-Bromofluorobenzene	12.40	95	450367	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	

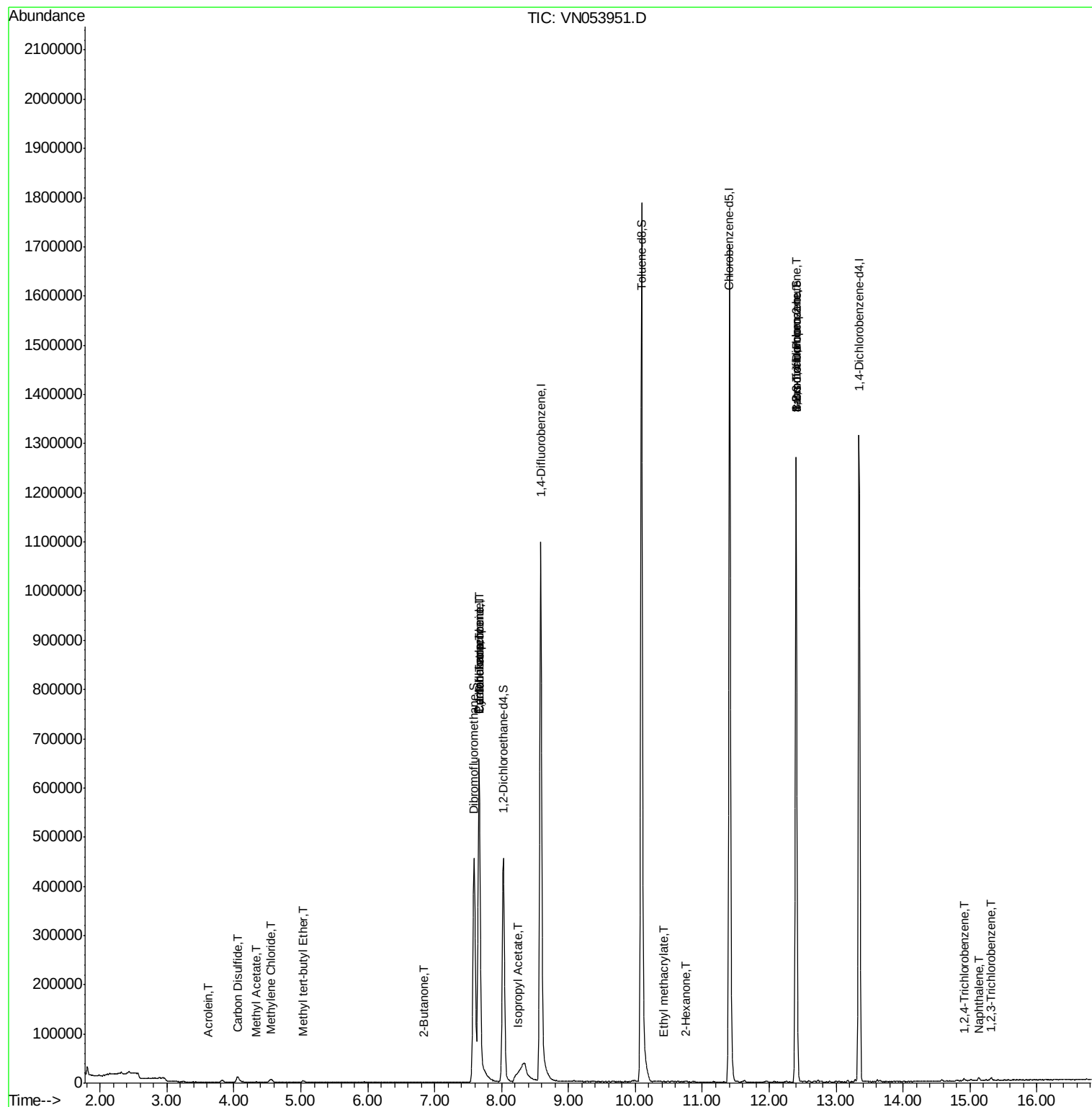
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	169	0.355	ug/l #	14
16) Acetone	3.82	43	7264	Below Cal		96
17) Carbon Disulfide	4.06	76	4336	0.220	ug/l	96
18) Methyl Acetate	4.32	43	2073	0.409	ug/l #	59
19) Methyl tert-butyl Ether	5.04	73	4215	0.257	ug/l	94
20) Methylene Chloride	4.55	84	4639	0.646	ug/l #	91
25) 2-Butanone	6.85	43	1304	0.458	ug/l #	47
31) Cyclohexane	7.66	56	10746	0.521	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	42360	4.167	ug/l #	46
38) Carbon Tetrachloride	7.66	117	52406	4.957	ug/l #	17
43) Isopropyl Acetate	8.24	43	19460	1.588	ug/l #	58
56) Ethyl methacrylate	10.44	69	74	1.963	ug/l #	1
59) 2-Hexanone	10.75	43	2031	0.496	ug/l #	53
71) Bromoform	12.41	173	3247	0.580	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	217409	36.156	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	217409	114.277	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	1791	2.471	ug/l	94
95) Naphthalene	15.13	128	5282	3.545	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.32	180	2776	1.965	ug/l	84

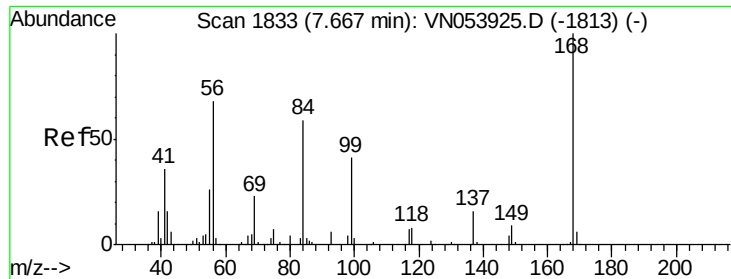
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

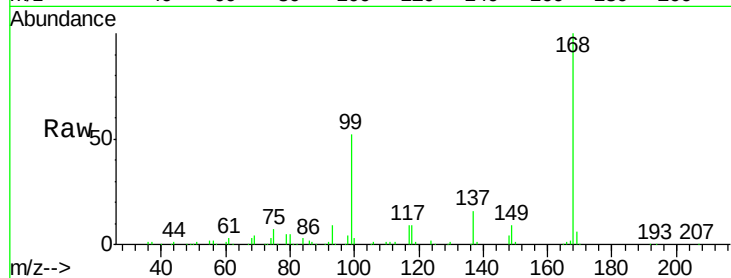
N48966

Tot Ion:168 Resp: 618924

Ion Ratio Lower Upper

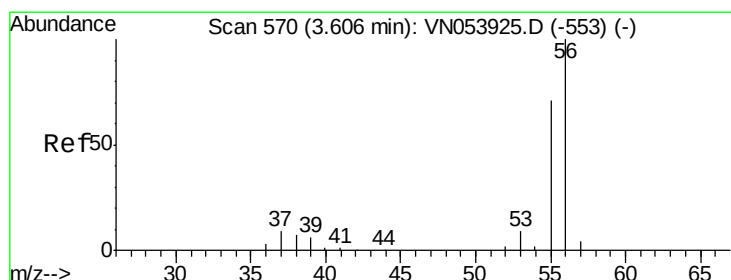
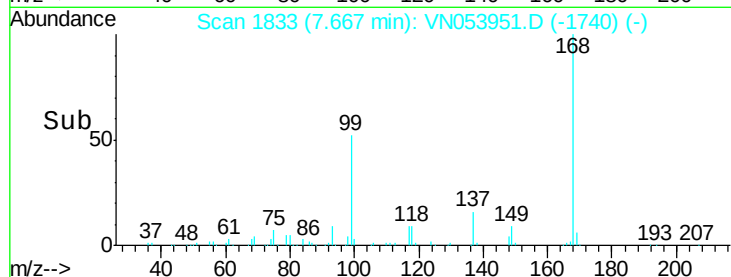
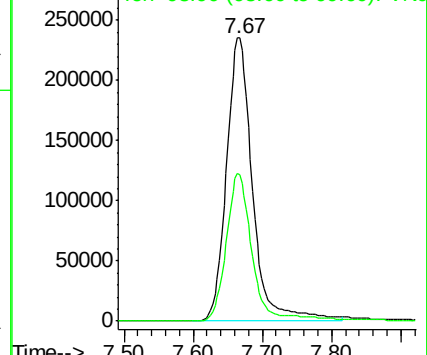
168 100

99 51.5 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 0.355 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053951.D

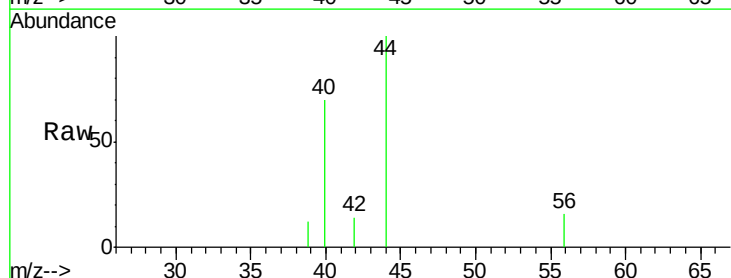
Acq: 26 Feb 2019 13:30

Tgt Ion: 56 Resp: 169

Ion Ratio Lower Upper

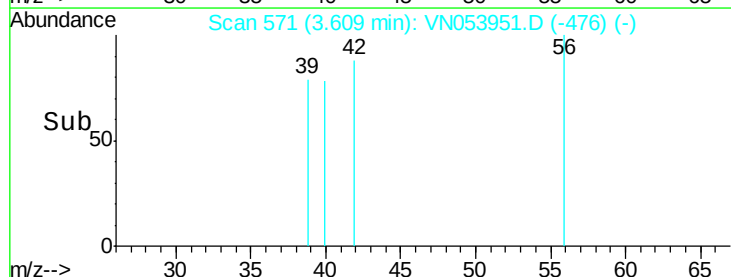
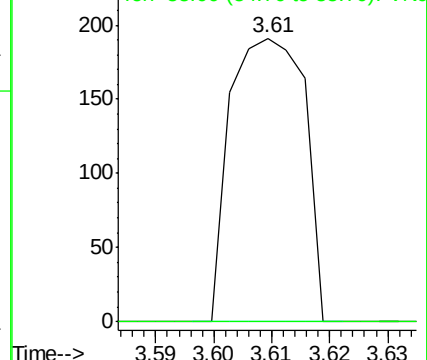
56 100

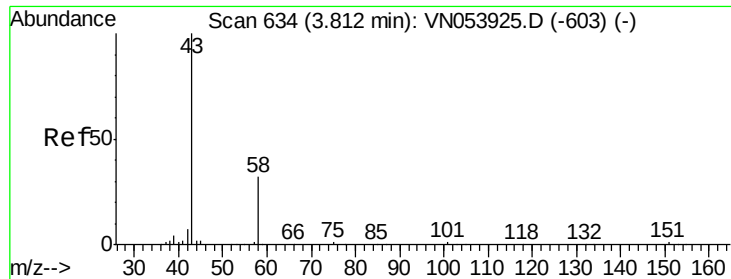
55 0.0 56.3 84.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

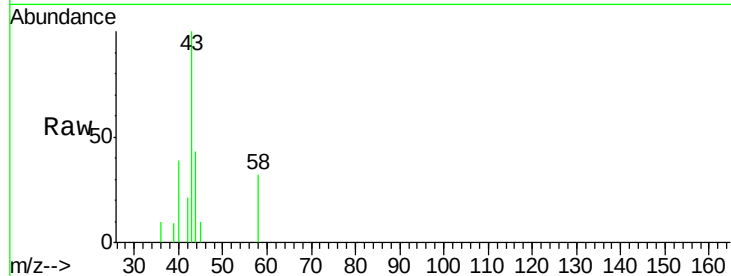
N48966

Tot Ion: 43 Resp: 7264

Ion Ratio Lower Upper

43 100

58 32.0 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

2500

2000

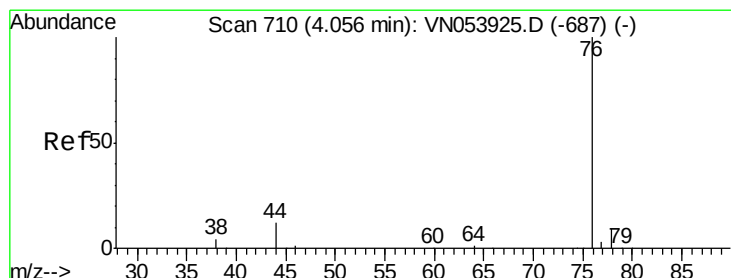
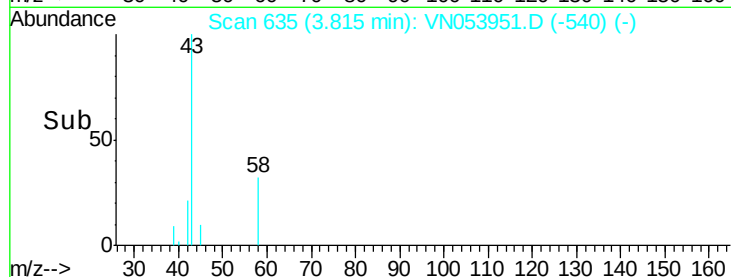
1500

1000

500

0

Time--> 3.70 3.75 3.80 3.85 3.90



#17

Carbon Disulfide

Concen: 0.220 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053951.D

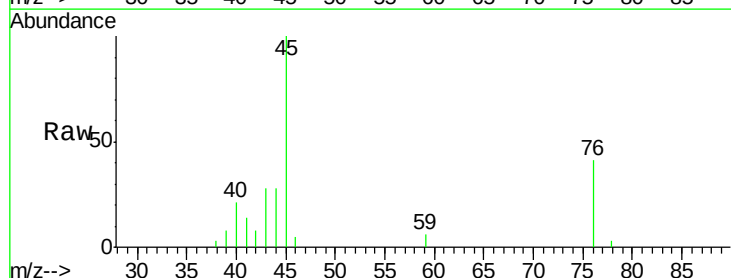
Acq: 26 Feb 2019 13:30

Tgt Ion: 76 Resp: 4336

Ion Ratio Lower Upper

76 100

78 7.9 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.06

2000

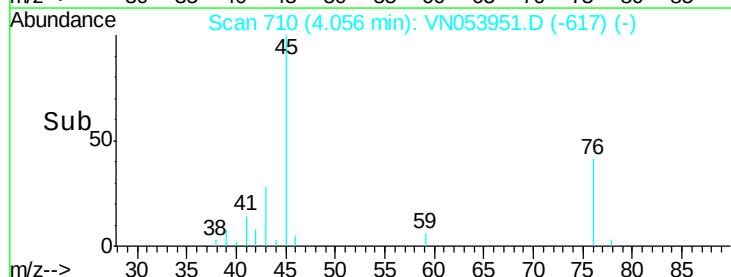
1500

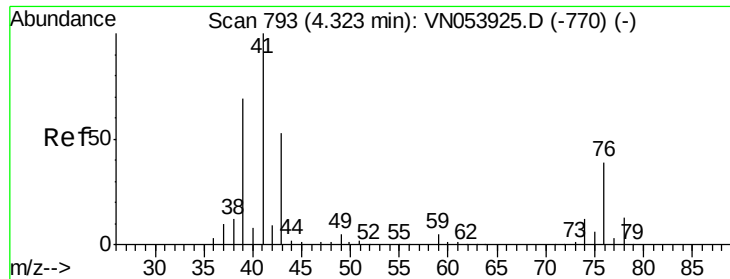
1000

500

0

Time--> 4.00 4.05 4.10

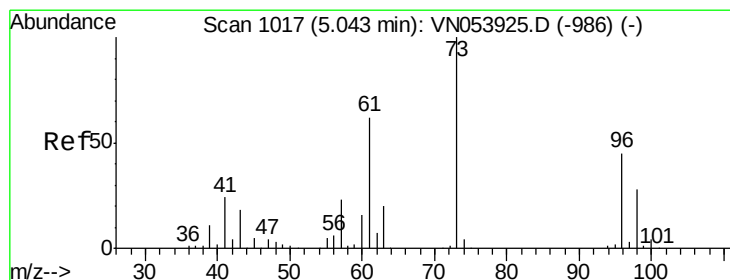
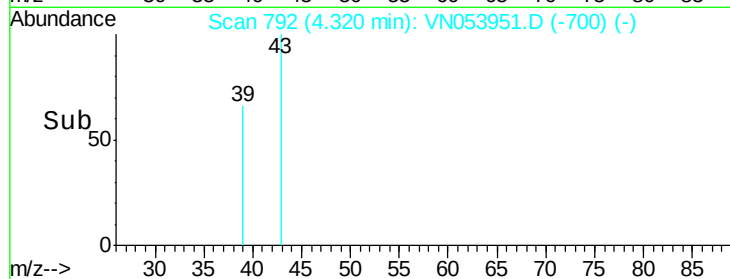
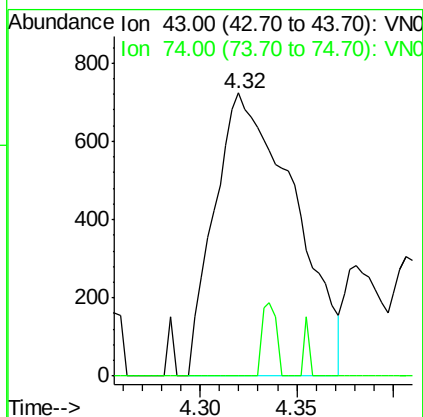
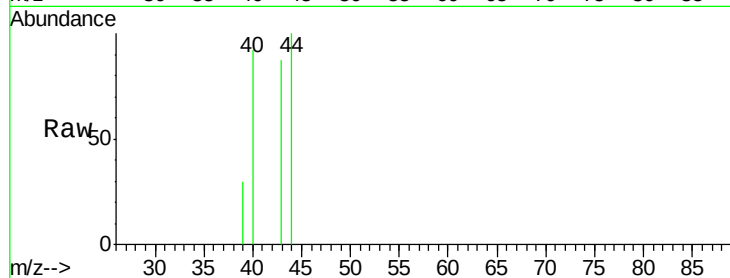




#18
Methyl Acetate
Concen: 0.409 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN053951.D
Acq: 26 Feb 2019 13:30

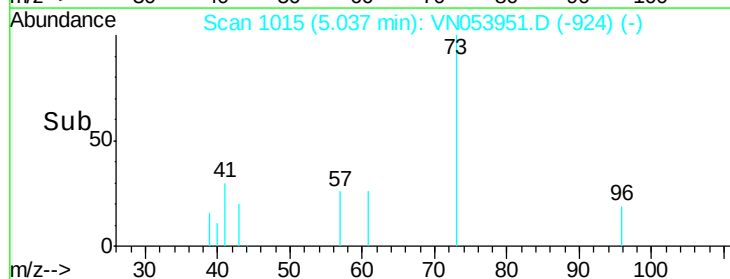
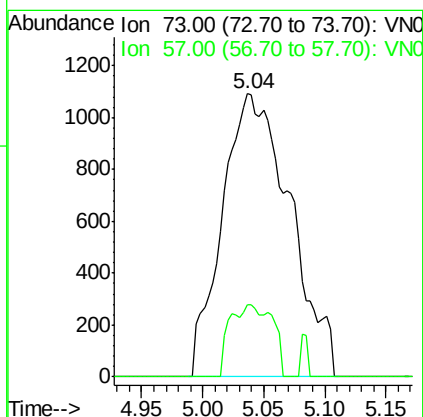
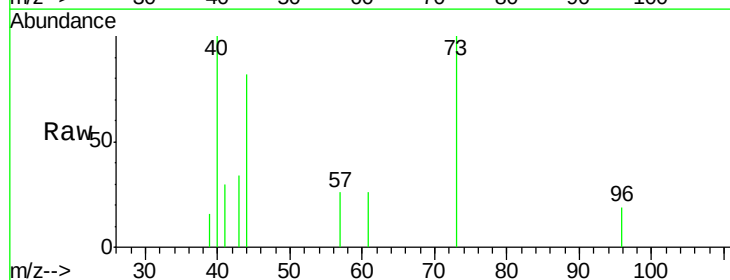
Instrument :
MSVOA_N
ClientSampled :
N48966

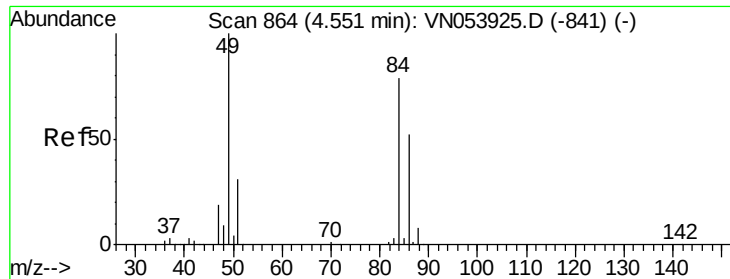
Tot Ion: 43 Resp: 2073
Ion Ratio Lower Upper
43 100
74 4.7 20.5 30.7#



#19
Methyl tert-butyl Ether
Concen: 0.257 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VN053951.D
Acq: 26 Feb 2019 13:30

Tgt Ion: 73 Resp: 4215
Ion Ratio Lower Upper
73 100
57 25.5 18.0 27.0

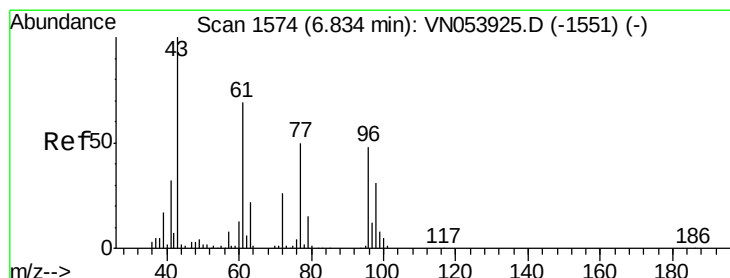
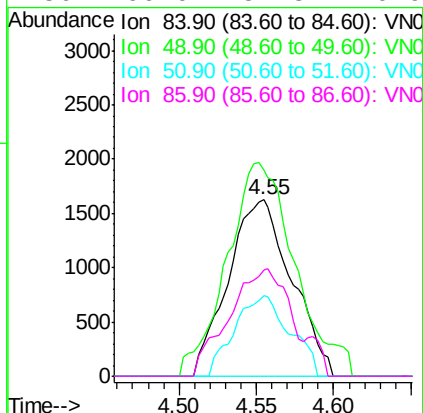
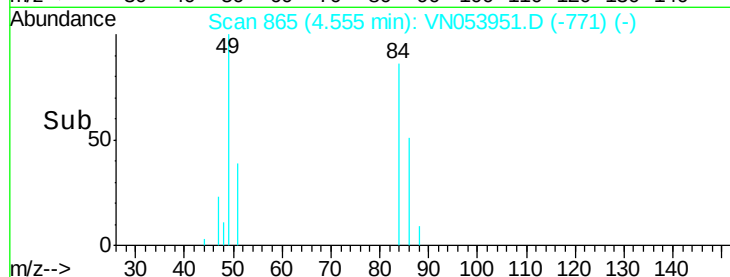
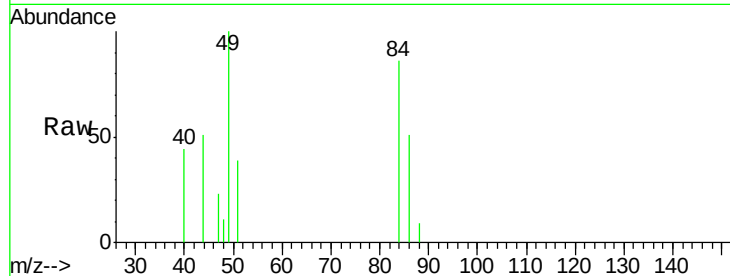




#20
Methylene Chloride
Concen: 0.646 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053951.D
Acq: 26 Feb 2019 13:30

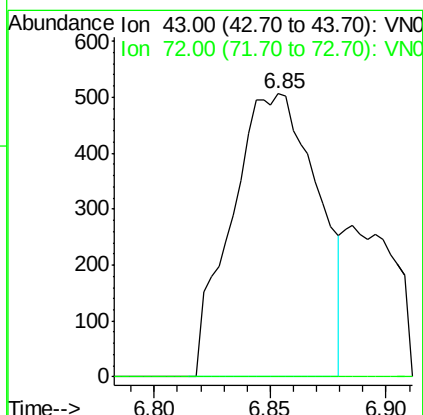
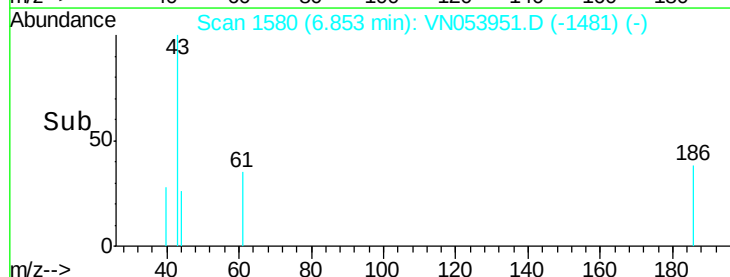
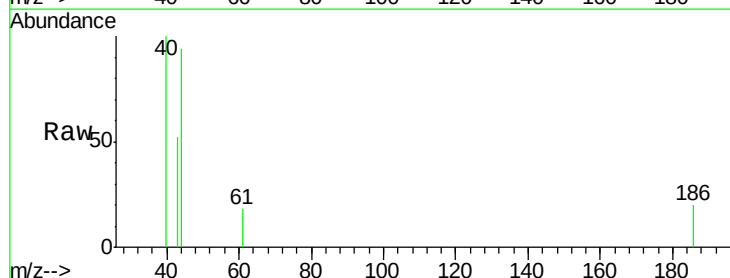
Instrument :
MSVOA_N
ClientSampleId :
N48966

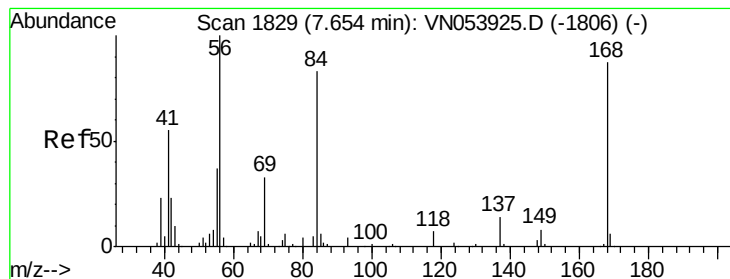
Tot Ion: 84 Resp: 4639
Ion Ratio Lower Upper
84 100
49 103.9 89.7 134.5
51 46.0 27.8 41.8#
86 60.0 51.3 76.9



#25
2-Butanone
Concen: 0.458 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN053951.D
Acq: 26 Feb 2019 13:30

Tgt Ion: 43 Resp: 1304
Ion Ratio Lower Upper
43 100
72 0.0 22.1 33.1#





#31

Cyclohexane

Concen: 0.521 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

N48966

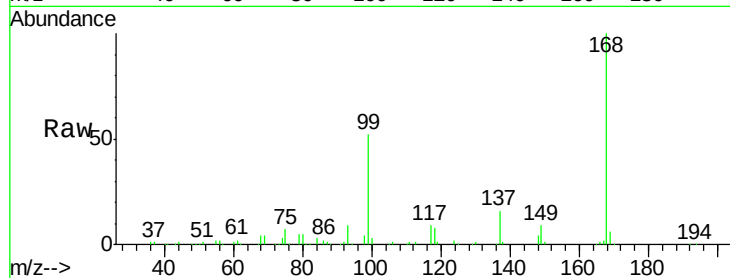
Tot Ion: 56 Resp: 10746

Ion Ratio Lower Upper

56 100

69 183.3 26.0 39.0#

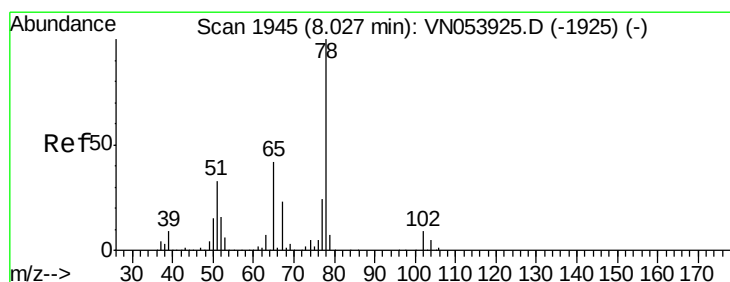
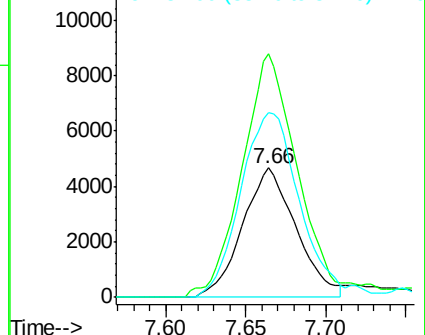
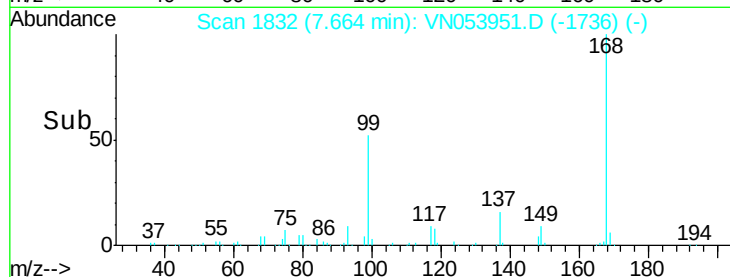
84 142.2 69.1 103.7#



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: 53.826 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN053951.D

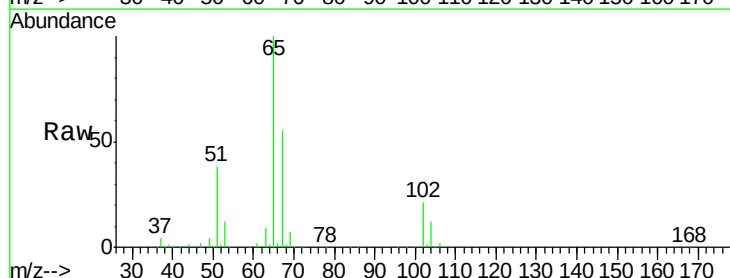
Acq: 26 Feb 2019 13:30

Tgt Ion: 65 Resp: 390515

Ion Ratio Lower Upper

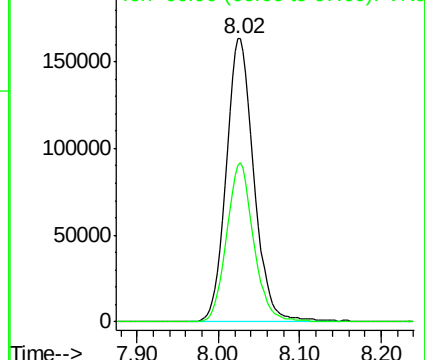
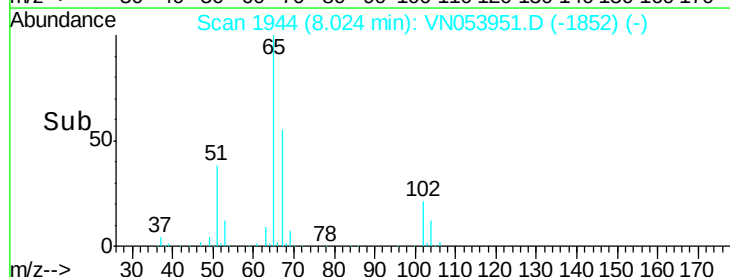
65 100

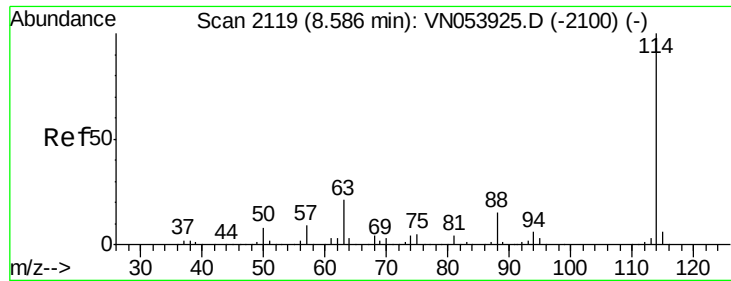
67 54.8 0.0 111.8



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: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

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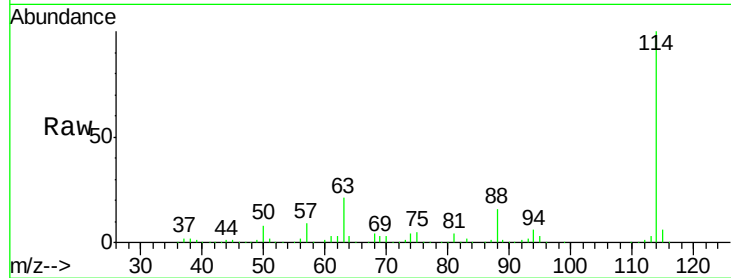
Tot Ion:114 Resp: 1093174

Ion Ratio Lower Upper

114 100

63 20.7 0.0 37.4

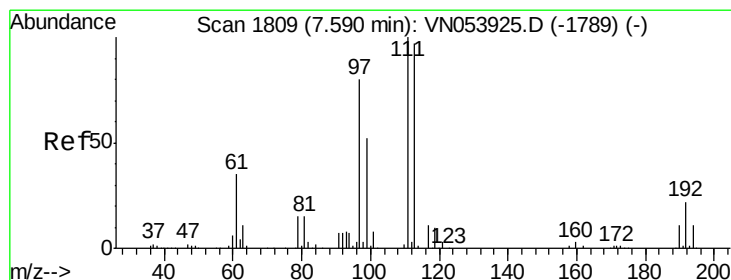
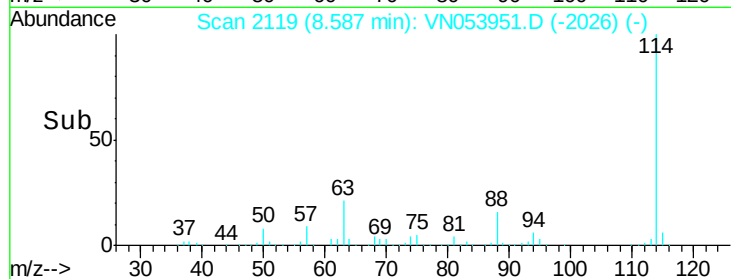
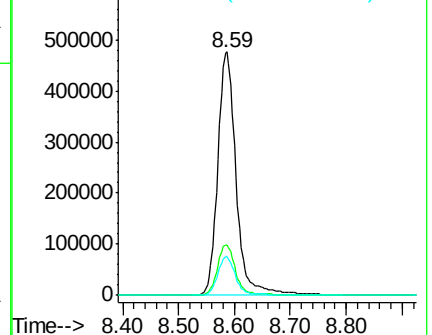
88 16.1 0.0 30.4



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: 50.821 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

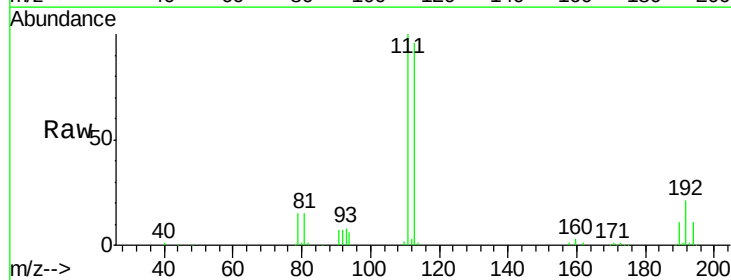
Tgt Ion:113 Resp: 359259

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

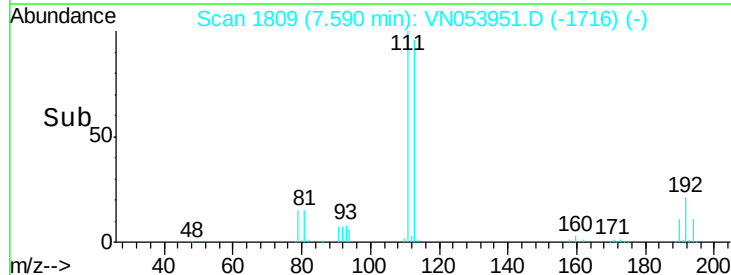
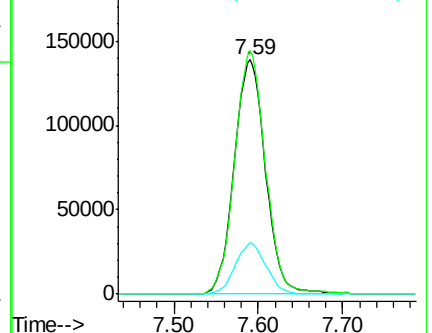
192 21.7 18.8 28.2

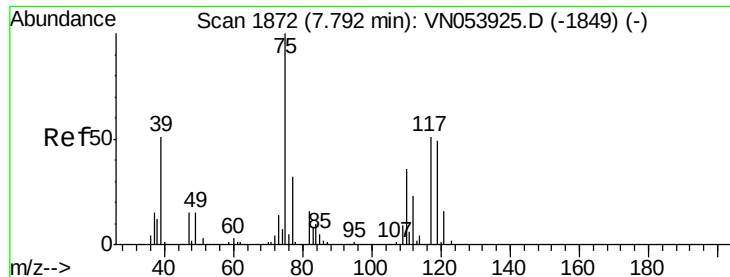


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

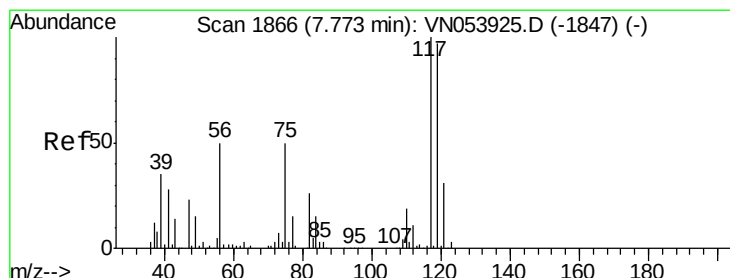
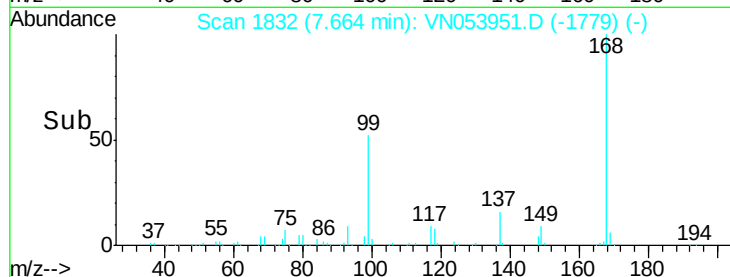
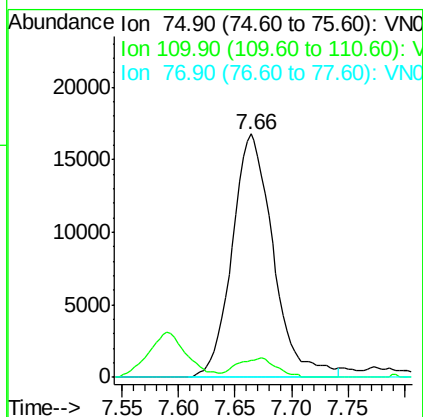
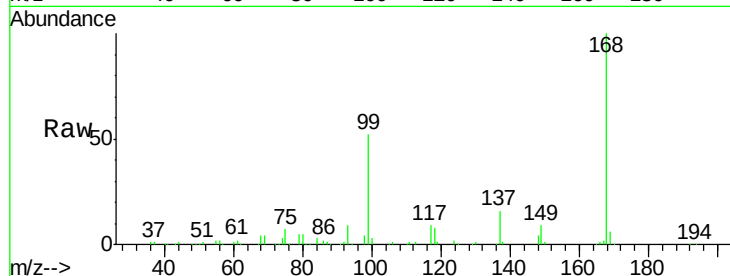




#36
 1,1-Dichloropropene
 Concen: 4.167 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053951.D
 Acq: 26 Feb 2019 13:30

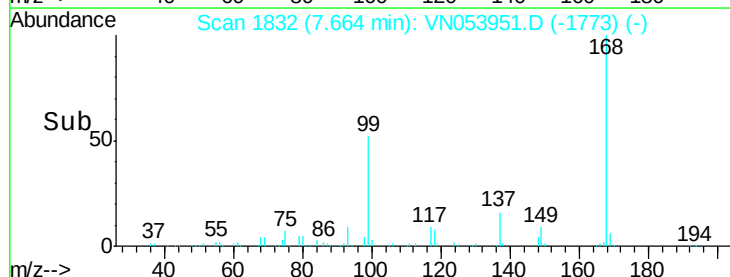
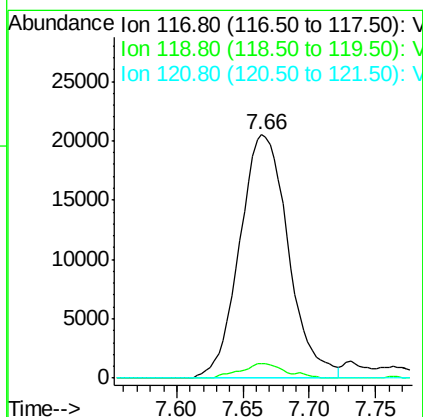
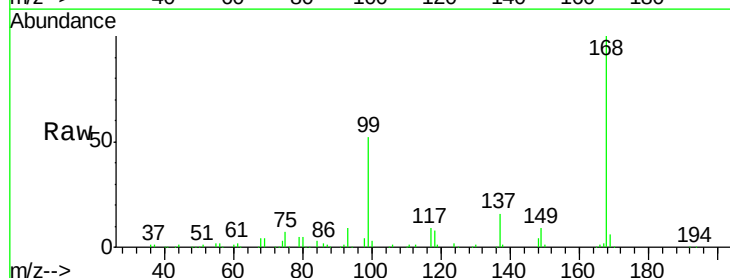
Instrument :
 MSVOA_N
 ClientSampled :
 N48966

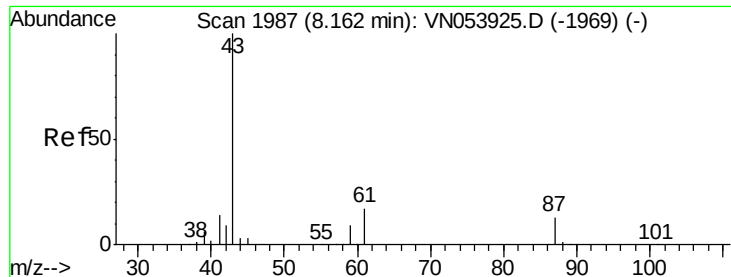
Tot Ion: 75 Resp: 42360
 Ion Ratio Lower Upper
 75 100
 110 7.5 19.0 57.0#
 77 0.0 25.4 38.0#



#38
 Carbon Tetrachloride
 Concen: 4.957 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN053951.D
 Acq: 26 Feb 2019 13:30

Tgt Ion: 117 Resp: 52406
 Ion Ratio Lower Upper
 117 100
 119 6.0 76.2 114.2#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 1.588 ug/l

RT: 8.24 min Scan# 2012

Delta R.T. 0.08 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

N48966

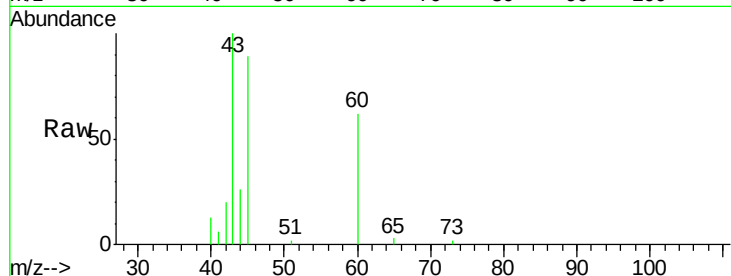
Tot Ion: 43 Resp: 19460

Ion Ratio Lower Upper

43 100

61 0.0 17.4 26.0#

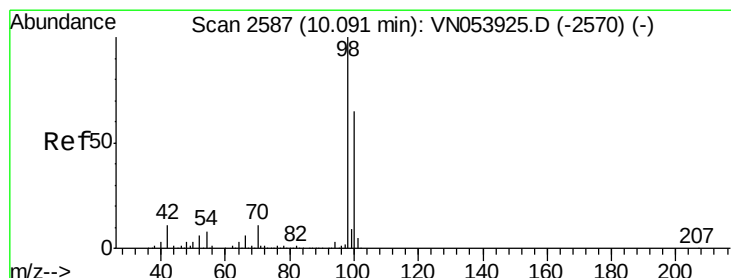
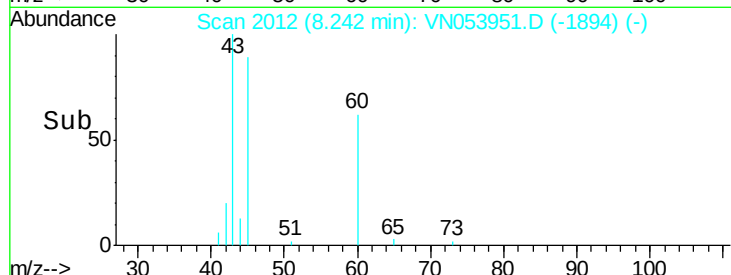
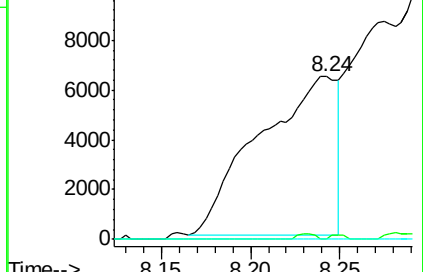
87 0.0 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VN053951.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN053951.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN053951.D (-1894) (-)



#50

Toluene-d8

Concen: 52.715 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053951.D

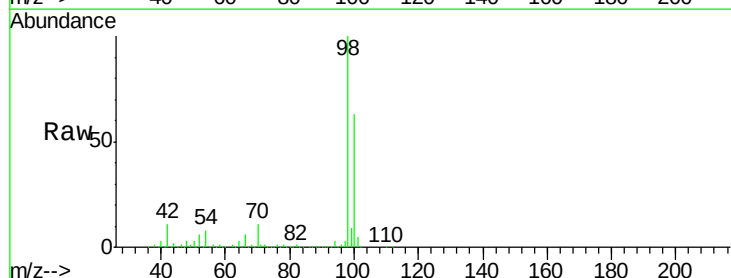
Acq: 26 Feb 2019 13:30

Tgt Ion: 98 Resp: 1387212

Ion Ratio Lower Upper

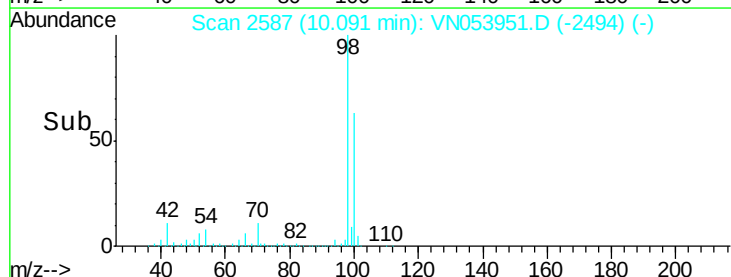
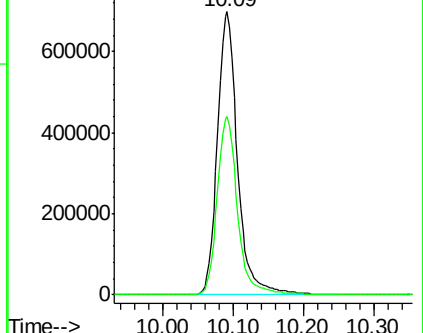
98 100

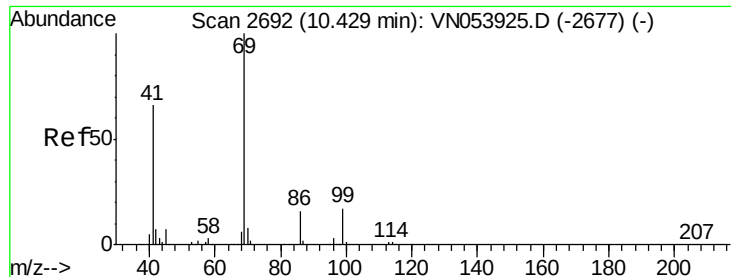
100 63.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN053951.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053951.D (-2494) (-)

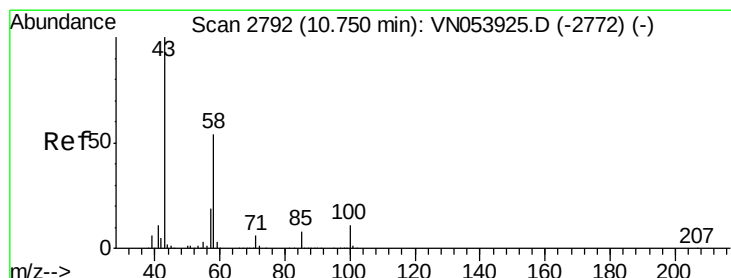
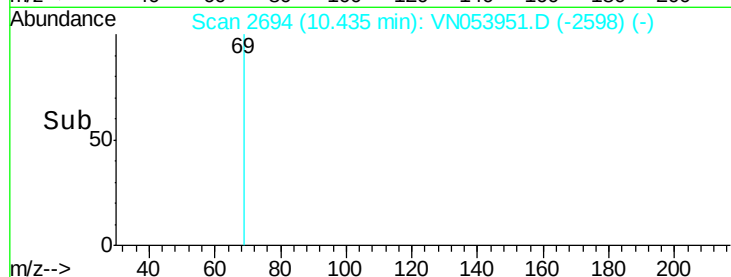
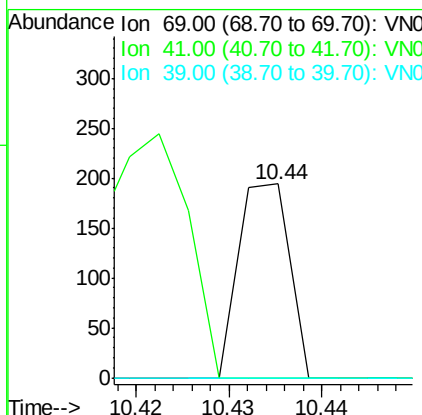
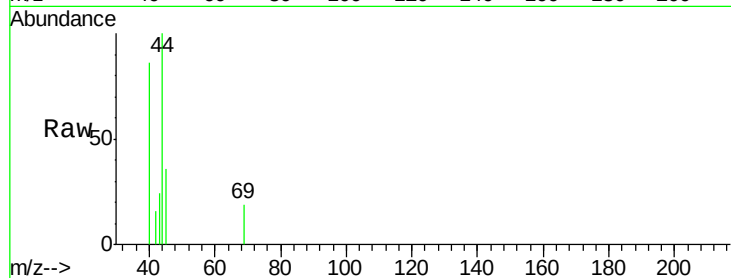




#56
Ethyl methacrylate
Concen: 1.963 ug/l
RT: 10.44 min Scan# 2694
Delta R.T. 0.01 min
Lab File: VN053951.D
Acq: 26 Feb 2019 13:30

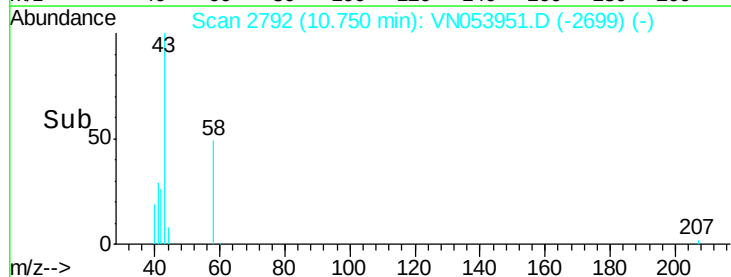
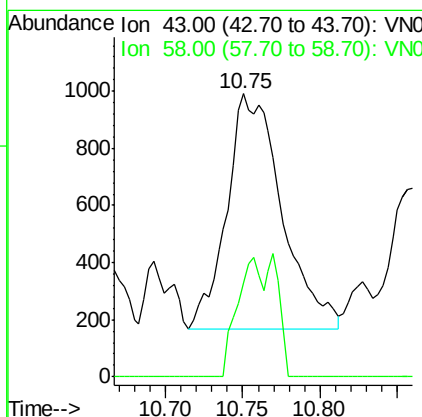
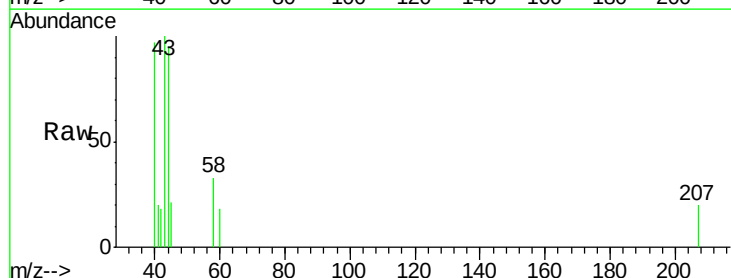
Instrument :
MSVOA_N
ClientSampled :
N48966

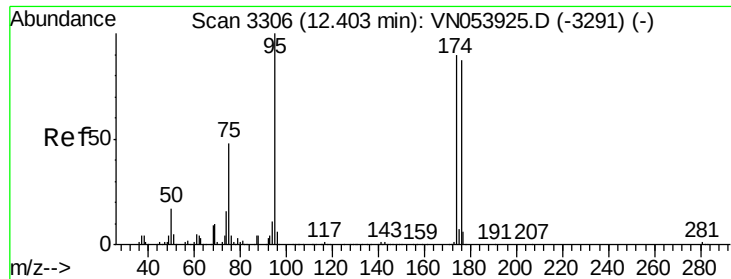
Tot Ion: 69 Resp: 74
Ion Ratio Lower Upper
69 100
41 206.8 47.5 71.3#
39 0.0 23.4 35.0#



#59
2-Hexanone
Concen: 0.496 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053951.D
Acq: 26 Feb 2019 13:30

Tgt Ion: 43 Resp: 2031
Ion Ratio Lower Upper
43 100
58 23.1 29.1 87.4#





#62

4-Bromofluorobenzene

Concen: 51.368 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

N48966

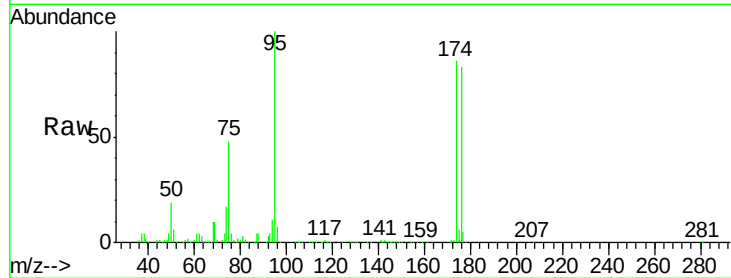
Tot Ion: 95 Resp: 450367

Ion Ratio Lower Upper

95 100

174 88.3 0.0 188.8

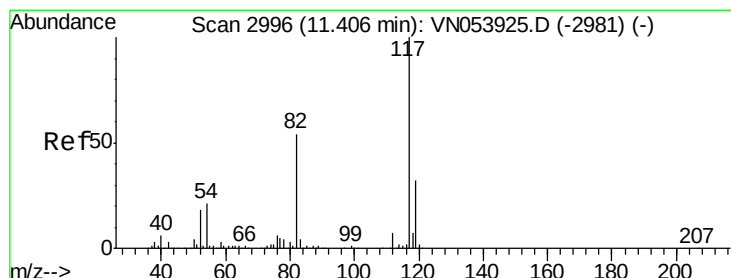
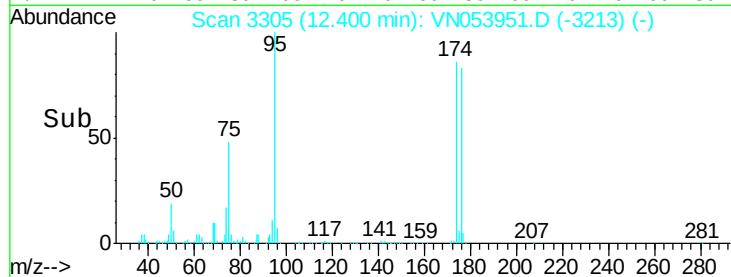
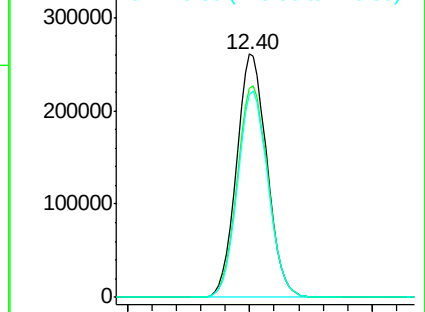
176 84.9 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN053925.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053925.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053925.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

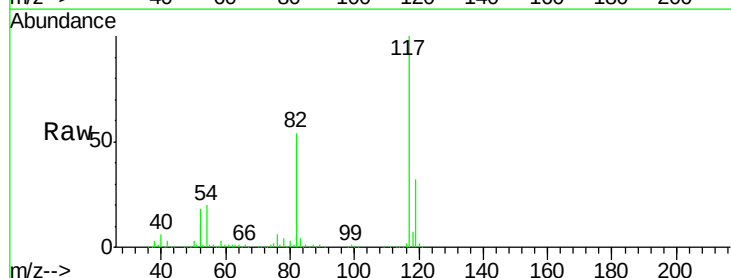
Tgt Ion: 117 Resp: 1058131

Ion Ratio Lower Upper

117 100

82 54.3 41.4 62.2

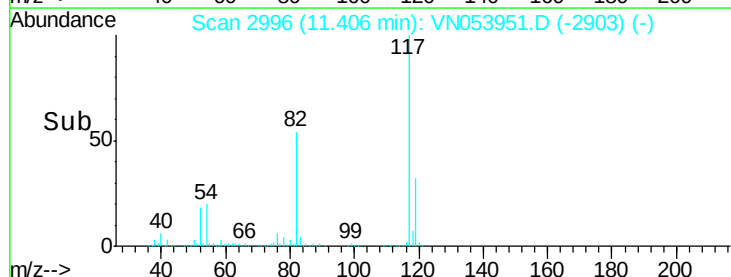
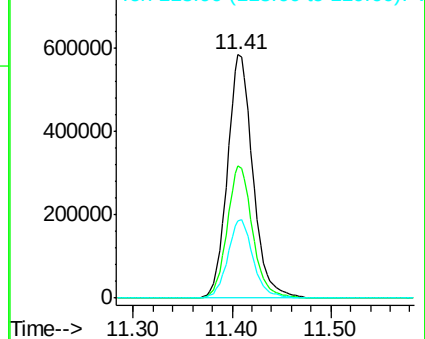
119 31.9 25.3 37.9

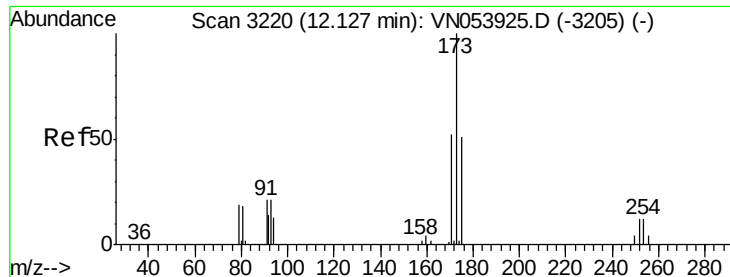


Abundance Ion 116.90 (116.60 to 117.60): VN053925.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN053925.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN053925.D (-2981) (-)





#71

Bromoform

Concen: 0.580 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

N48966

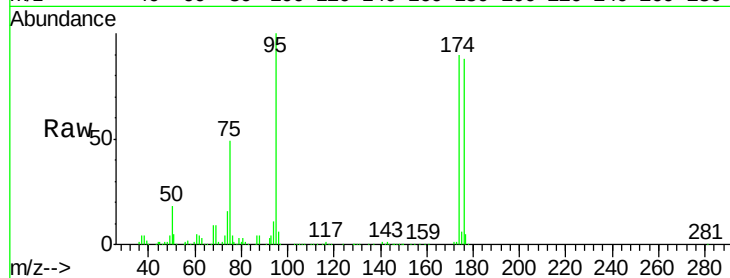
Tot Ion:173 Resp: 3247

Ion Ratio Lower Upper

173 100

175 744.6 24.3 72.8#

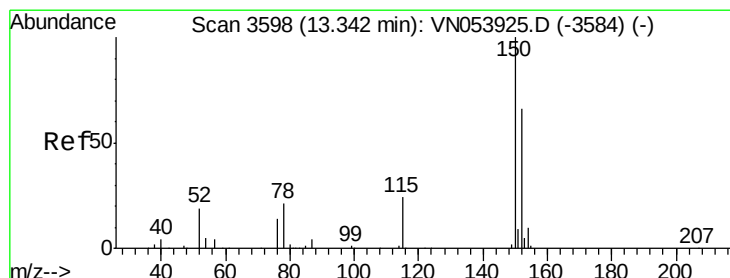
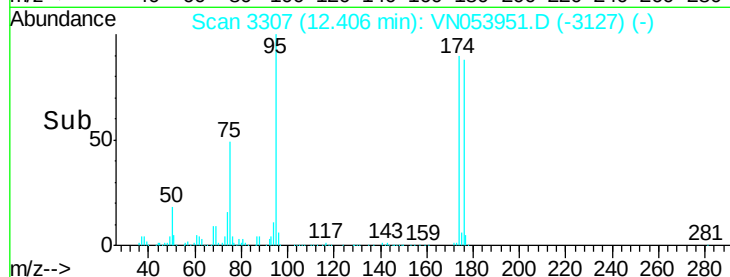
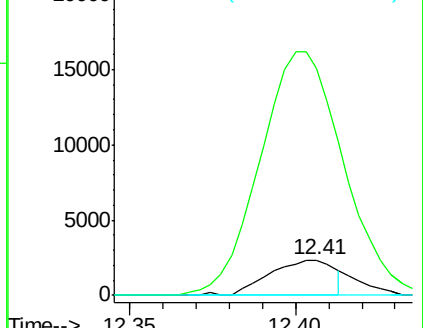
254 0.0 0.2 0.2#



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: VN053951.D

Acq: 26 Feb 2019 13:30

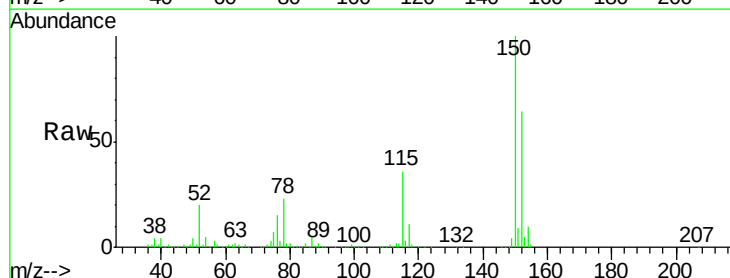
Tgt Ion:152 Resp: 374835

Ion Ratio Lower Upper

152 100

115 56.3 27.2 81.6

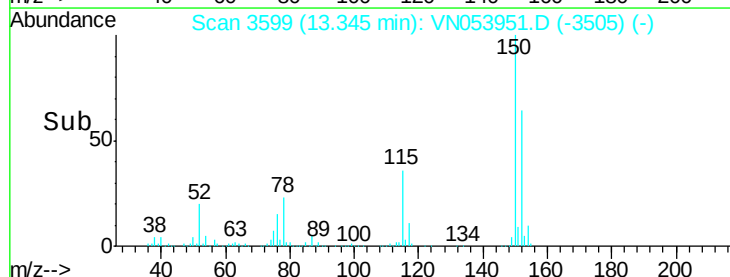
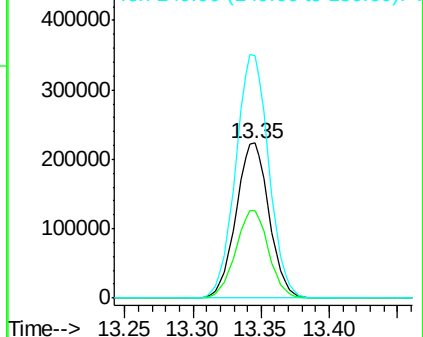
150 157.2 0.0 348.2

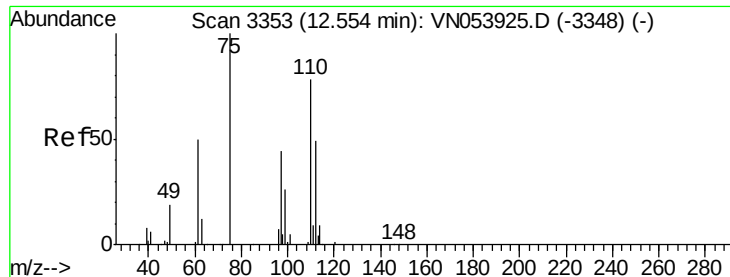


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.156 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

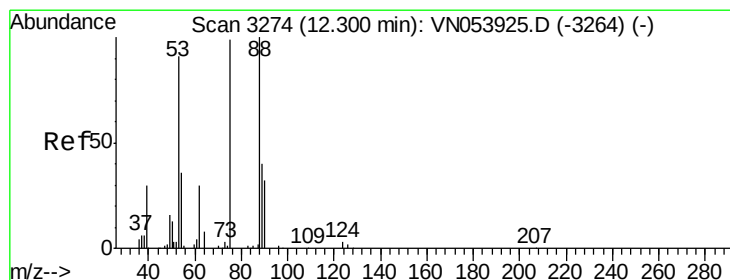
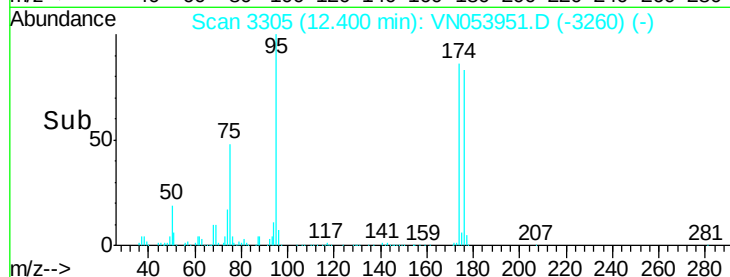
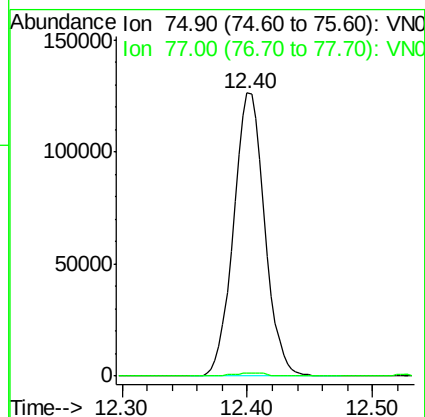
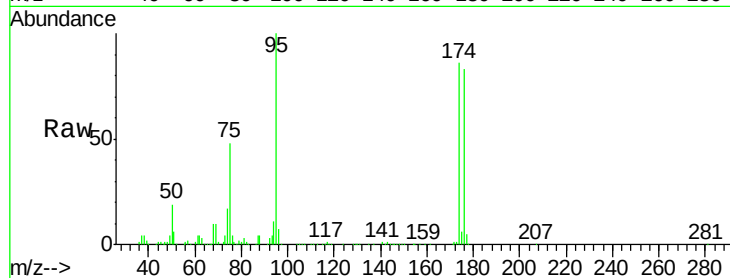
N48966

Tot Ion: 75 Resp: 217409

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 114.277 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

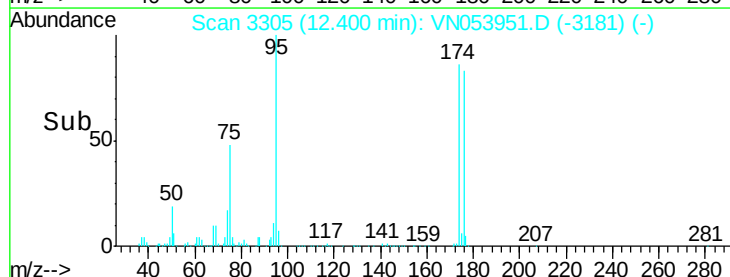
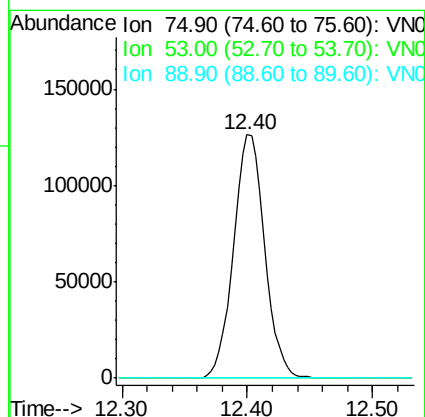
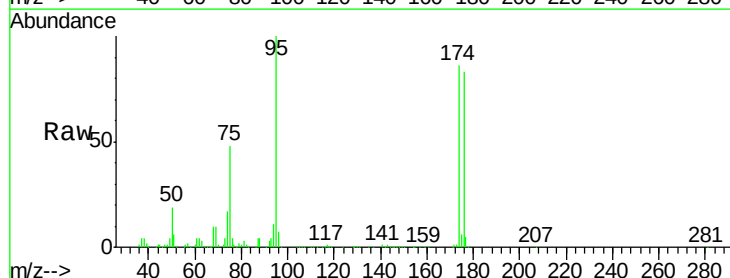
Tgt Ion: 75 Resp: 217409

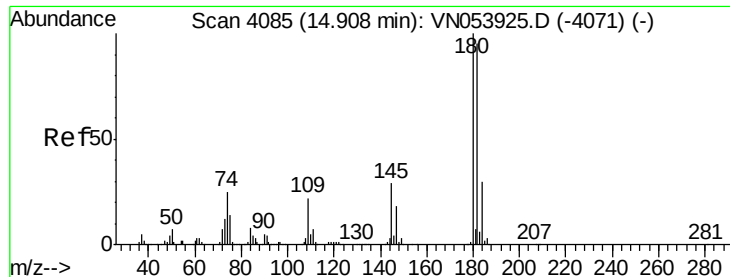
Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 35.3 52.9#





#93

1,2,4-Trichlorobenzene

Concen: 2.471 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

N48966

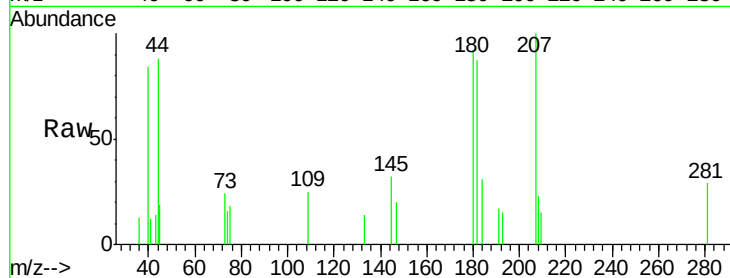
Tot Ion:180 Resp: 1791

Ion Ratio Lower Upper

180 100

182 90.0 48.6 145.9

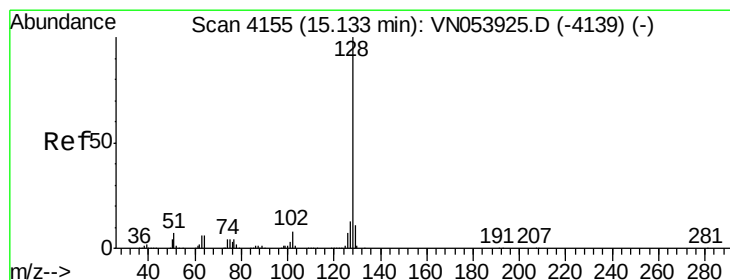
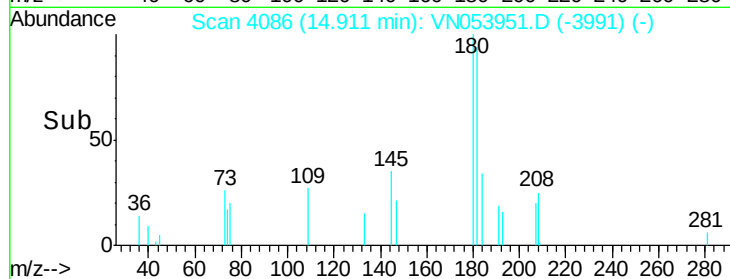
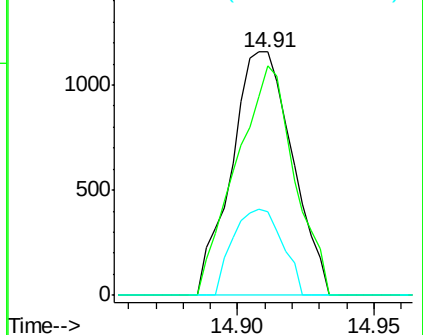
145 28.9 13.8 41.3



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: 3.545 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

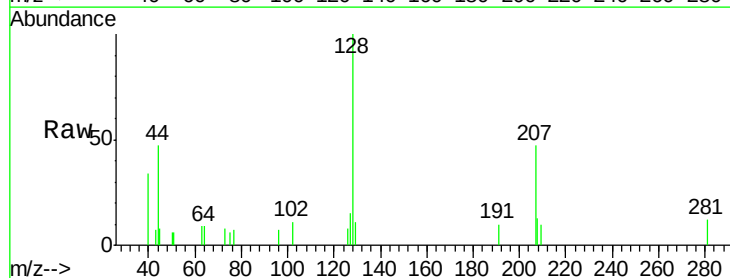
Tgt Ion:128 Resp: 5282

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.2

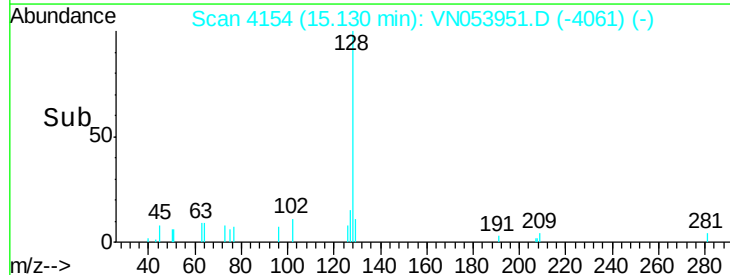
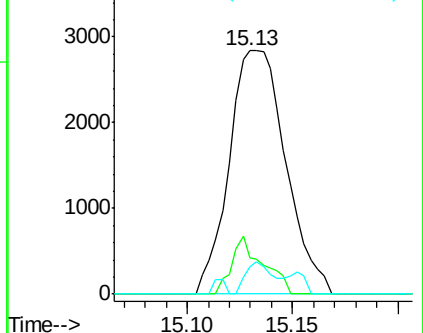
129 6.6 8.6 12.8#

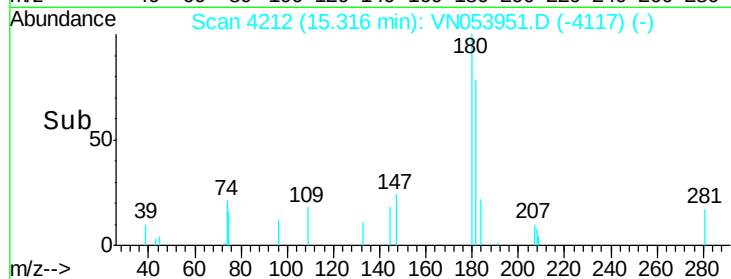
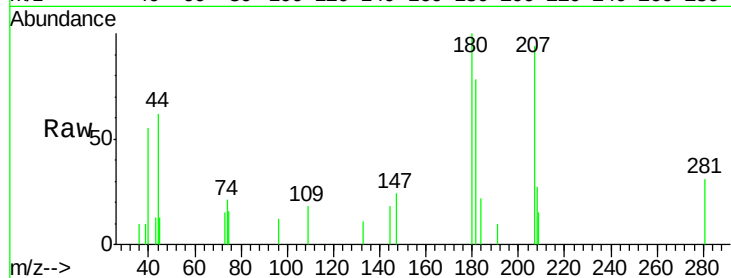
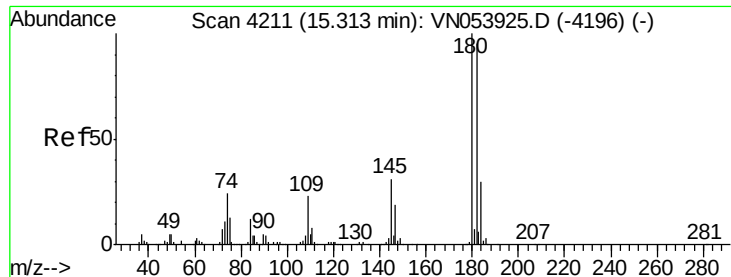


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 1.965 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053951.D

Acq: 26 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

N48966

Tot Ion:180 Resp: 2776

Ion Ratio Lower Upper

180 100

182 77.4 47.3 141.8

145 22.6 14.4 43.0

Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

