

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049804.D
 Acq On : 13 Jul 2018 18:19
 Operator : MD\SY
 Sample : PB111069ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#07

Quant Time: Jul 13 23:52:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1192186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1942925	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1595660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	595230	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	809101	58.34	ug/l	0.00
Spiked Amount			Recovery	=	116.68%	
35) Dibromofluoromethane	7.59	113	729553	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
50) Toluene-d8	10.09	98	2587993	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.40	95	711434	39.73	ug/l	0.00
Spiked Amount			Recovery	=	79.46%	

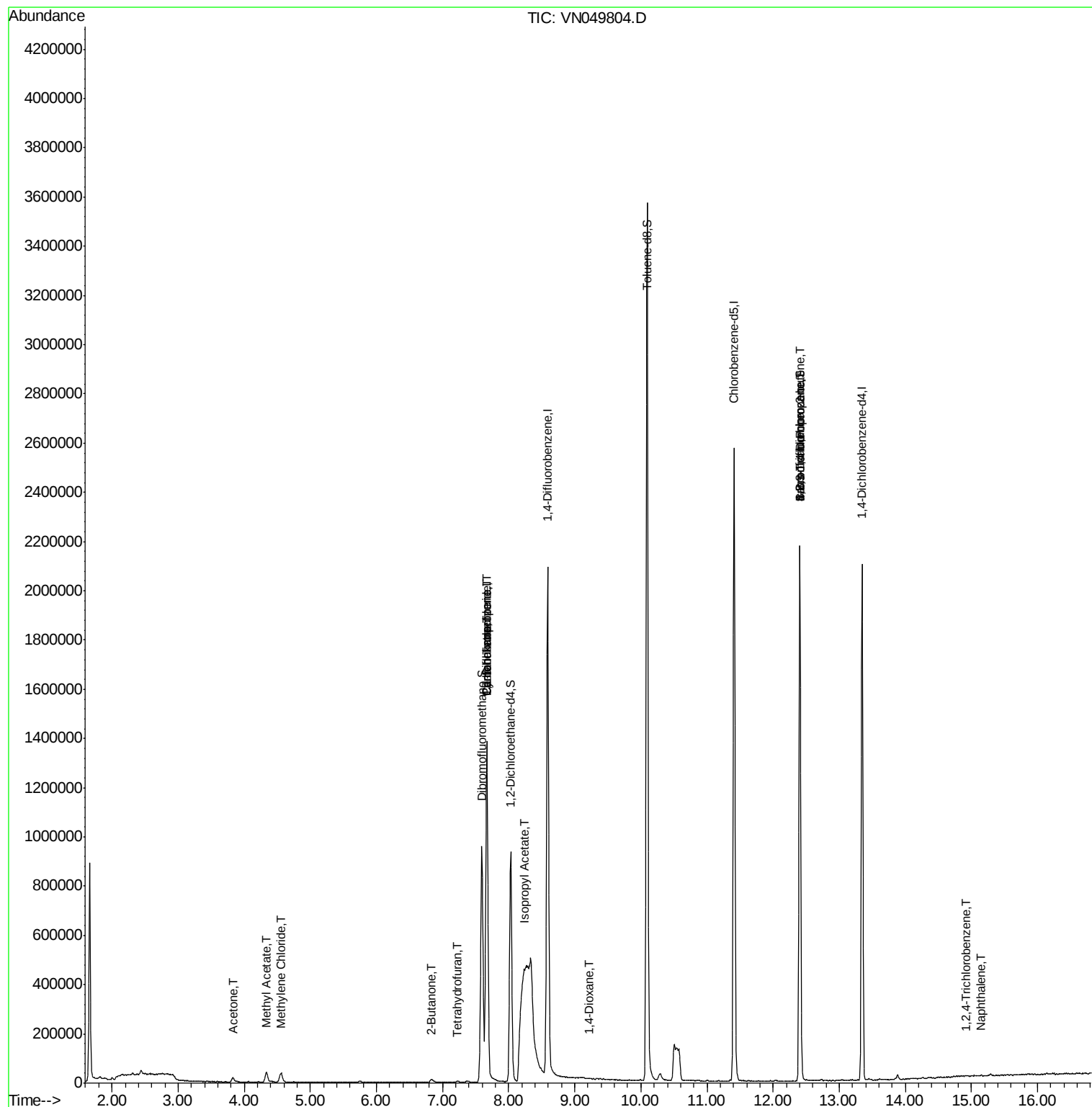
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.86	85	64	Below Cal	#	44
3) Chloromethane	2.06	50	2226	Below Cal		91
4) Vinyl Chloride	2.16	62	32	Below Cal	#	49
5) Bromomethane	2.58	94	795	Below Cal		92
16) Acetone	3.83	43	31360	7.17	ug/l	# 87
17) Carbon Disulfide	4.05	76	1887	Below Cal	#	83
18) Methyl Acetate	4.33	43	73568	5.70	ug/l	99
20) Methylene Chloride	4.55	84	28200	1.08	ug/l	97
25) 2-Butanone	6.84	43	3144	0.58	ug/l	96
29) Tetrahydrofuran	7.22	42	2495	0.74	ug/l	# 69
31) Cyclohexane	7.66	56	21812	0.76	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	82408	3.68	ug/l	# 50
38) Carbon Tetrachloride	7.67	117	106219	4.54	ug/l	# 17
43) Isopropyl Acetate	8.24	43	671504	28.19	ug/l	# 62
49) 1,4-Dioxane	9.21	88	63	0.40	ug/l	# 1
55) 1,1,2-Trichloroethane	10.56	97	1898	Below Cal	#	23
71) Bromoform	12.40	173	5115	0.48	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.50	83	136	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	348316	32.94	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	348316	106.38	ug/l	# 13
90) Hexachloroethane	14.01	117	58	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	14.92	180	387	2.92	ug/l	# 89
95) Naphthalene	15.14	128	1129	4.06	ug/l	# 73

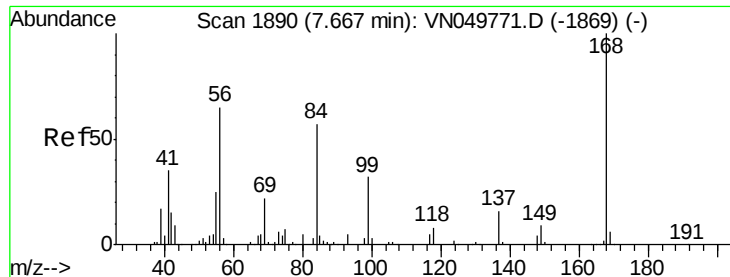
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 13 23:52:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

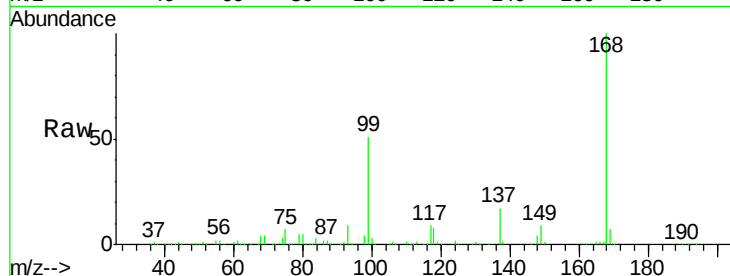
PB111069ZHE#07

Tot Ion:168 Resp: 1192186

Ion Ratio Lower Upper

168 100

99 51.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

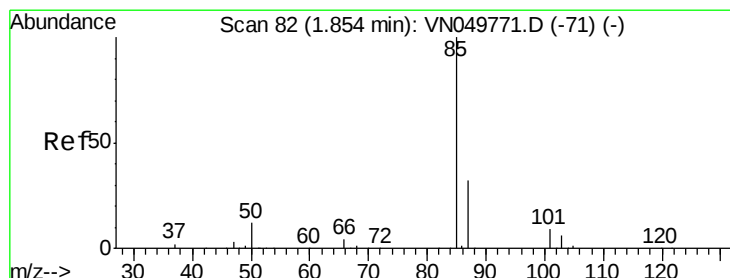
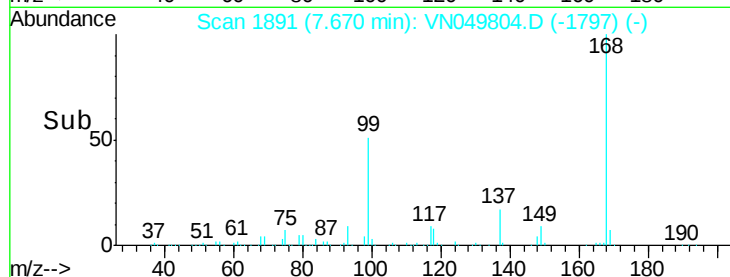
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.86 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN049804.D

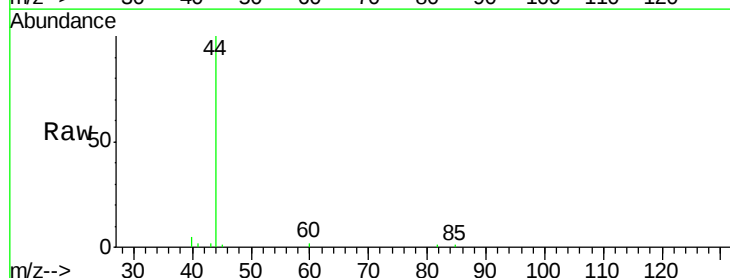
Acq: 13 Jul 2018 18:19

Tgt Ion: 85 Resp: 64

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.86

200

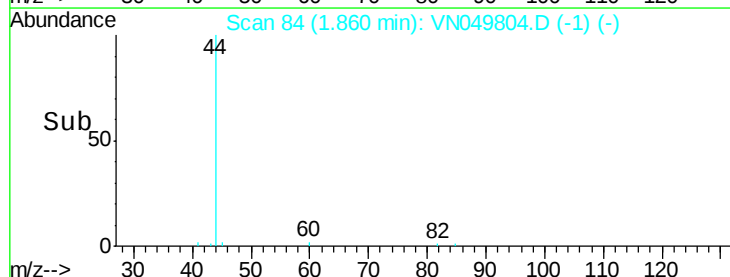
150

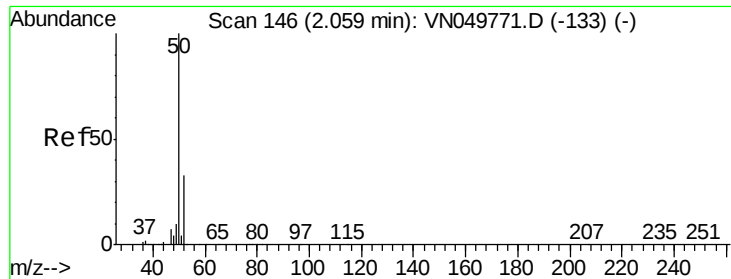
100

50

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

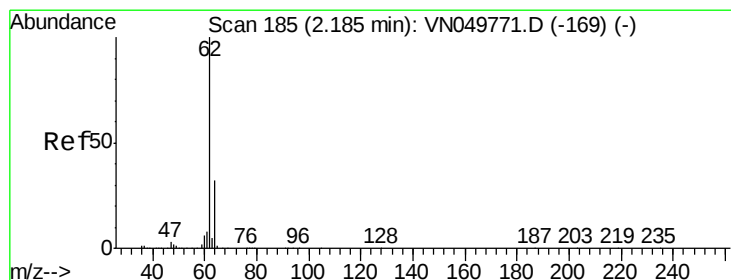
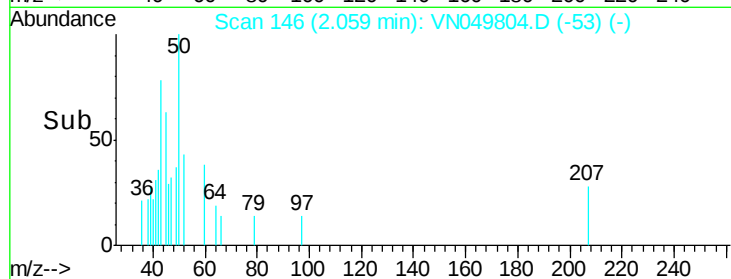
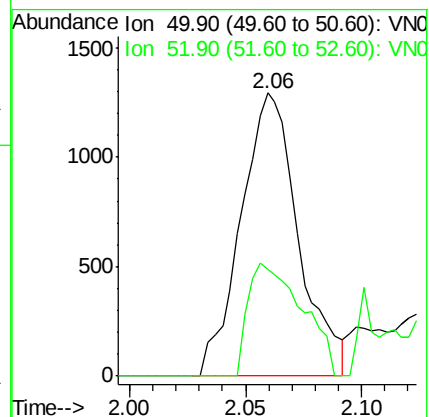
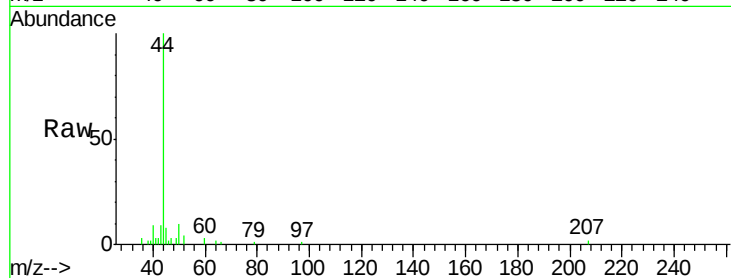
PB111069ZHE#07

Tot Ion: 50 Resp: 2226

Ion Ratio Lower Upper

50 100

52 37.7 26.1 39.1



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.16 min Scan# 178

Delta R.T. -0.02 min

Lab File: VN049804.D

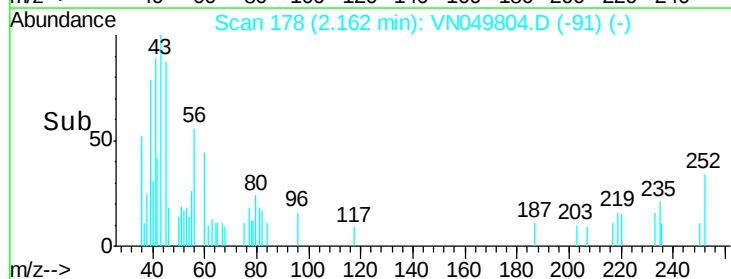
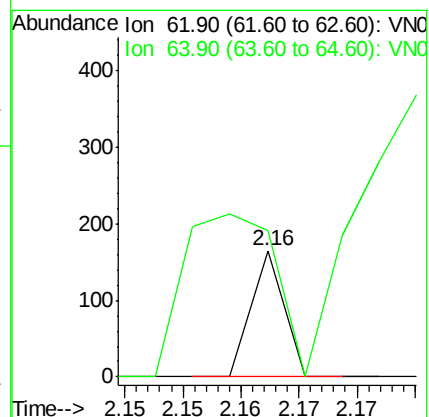
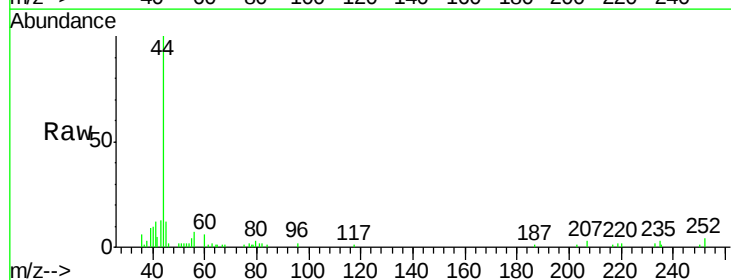
Acq: 13 Jul 2018 18:19

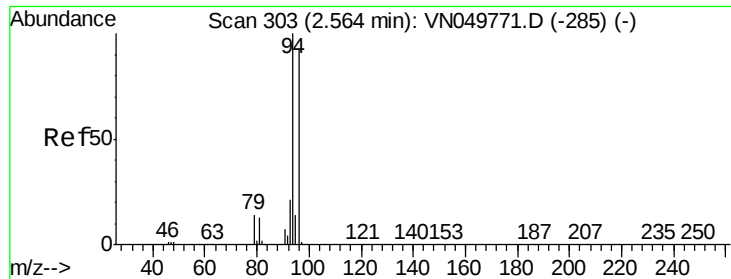
Tgt Ion: 62 Resp: 32

Ion Ratio Lower Upper

62 100

64 3.6 25.4 38.0#





#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

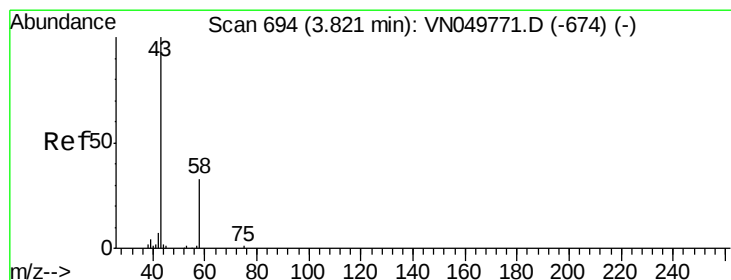
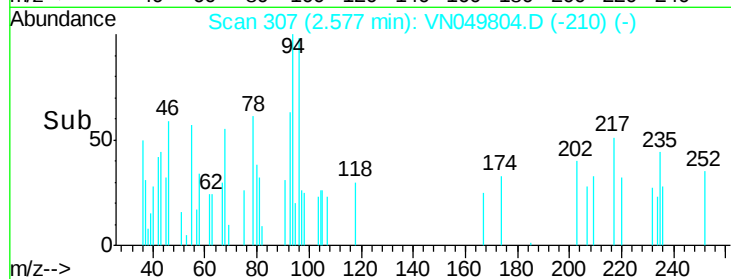
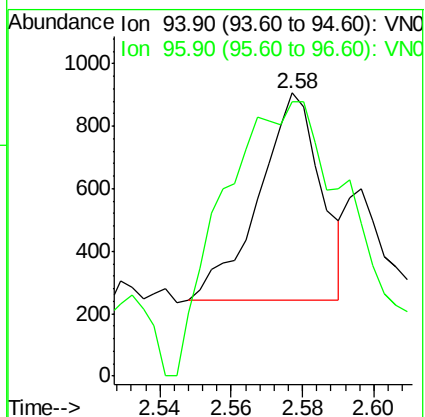
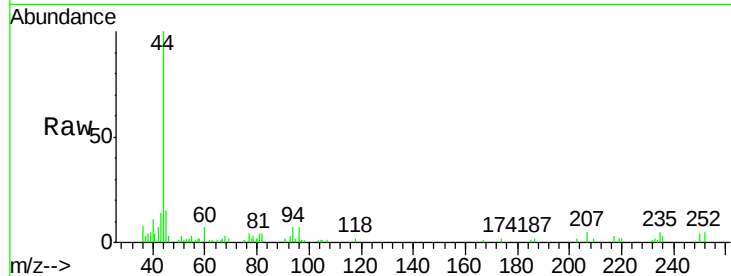
PB111069ZHE#07

Tot Ion: 94 Resp: 795

Ion Ratio Lower Upper

94 100

96 102.7 75.7 113.5



#16

Acetone

Concen: 7.17 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049804.D

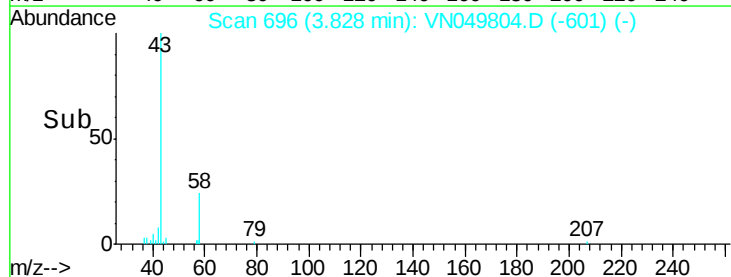
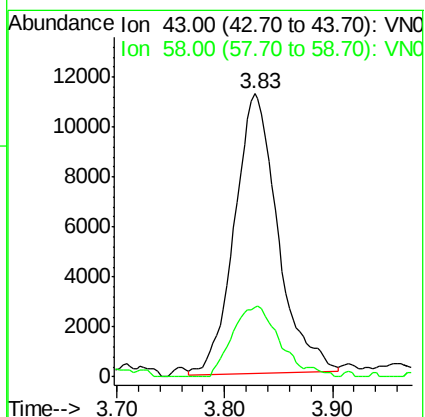
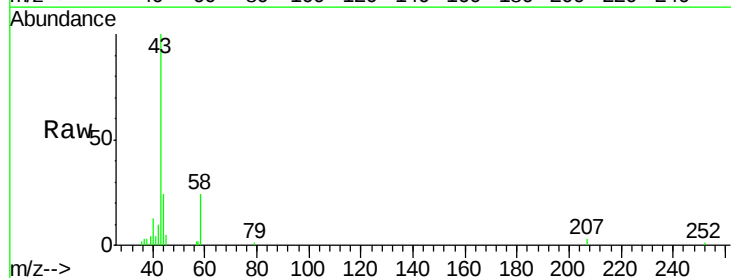
Acq: 13 Jul 2018 18:19

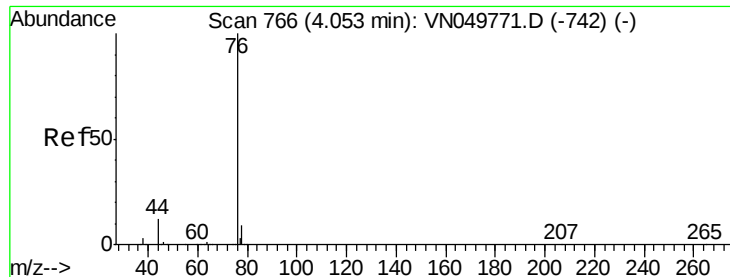
Tgt Ion: 43 Resp: 31360

Ion Ratio Lower Upper

43 100

58 24.9 25.9 38.9#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

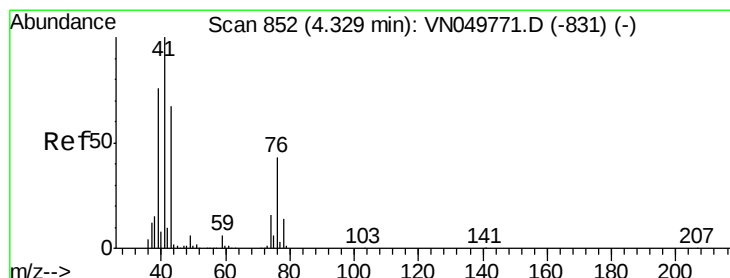
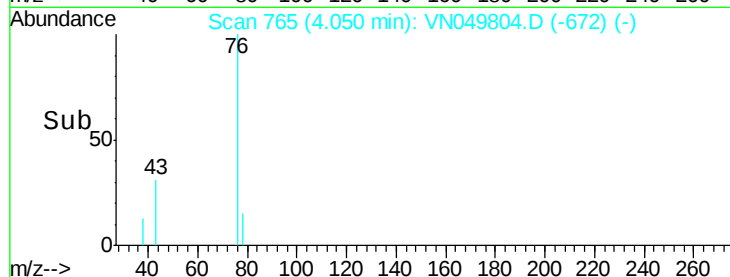
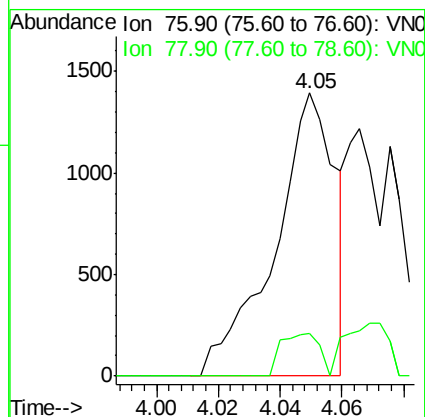
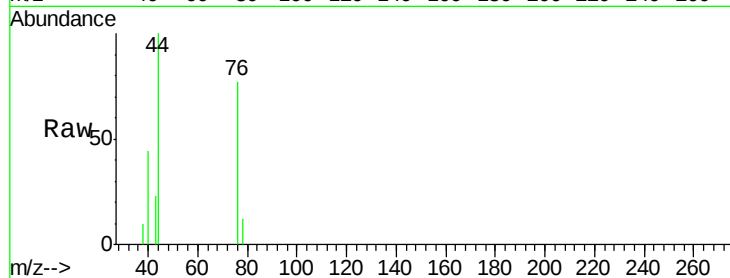
PB111069ZHE#07

Tot Ion: 76 Resp: 1887

Ion Ratio Lower Upper

76 100

78 15.0 7.1 10.7#



#18

Methyl Acetate

Concen: 5.70 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049804.D

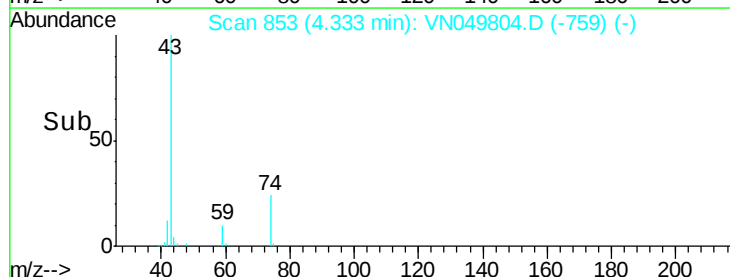
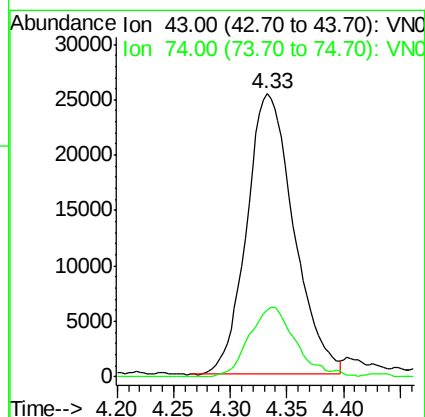
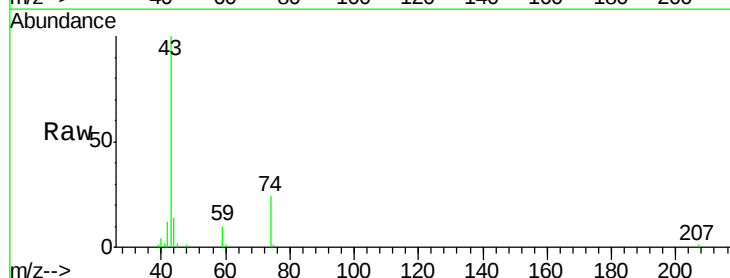
Acq: 13 Jul 2018 18:19

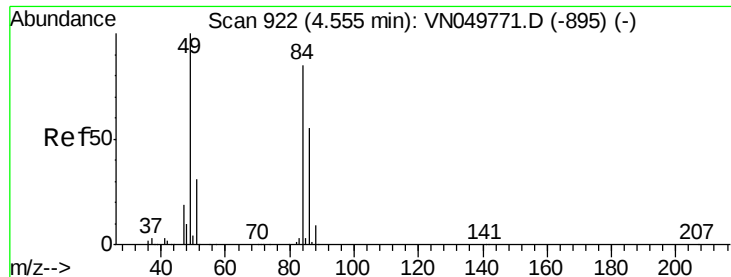
Tgt Ion: 43 Resp: 73568

Ion Ratio Lower Upper

43 100

74 24.4 19.8 29.8

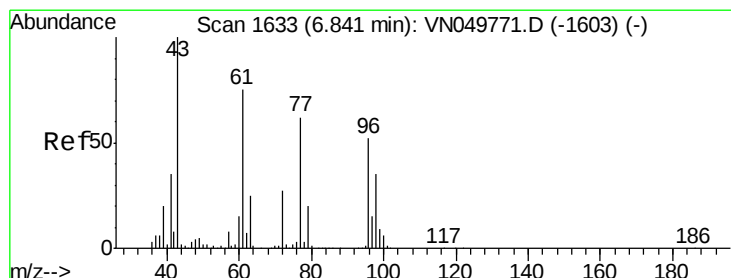
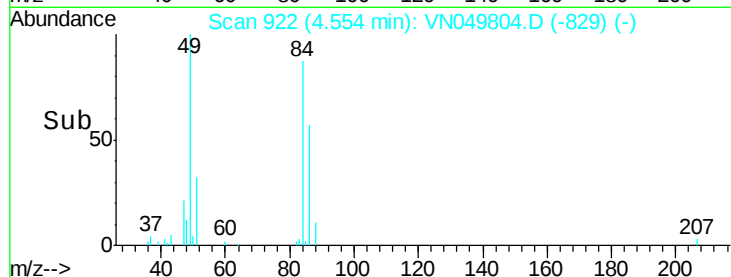
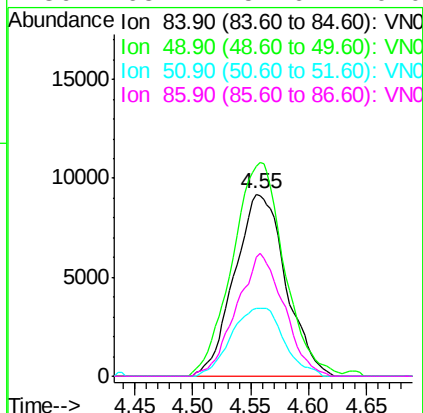
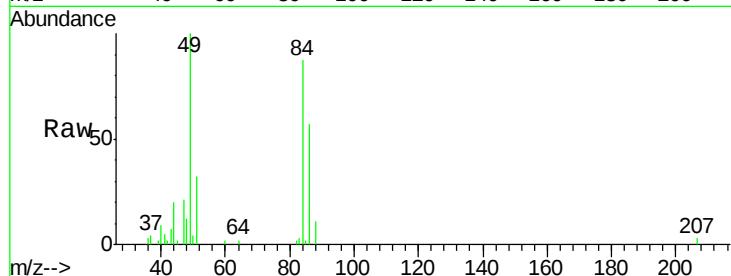




#20
Methvlene Chloride
Concen: 1.08 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

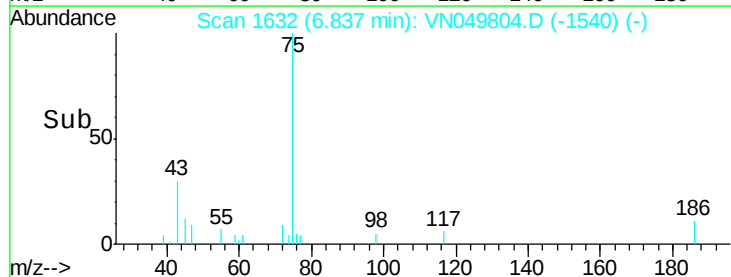
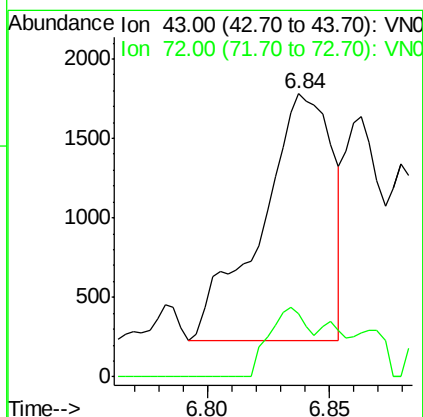
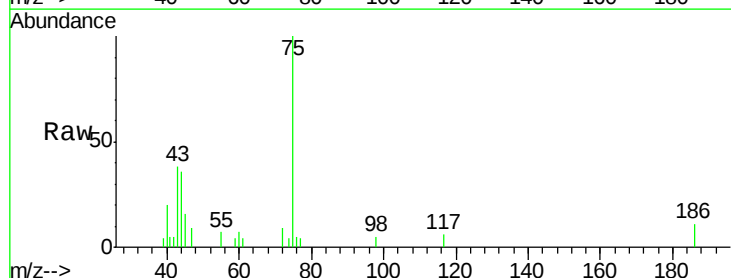
Instrument :
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ClientSampleId :
PB111069ZHE#07

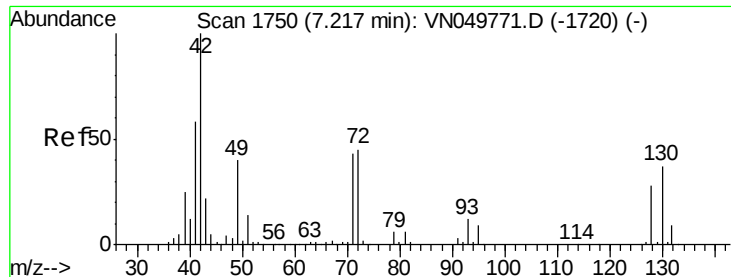
Tot Ion:	84	Resp:	28200
Ion	Ratio	Lower	Upper
84	100		
49	115.4	95.4	143.2
51	37.4	28.4	42.6
86	65.2	52.6	79.0



#25
2-Butanone
Concen: 0.58 ug/l
RT: 6.84 min Scan# 1632
Delta R.T. -0.00 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

Tgt Ion:	43	Resp:	3144
Ion	Ratio	Lower	Upper
43	100		
72	25.7	22.1	33.1





#29

Tetrahydrofuran

Concen: 0.74 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#07

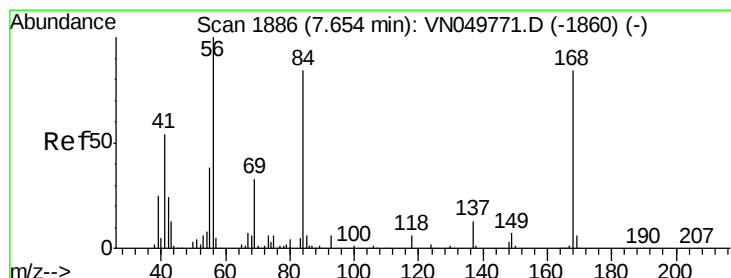
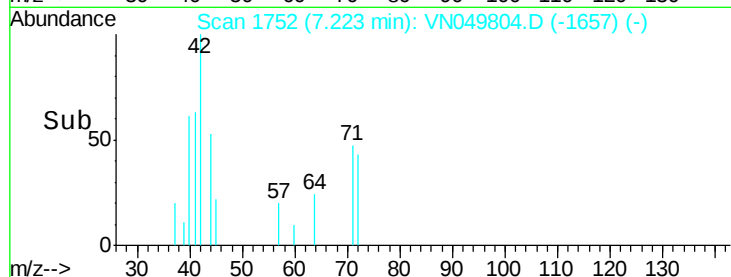
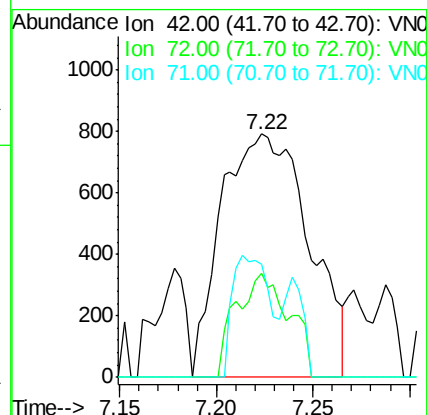
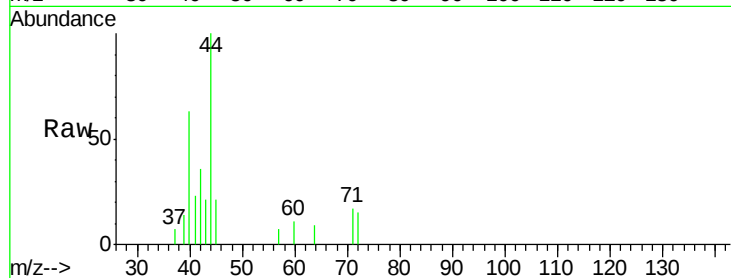
Tot Ion: 42 Resp: 2495

Ion Ratio Lower Upper

42 100

72 25.7 35.6 53.4#

71 21.5 34.0 51.0#



#31

Cyclohexane

Concen: 0.76 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

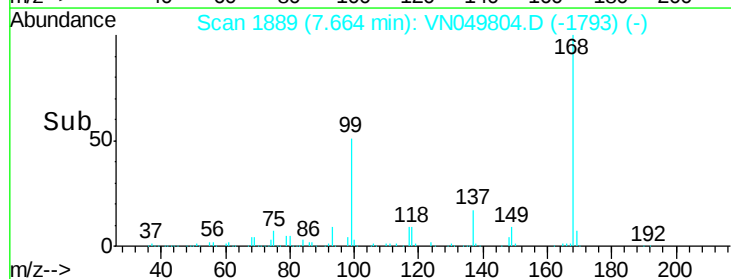
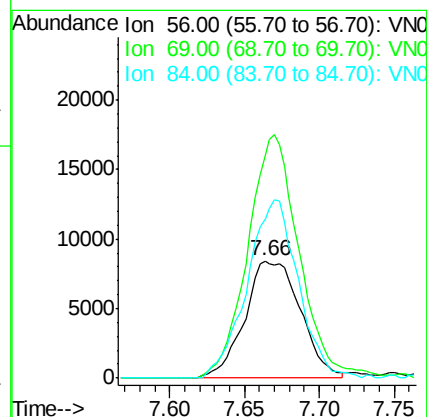
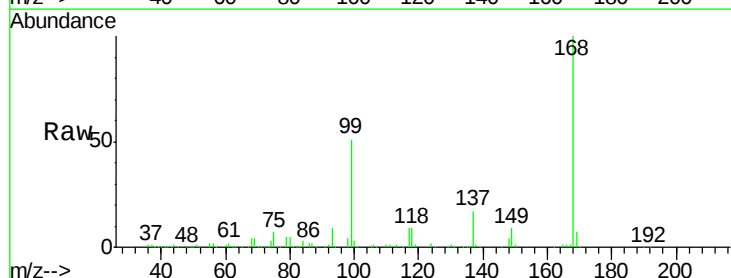
Tgt Ion: 56 Resp: 21812

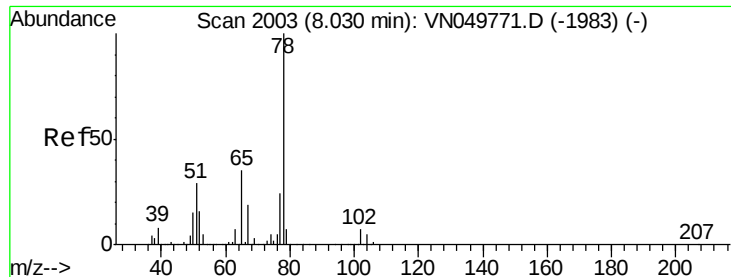
Ion Ratio Lower Upper

56 100

69 190.9 26.6 40.0#

84 136.6 69.0 103.6#

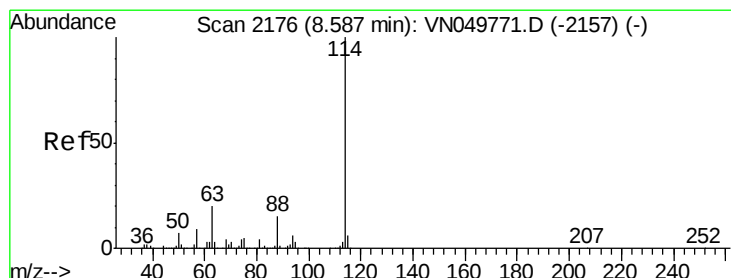
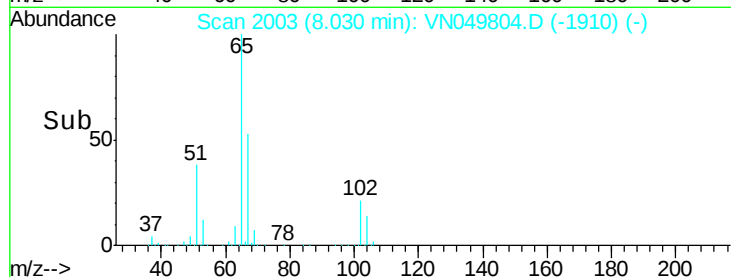
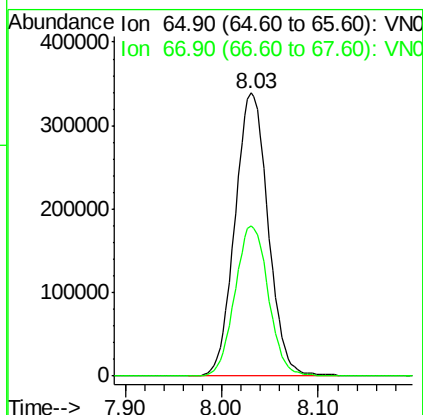
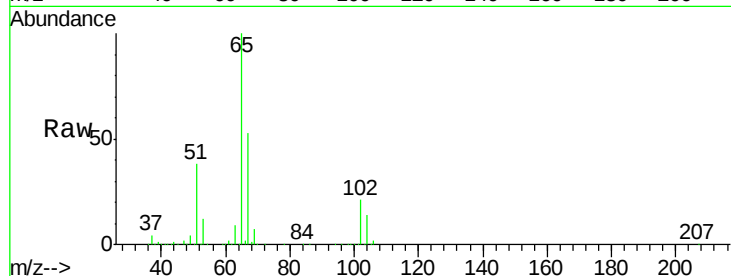




#33
 1,2-Dichloroethane-d4
 Concen: 58.34 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN049804.D
 Acq: 13 Jul 2018 18:19

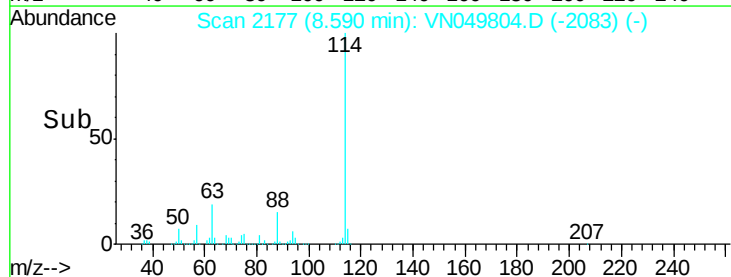
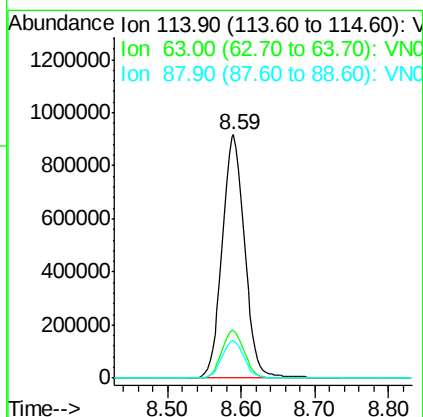
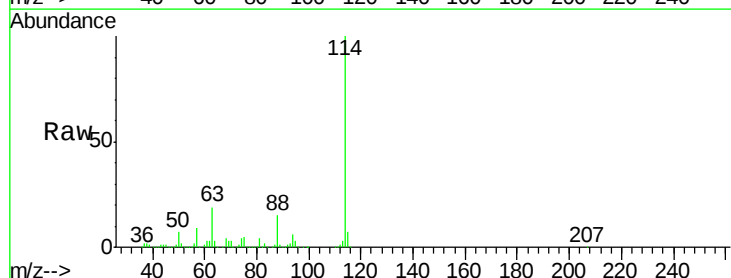
Instrument :
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 PB111069ZHE#07

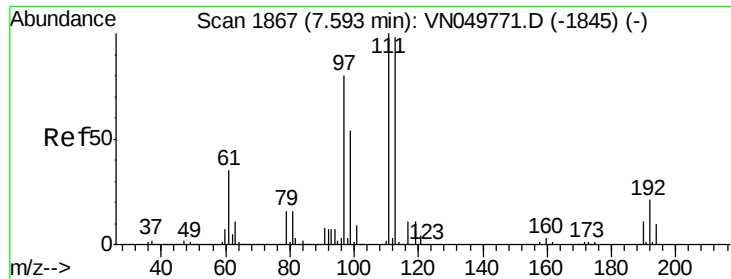
Tot Ion: 65 Resp: 809101
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049804.D
 Acq: 13 Jul 2018 18:19

Tgt Ion: 114 Resp: 1942925
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.3 0.0 30.6

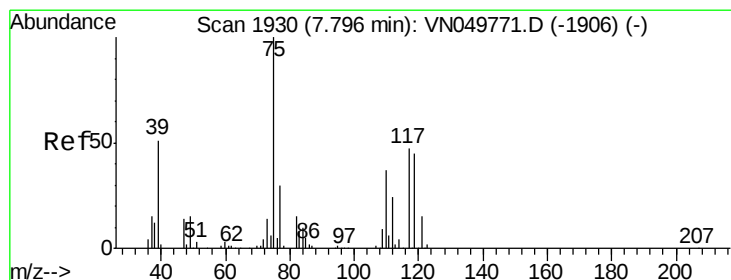
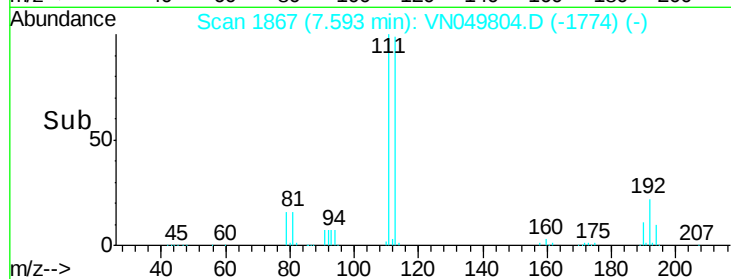
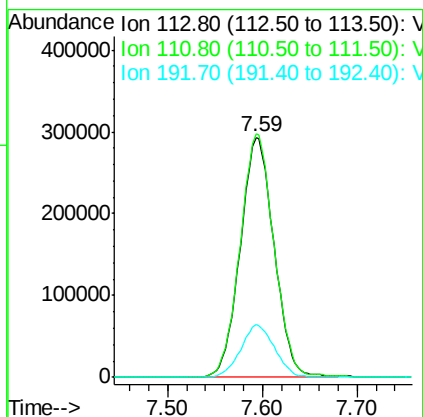
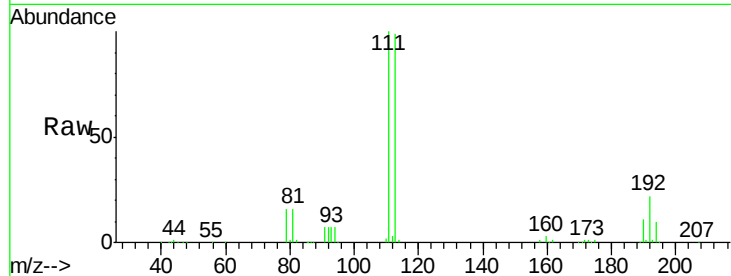




#35
 Dibromofluoromethane
 Concen: 49.81 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049804.D
 Acq: 13 Jul 2018 18:19

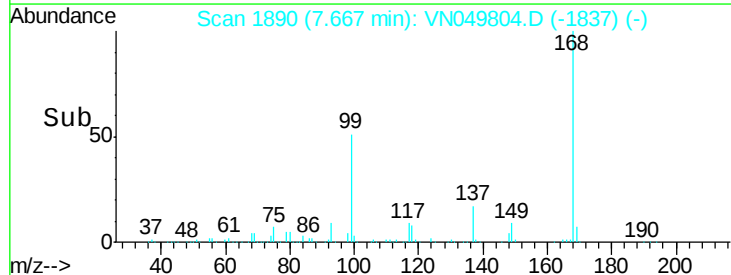
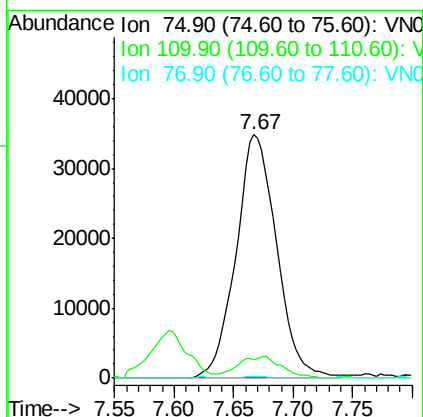
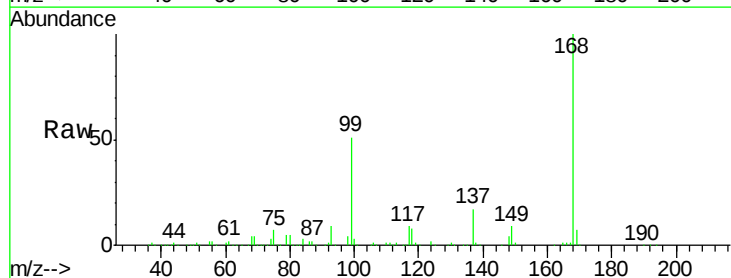
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#07

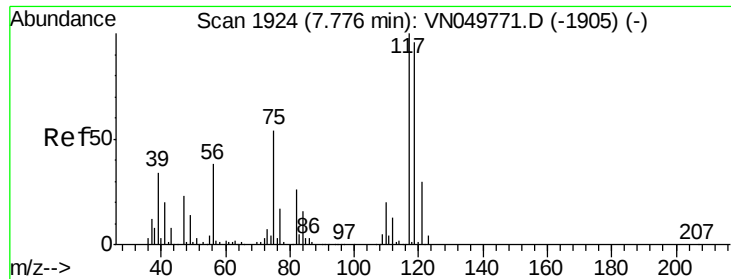
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	22.0	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049804.D
 Acq: 13 Jul 2018 18:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.4#
77	0.3	24.9	37.3#

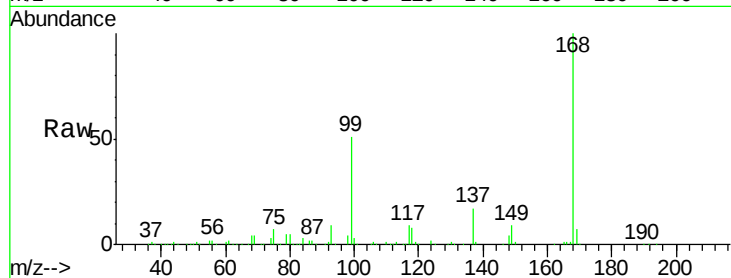




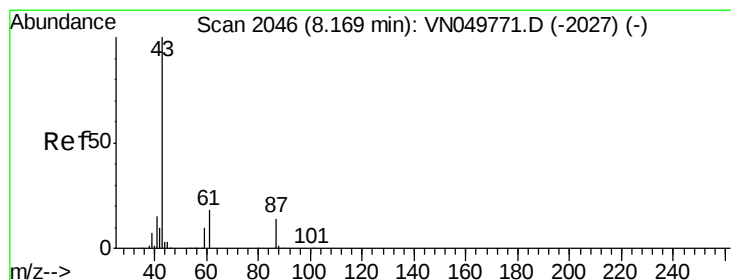
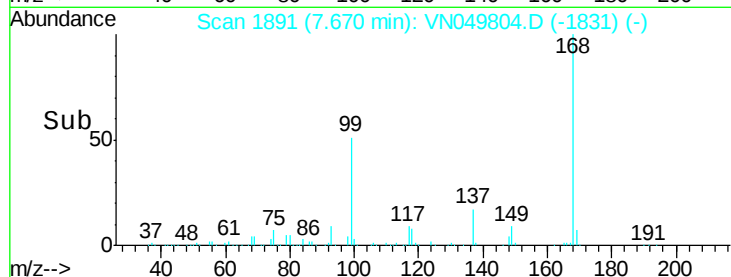
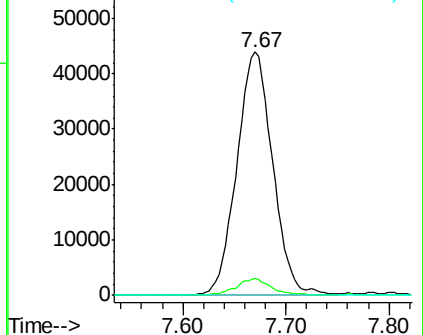
#38
Carbon Tetrachloride
Concen: 4.54 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#07

Tot Ion:117 Resp: 106219
Ion Ratio Lower Upper
117 100
119 7.1 77.2 115.8#
121 0.0 25.0 37.6#

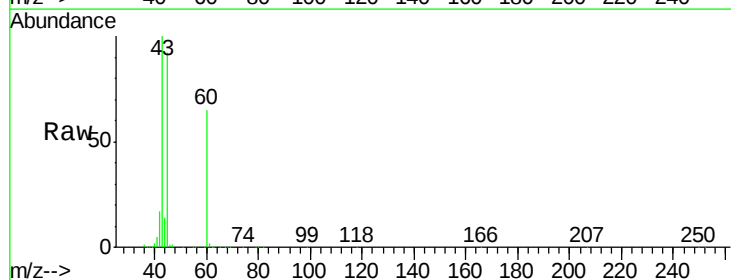


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

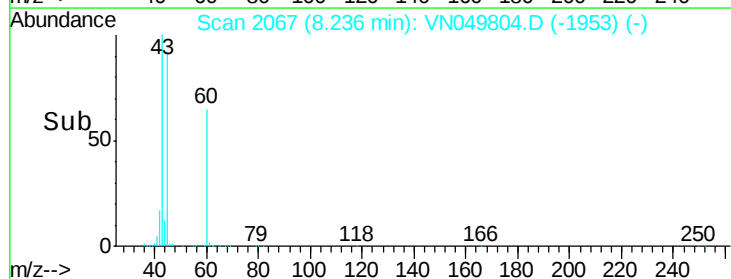
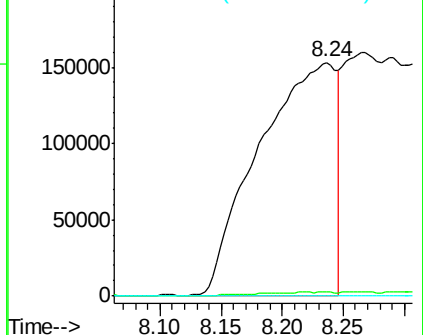


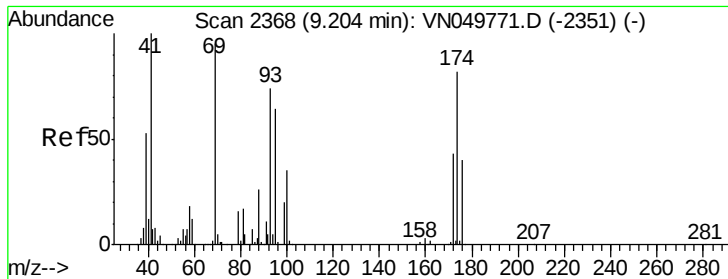
#43
Isopropyl Acetate
Concen: 28.19 ug/l
RT: 8.24 min Scan# 2067
Delta R.T. 0.07 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

Tgt Ion: 43 Resp: 671504
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
87 0.0 10.0 15.0#



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

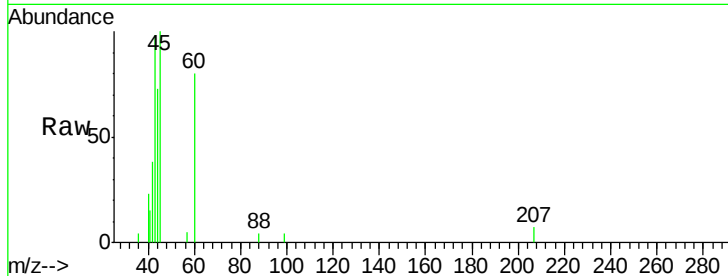




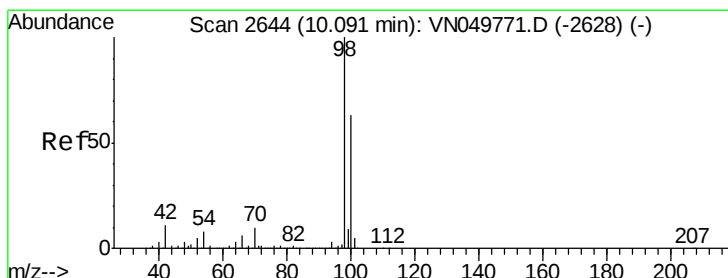
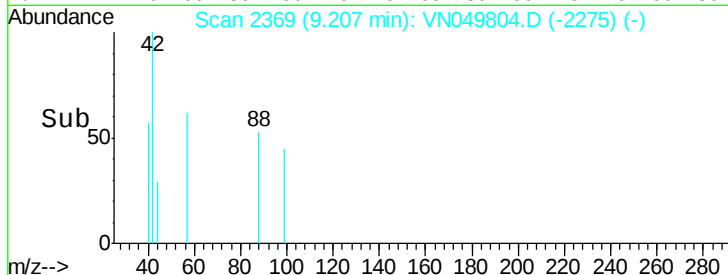
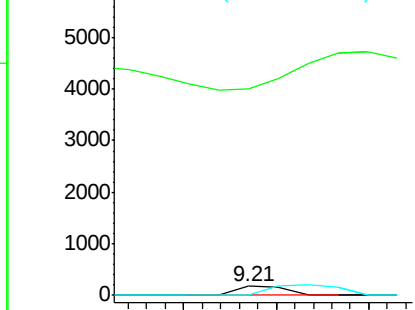
#49
1,4-Dioxane
Concen: 0.40 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#07

Tot Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 1176.2 25.1 37.7#
58 165.1 52.5 78.7#

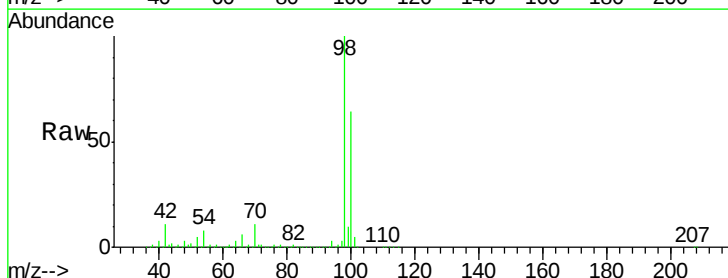


Abundance Ion 88.00 (87.70 to 88.70): VN049771.D (-2351) (-)
Ion 43.00 (42.70 to 43.70): VN049771.D (-2351) (-)
Ion 58.00 (57.70 to 58.70): VN049771.D (-2351) (-)

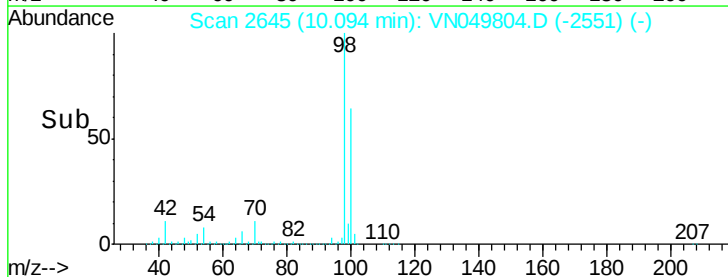
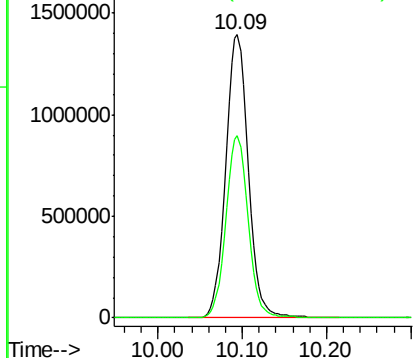


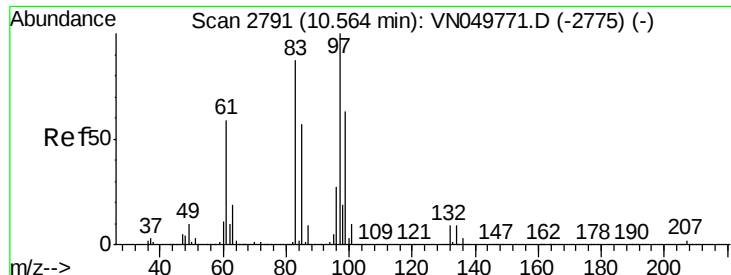
#50
Toluene-d8
Concen: 51.62 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

Tgt Ion: 98 Resp: 2587993
Ion Ratio Lower Upper
98 100
100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049771.D (-2628) (-)
Ion 100.00 (99.70 to 100.70): VN049771.D (-2628) (-)

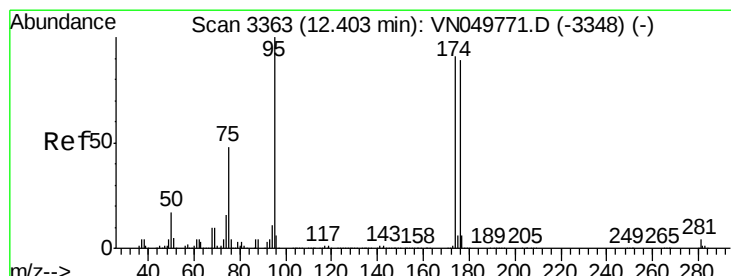
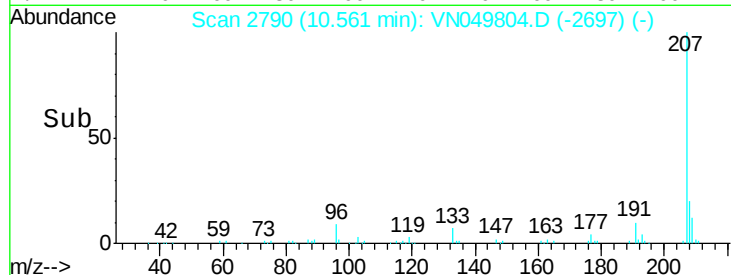
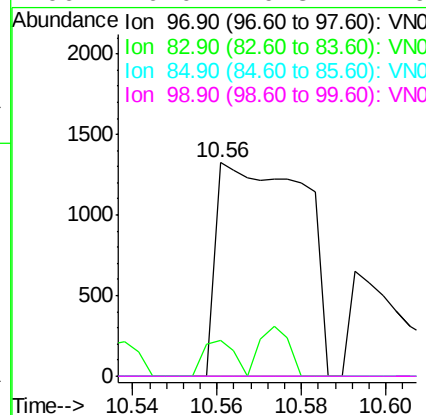
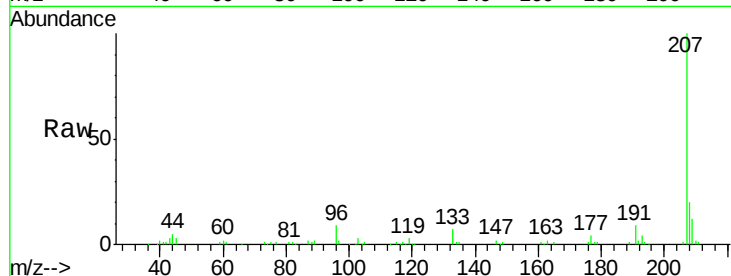




#55
 1,1,2-Trichloroethane
 Concen: Below Cal
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN049804.D
 Acq: 13 Jul 2018 18:19

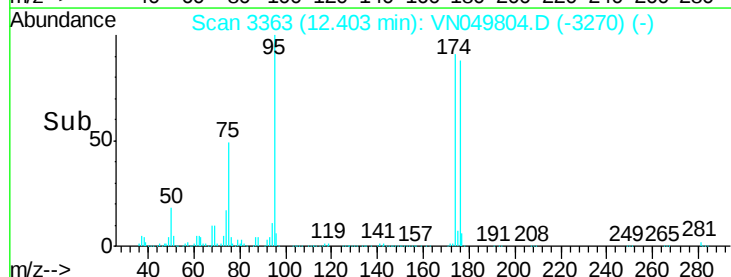
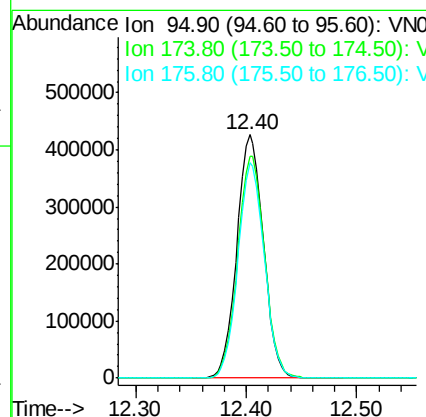
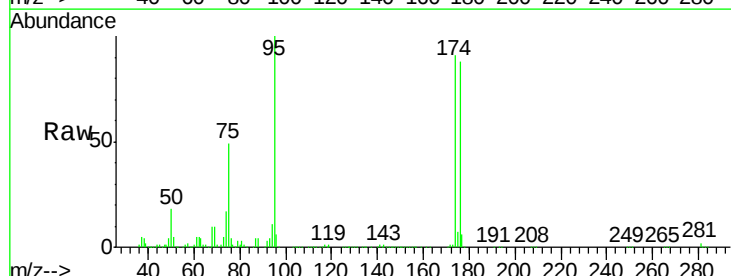
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#07

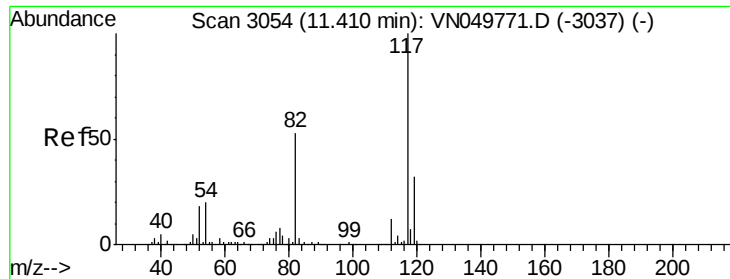
Tot Ion: 97 Resp: 1898
 Ion Ratio Lower Upper
 97 100
 83 17.0 69.0 103.6#
 85 0.0 44.9 67.3#
 99 0.0 49.8 74.6#



#62
 4-Bromofluorobenzene
 Concen: 39.73 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN049804.D
 Acq: 13 Jul 2018 18:19

Tgt Ion: 95 Resp: 711434
 Ion Ratio Lower Upper
 95 100
 174 92.8 0.0 179.6
 176 87.9 0.0 174.0

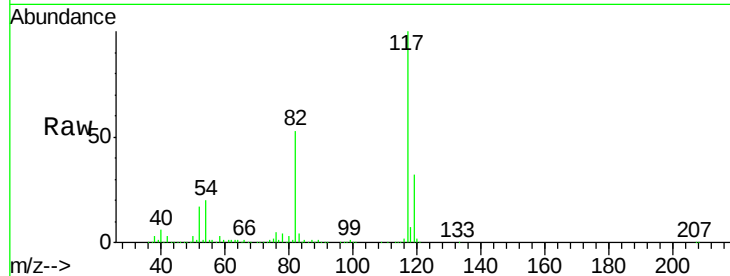




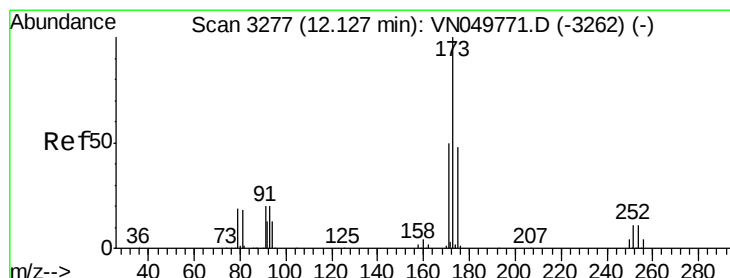
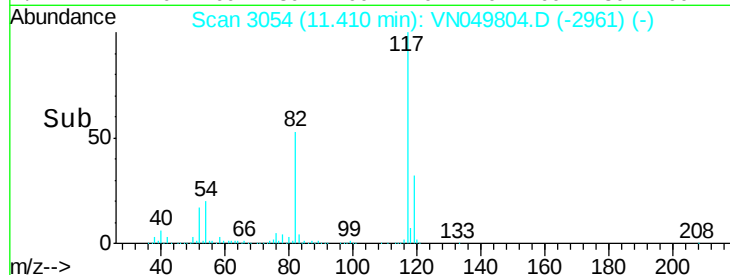
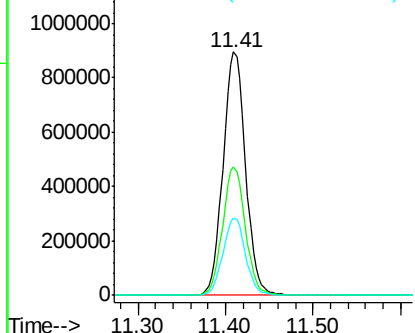
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#07

Tot Ion:117 Resp: 1595660
Ion Ratio Lower Upper
117 100
82 52.5 41.9 62.9
119 31.6 25.4 38.2

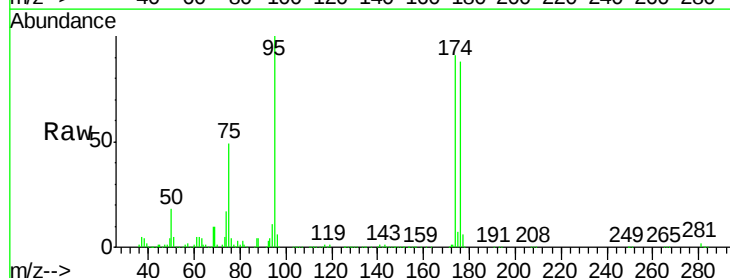


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

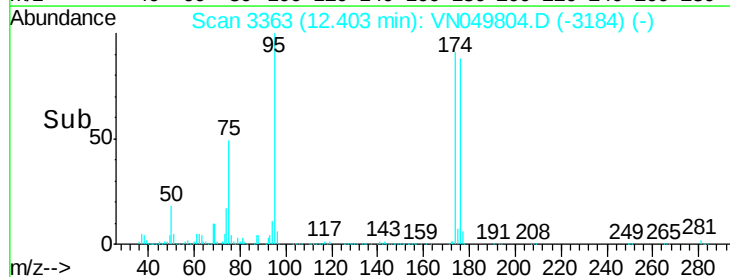
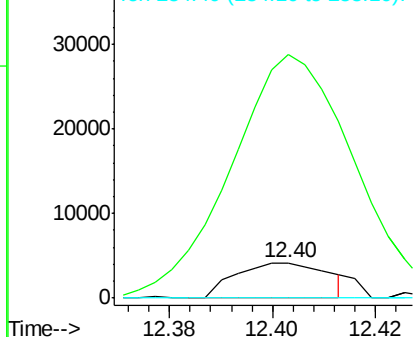


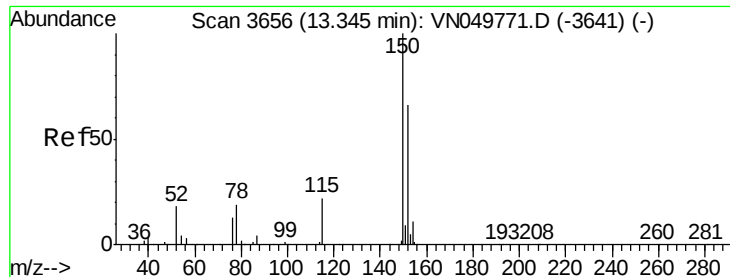
#71
Bromoform
Concen: 0.48 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049804.D
Acq: 13 Jul 2018 18:19

Tgt Ion:173 Resp: 5115
Ion Ratio Lower Upper
173 100
175 766.0 24.6 73.8#
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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#07

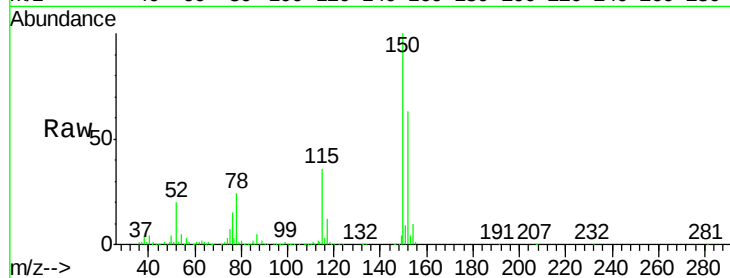
Tot Ion:152 Resp: 595230

Ion Ratio Lower Upper

152 100

115 55.4 28.1 84.2

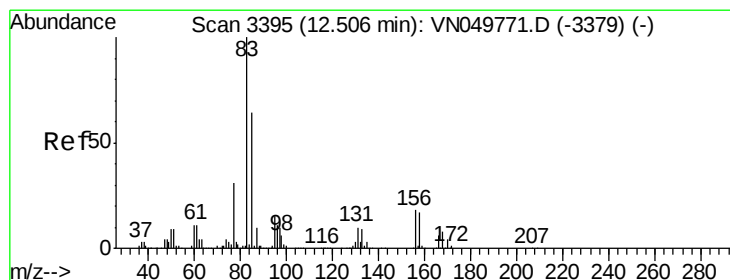
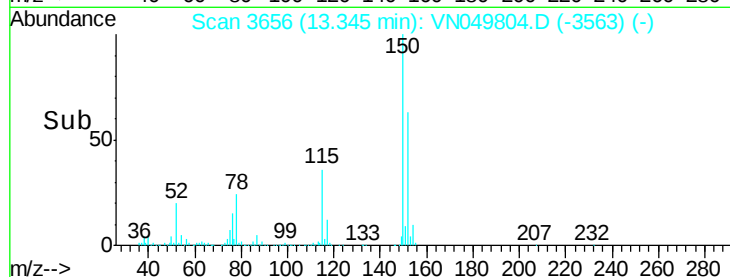
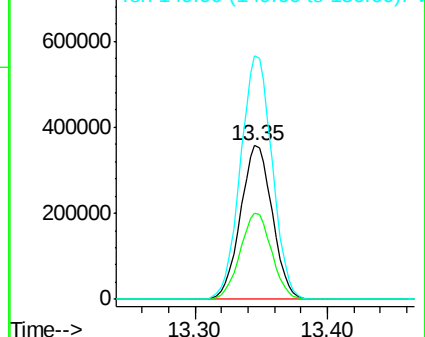
150 157.5 0.0 347.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

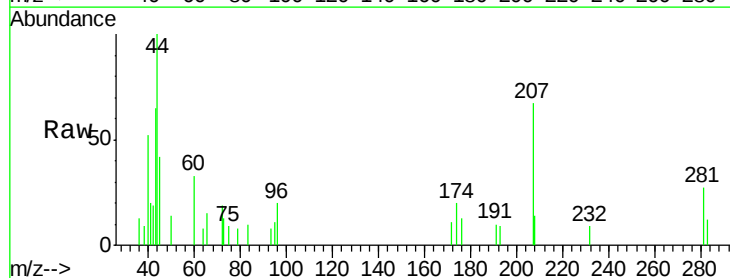
Tgt Ion: 83 Resp: 136

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

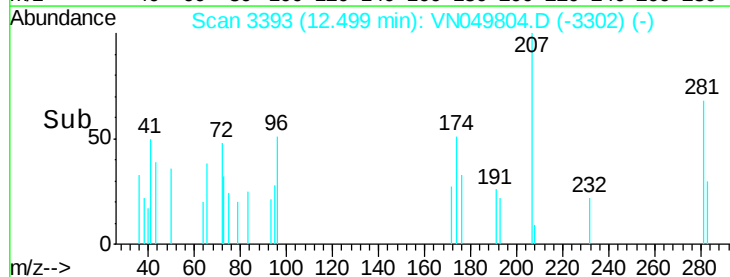
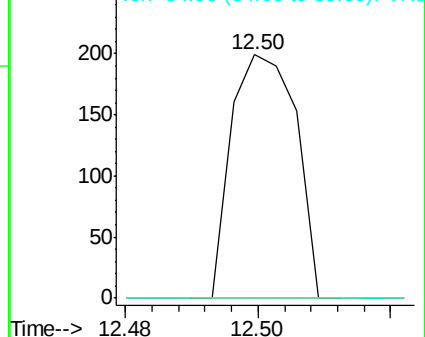
85 0.0 32.5 97.4#

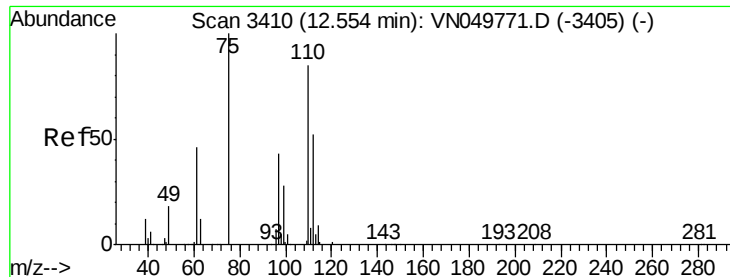


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 32.94 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

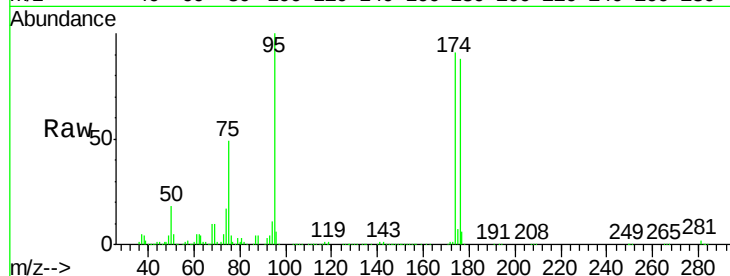
PB111069ZHE#07

Tot Ion: 75 Resp: 348316

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

200000

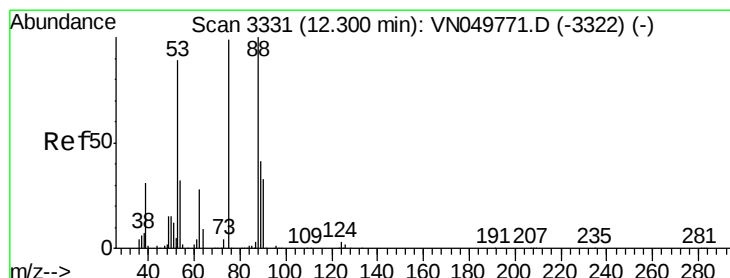
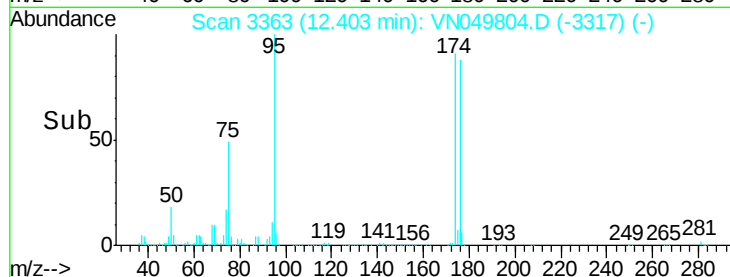
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 106.38 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

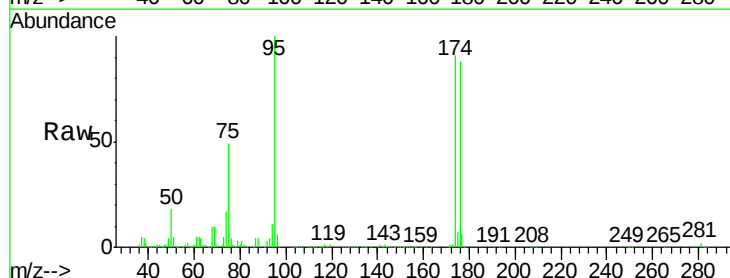
Tgt Ion: 75 Resp: 348316

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

200000

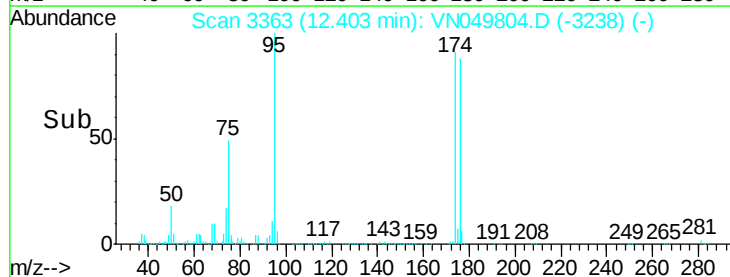
150000

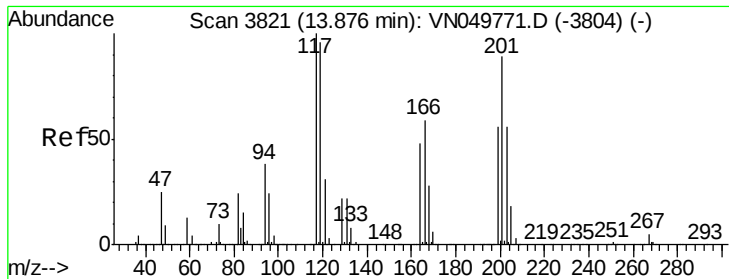
100000

50000

0

Time--> 12.30 12.40 12.50





#90

Hexachloroethane

Concen: Below Cal

RT: 14.01 min Scan# 3864

Delta R.T. 0.14 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

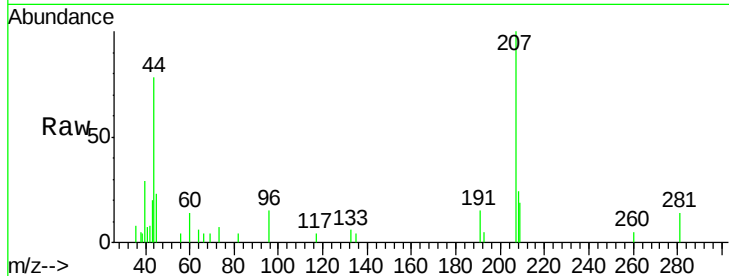
PB111069ZHE#07

Tot Ion:117 Resp: 58

Ion Ratio Lower Upper

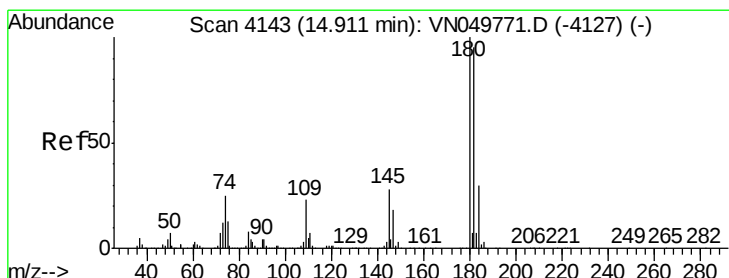
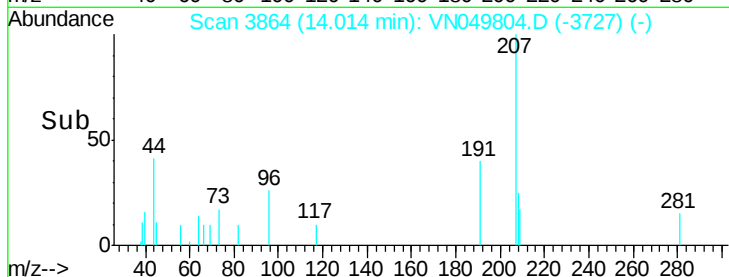
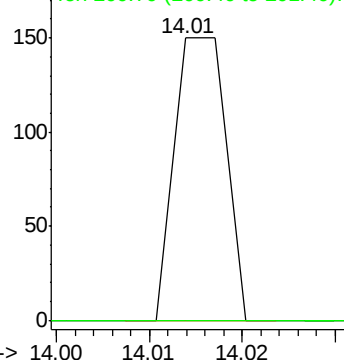
117 100

201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 2.92 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.01 min

Lab File: VN049804.D

Acq: 13 Jul 2018 18:19

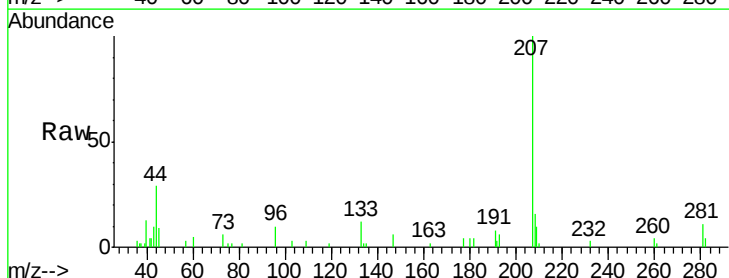
Tgt Ion:180 Resp: 387

Ion Ratio Lower Upper

180 100

182 92.5 47.3 141.9

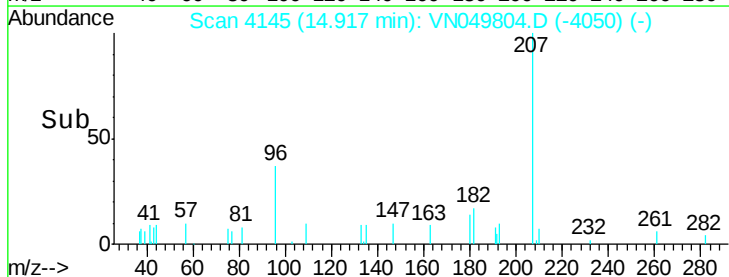
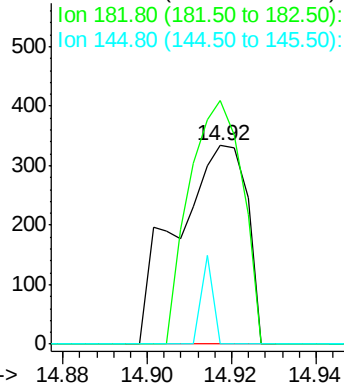
145 7.5 14.4 43.0#

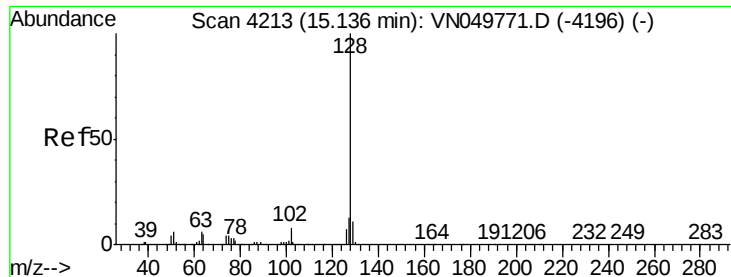


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.06 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049804.D

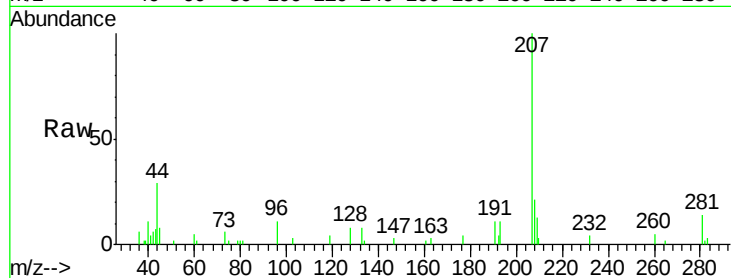
Acq: 13 Jul 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#07



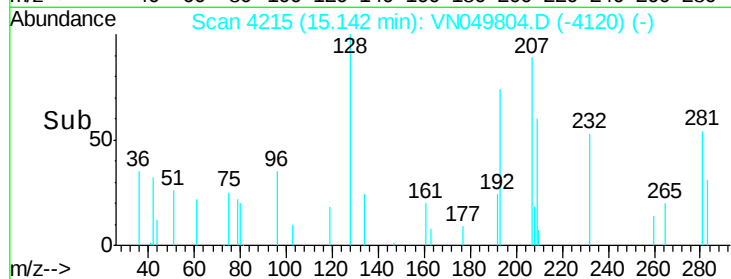
Tot Ion:128 Resp: 1129

Ion Ratio Lower Upper

128 100

127 3.0 10.4 15.6#

129 0.0 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

