

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
 Data File : VN049861.D
 Acq On : 17 Jul 2018 21:47
 Operator : MD\SY
 Sample : PB111173ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111173ZHE#05

Quant Time: Jul 18 03:38:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 17 13:20:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	568716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	950451	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	799816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	312658	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	411061	53.96	ug/l	0.00
Spiked Amount			Recovery	=	107.92%	
35) Dibromofluoromethane	7.59	113	359171	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	10.09	98	1257335	45.42	ug/l	0.00
Spiked Amount			Recovery	=	90.84%	
62) 4-Bromofluorobenzene	12.40	95	357252	38.54	ug/l	0.00
Spiked Amount			Recovery	=	77.08%	

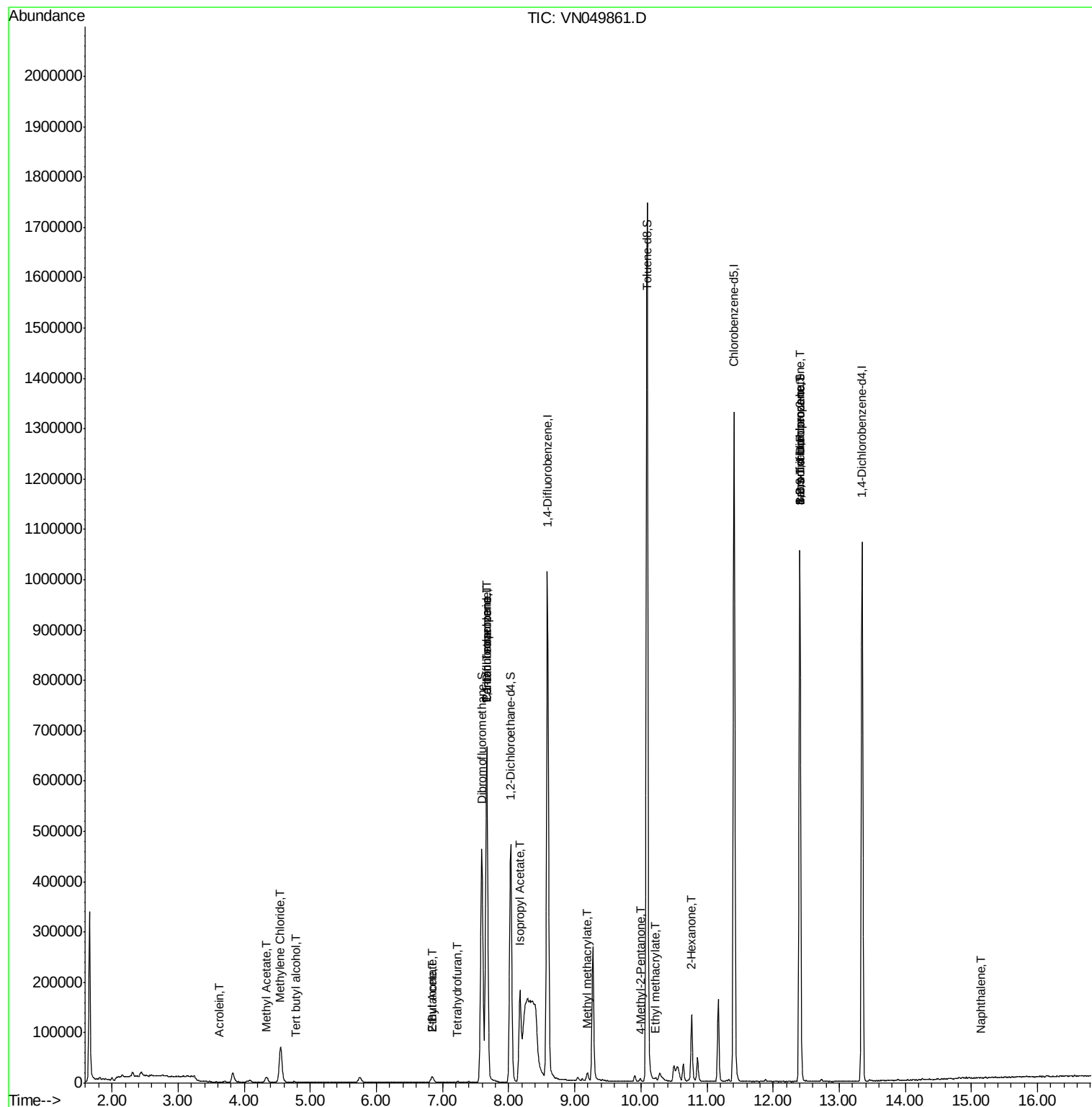
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1057	Below Cal	#	86
5) Bromomethane	2.57	94	333	Below Cal	#	76
6) Chloroethane	2.69	64	61	Below Cal	#	1
11) Tert butyl alcohol	4.79	59	531	0.88	ug/l	72
13) Acrolein	3.62	56	179	16.08	ug/l	35
16) Acetone	3.83	43	31734	Below Cal		99
17) Carbon Disulfide	4.05	76	1924	Below Cal	#	75
18) Methyl Acetate	4.33	43	20739	1.19	ug/l	93
20) Methylene Chloride	4.55	84	54546	6.35	ug/l	95
25) 2-Butanone	6.86	43	5732	1.83	ug/l	81
29) Tetrahydrofuran	7.22	42	473	0.24	ug/l	43
31) Cyclohexane	7.66	56	10967	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	40349	4.01	ug/l	48
37) Ethyl Acetate	6.86	43	5732	0.76	ug/l	72
38) Carbon Tetrachloride	7.67	117	51569	4.87	ug/l	16
43) Isopropyl Acetate	8.17	43	231831	18.17	ug/l	99
48) Methyl methacrylate	9.18	41	9141	1.44	ug/l	21
51) 4-Methyl-2-Pentanone	9.99	43	3232	0.43	ug/l	91
56) Ethyl methacrylate	10.23	69	3017	0.33	ug/l	90
59) 2-Hexanone	10.77	43	19332	3.76	ug/l	59
71) Bromoform	12.40	173	1780	0.32	ug/l	1
76) 1,2,3-Trichloropropane	12.40	75	175743	28.73	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	175743	94.02	ug/l	13
92) 1,2-Dibromo-3-Chloropropan	14.27	75	439	Below Cal	#	1
95) Naphthalene	15.14	128	412	2.85	ug/l	69

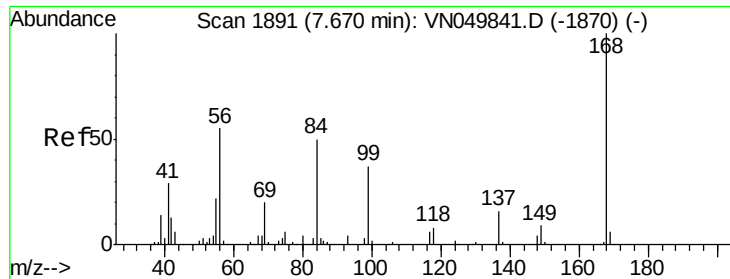
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 17 13:20:18 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: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

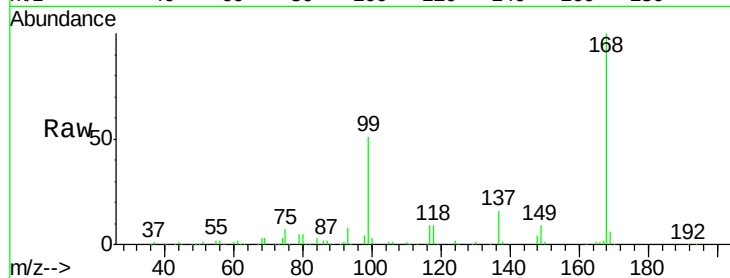
PB111173ZHE#05

Tot Ion:168 Resp: 568716

Ion Ratio Lower Upper

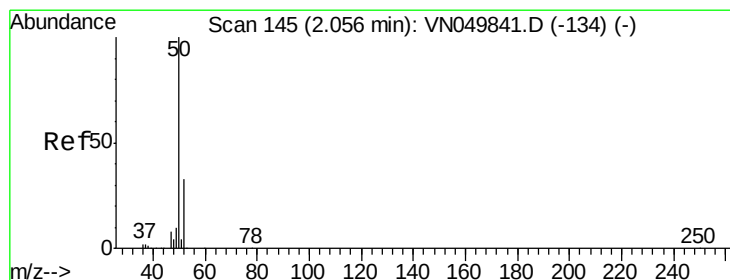
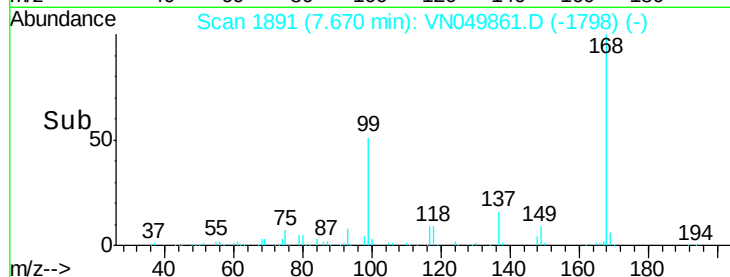
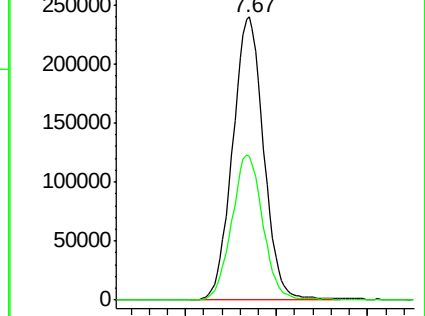
168 100

99 50.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049861.D

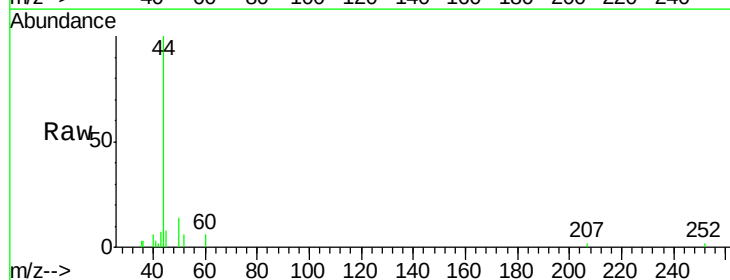
Acq: 17 Jul 2018 21:47

Tgt Ion: 50 Resp: 1057

Ion Ratio Lower Upper

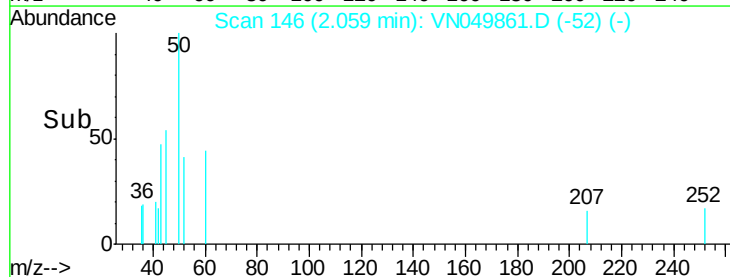
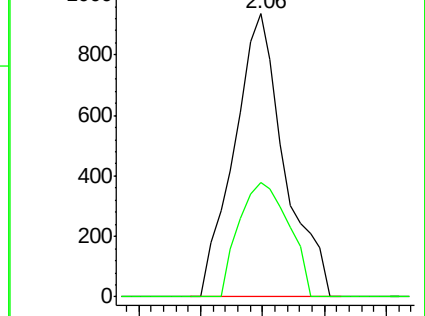
50 100

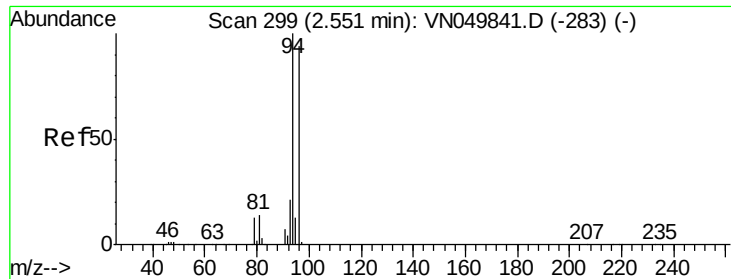
52 40.6 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

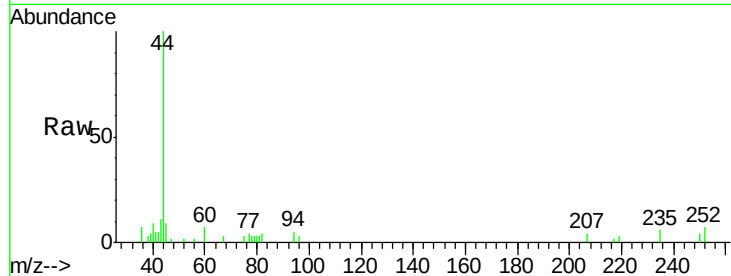
PB111173ZHE#05

Tot Ion: 94 Resp: 333

Ion Ratio Lower Upper

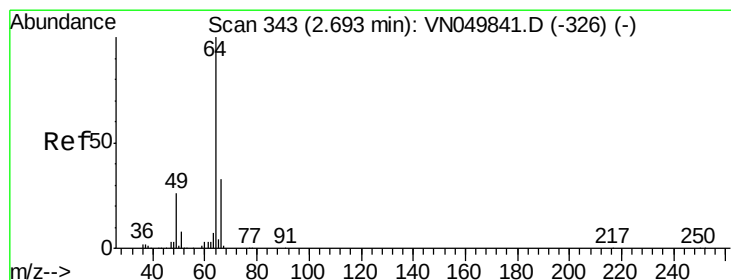
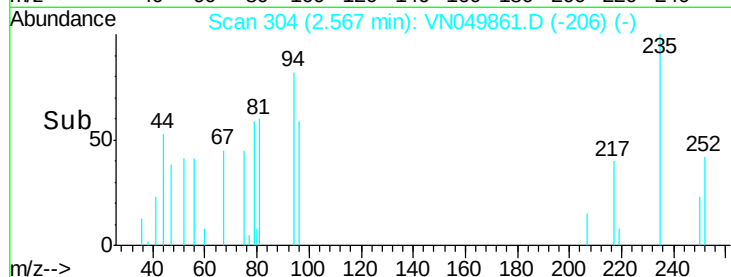
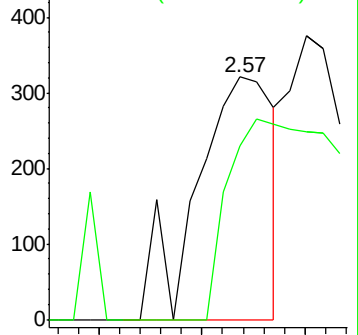
94 100

96 71.7 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VN049861.D

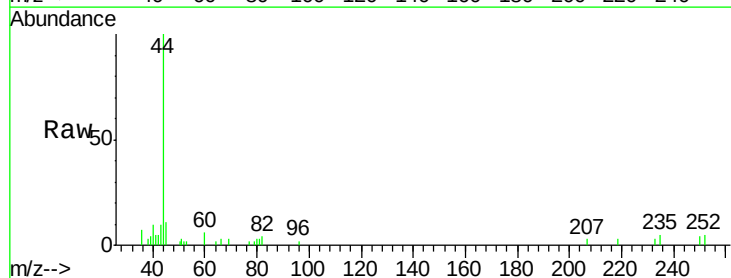
Acq: 17 Jul 2018 21:47

Tgt Ion: 64 Resp: 61

Ion Ratio Lower Upper

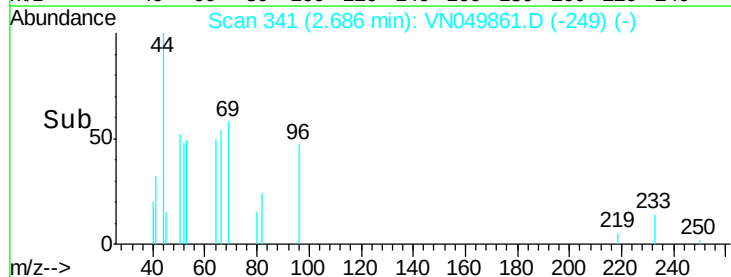
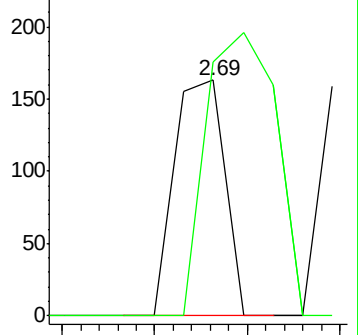
64 100

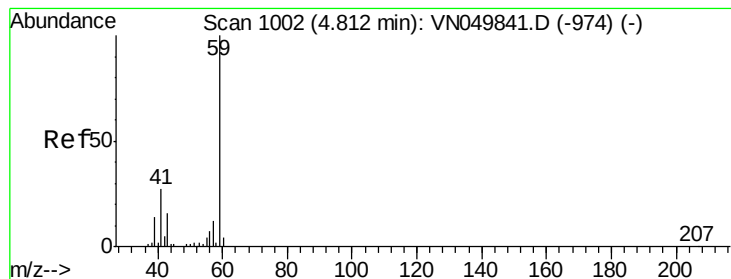
66 108.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#11

Tert butyl alcohol

Concen: 0.88 ug/l

RT: 4.79 min Scan# 995

Delta R.T. -0.02 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

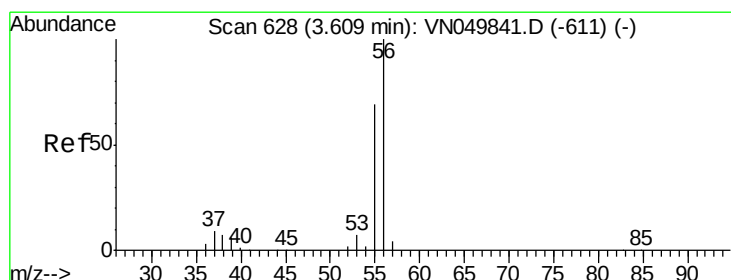
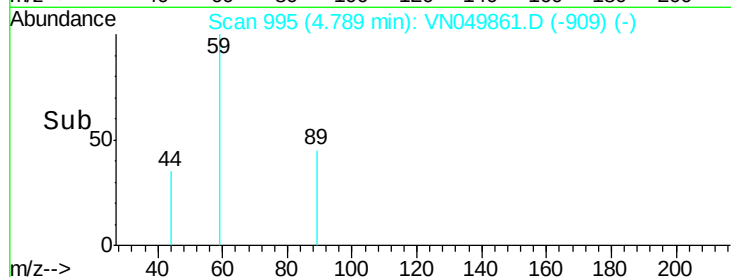
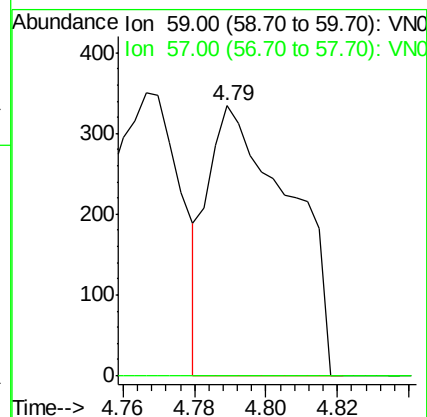
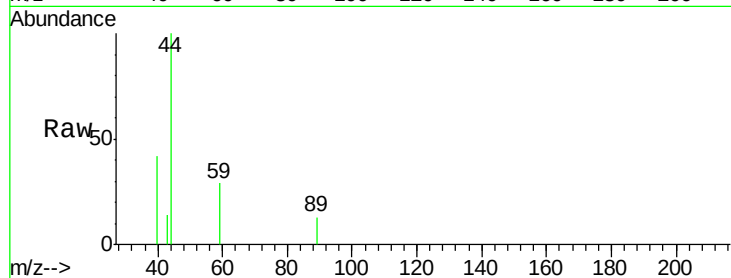
PB111173ZHE#05

Tot Ion: 59 Resp: 531

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 16.08 ug/l

RT: 3.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN049861.D

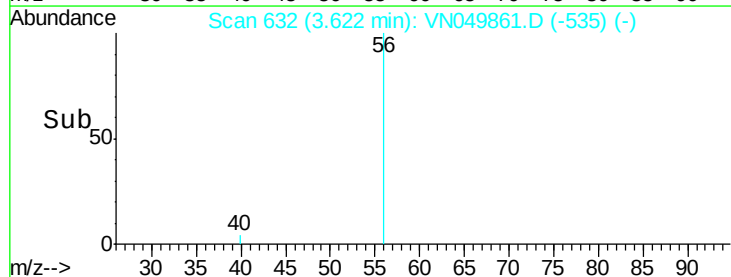
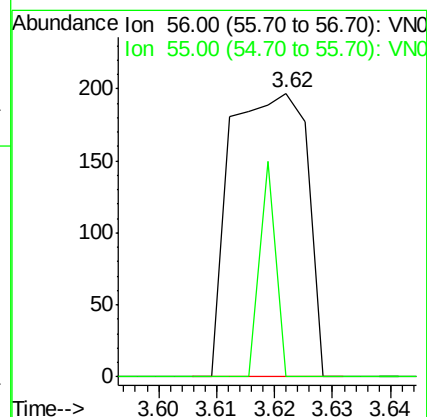
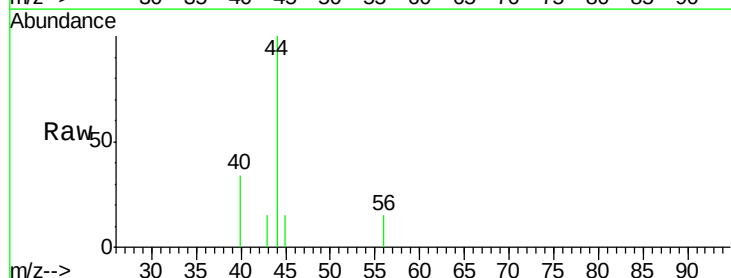
Acq: 17 Jul 2018 21:47

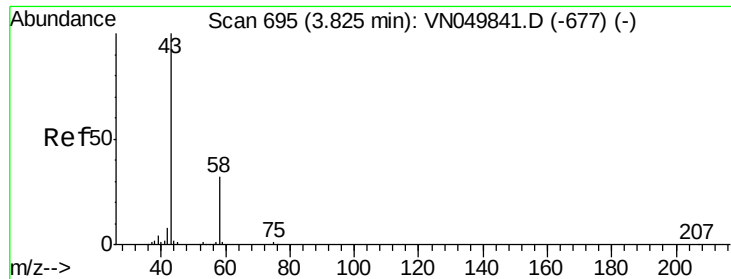
Tgt Ion: 56 Resp: 179

Ion Ratio Lower Upper

56 100

55 16.2 55.8 83.8#

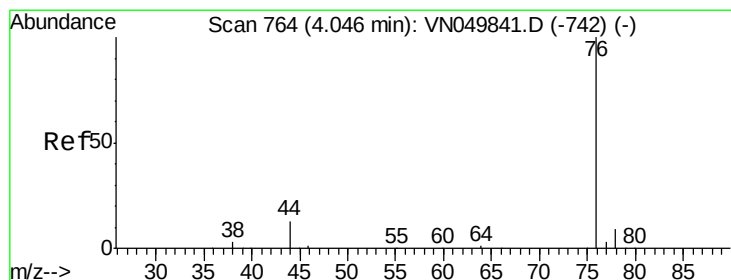
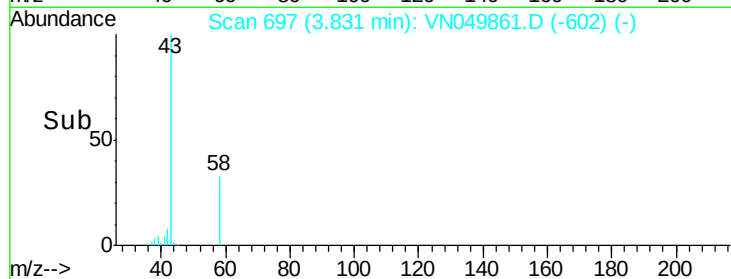
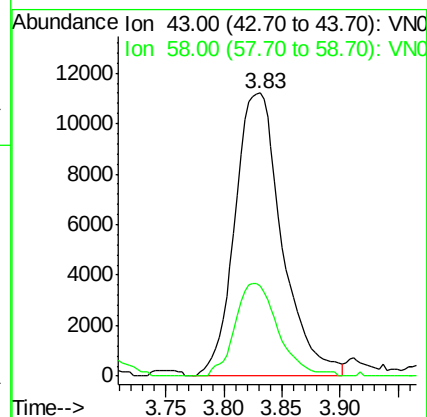
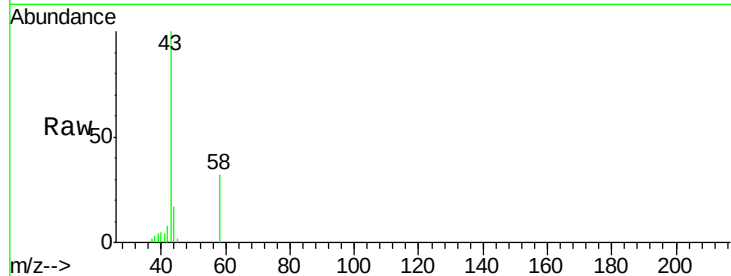




#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

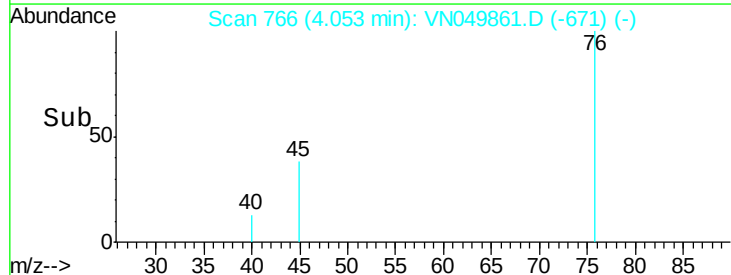
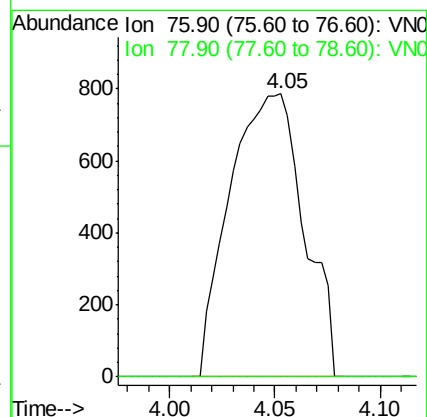
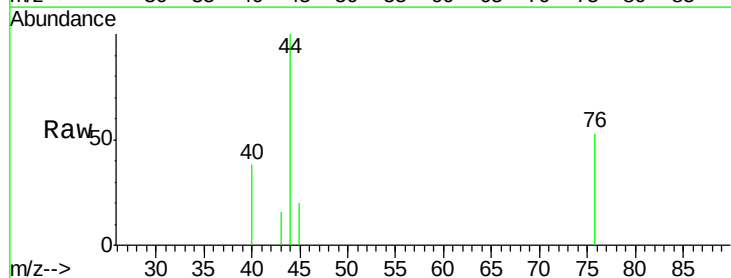
Instrument :
MSVOA_N
ClientSampleId :
PB111173ZHE#05

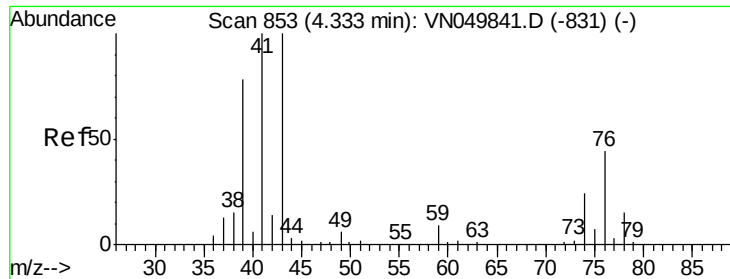
Tot Ion: 43 Resp: 31734
Ion Ratio Lower Upper
43 100
58 32.0 25.9 38.9



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.05 min Scan# 766
Delta R.T. 0.01 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

Tgt Ion: 76 Resp: 1924
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

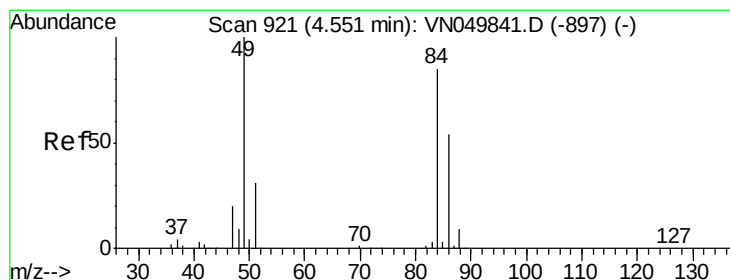
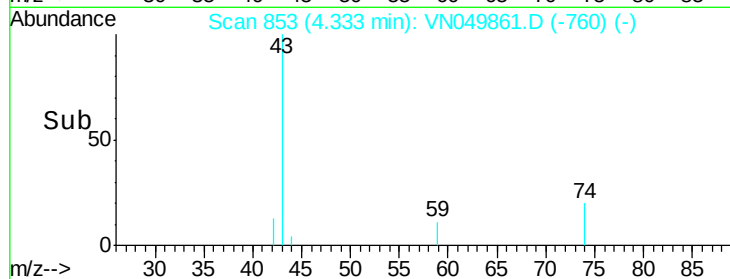
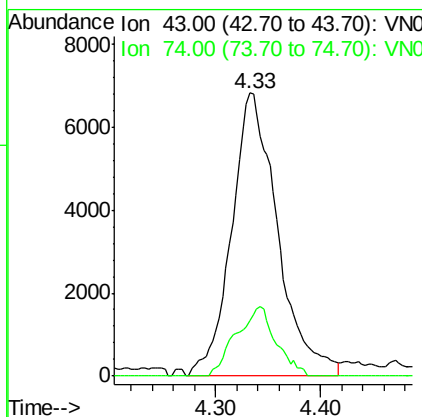
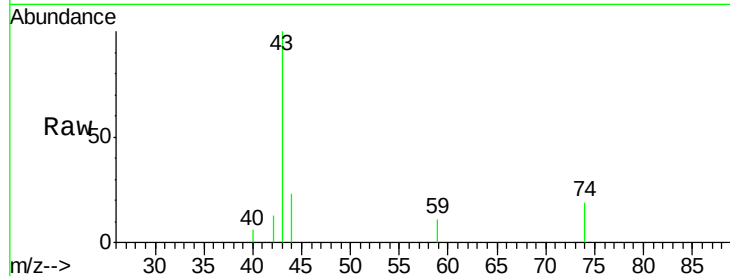




#18
Methvl Acetate
Concen: 1.19 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

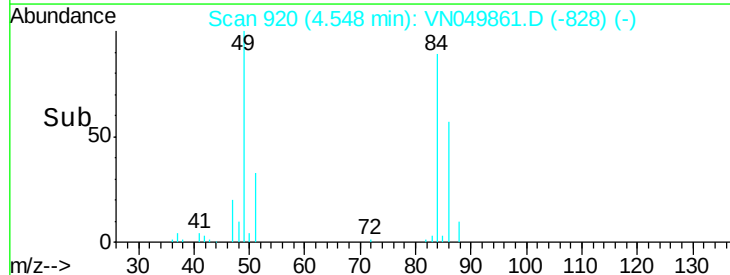
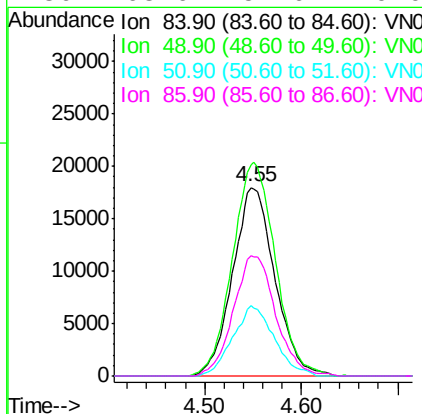
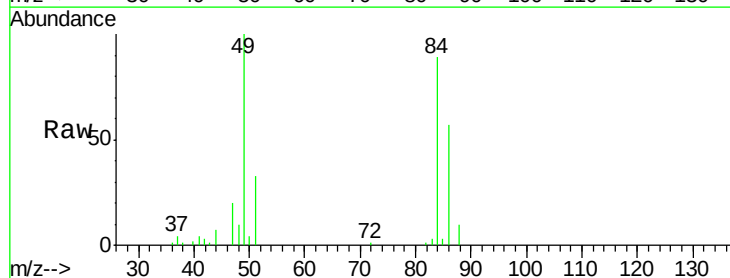
Instrument :
MSVOA_N
ClientSampleId :
PB111173ZHE#05

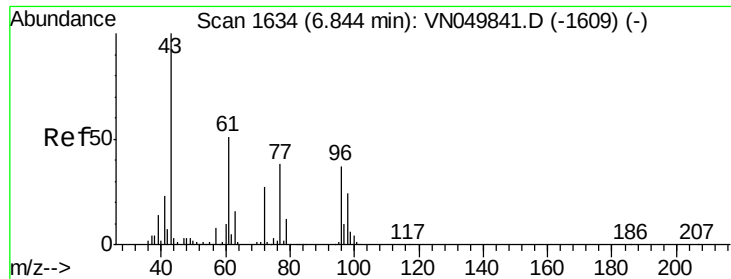
Tot Ion: 43 Resp: 20739
Ion Ratio Lower Upper
43 100
74 21.2 19.8 29.8



#20
Methylene Chloride
Concen: 6.35 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

Tgt Ion: 84 Resp: 54546
Ion Ratio Lower Upper
84 100
49 112.2 95.4 143.2
51 37.1 28.4 42.6
86 63.6 52.6 79.0





#25

2-Butanone

Concen: 1.83 ug/l

RT: 6.86 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

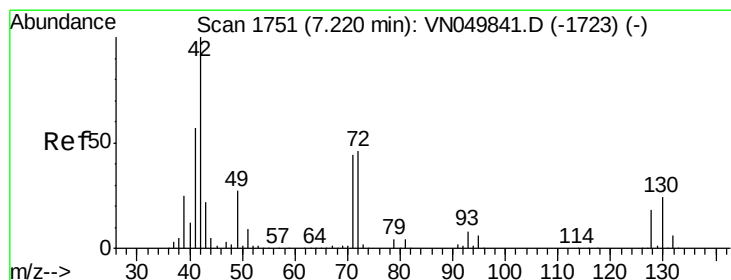
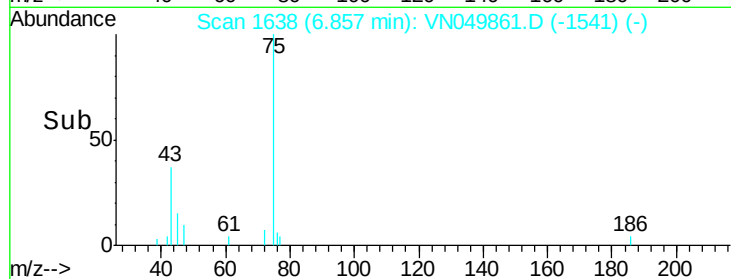
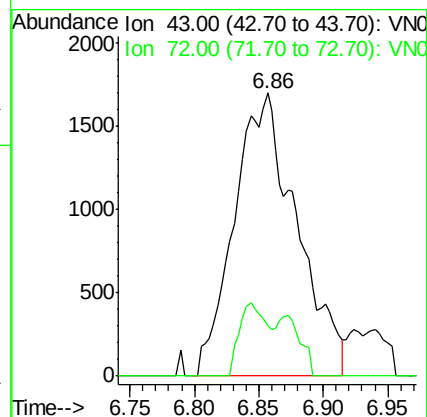
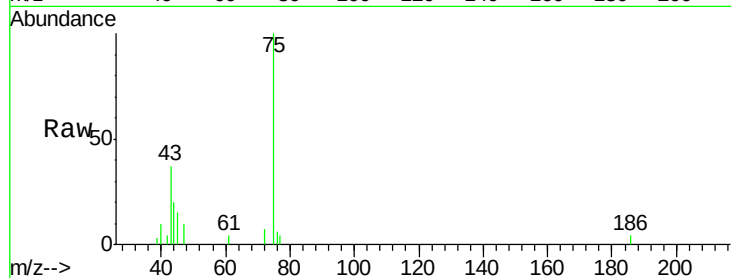
PB111173ZHE#05

Tot Ion: 43 Resp: 5732

Ion Ratio Lower Upper

43 100

72 17.9 22.1 33.1#



#29

Tetrahydrofuran

Concen: 0.24 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. -0.00 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

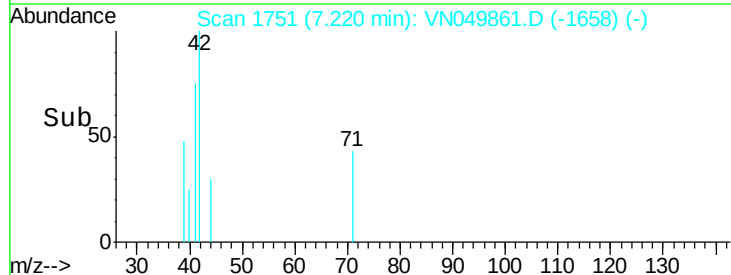
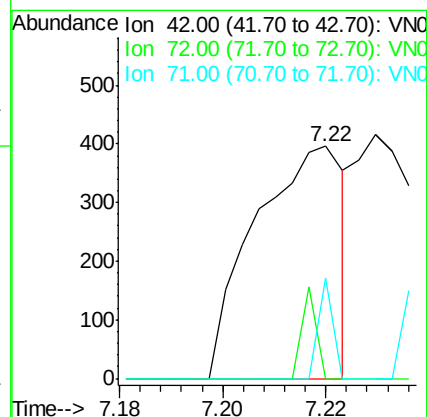
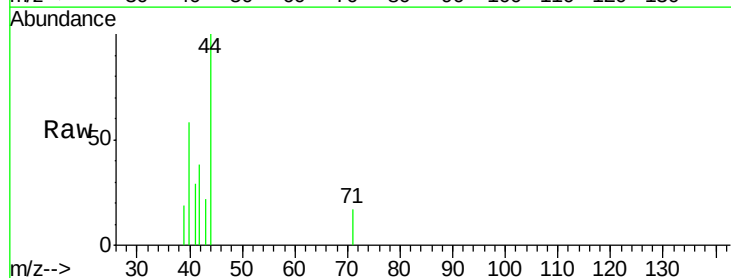
Tgt Ion: 42 Resp: 473

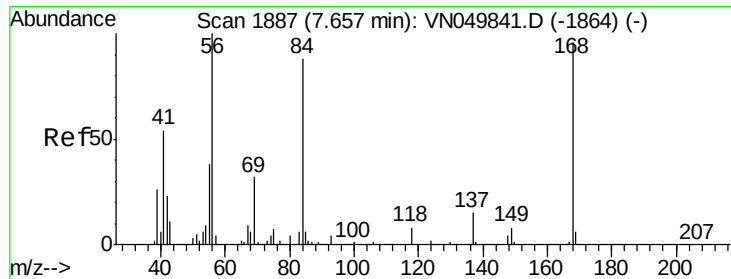
Ion Ratio Lower Upper

42 100

72 6.3 35.6 53.4#

71 7.0 34.0 51.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

PB111173ZHE#05

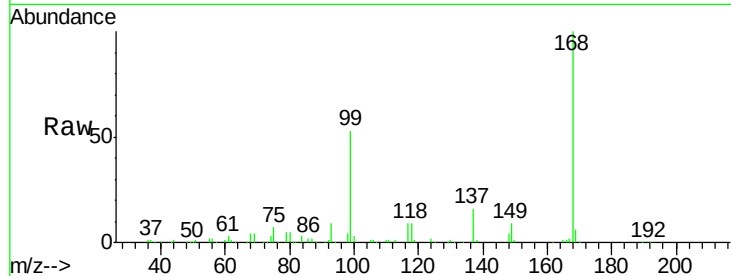
Tot Ion: 56 Resp: 10967

Ion Ratio Lower Upper

56 100

69 191.9 26.6 40.0#

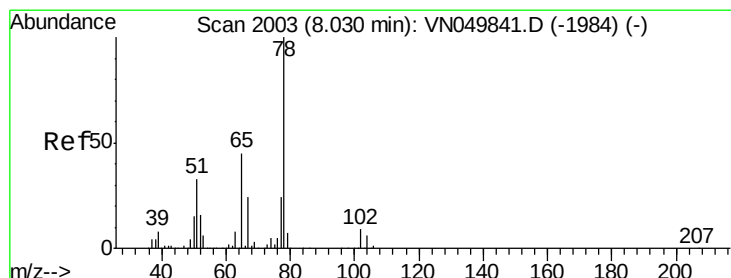
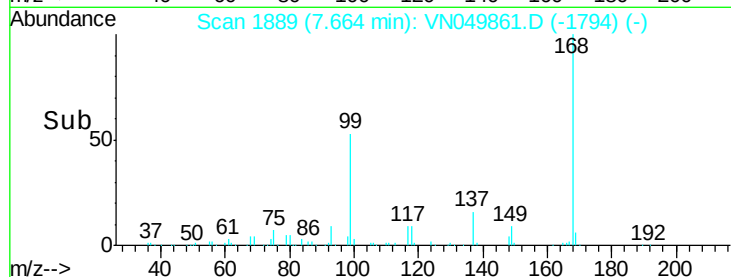
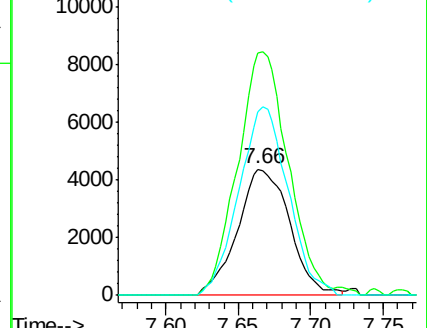
84 144.7 69.0 103.6#



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: 53.96 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN049861.D

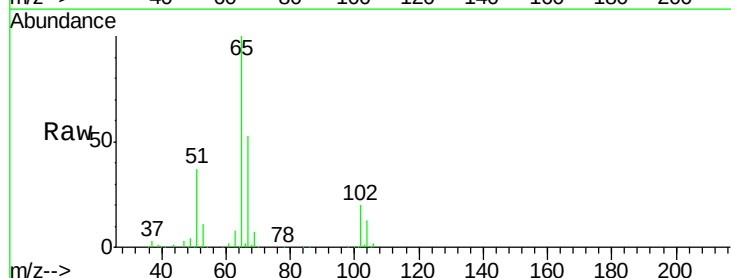
Acq: 17 Jul 2018 21:47

Tgt Ion: 65 Resp: 411061

Ion Ratio Lower Upper

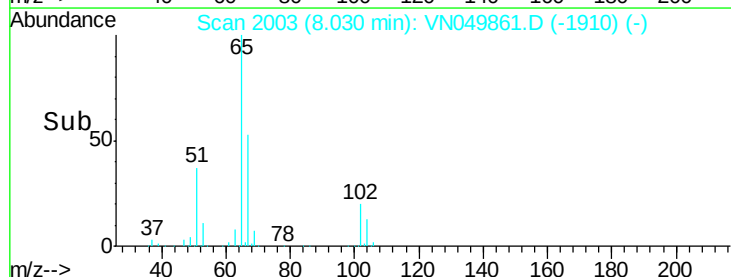
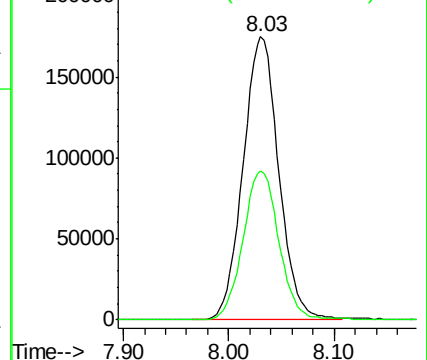
65 100

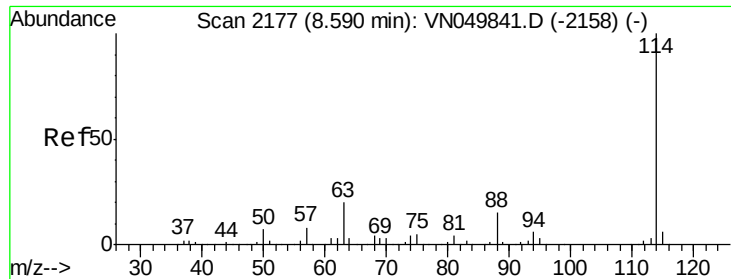
67 52.8 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

PB111173ZHE#05

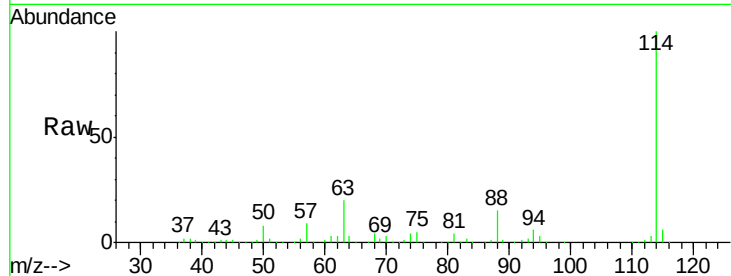
Tot Ion:114 Resp: 950451

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.8

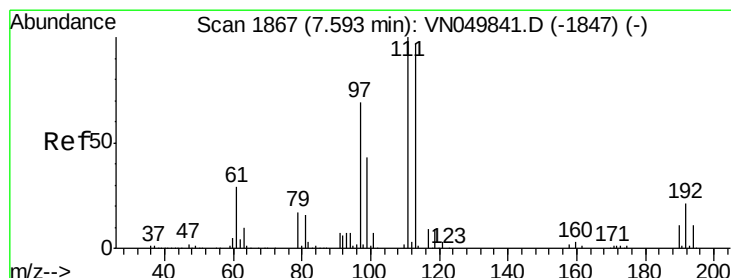
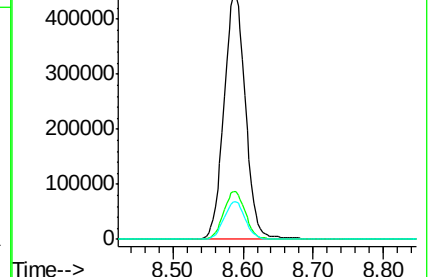
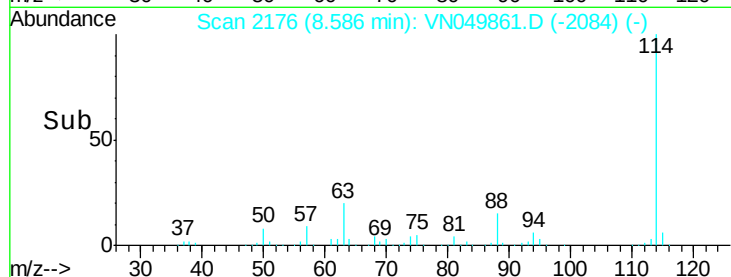
88 15.3 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.64 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

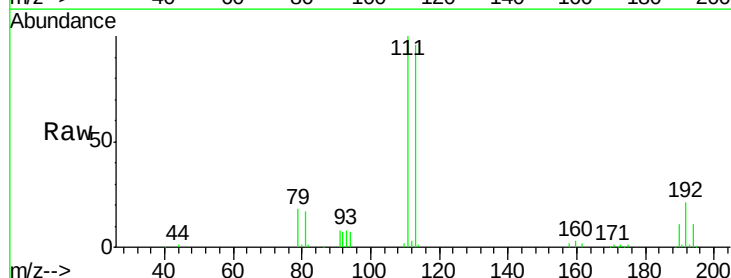
Tgt Ion:113 Resp: 359171

Ion Ratio Lower Upper

113 100

111 101.6 81.8 122.8

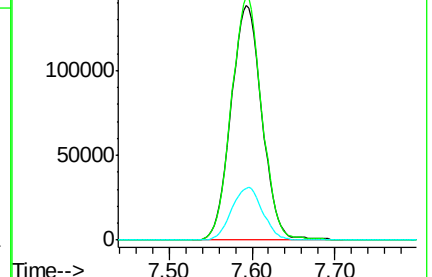
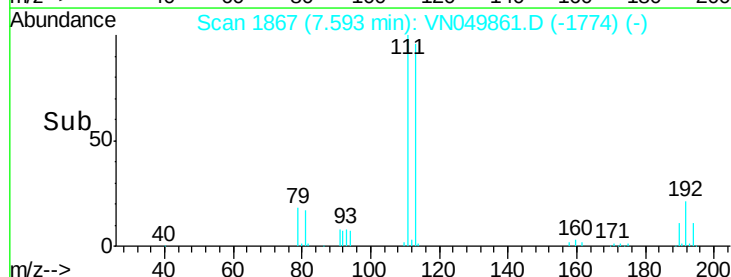
192 22.5 17.8 26.6

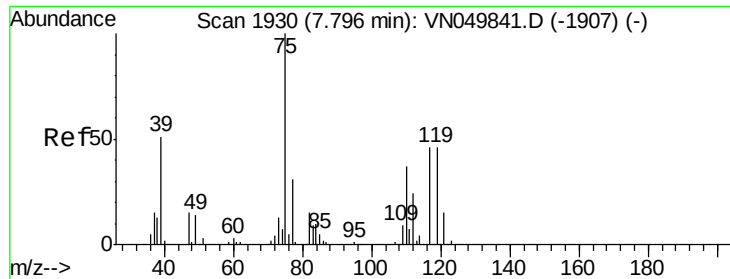


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

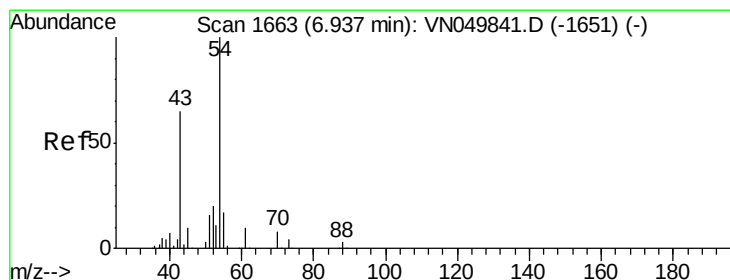
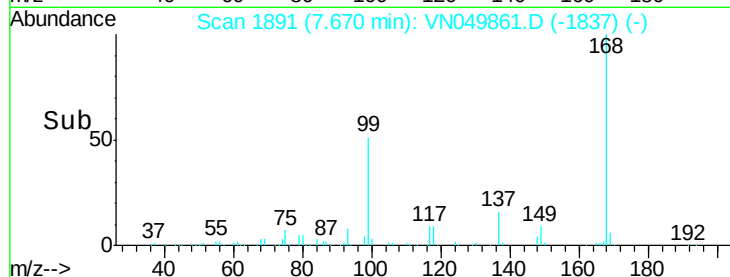
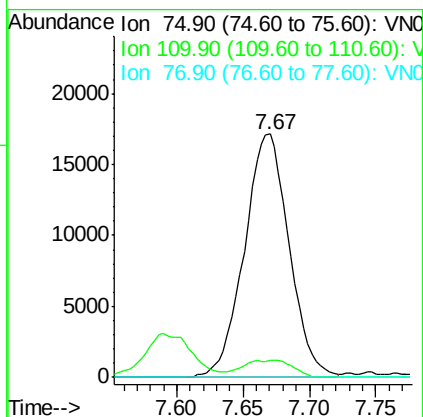
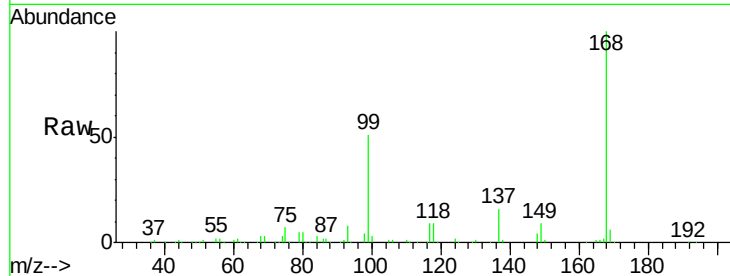




#36
 1,1-Dichloropropene
 Concen: 4.01 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN049861.D
 Acq: 17 Jul 2018 21:47

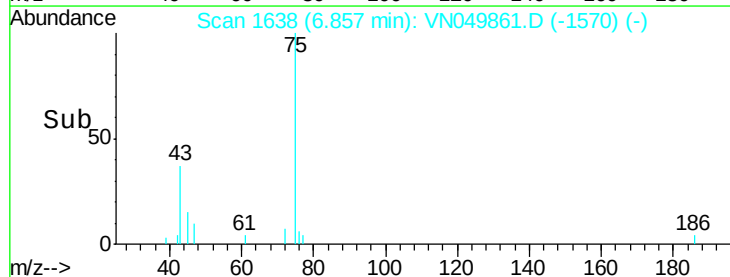
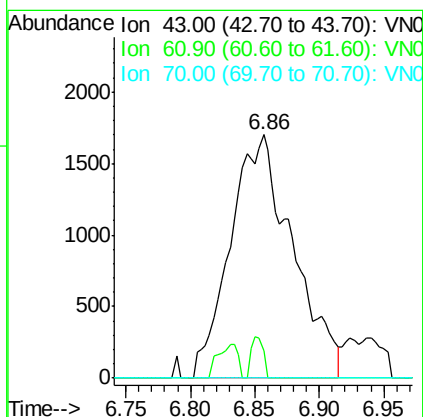
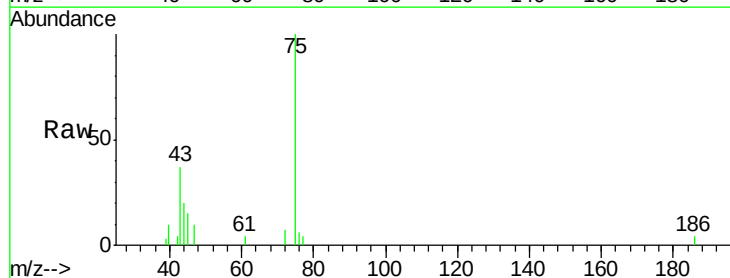
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111173ZHE#05

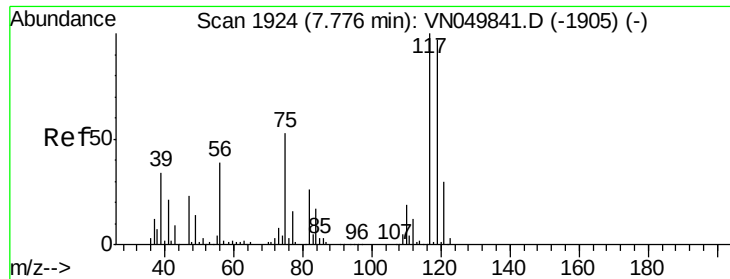
Tot Ion: 75 Resp: 40349
 Ion Ratio Lower Upper
 75 100
 110 7.7 18.1 54.4#
 77 0.0 24.9 37.3#



#37
 Ethyl Acetate
 Concen: 0.76 ug/l
 RT: 6.86 min Scan# 1638
 Delta R.T. -0.08 min
 Lab File: VN049861.D
 Acq: 17 Jul 2018 21:47

Tgt Ion: 43 Resp: 5732
 Ion Ratio Lower Upper
 43 100
 61 3.3 11.7 17.5#
 70 0.0 8.4 12.6#

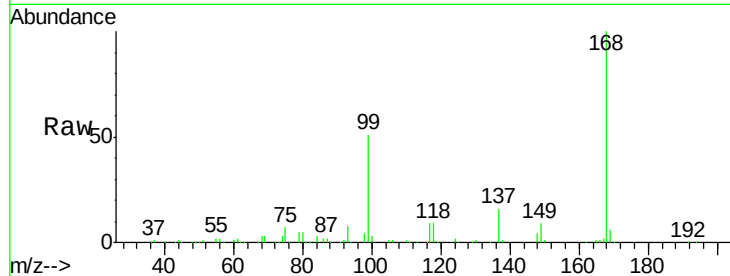




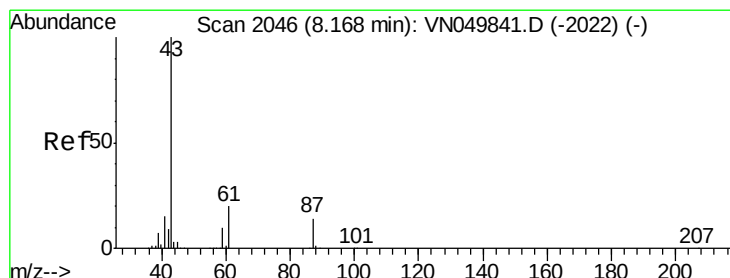
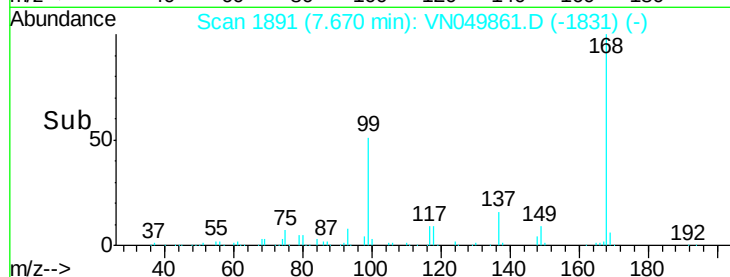
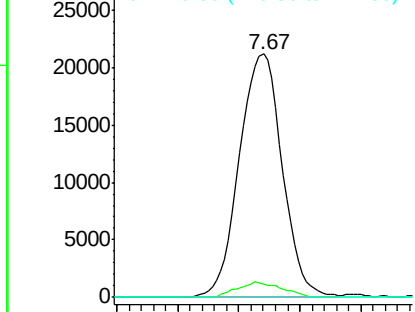
#38
Carbon Tetrachloride
Concen: 4.87 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

Instrument :
MSVOA_N
ClientSampleId :
PB111173ZHE#05

Tot Ion:117 Resp: 51569
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 25.0 37.6#

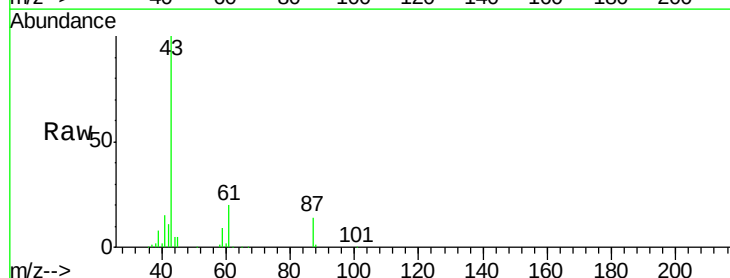


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

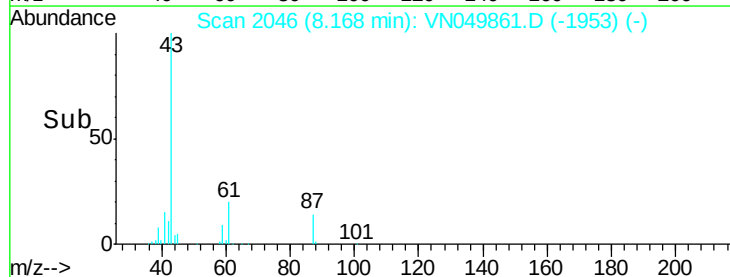
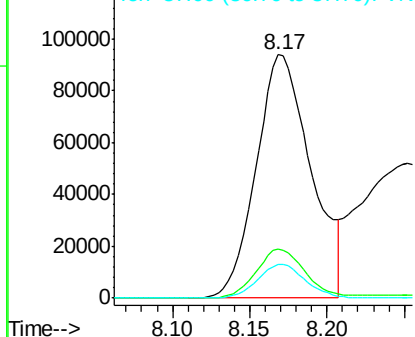


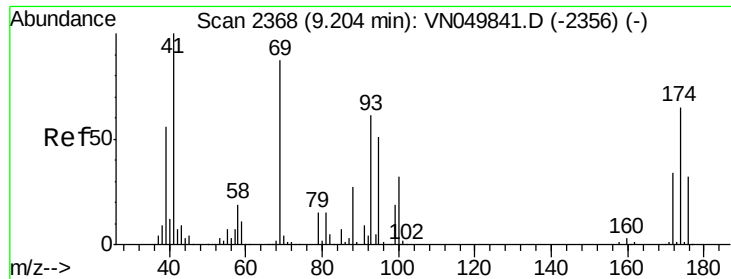
#43
Isopropyl Acetate
Concen: 18.17 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. -0.00 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

Tgt Ion: 43 Resp: 231831
Ion Ratio Lower Upper
43 100
61 18.2 14.9 22.3
87 12.2 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

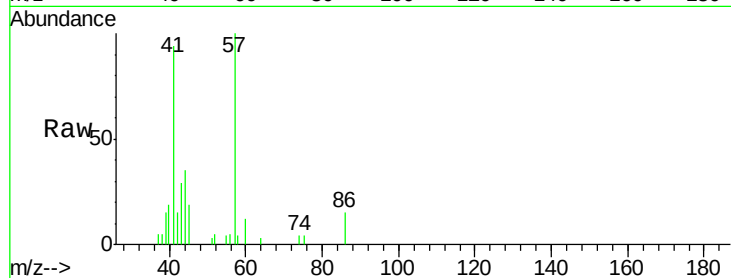




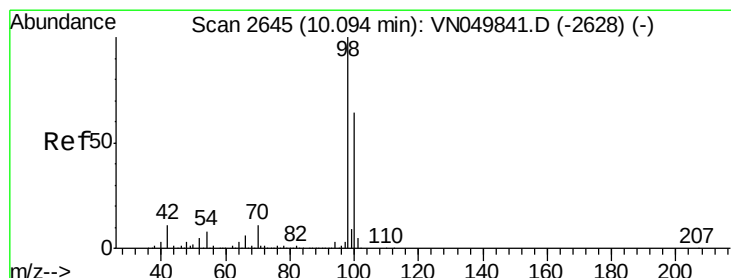
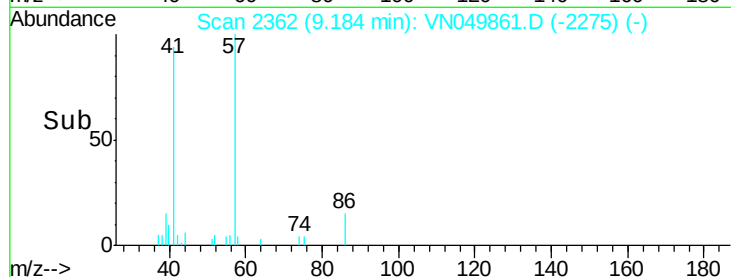
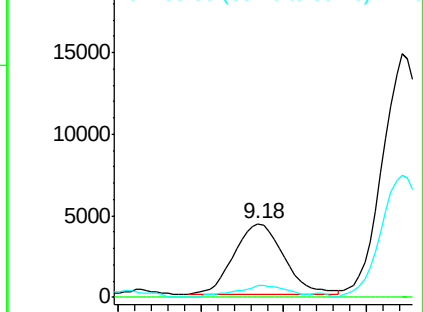
#48
Methvl methacrylate
Concen: 1.44 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

Instrument :
MSVOA_N
ClientSampleId :
PB111173ZHE#05

Tot Ion: 41 Resp: 9141
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 17.4 44.7 67.1#

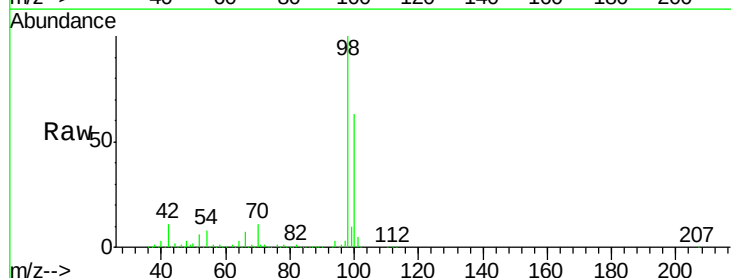


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

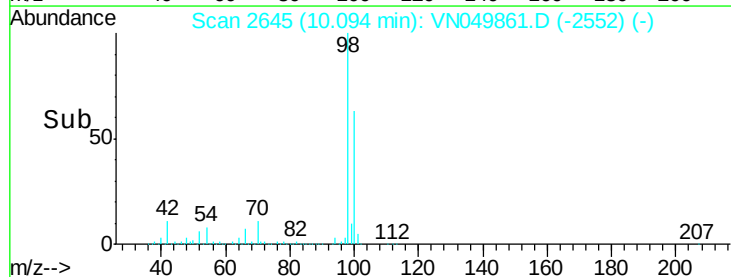
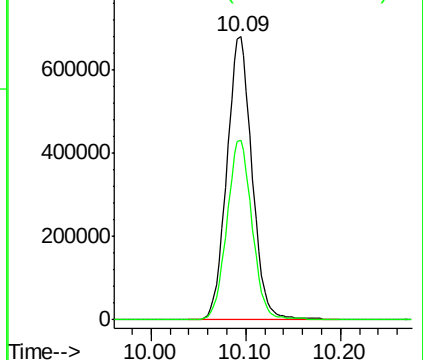


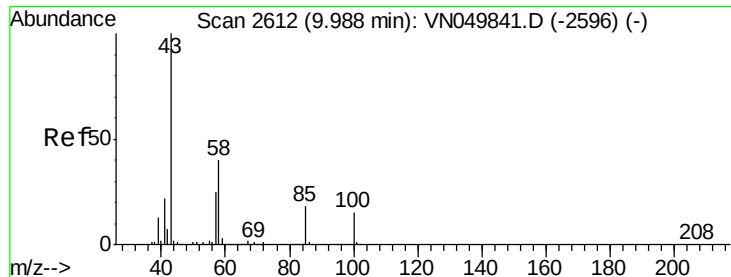
#50
Toluene-d8
Concen: 45.42 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

Tgt Ion: 98 Resp: 1257335
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.43 ug/l

RT: 9.99 min Scan# 2614

Delta R.T. 0.01 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

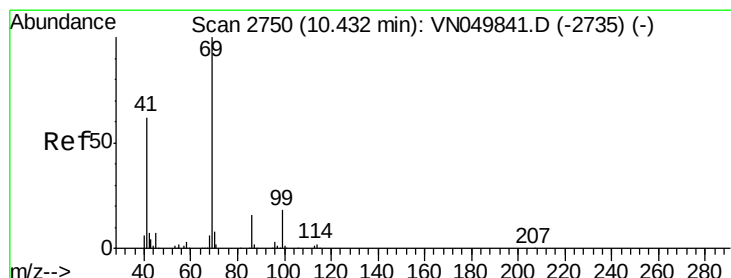
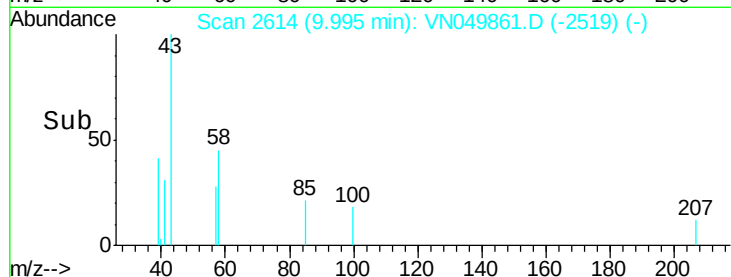
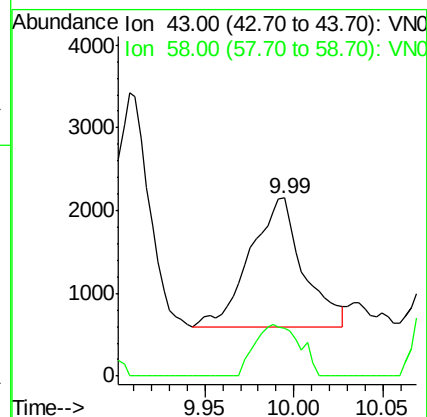
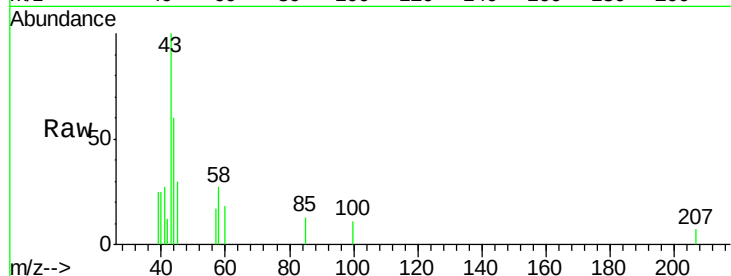
PB111173ZHE#05

Tot Ion: 43 Resp: 3232

Ion Ratio Lower Upper

43 100

58 34.1 31.8 47.8



#56

Ethyl methacrylate

Concen: 0.33 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

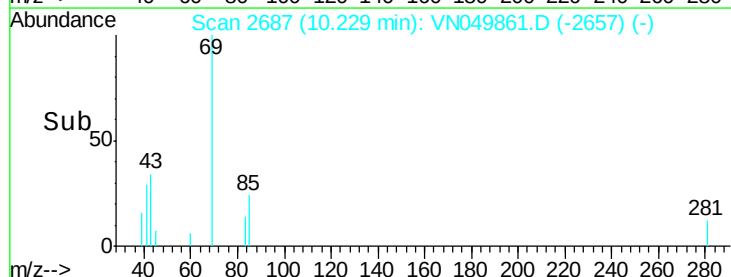
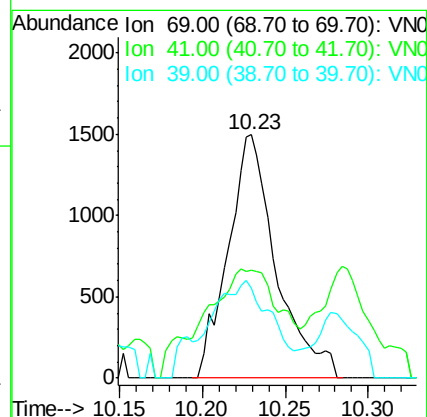
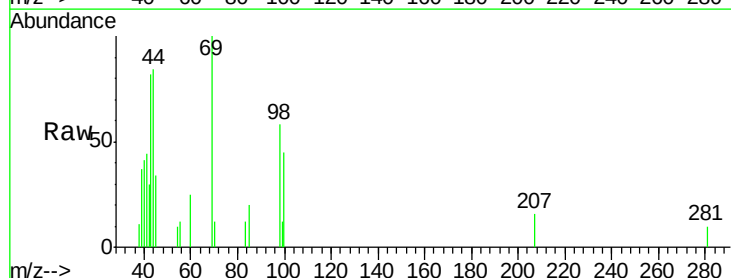
Tgt Ion: 69 Resp: 3017

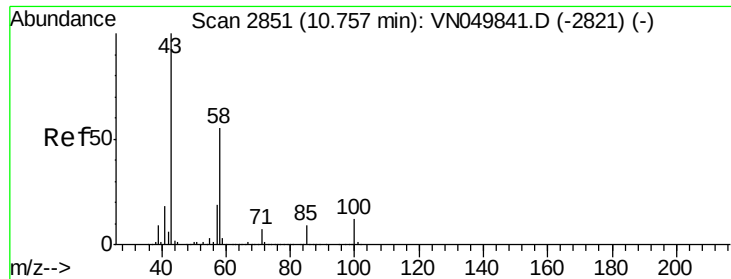
Ion Ratio Lower Upper

69 100

41 65.4 51.6 77.4

39 47.2 25.8 38.8#

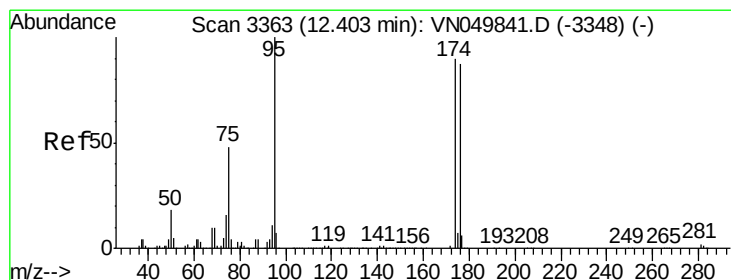
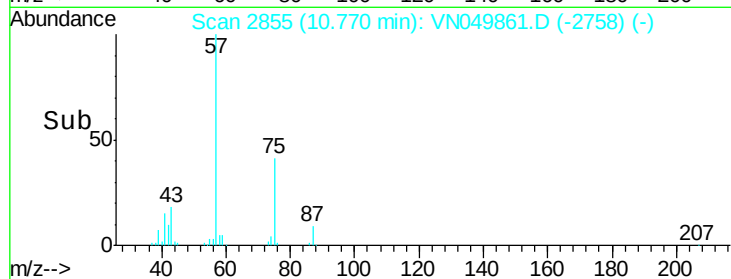
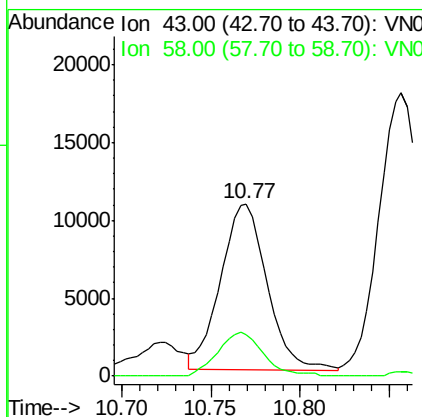
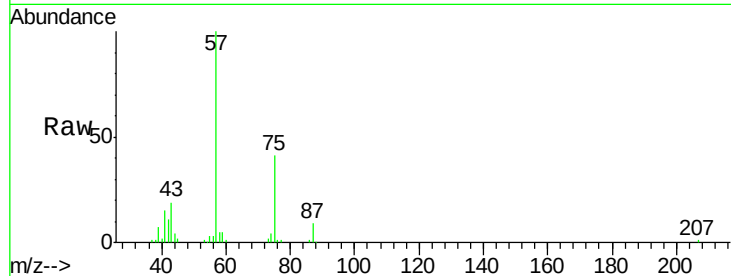




#59
 2-Hexanone
 Concen: 3.76 ug/l
 RT: 10.77 min Scan# 2855
 Delta R.T. 0.01 min
 Lab File: VN049861.D
 Acq: 17 Jul 2018 21:47

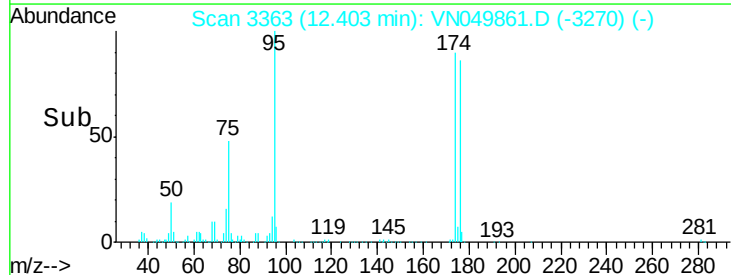
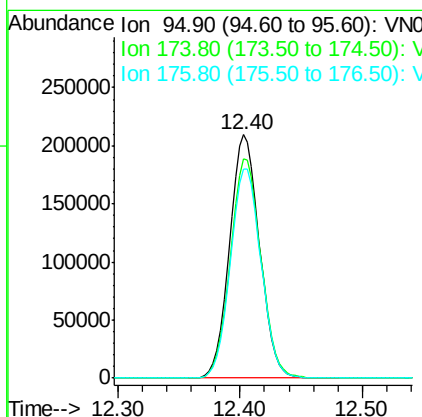
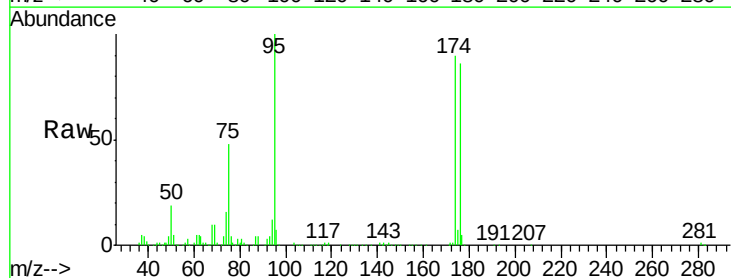
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111173ZHE#05

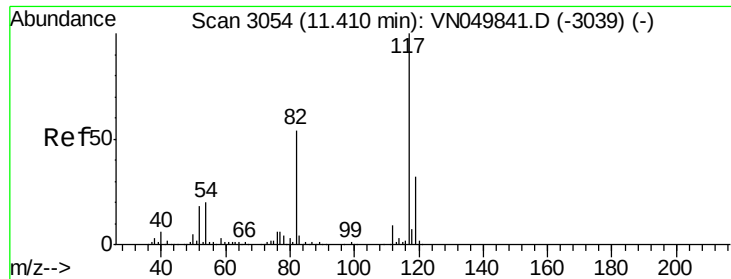
Tot Ion: 43 Resp: 19332
 Ion Ratio Lower Upper
 43 100
 58 26.0 27.8 83.4#



#62
 4-Bromofluorobenzene
 Concen: 38.54 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN049861.D
 Acq: 17 Jul 2018 21:47

Tgt Ion: 95 Resp: 357252
 Ion Ratio Lower Upper
 95 100
 174 91.9 0.0 179.6
 176 88.1 0.0 174.0

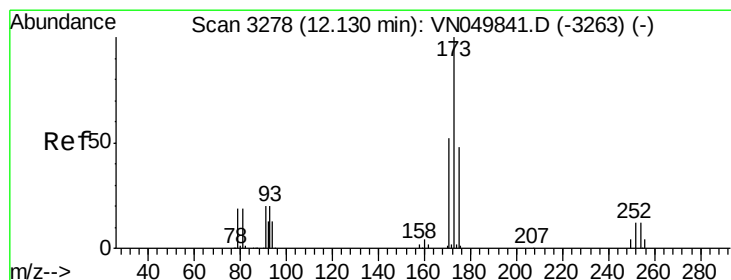
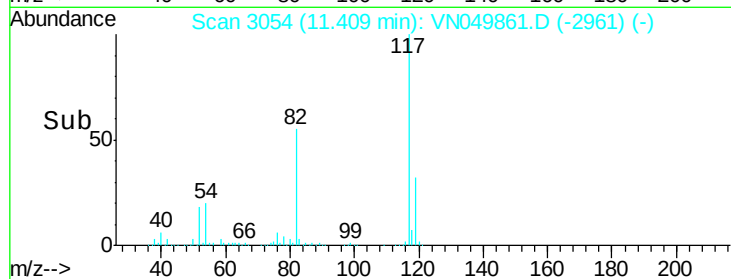
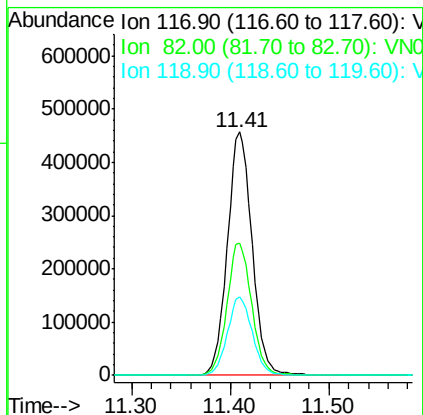
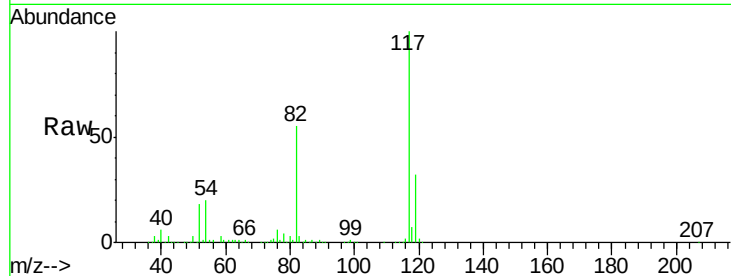




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

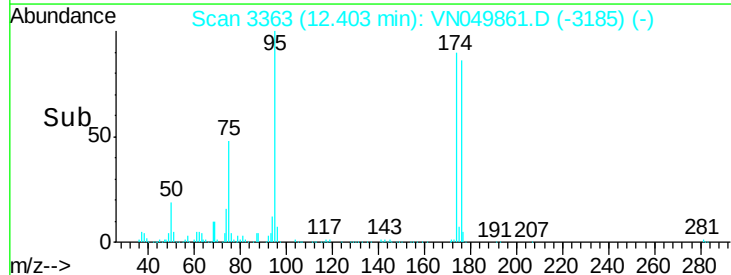
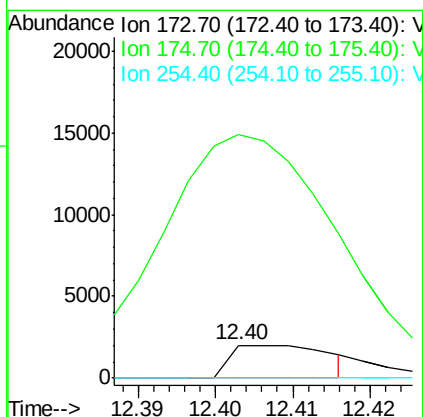
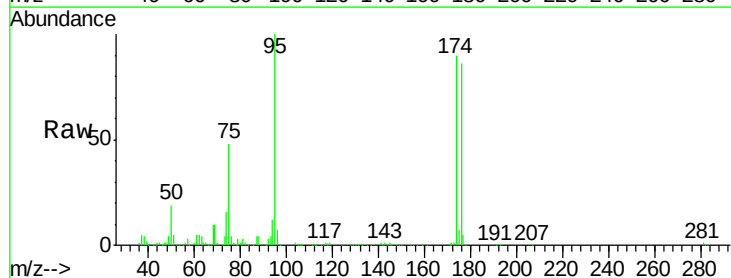
Instrument :
MSVOA_N
ClientSampleId :
PB111173ZHE#05

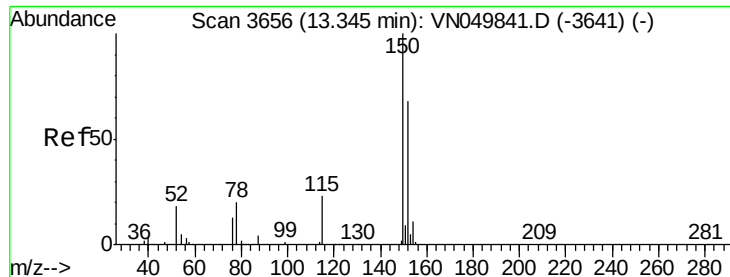
Tot Ion:117 Resp: 799816
Ion Ratio Lower Upper
117 100
82 54.6 41.9 62.9
119 32.2 25.4 38.2



#71
Bromoform
Concen: 0.32 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.27 min
Lab File: VN049861.D
Acq: 17 Jul 2018 21:47

Tgt Ion:173 Resp: 1780
Ion Ratio Lower Upper
173 100
175 1225.5 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

PB111173ZHE#05

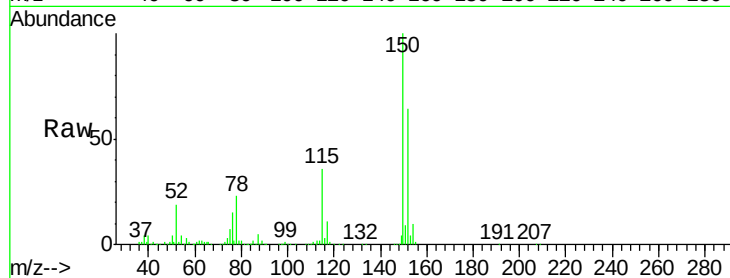
Tot Ion:152 Resp: 312658

Ion Ratio Lower Upper

152 100

115 55.7 28.1 84.2

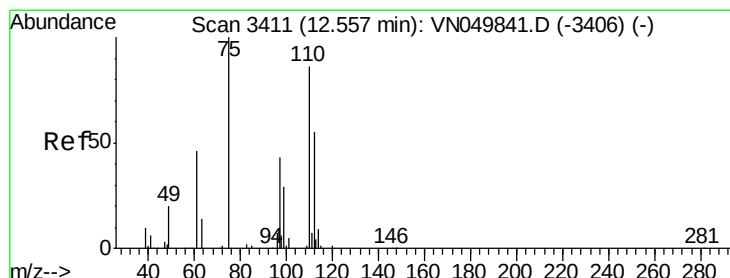
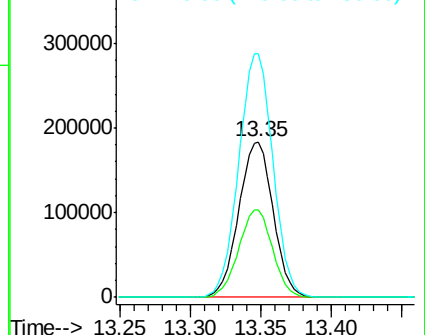
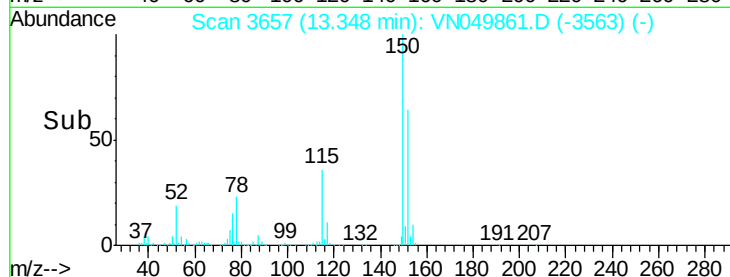
150 156.3 0.0 347.6



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



#76

1,2,3-Trichloropropane

Concen: 28.73 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049861.D

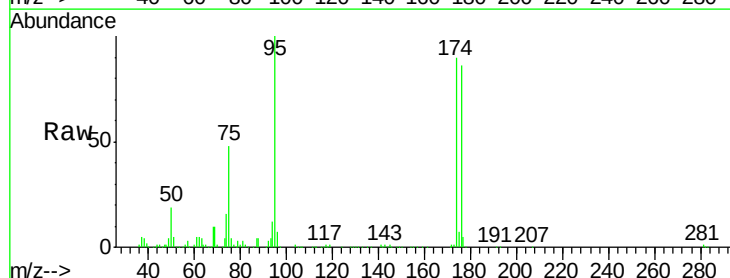
Acq: 17 Jul 2018 21:47

Tgt Ion: 75 Resp: 175743

Ion Ratio Lower Upper

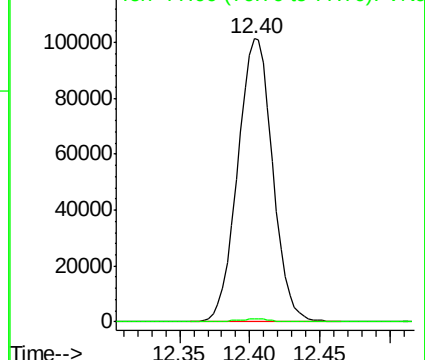
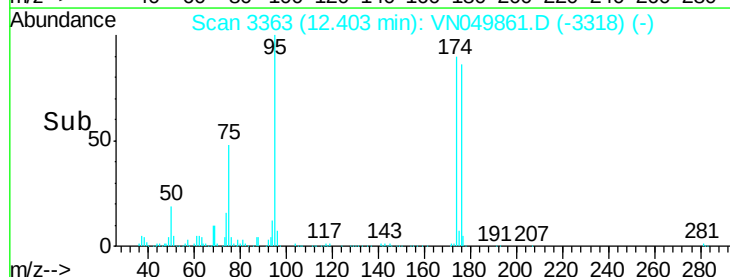
75 100

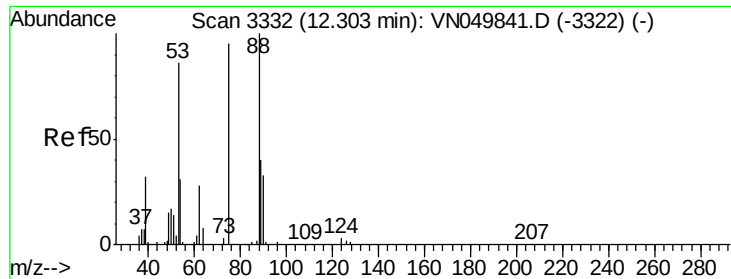
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 94.02 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

PB111173ZHE#05

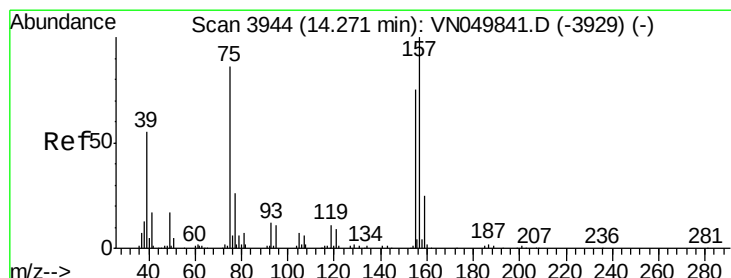
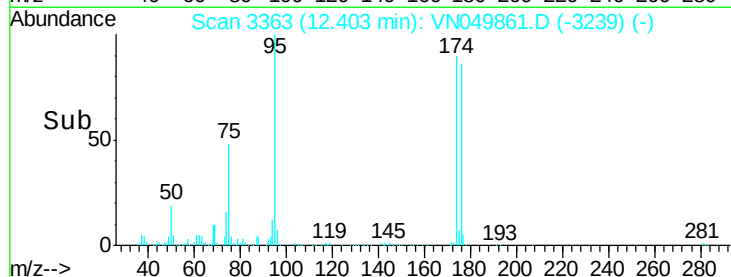
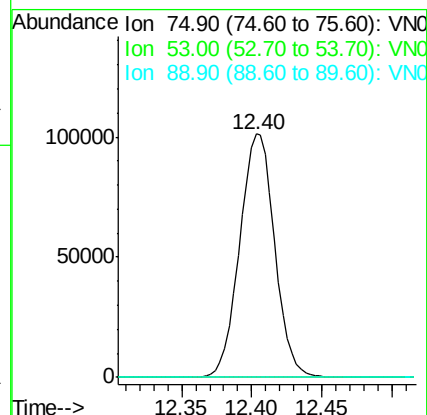
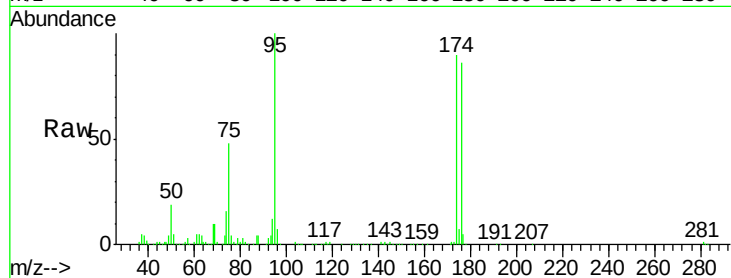
Tot Ion: 75 Resp: 175743

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

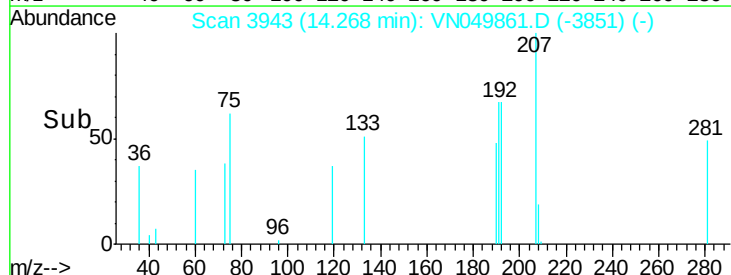
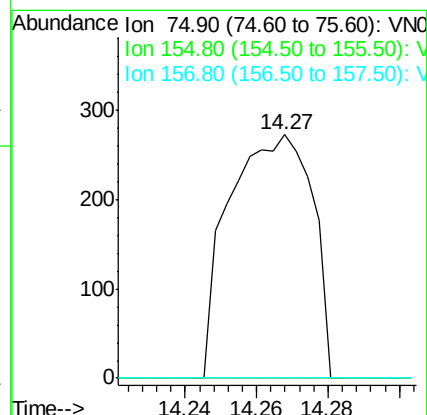
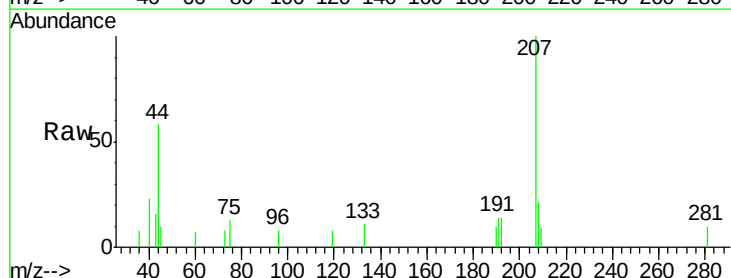
Tgt Ion: 75 Resp: 439

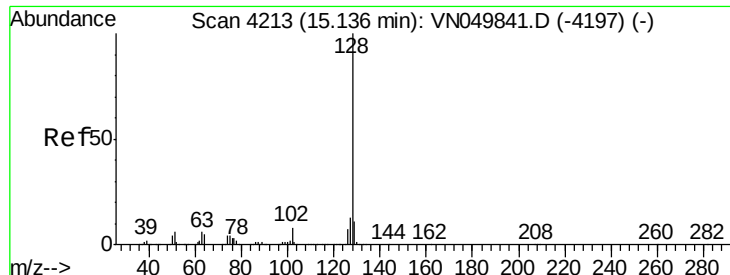
Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

157 0.0 56.9 170.7#





#95

Naphthalene

Concen: 2.85 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049861.D

Acq: 17 Jul 2018 21:47

Instrument :

MSVOA_N

ClientSampleId :

PB111173ZHE#05

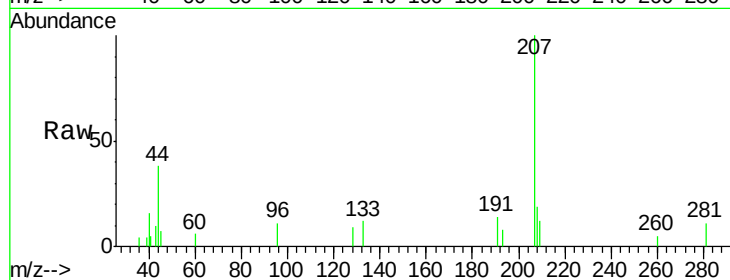
Tot Ion:128 Resp: 412

Ion Ratio Lower Upper

128 100

127 0.0 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

