

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049401.D
 Acq On : 19 Jun 2018 22:04
 Operator : MD\SY
 Sample : PB110363ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

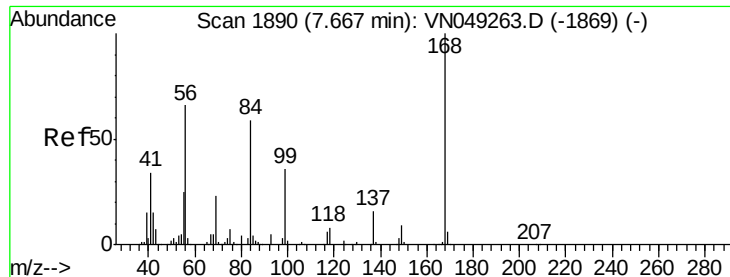
Quant Time: Jun 20 04:34:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1198994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1947157	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1597309	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	441841	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	803771	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
35) Dibromofluoromethane	7.60	113	722895	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
50) Toluene-d8	10.09	98	2609474	43.50	ug/l	0.00
Spiked Amount			Recovery	=	87.00%	
62) 4-Bromofluorobenzene	12.41	95	659934	33.27	ug/l	0.00
Spiked Amount			Recovery	=	66.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	247	0.25	ug/l #	1
16) Acetone	3.82	43	42984	11.13	ug/l #	88
18) Methyl Acetate	4.33	43	124761	10.60	ug/l	96
20) Methylene Chloride	4.55	84	30756	1.91	ug/l #	81
25) 2-Butanone	6.85	43	2989	0.58	ug/l	98
29) Tetrahydrofuran	7.22	42	3352	1.00	ug/l #	78
31) Cyclohexane	7.67	56	21600	0.74	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	83556	3.74	ug/l #	50
38) Carbon Tetrachloride	7.67	117	109268	4.73	ug/l #	18
43) Isopropyl Acetate	8.21	43	305225	13.17	ug/l #	66
49) 1,4-Dioxane	9.21	88	63	0.42	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4726	0.39	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.65	63	123	14.35	ug/l #	51
65) Chlorobenzene	11.44	112	22286	0.54	ug/l	100
71) Bromoform	12.40	173	4859	0.48	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.56	83	175	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	319795	42.42	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	319795	134.07	ug/l #	9
90) Hexachloroethane	14.05	117	30	Below Cal	#	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	616	0.46	ug/l #	4
95) Naphthalene	15.14	128	553	2.12	ug/l #	74

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

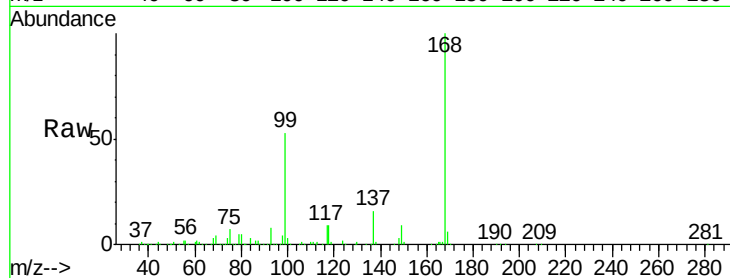
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1198994

Ion Ratio Lower Upper

168 100

99 52.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

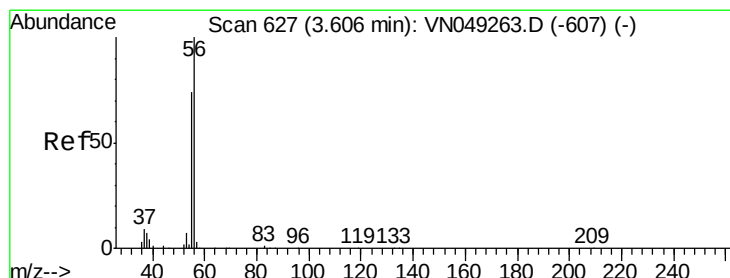
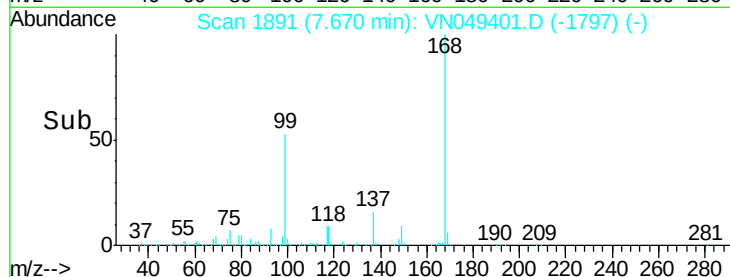
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.25 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN049401.D

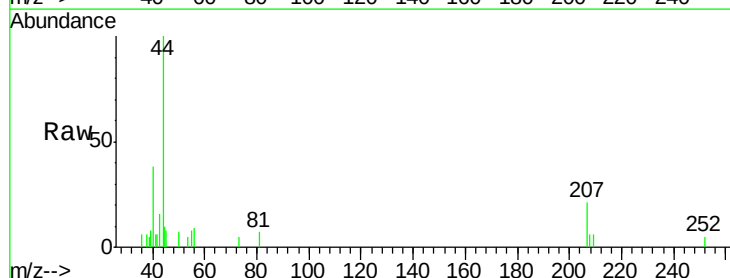
Acq: 19 Jun 2018 22:04

Tgt Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 168.0 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.62

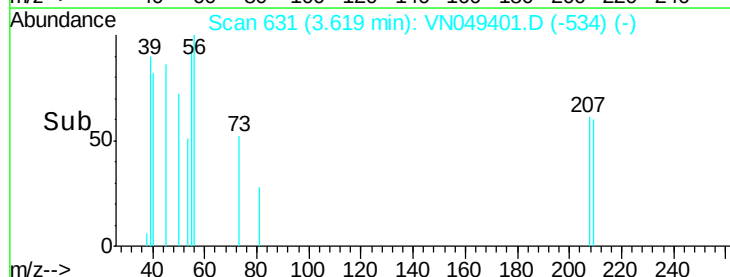
300

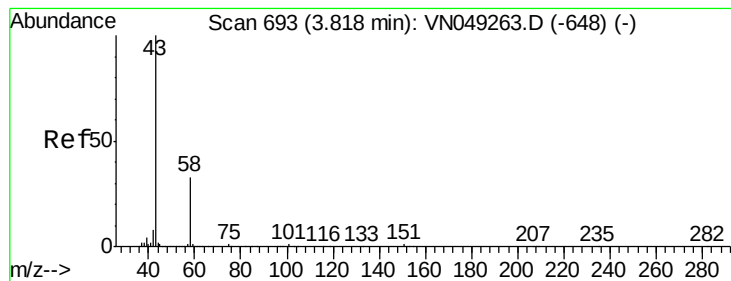
200

100

0

Time-->





#16

Acetone

Concen: 11.13 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

Instrument :

MSVOA_N

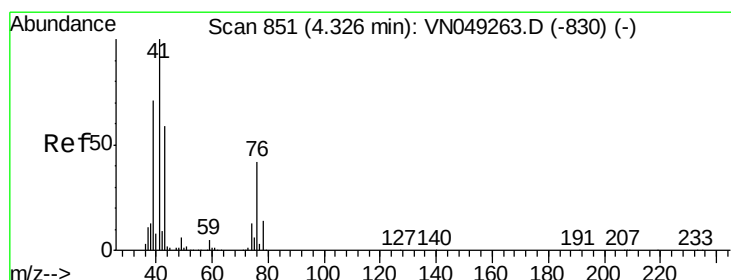
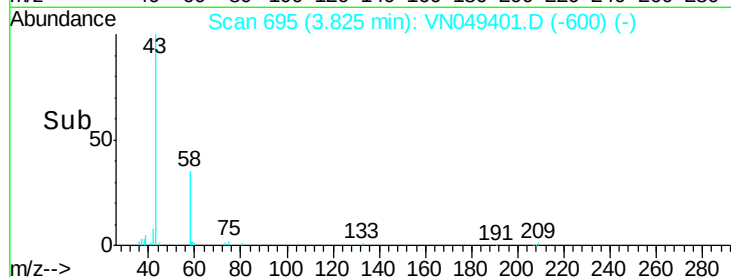
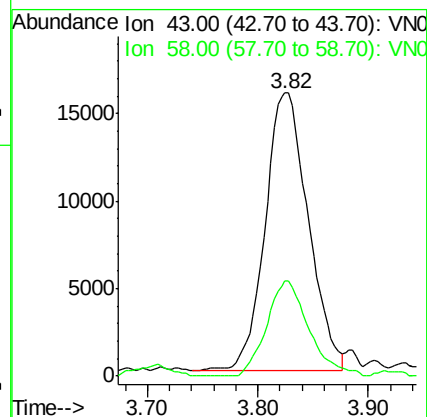
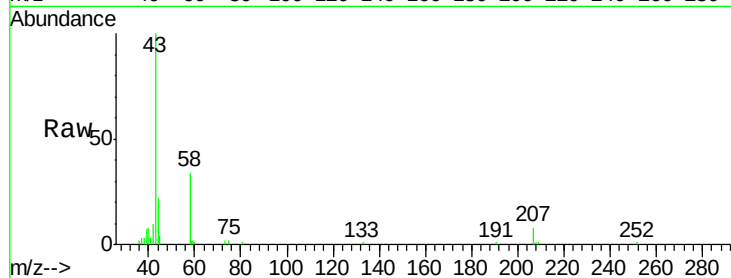
ClientSampleId :

Tot Ion: 43 Resp: 42984

Ion Ratio Lower Upper

43 100

58 34.4 22.4 33.6#



#18

Methyl Acetate

Concen: 10.60 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049401.D

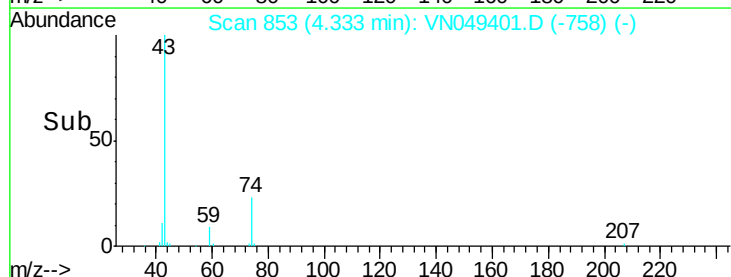
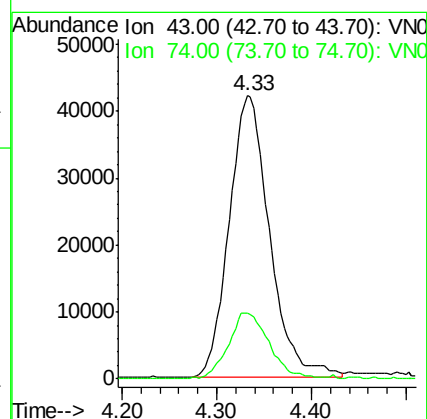
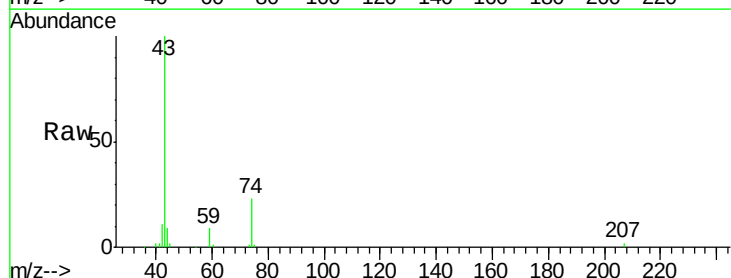
Acq: 19 Jun 2018 22:04

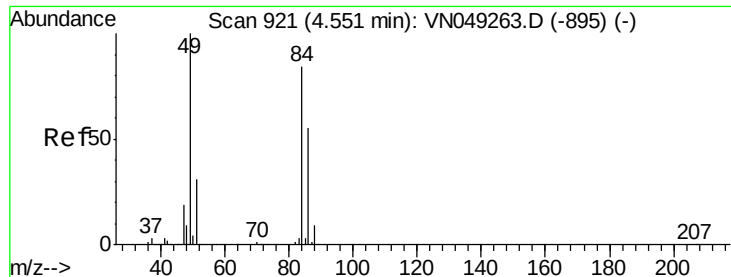
Tgt Ion: 43 Resp: 124761

Ion Ratio Lower Upper

43 100

74 23.7 17.4 26.0

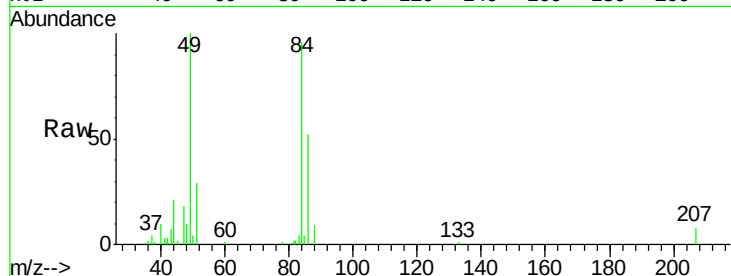




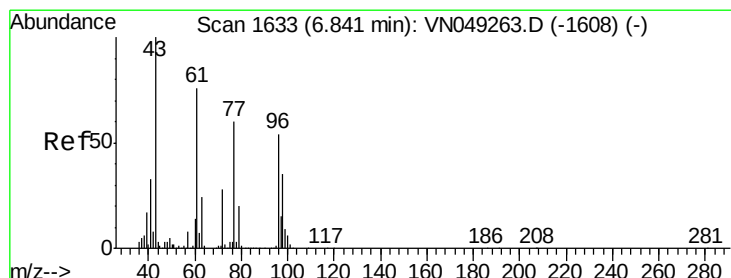
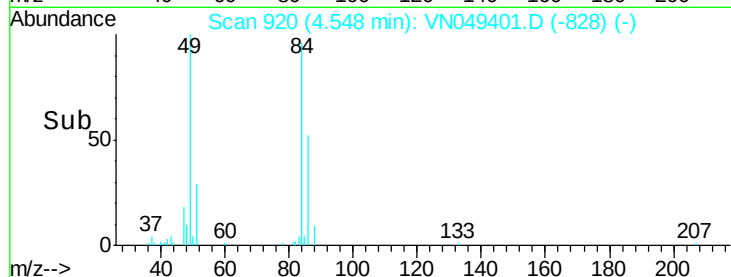
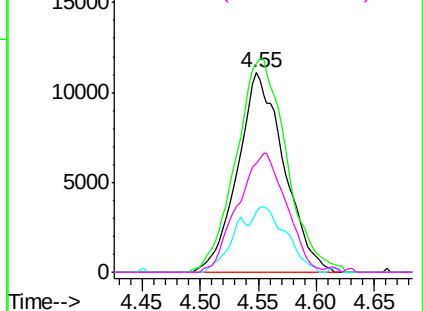
#20
Methylene Chloride
Concen: 1.91 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 30756
Ion Ratio Lower Upper
84 100
49 104.7 106.9 160.3#
51 30.4 32.7 49.1#
86 54.7 49.8 74.8

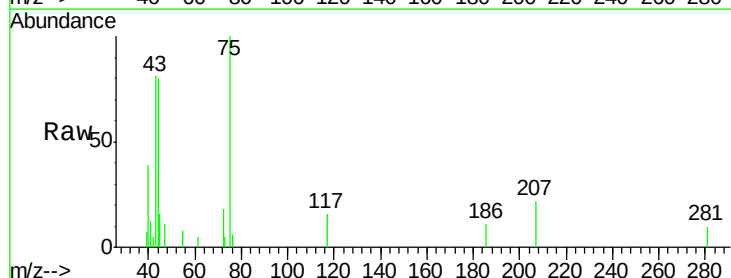


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

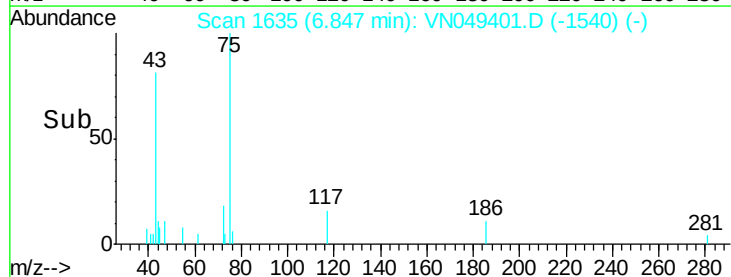
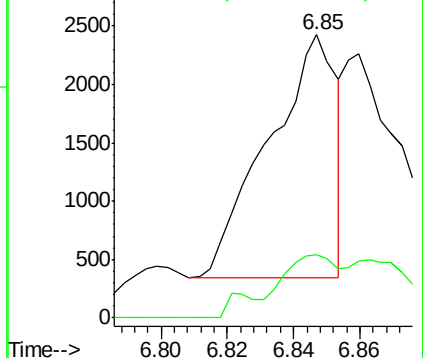


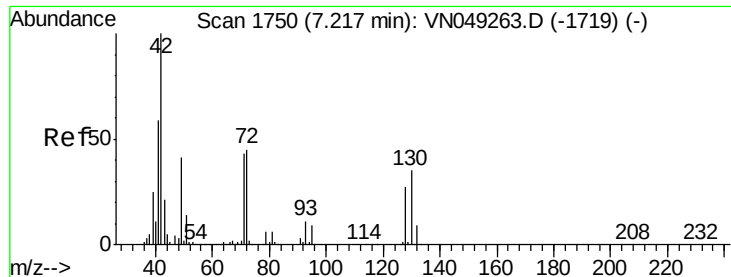
#25
2-Butanone
Concen: 0.58 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

Tgt Ion: 43 Resp: 2989
Ion Ratio Lower Upper
43 100
72 26.0 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 1.00 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

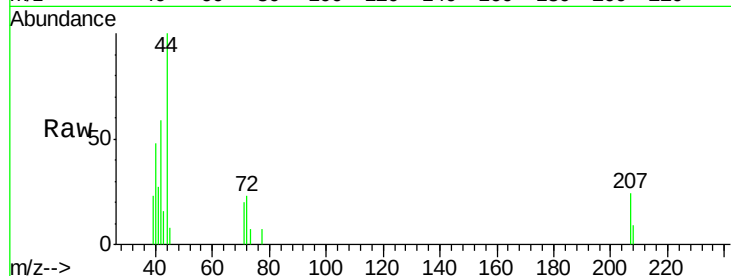
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 42 Resp: 3352

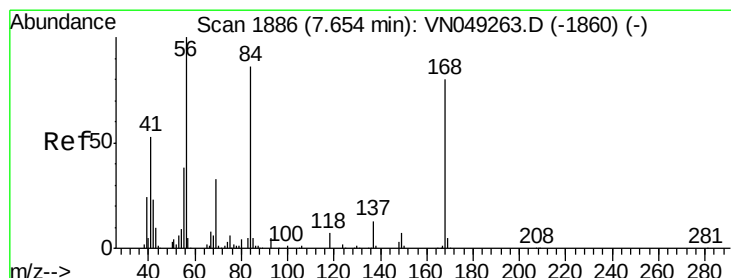
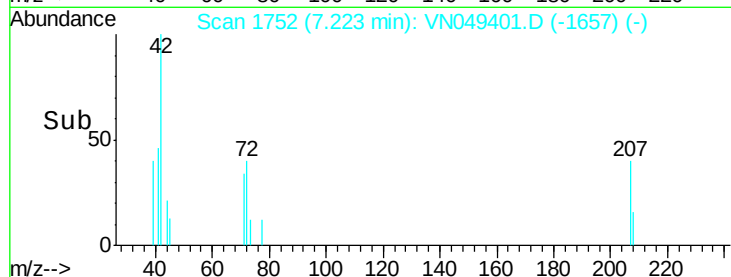
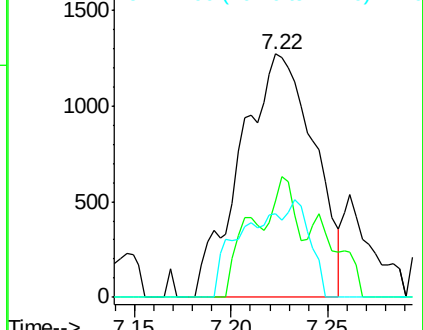
Ion	Ratio	Lower	Upper
42	100		
72	16.5	32.2	48.4#
71	35.3	30.5	45.7



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.74 ug/l

RT: 7.67 min Scan# 1892

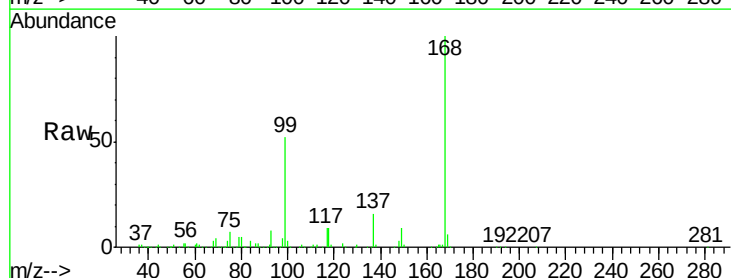
Delta R.T. 0.02 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

Tgt Ion: 56 Resp: 21600

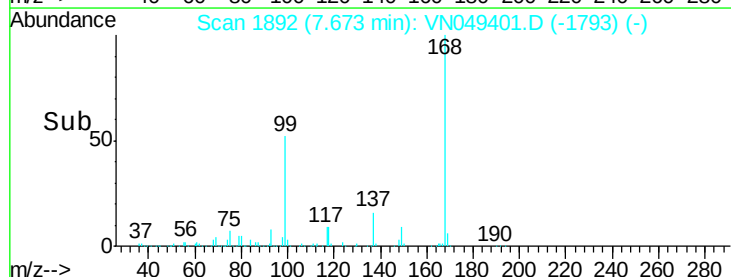
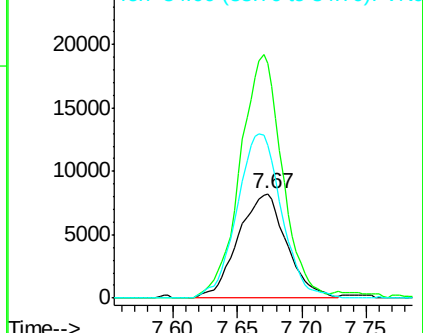
Ion	Ratio	Lower	Upper
56	100		
69	225.1	25.0	37.4#
84	146.7	64.6	96.8#

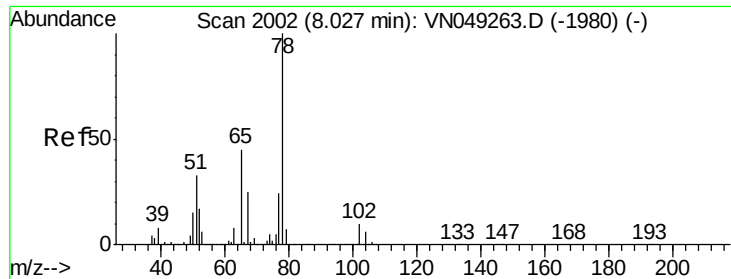


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

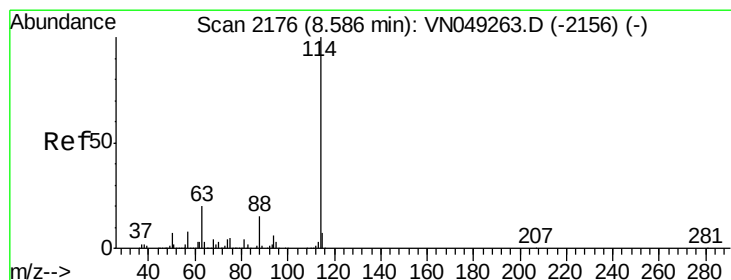
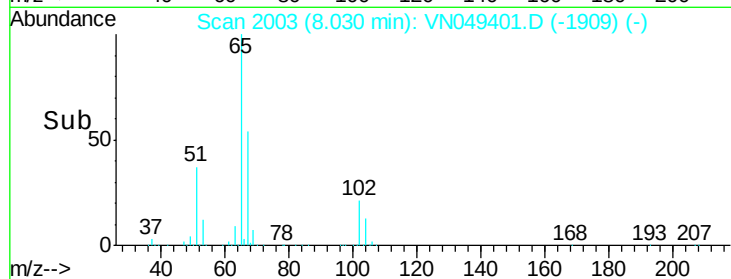
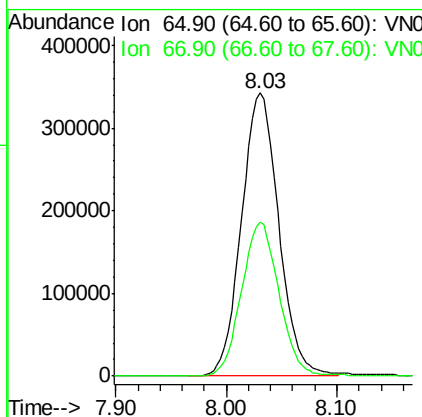
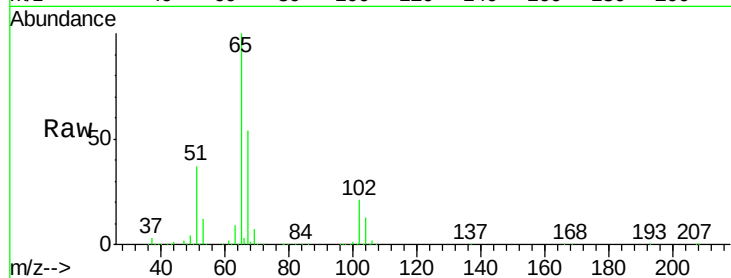




#33
 1,2-Dichloroethane-d4
 Concen: 50.54 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049401.D
 Acq: 19 Jun 2018 22:04

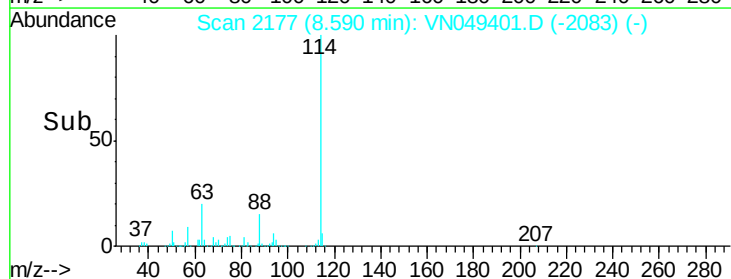
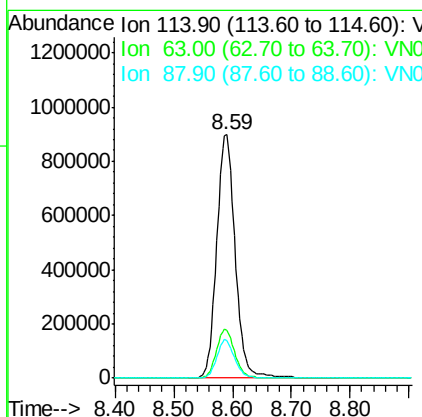
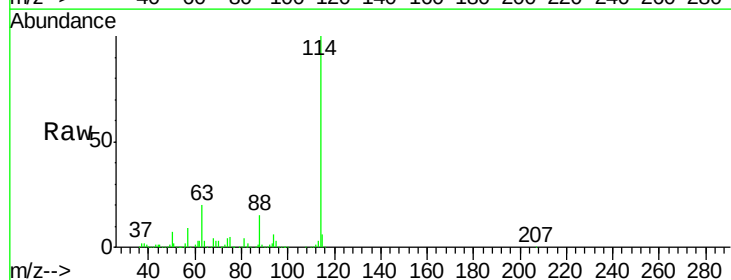
Instrument :
 MSVOA_N
 ClientSampleId :

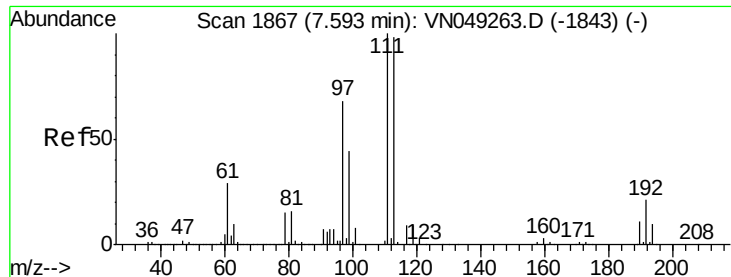
Tot Ion: 65 Resp: 803771
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049401.D
 Acq: 19 Jun 2018 22:04

Tgt Ion: 114 Resp: 1947157
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 44.4
 88 15.4 0.0 31.4

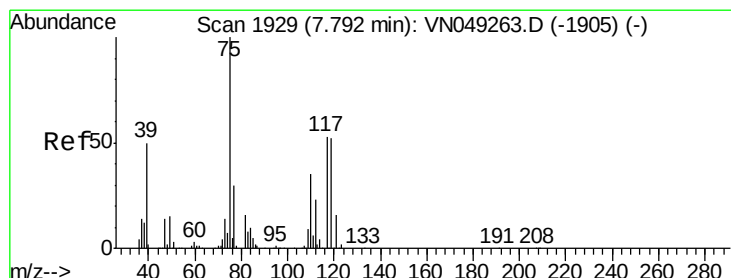
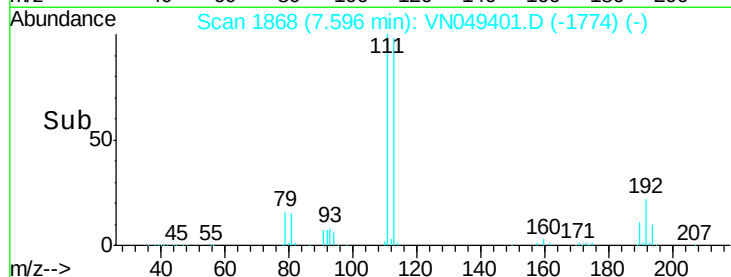
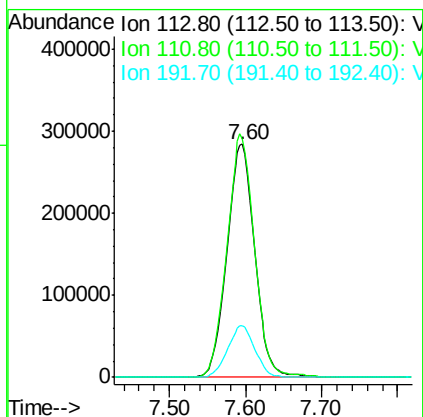
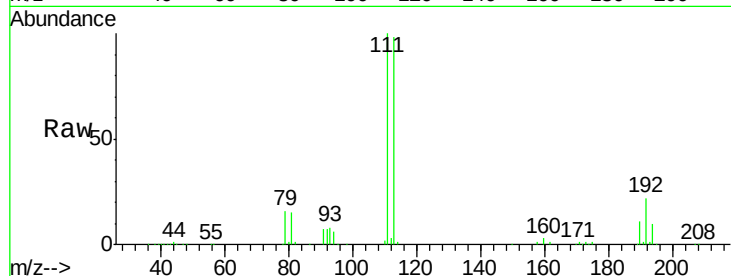




#35
Dibromofluoromethane
Concen: 45.89 ug/l
RT: 7.60 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

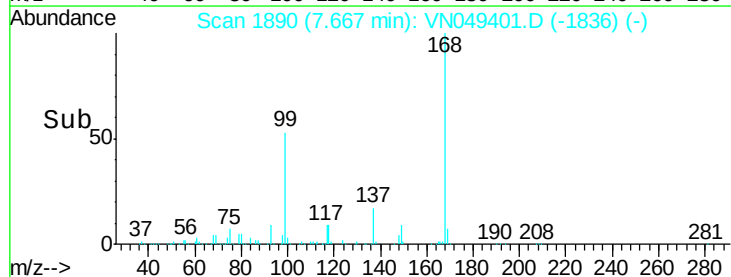
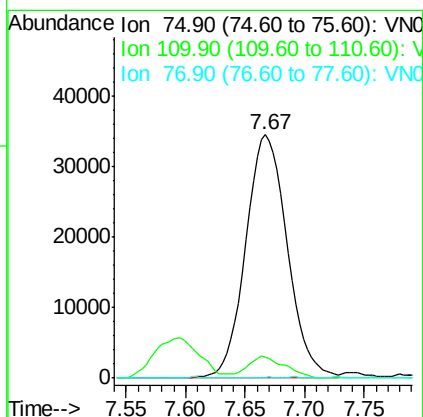
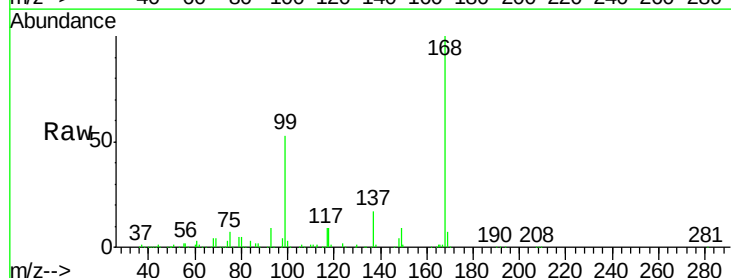
Instrument :
MSVOA_N
ClientSampleId :

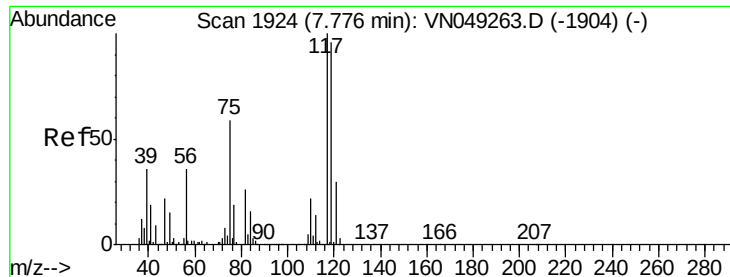
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.4	123.6
192	21.8	15.0	22.6



#36
1,1-Dichloropropene
Concen: 3.74 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.0	50.9#
77	0.0	24.4	36.6#

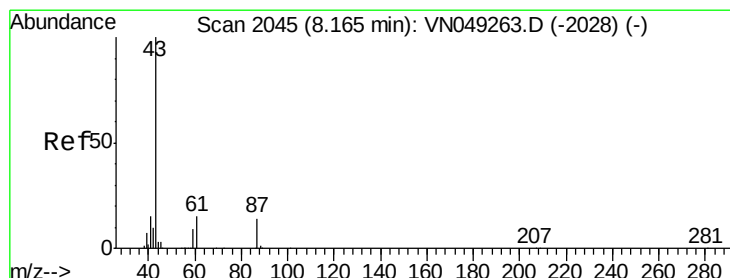
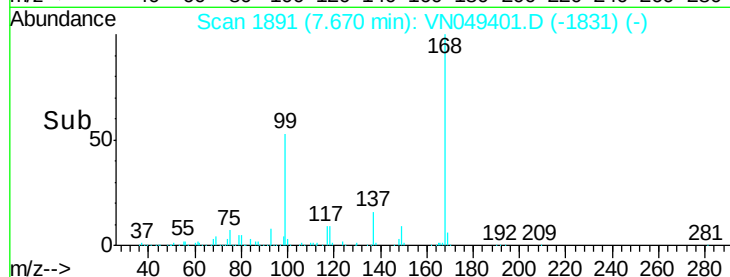
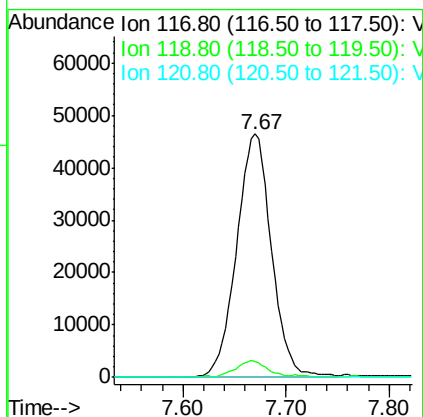
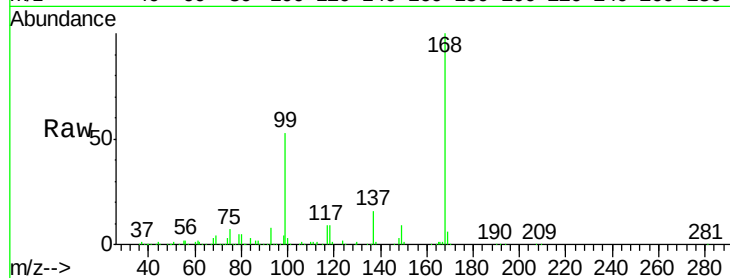




#38
Carbon Tetrachloride
Concen: 4.73 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

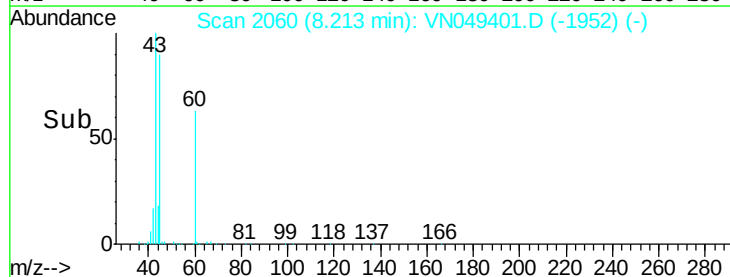
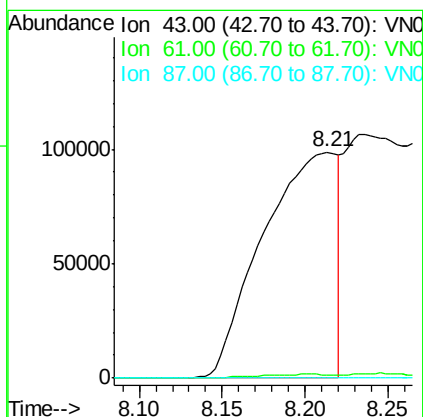
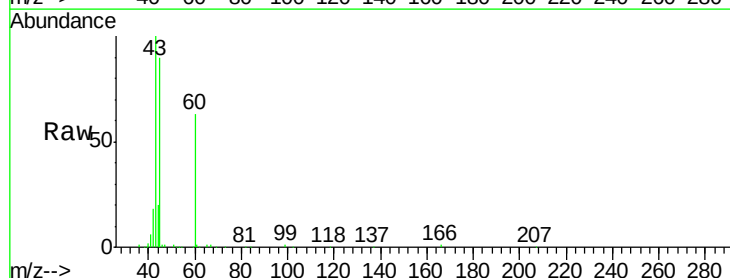
Instrument :
MSVOA_N
ClientSampled :

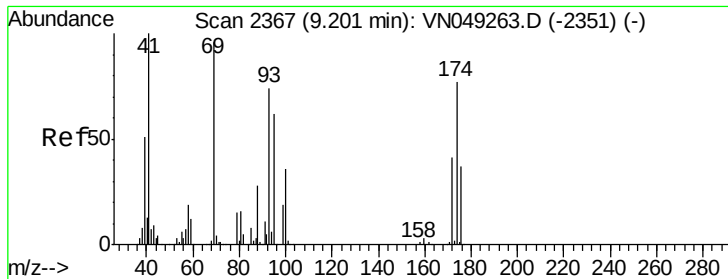
Tot Ion:117 Resp: 109268
Ion Ratio Lower Upper
117 100
119 6.7 75.6 113.4#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 13.17 ug/l
RT: 8.21 min Scan# 2060
Delta R.T. 0.05 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

Tgt Ion: 43 Resp: 305225
Ion Ratio Lower Upper
43 100
61 1.8 14.2 21.4#
87 0.0 9.4 14.0#





#49

1,4-Dioxane

Concen: 0.42 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.01 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

Instrument :
MSVOA_N
ClientSampled :

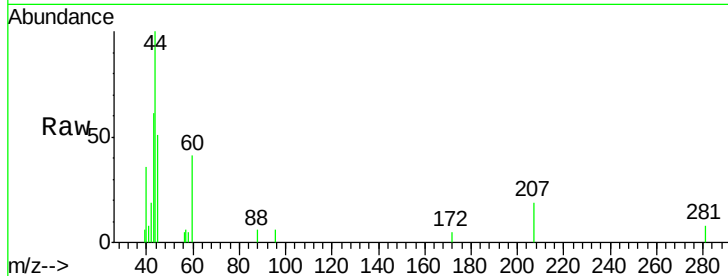
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

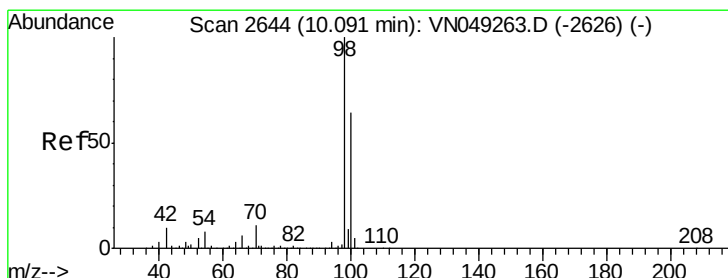
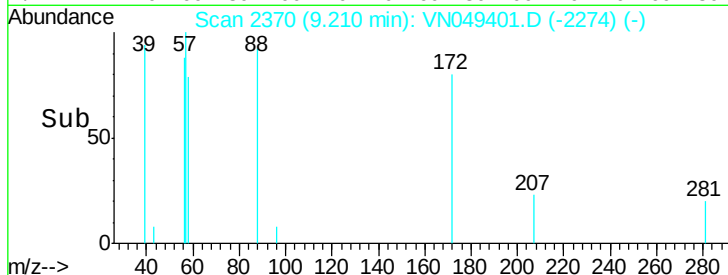
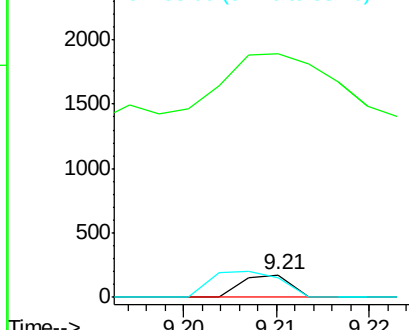
88 100

43 1296.8 30.9 46.3#

58 163.5 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 43.50 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049401.D

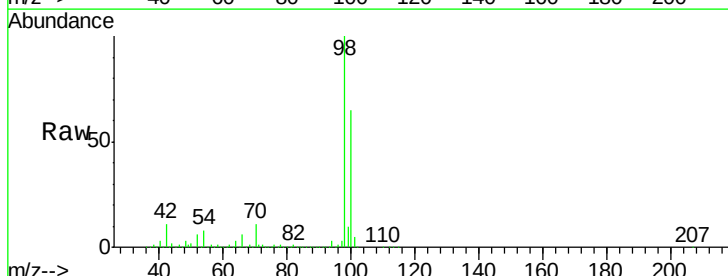
Acq: 19 Jun 2018 22:04

Tgt Ion: 98 Resp: 2609474

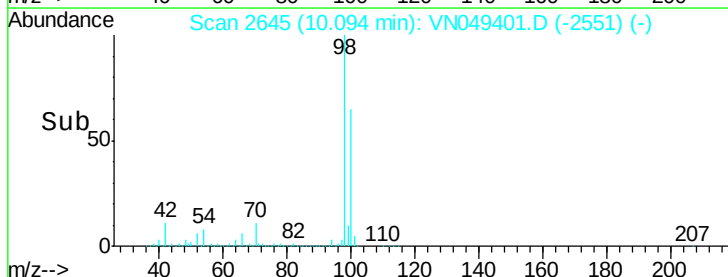
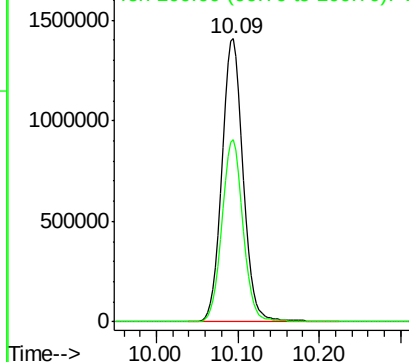
Ion Ratio Lower Upper

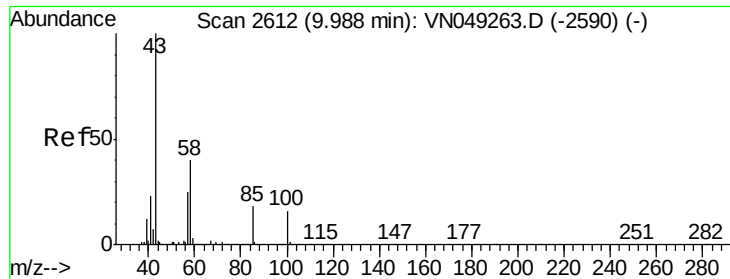
98 100

100 64.1 49.8 74.8



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

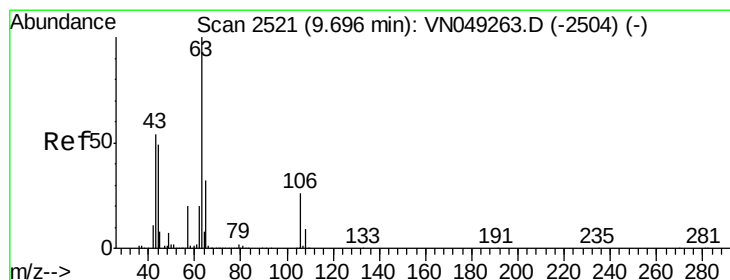
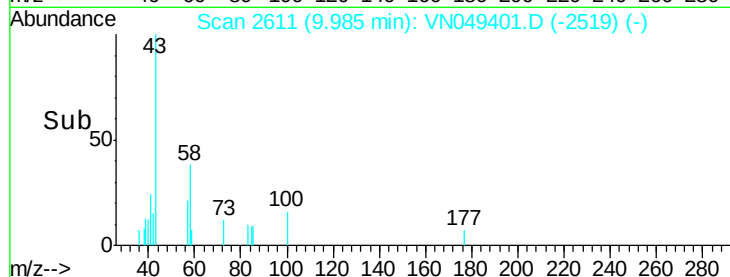
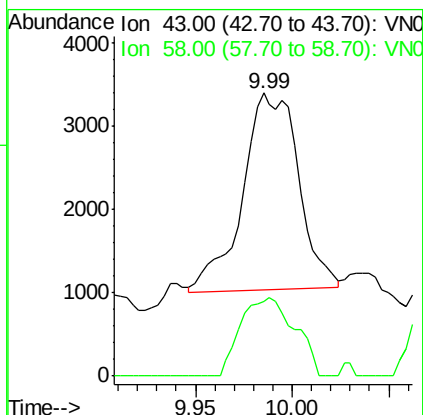
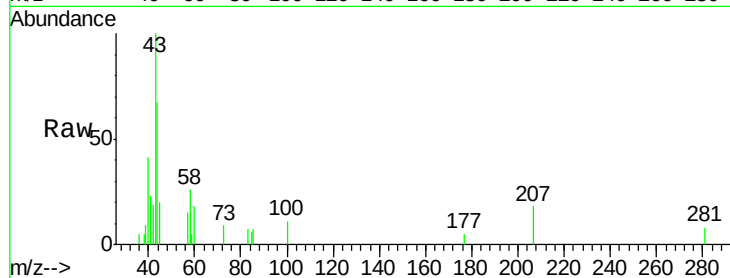




#51
 4-Methyl-2-Pentanone
 Concen: 0.39 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049401.D
 Acq: 19 Jun 2018 22:04

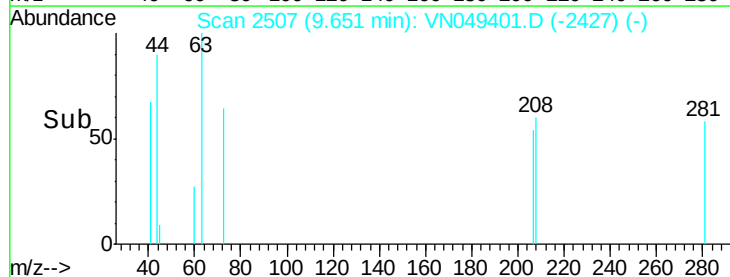
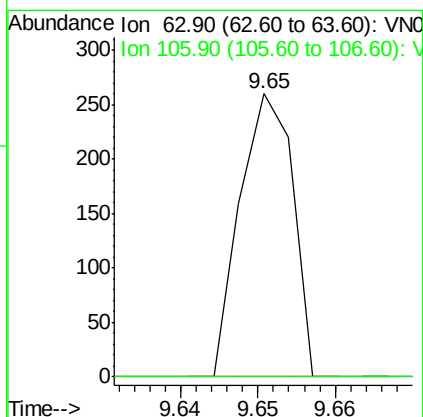
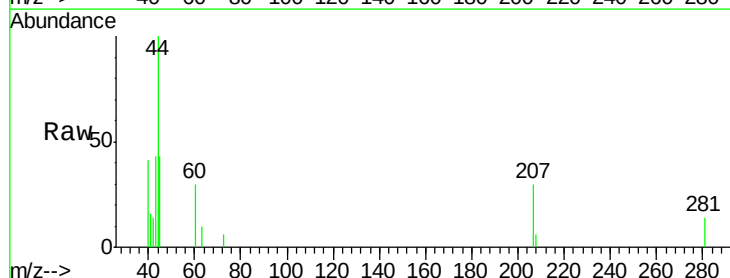
Instrument :
 MSVOA_N
 ClientSampled :

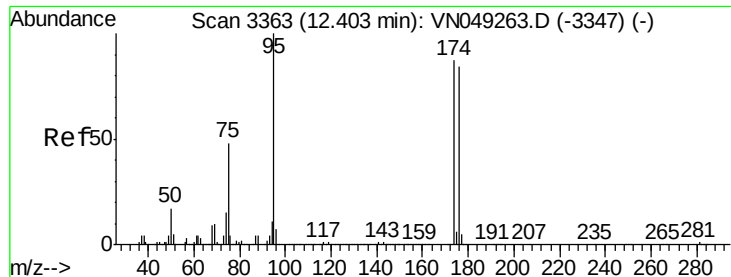
Tot Ion: 43 Resp: 4726
 Ion Ratio Lower Upper
 43 100
 58 38.8 29.0 43.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.35 ug/l
 RT: 9.65 min Scan# 2507
 Delta R.T. -0.04 min
 Lab File: VN049401.D
 Acq: 19 Jun 2018 22:04

Tgt Ion: 63 Resp: 123
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#

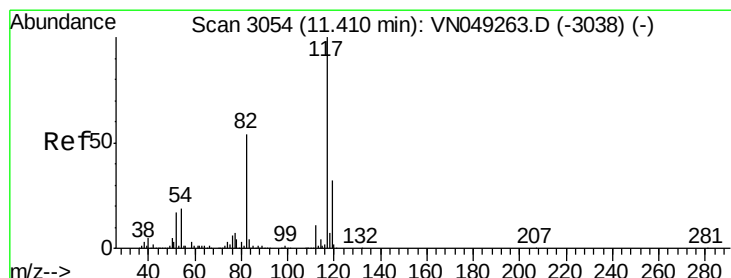
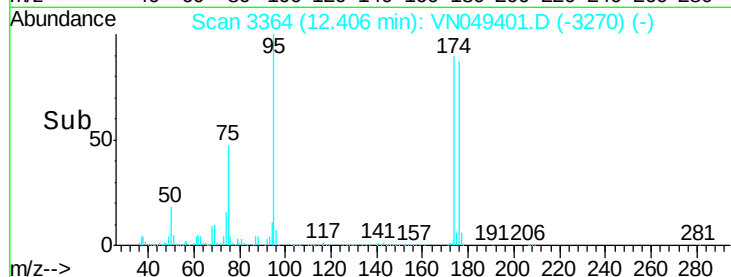
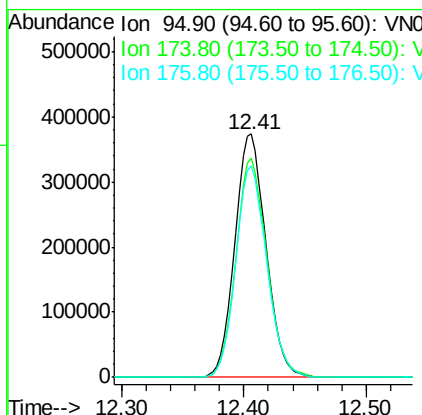
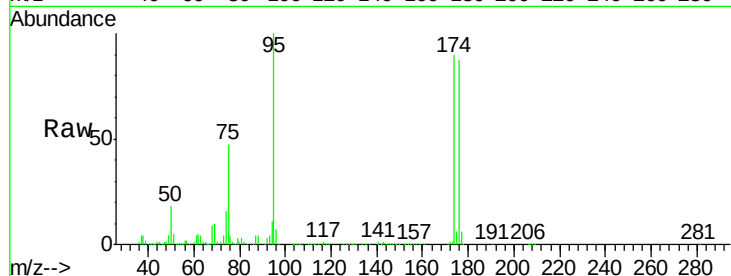




#62
4-Bromofluorobenzene
Concen: 33.27 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

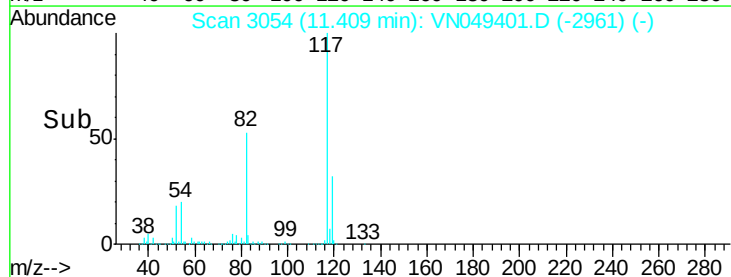
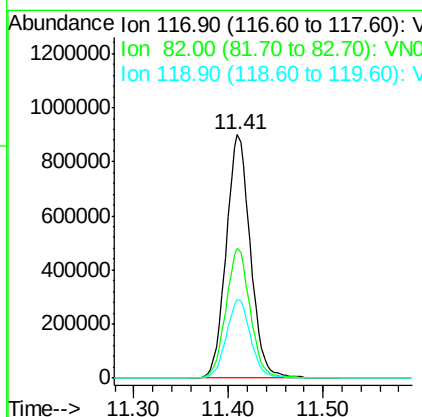
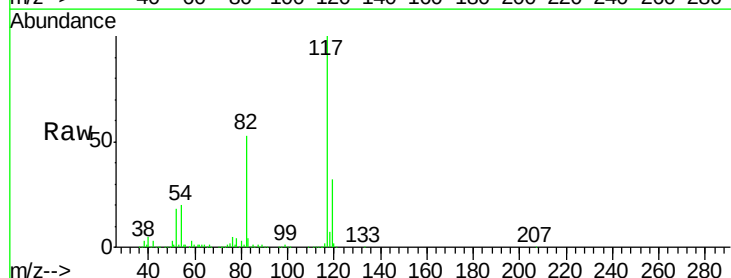
Instrument :
MSVOA_N
ClientSampled :

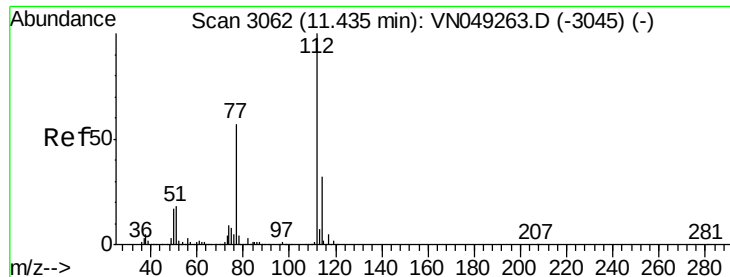
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.6	0.0	165.6
176	86.2	0.0	157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	45.9	68.9
119	32.4	25.5	38.3

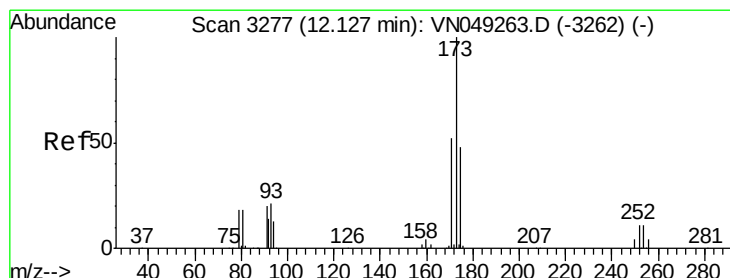
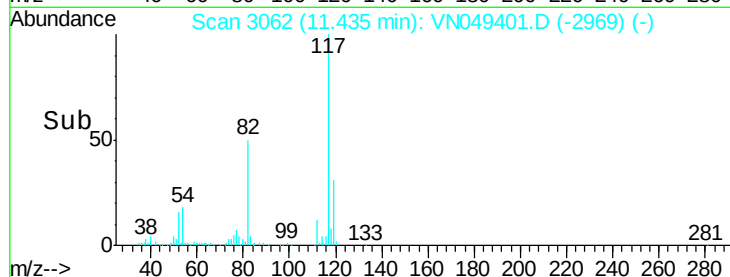
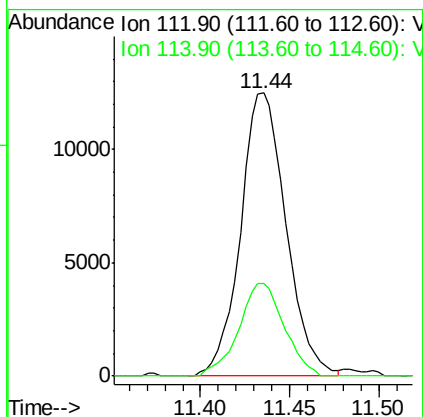
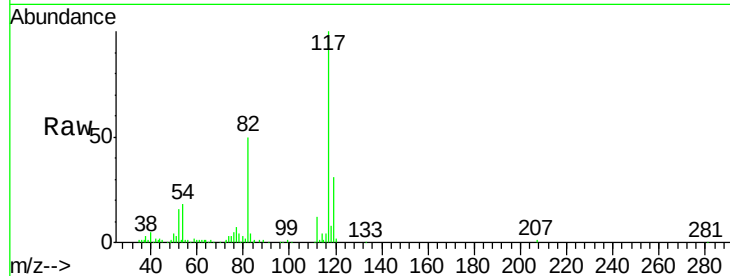




#65
Chlorobenzene
Concen: 0.54 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

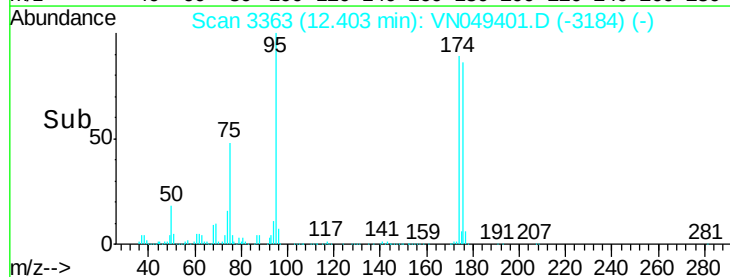
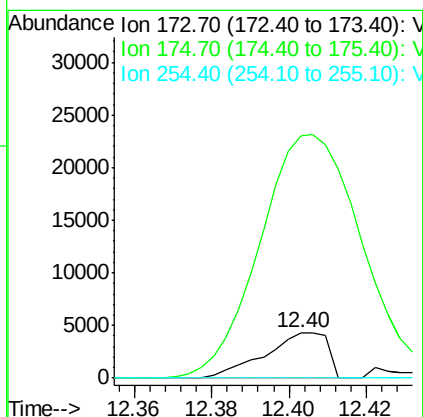
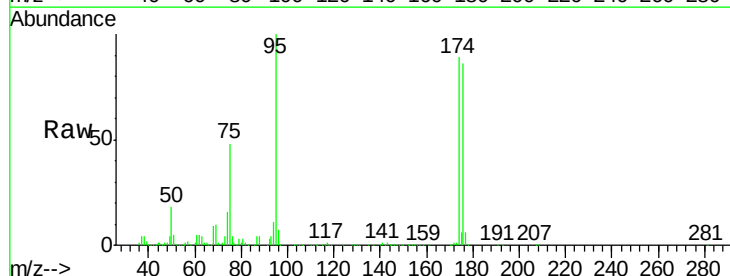
Instrument :
MSVOA_N
ClientSampleId :

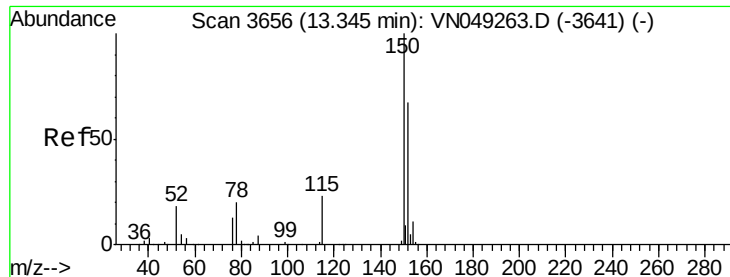
Tot Ion:112 Resp: 22286
Ion Ratio Lower Upper
112 100
114 32.9 26.2 39.4



#71
Bromoform
Concen: 0.48 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049401.D
Acq: 19 Jun 2018 22:04

Tgt Ion:173 Resp: 4859
Ion Ratio Lower Upper
173 100
175 660.8 24.5 73.5#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

Instrument :

MSVOA_N

ClientSampled :

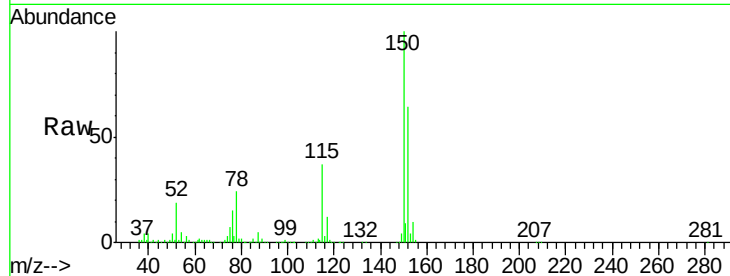
Tot Ion:152 Resp: 441841

Ion Ratio Lower Upper

152 100

115 57.4 28.7 86.1

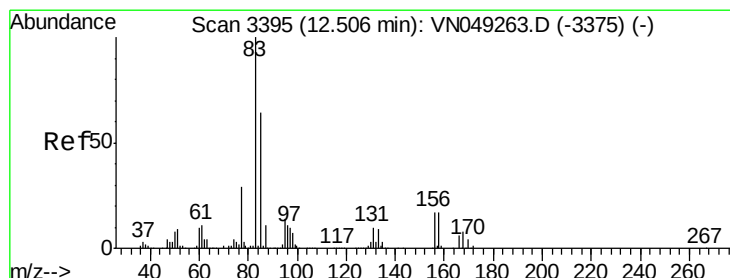
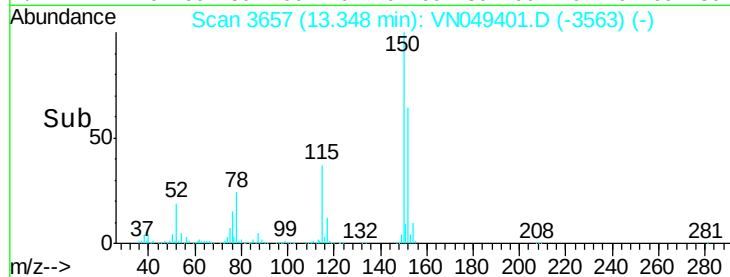
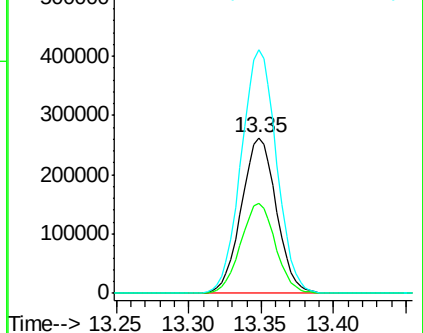
150 158.1 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.56 min Scan# 3411

Delta R.T. 0.05 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

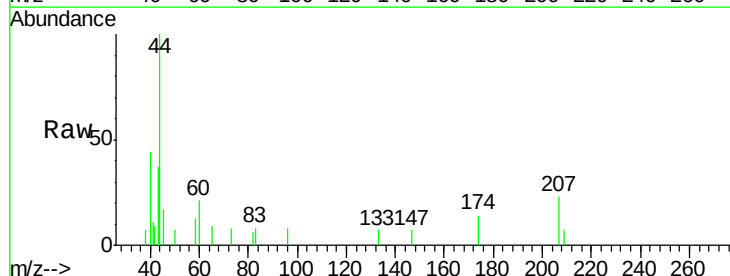
Tgt Ion: 83 Resp: 175

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

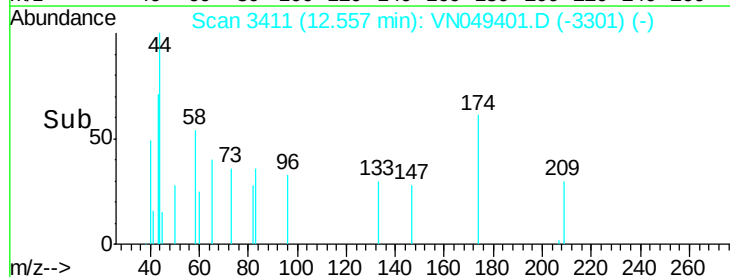
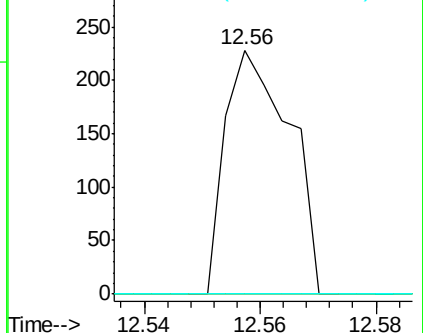
85 0.0 32.0 96.0#

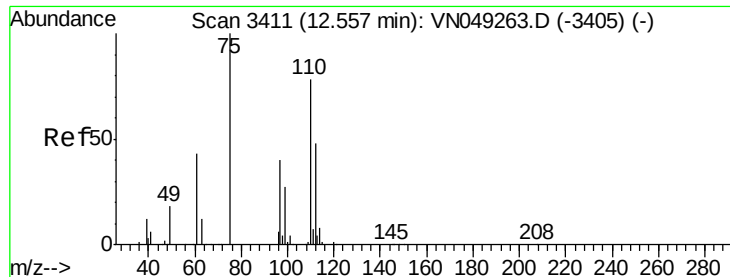


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 42.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

Instrument :

MSVOA_N

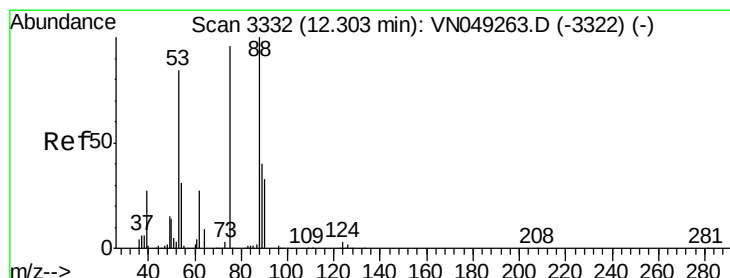
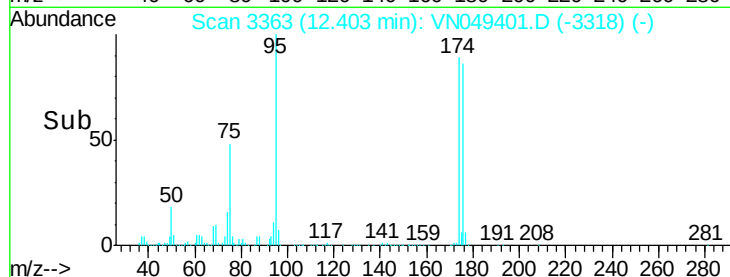
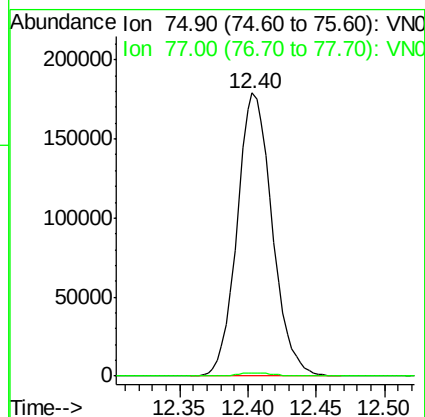
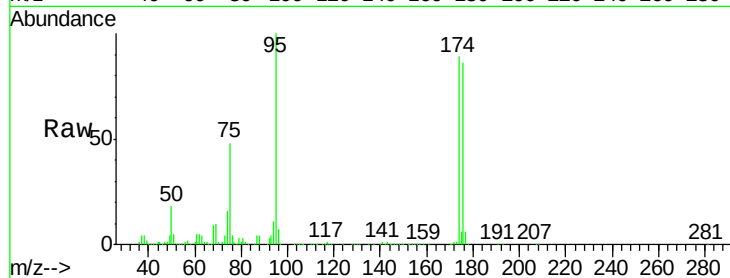
ClientSampleId :

Tot Ion: 75 Resp: 319795

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 134.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

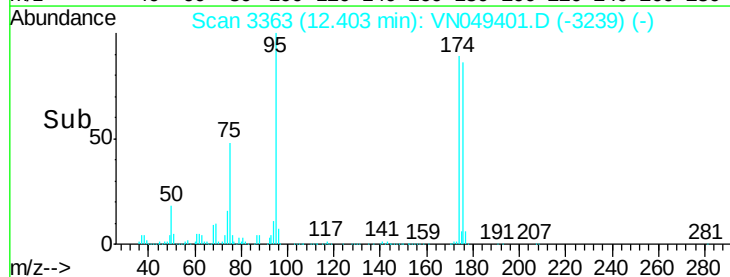
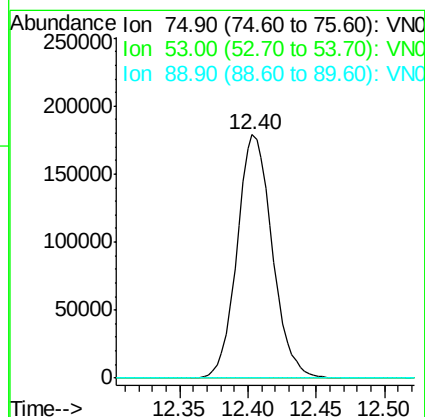
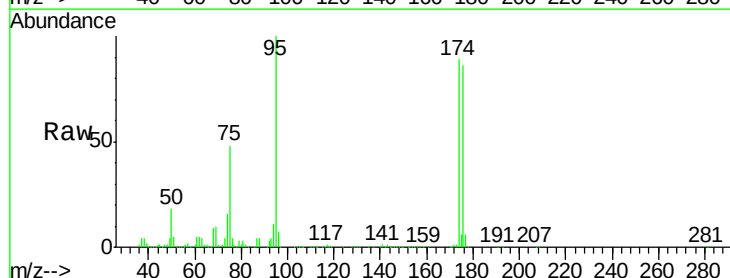
Tgt Ion: 75 Resp: 319795

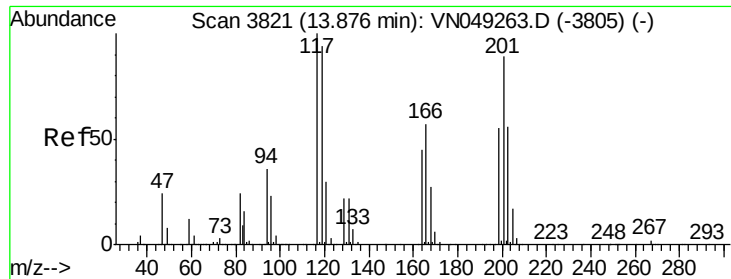
Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.05 min Scan# 3876

Delta R.T. 0.18 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

Instrument :

MSVOA_N

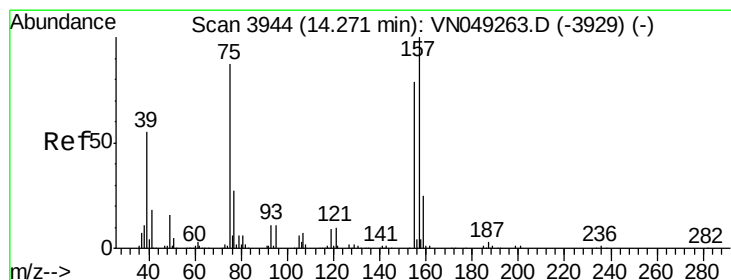
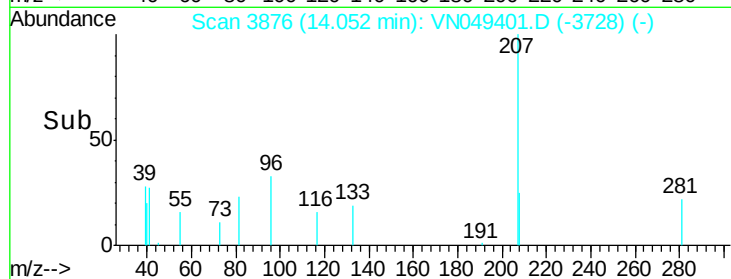
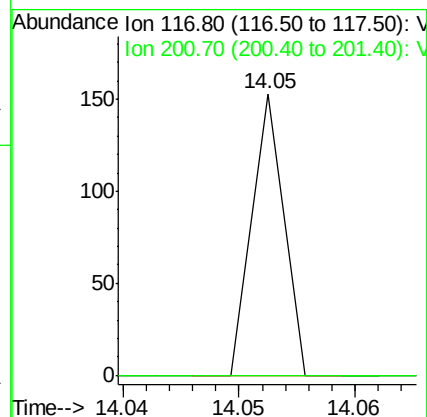
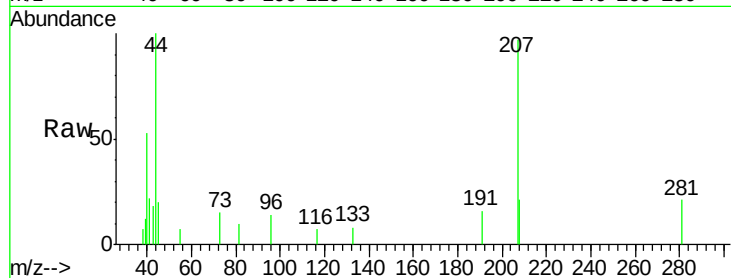
ClientSampleId :

Tot Ion:117 Resp: 30

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.46 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

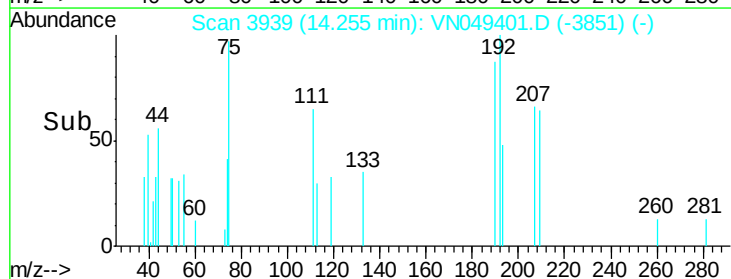
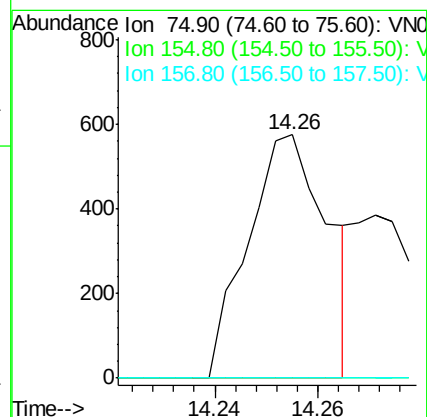
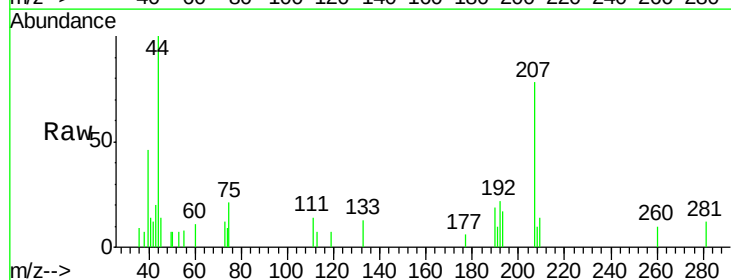
Tgt Ion: 75 Resp: 616

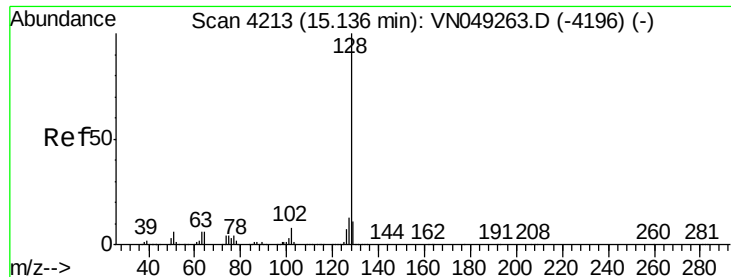
Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

157 0.0 51.0 153.1#





#95

Naphthalene

Concen: 2.12 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

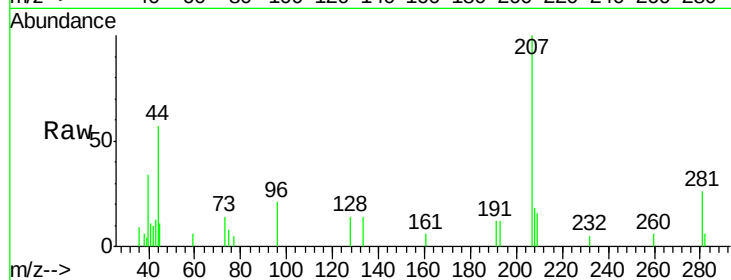
Lab File: VN049401.D

Acq: 19 Jun 2018 22:04

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:	128	Resp:	553
Ion	Ratio	Lower	Upper
128	100		
127	22.8	10.6	16.0#
129	0.0	8.5	12.7#

