

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070618\
 Data File : VN049751.D
 Acq On : 6 Jul 2018 20:31
 Operator : MD\SY
 Sample : J3869-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 06 22:56:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1461337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2419917	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2029464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	801771	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	1034576	53.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.22%	
35) Dibromofluoromethane	7.59	113	874905	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
50) Toluene-d8	10.09	98	3277627	46.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.58%	
62) 4-Bromofluorobenzene	12.40	95	964236	39.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.76%	

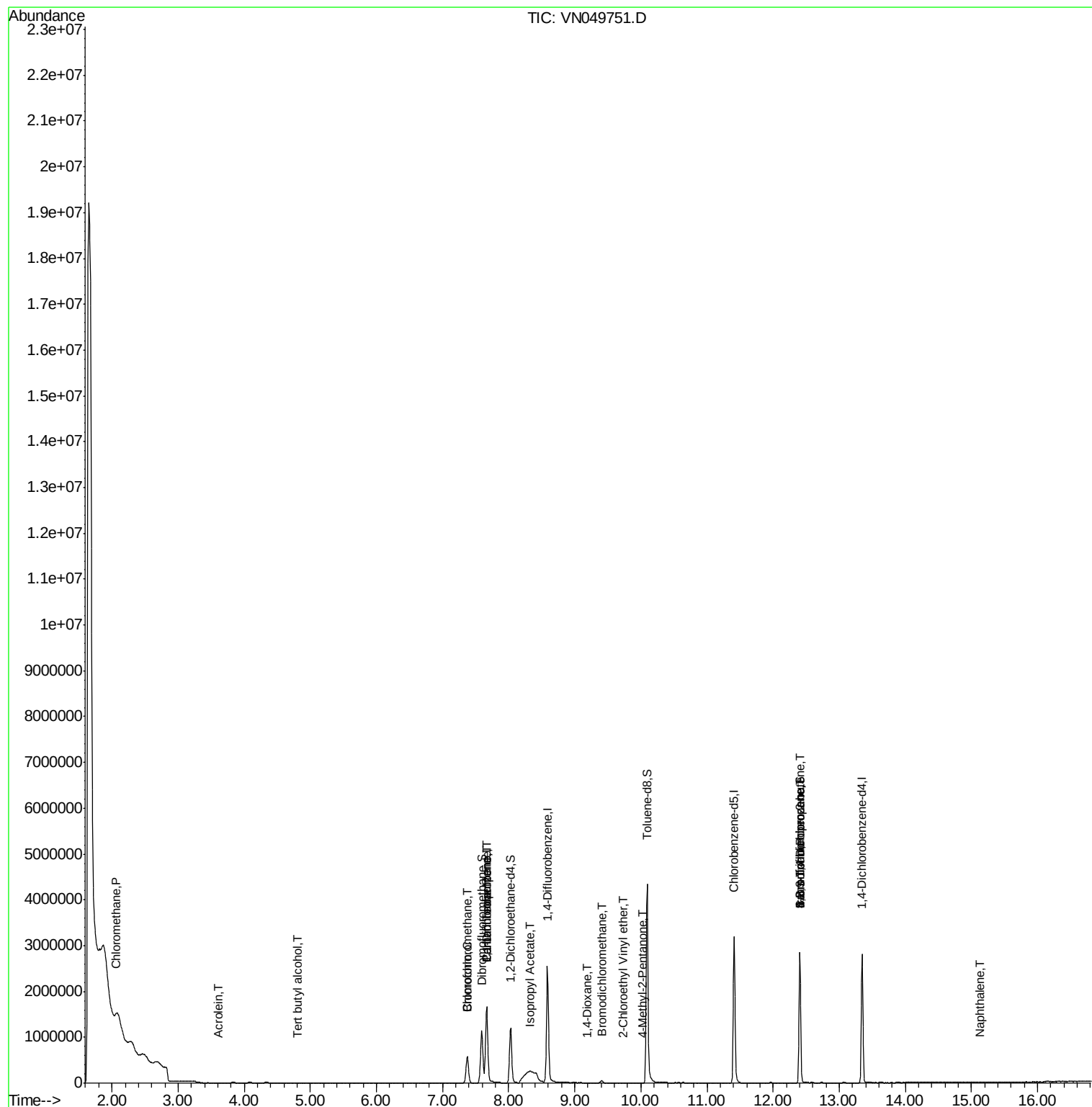
Target Compounds						Qvalue
3) Chloromethane	2.05	50	8907	0.43	ug/l	90
11) Tert butyl alcohol	4.81	59	459	0.41	ug/l #	72
13) Acrolein	3.61	56	1376	1.33	ug/l #	74
16) Acetone	3.82	43	30346	Below	Cal	97
17) Carbon Disulfide	4.04	76	5553	Below	Cal	96
18) Methyl Acetate	4.33	43	29040	Below	Cal	98
28) Bromochloromethane	7.37	49	45614	3.20	ug/l #	11
30) Chloroform	7.37	83	613429	17.91	ug/l	99
36) 1,1-Dichloropropene	7.67	75	102620	3.77	ug/l #	48
38) Carbon Tetrachloride	7.67	117	131341	4.96	ug/l #	16
43) Isopropyl Acetate	8.32	43	553373	17.17	ug/l #	62
47) Bromodichloromethane	9.41	83	29520	1.07	ug/l	98
49) 1,4-Dioxane	9.19	88	61	0.32	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	3862	0.25	ug/l #	35
58) 2-Chloroethyl Vinyl ether	9.73	63	72	10.83	ug/l #	48
71) Bromoform	12.40	173	8066	0.64	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	33	Below	Cal #	25
76) 1,2,3-Trichloropropane	12.40	75	468679	36.45	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	468679	123.79	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	265	Below	Cal #	56
88) 1,4-Dichlorobenzene	13.37	146	318	Below	Cal #	25
91) 1,2-Dichlorobenzene	13.66	146	164	Below	Cal #	25
92) 1,2-Dibromo-3-Chloropropan	14.26	75	29	Below	Cal #	1
95) Naphthalene	15.14	128	1365	4.08	ug/l #	69

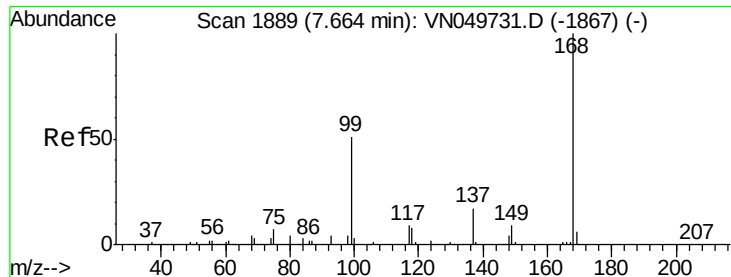
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049751.D

Acq: 6 Jul 2018 20:31

Instrument :

MSVOA_N

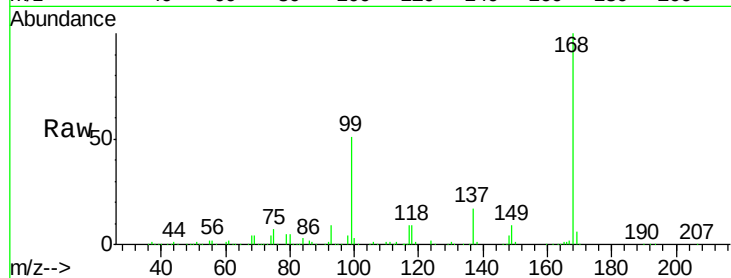
ClientSampleId :

Tot Ion:168 Resp: 1461337

Ion Ratio Lower Upper

168 100

99 50.5 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

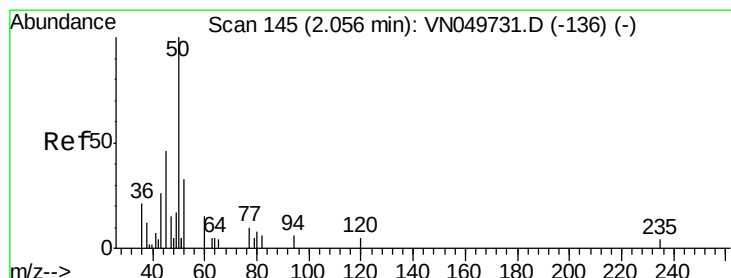
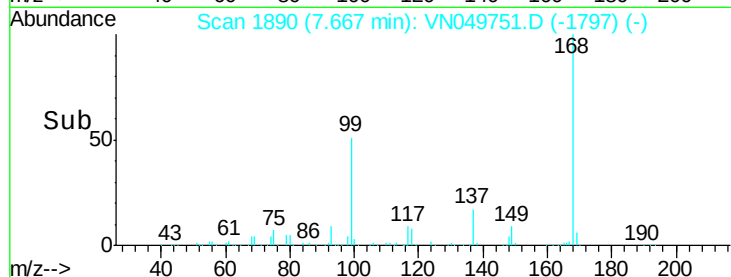
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.43 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.00 min

Lab File: VN049751.D

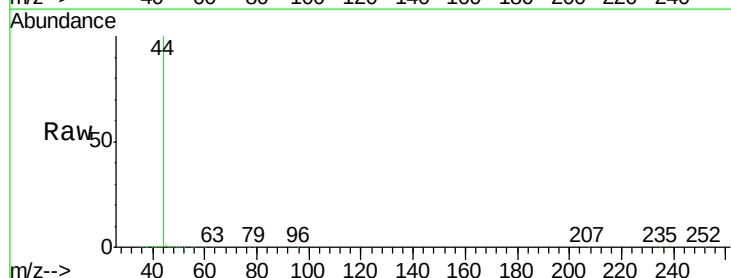
Acq: 6 Jul 2018 20:31

Tgt Ion: 50 Resp: 8907

Ion Ratio Lower Upper

50 100

52 38.2 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.05

5000

4000

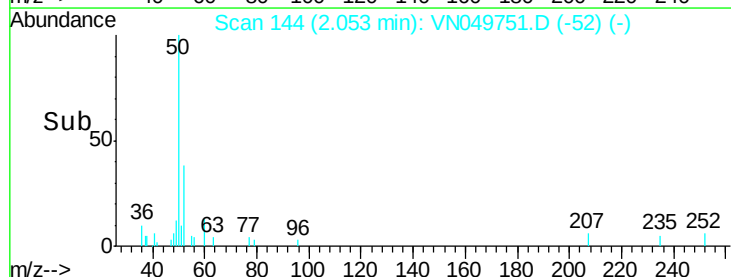
3000

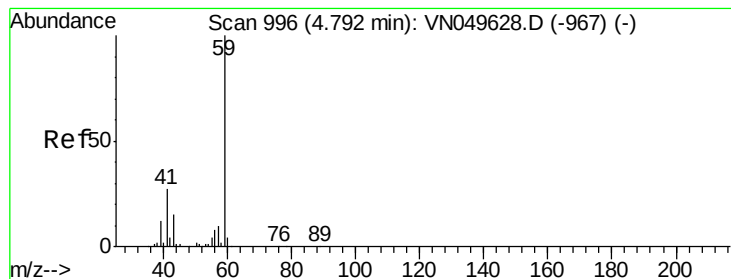
2000

1000

0

Time--> 2.00 2.05 2.10 2.15





#11

Tert butyl alcohol

Concen: 0.41 ug/l

RT: 4.81 min Scan# 1002

Delta R.T. 0.02 min

Lab File: VN049751.D

Acq: 6 Jul 2018 20:31

Instrument :

MSVOA_N

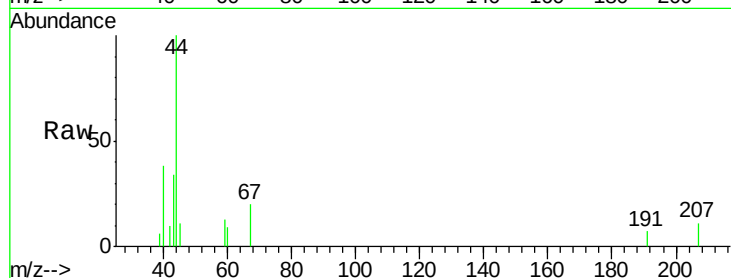
ClientSampled :

Tot Ion: 59 Resp: 459

Ion Ratio Lower Upper

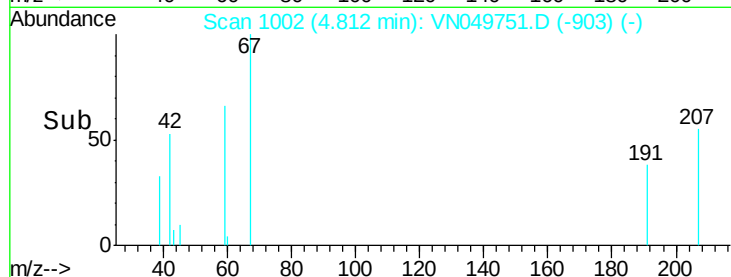
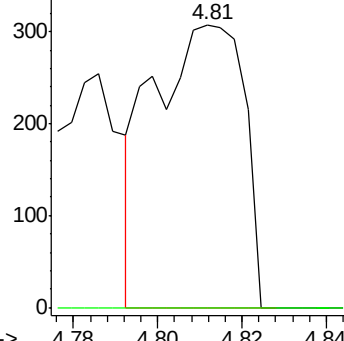
59 100

57 0.0 8.5 12.7#

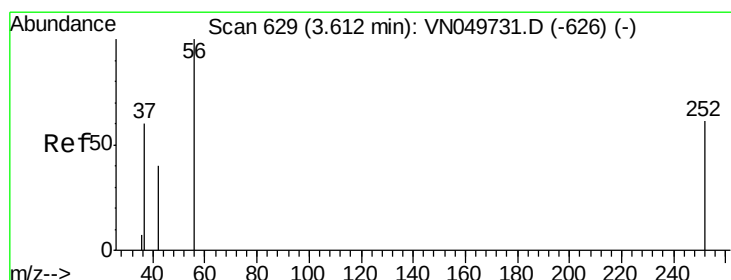


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time-->



#13

Acrolein

Concen: 1.33 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049751.D

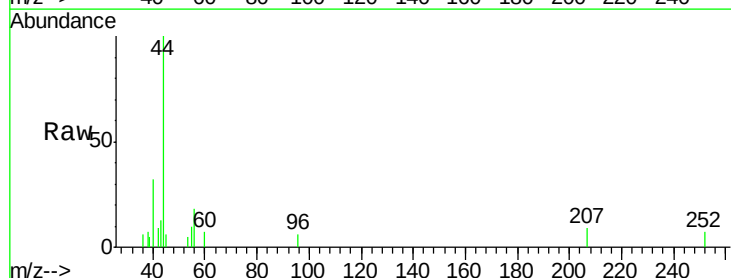
Acq: 6 Jul 2018 20:31

Tgt Ion: 56 Resp: 1376

Ion Ratio Lower Upper

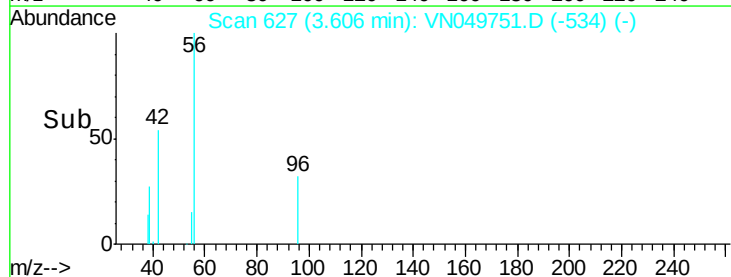
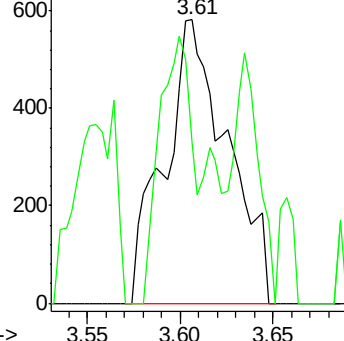
56 100

55 48.3 55.8 83.8#

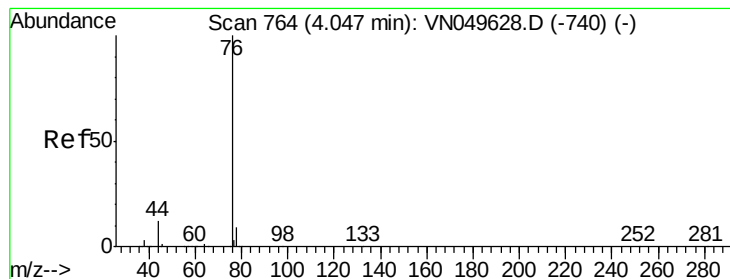


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049751.D

Acq: 6 Jul 2018 20:31

Instrument :

MSVOA_N

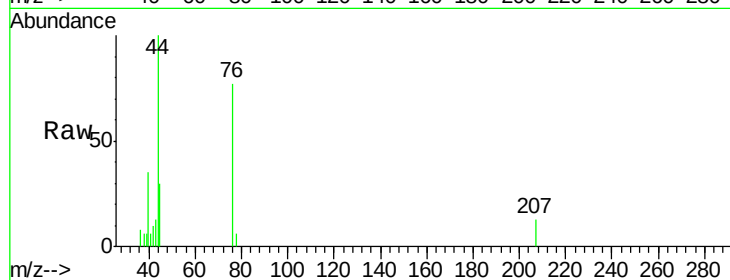
ClientSampleId :

Tot Ion: 76 Resp: 5553

Ion Ratio Lower Upper

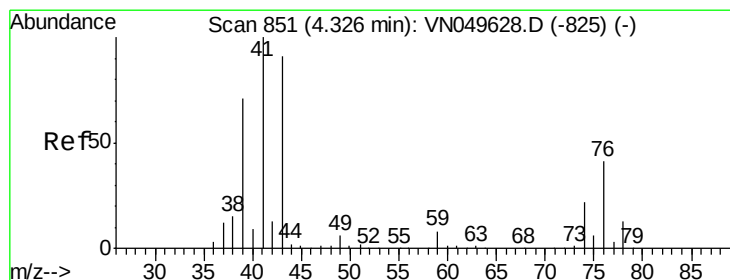
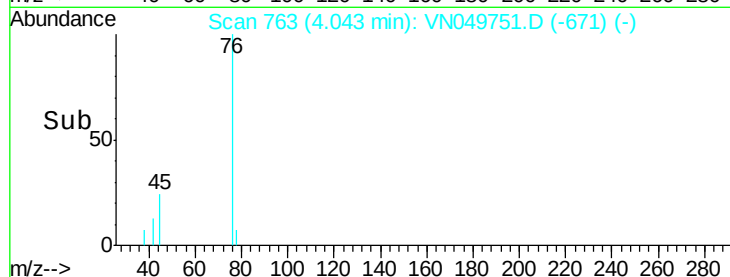
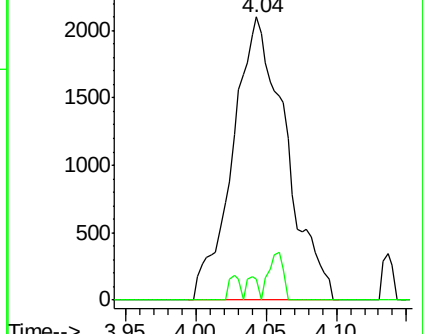
76 100

78 7.4 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049751.D

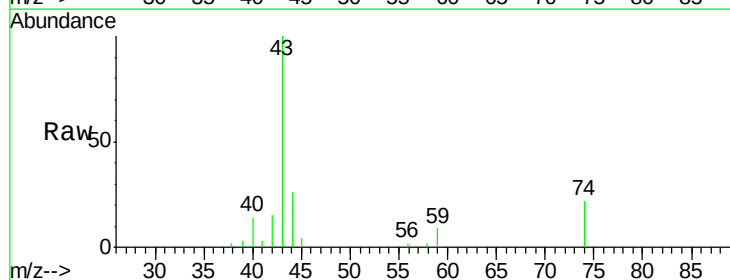
Acq: 6 Jul 2018 20:31

Tgt Ion: 43 Resp: 29040

Ion Ratio Lower Upper

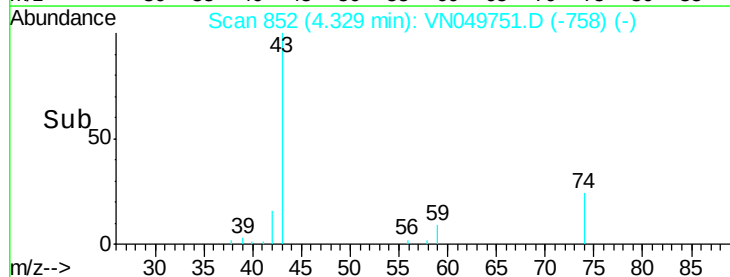
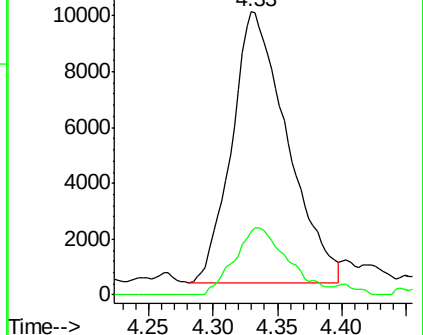
43 100

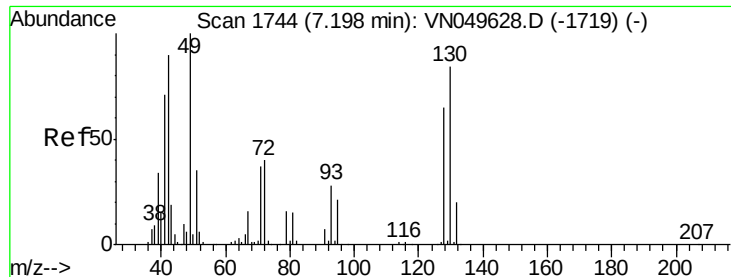
74 24.0 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

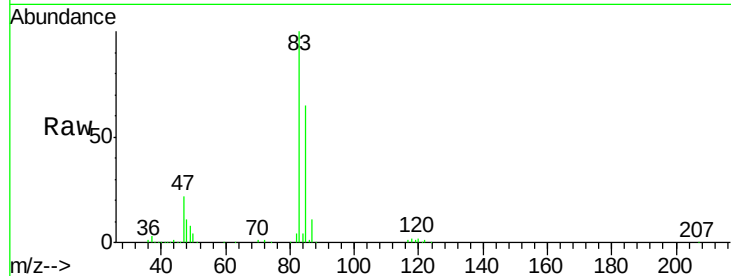




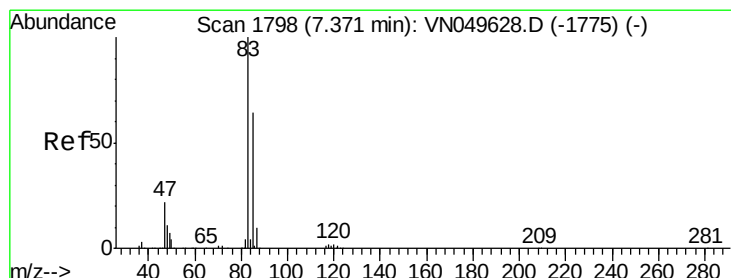
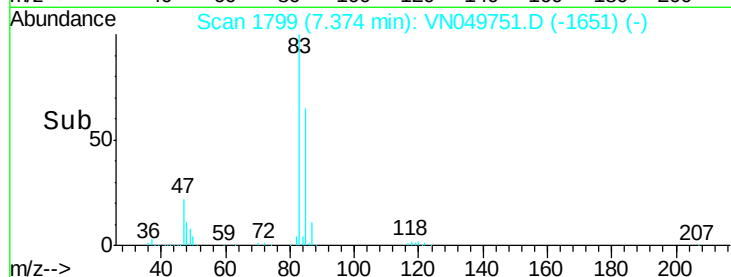
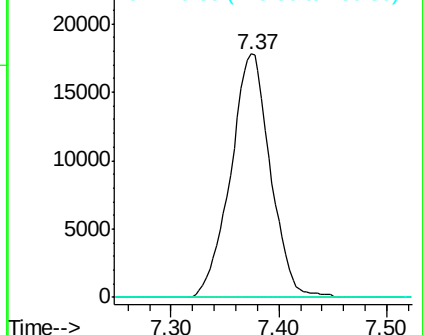
#28
Bromochloromethane
Concen: 3.20 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.18 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 49 Resp: 45614
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 65.5 98.3#

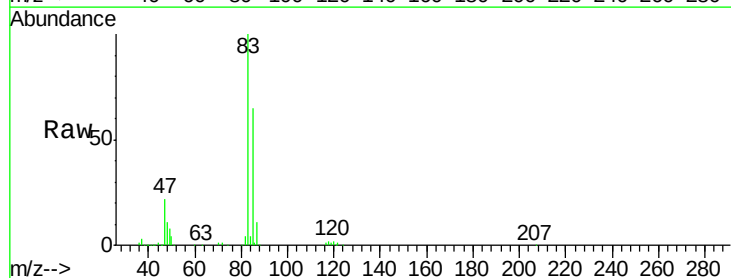


Abundance Ion 48.90 (48.60 to 49.60): VN049628.D (-1719) (-)
Ion 128.80 (128.50 to 129.50): VN049628.D (-1719) (-)
Ion 129.80 (129.50 to 130.50): VN049628.D (-1719) (-)

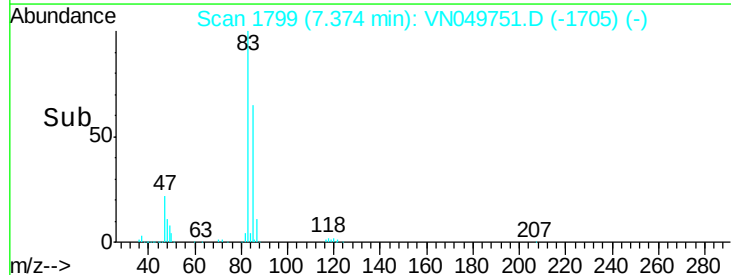
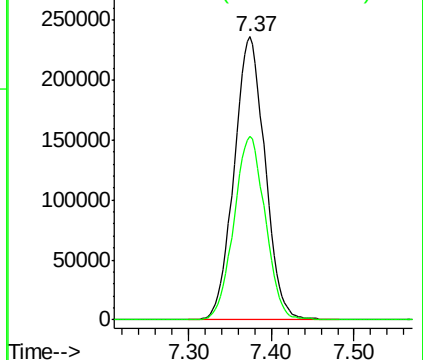


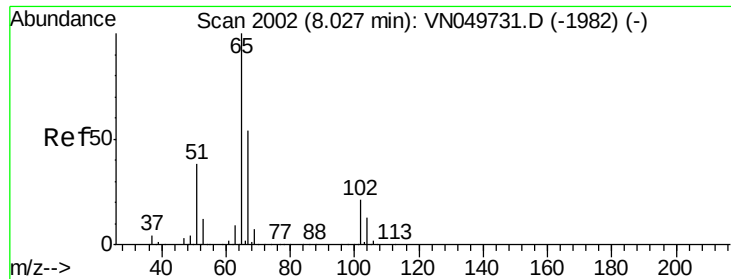
#30
Chloroform
Concen: 17.91 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

Tgt Ion: 83 Resp: 613429
Ion Ratio Lower Upper
83 100
85 65.0 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VN049628.D (-1775) (-)
Ion 84.90 (84.60 to 85.60): VN049628.D (-1775) (-)

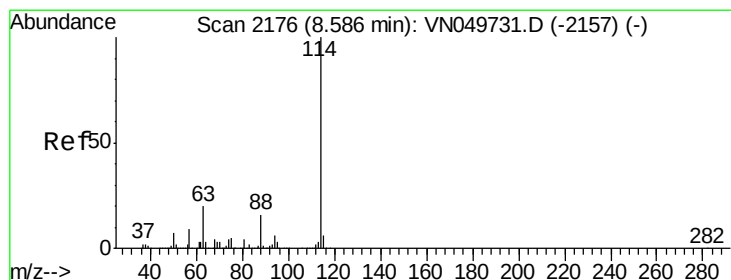
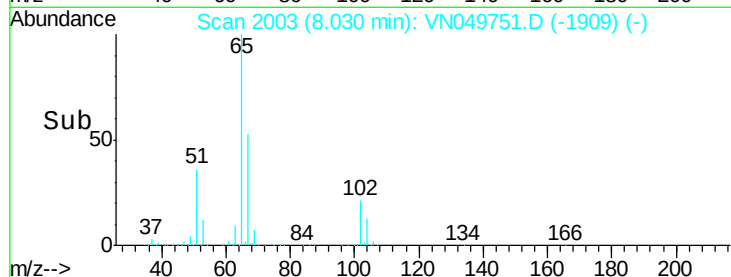
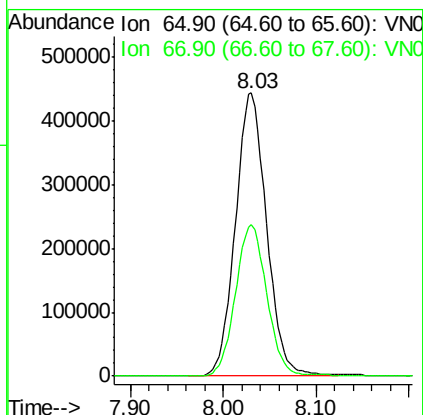
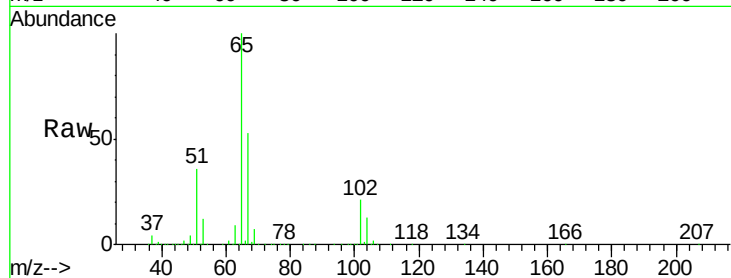




#33
 1,2-Dichloroethane-d4
 Concen: 53.61 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

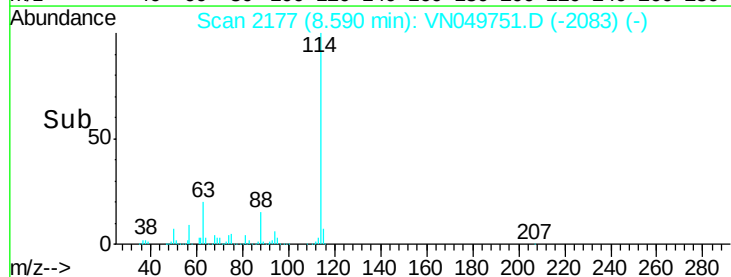
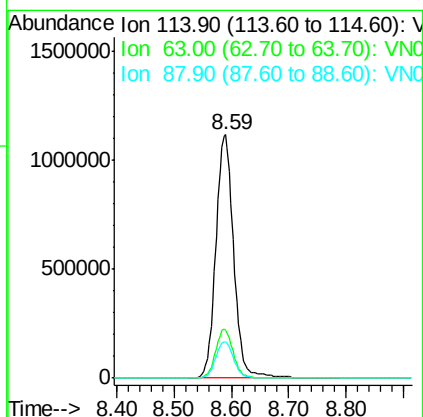
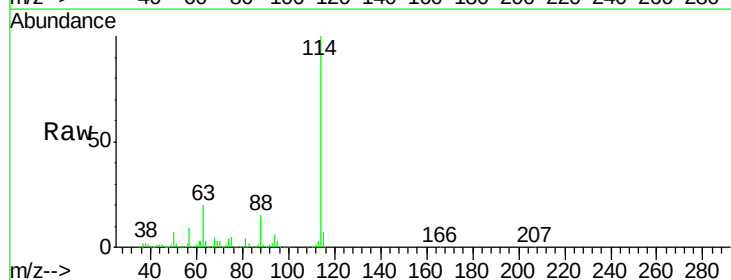
Instrument :
 MSVOA_N
 ClientSampled :

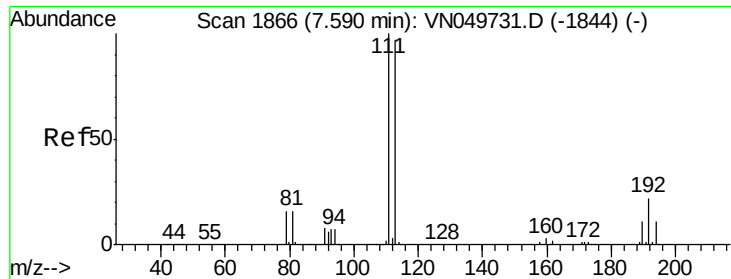
Tot Ion: 65 Resp: 1034576
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

Tgt Ion: 114 Resp: 2419917
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.0 0.0 30.6

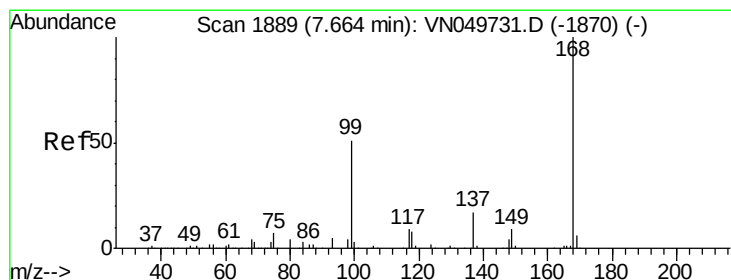
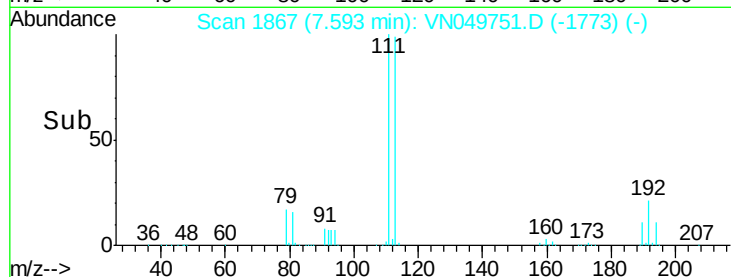
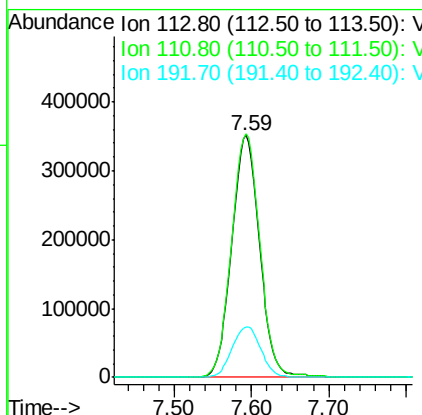
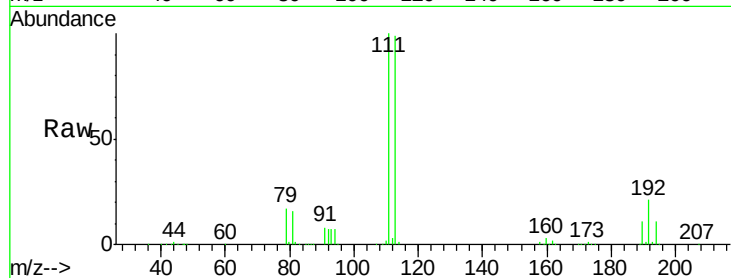




#35
 Dibromofluoromethane
 Concen: 48.36 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

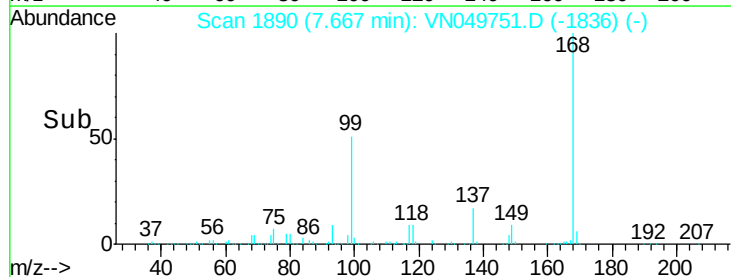
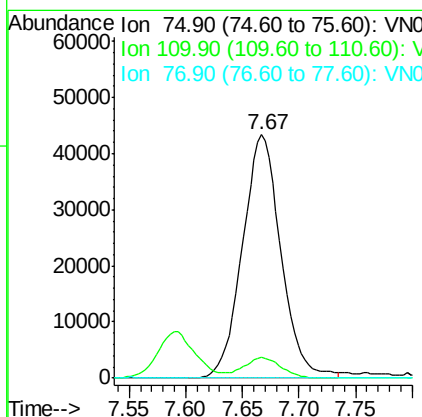
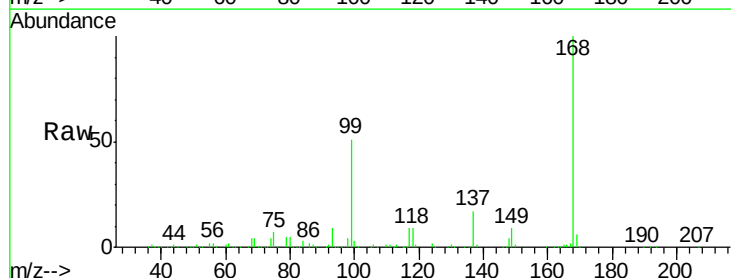
Instrument :
 MSVOA_N
 ClientSampleId :

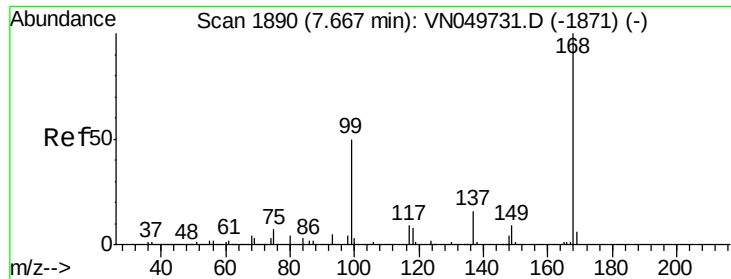
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.8
192	21.6	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.1	54.4#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.96 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049751.D

Acq: 6 Jul 2018 20:31

Instrument :

MSVOA_N

ClientSampled :

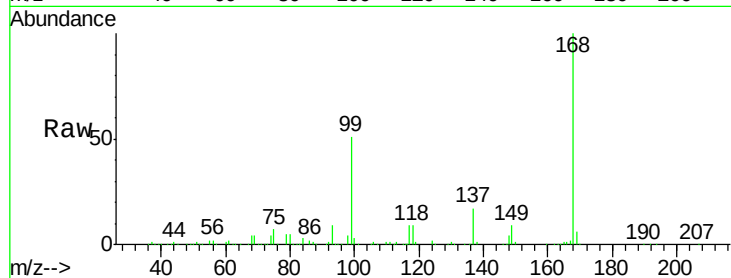
Tot Ion:117 Resp: 131341

Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

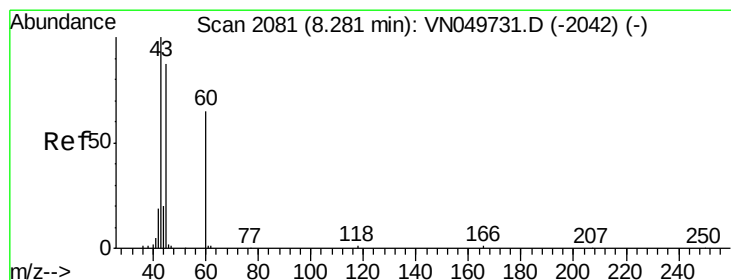
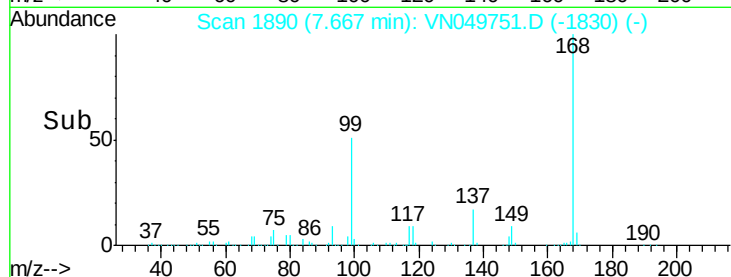
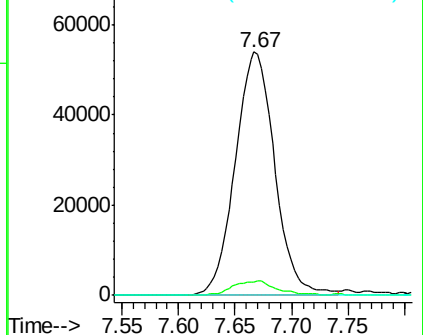
121 0.0 25.0 37.6#



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: 17.17 ug/l

RT: 8.32 min Scan# 2094

Delta R.T. 0.16 min

Lab File: VN049751.D

Acq: 6 Jul 2018 20:31

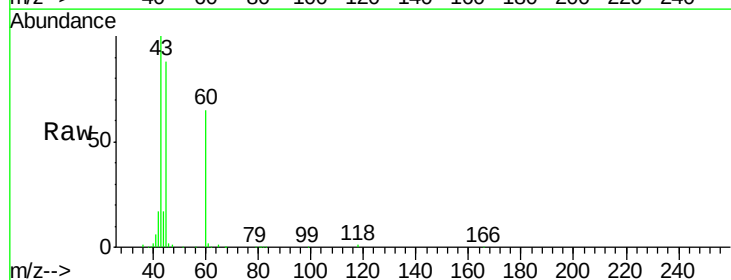
Tgt Ion: 43 Resp: 553373

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

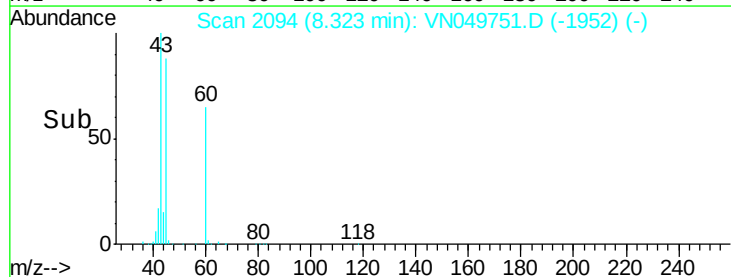
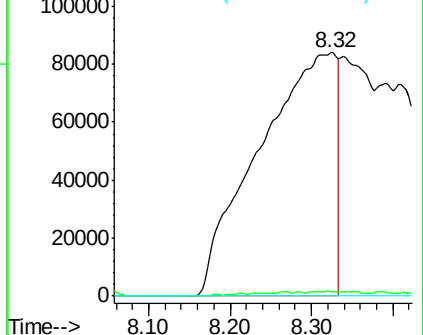
87 0.0 10.0 15.0#

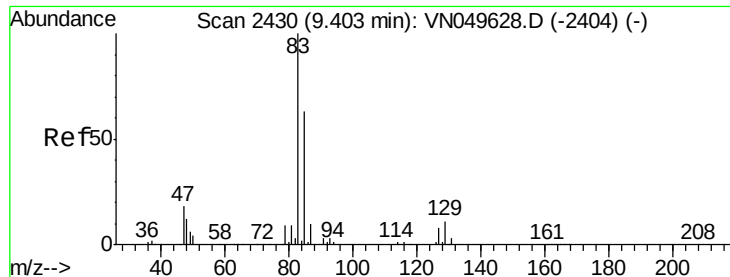


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 1.07 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049751.D

Acq: 6 Jul 2018 20:31

Instrument :
MSVOA_N
ClientSampled :

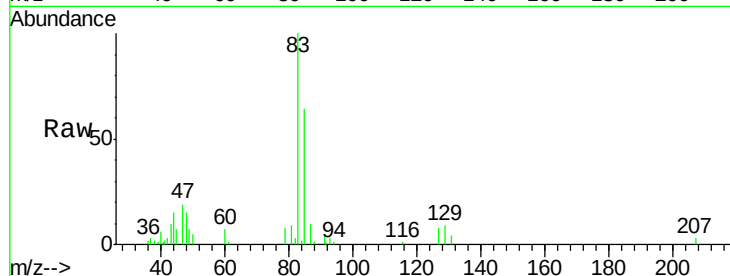
Tot Ion: 83 Resp: 29520

Ion Ratio Lower Upper

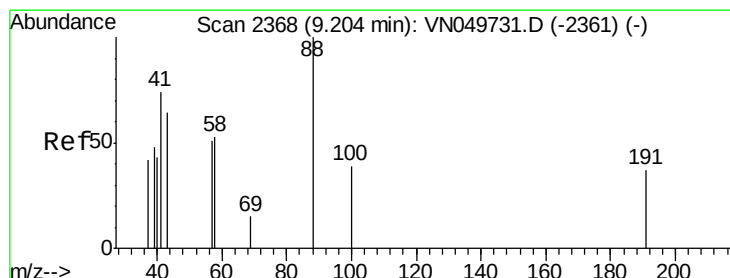
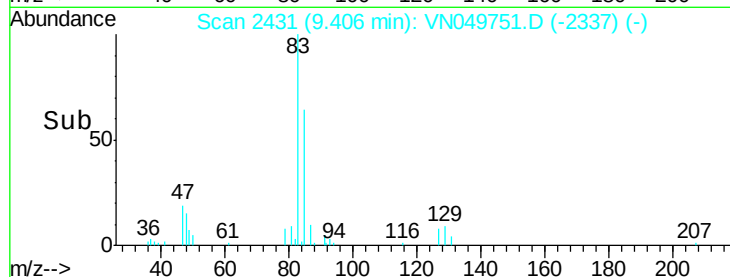
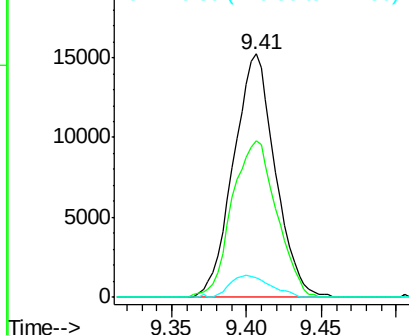
83 100

85 64.3 50.5 75.7

127 7.9 6.8 10.2



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V



#49

1,4-Dioxane

Concen: 0.32 ug/l

RT: 9.19 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VN049751.D

Acq: 6 Jul 2018 20:31

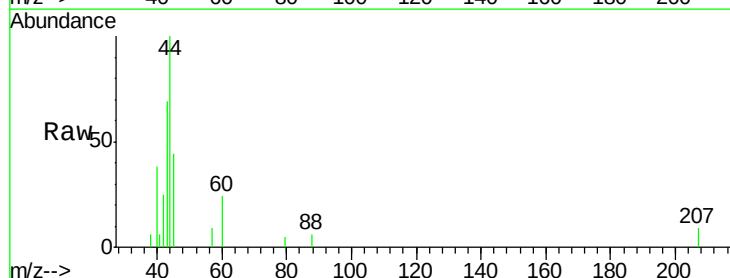
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

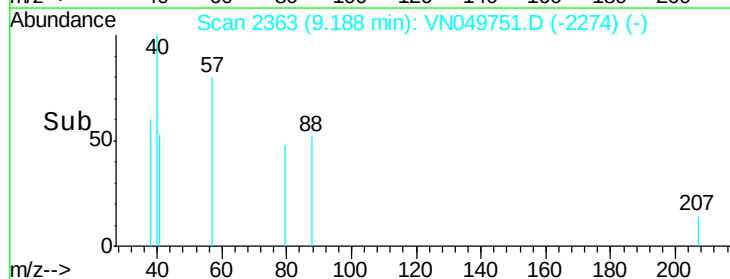
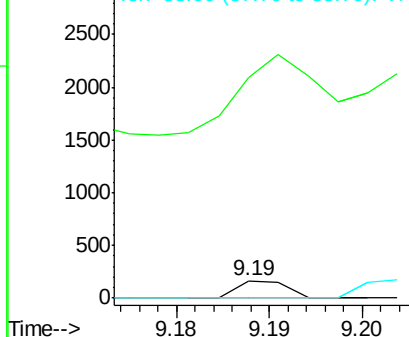
88 100

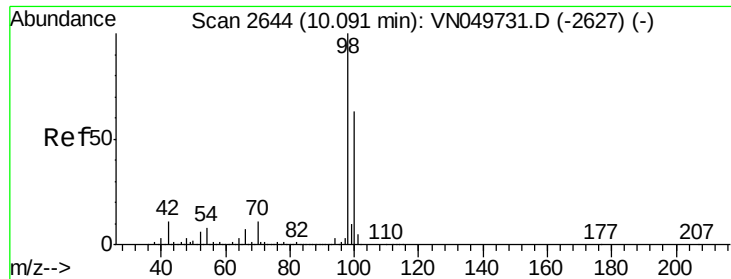
43 759.0 25.1 37.7#

58 103.3 52.5 78.7#



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

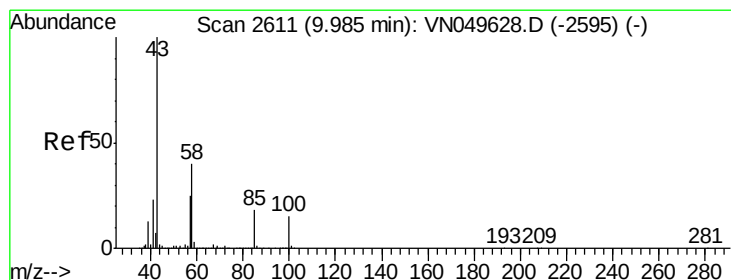
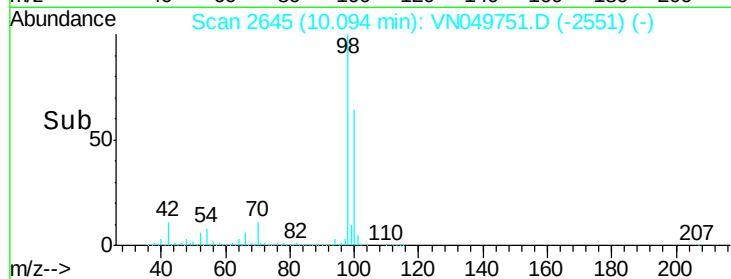
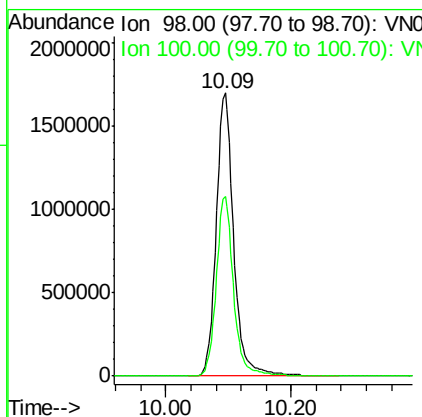
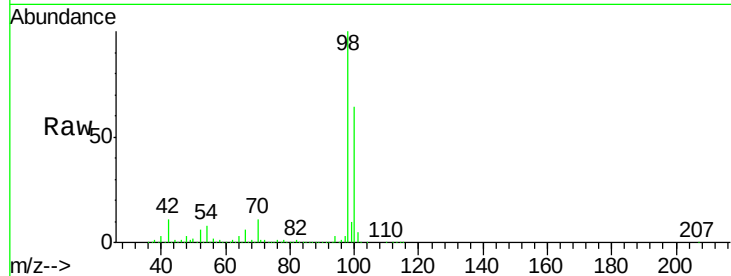




#50
Toluene-d8
Concen: 46.29 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

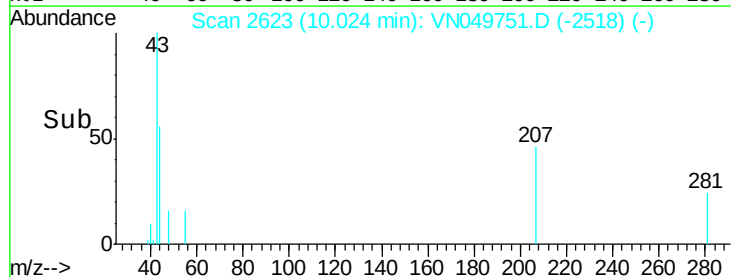
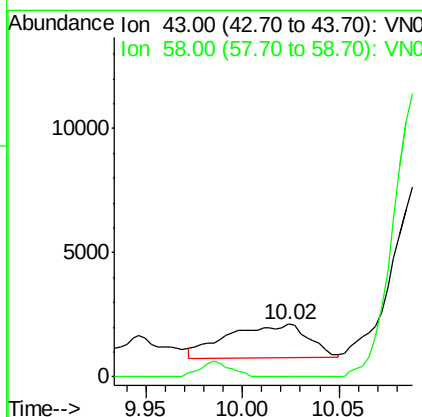
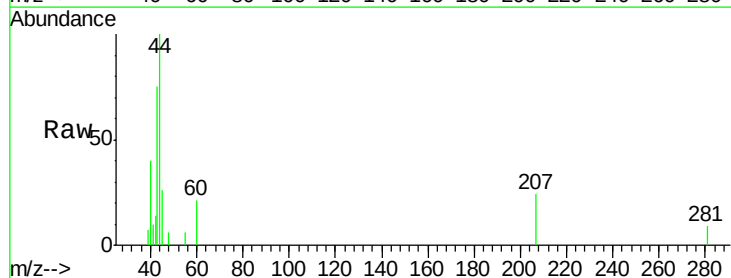
Instrument :
MSVOA_N
ClientSampleId :

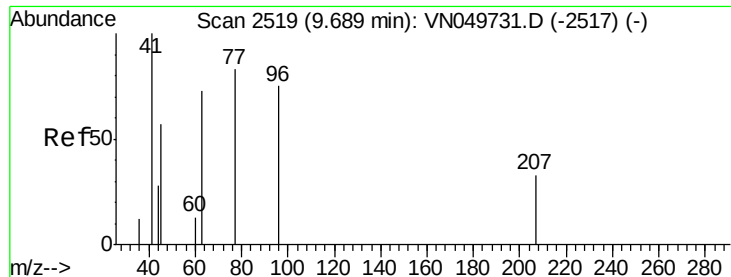
Tot Ion: 98 Resp: 3277627
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 10.02 min Scan# 2623
Delta R.T. 0.04 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

Tgt Ion: 43 Resp: 3862
Ion Ratio Lower Upper
43 100
58 0.0 31.8 47.8#

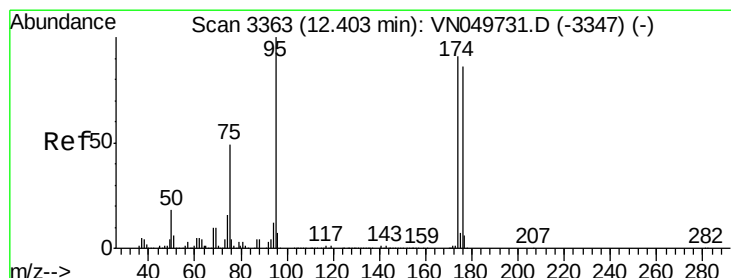
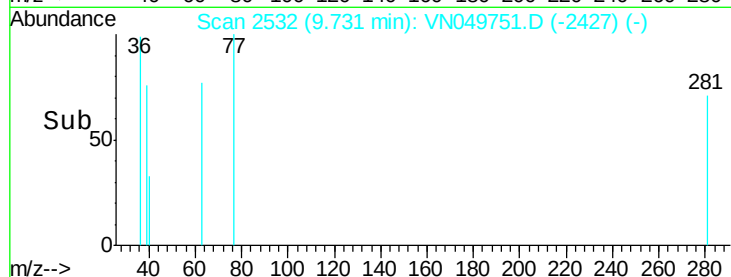
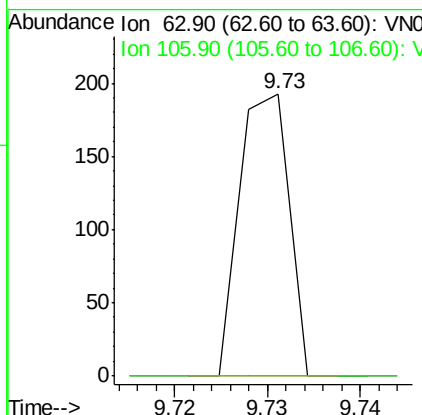
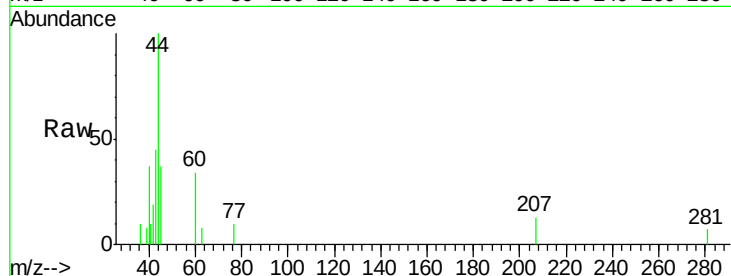




#58
2-Chloroethyl Vinyl ether
Concen: 10.83 ug/l
RT: 9.73 min Scan# 2532
Delta R.T. 0.04 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

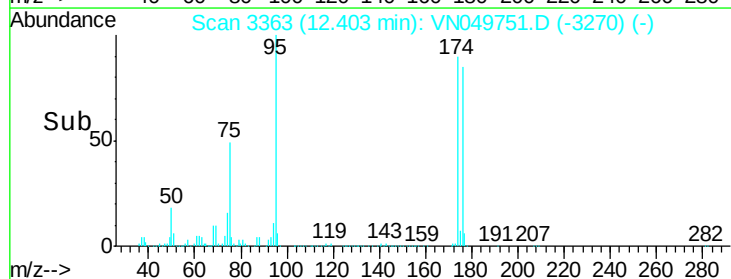
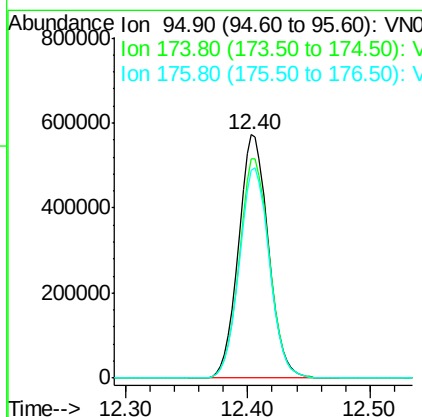
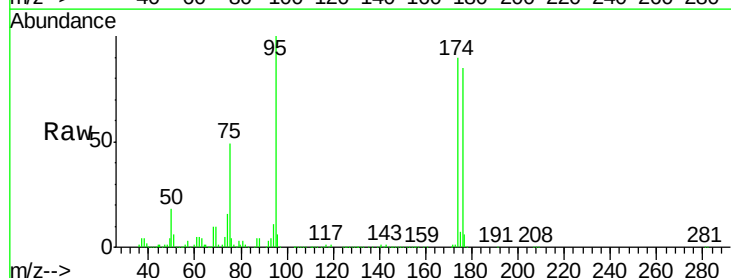
Instrument :
MSVOA_N
ClientSampleId :

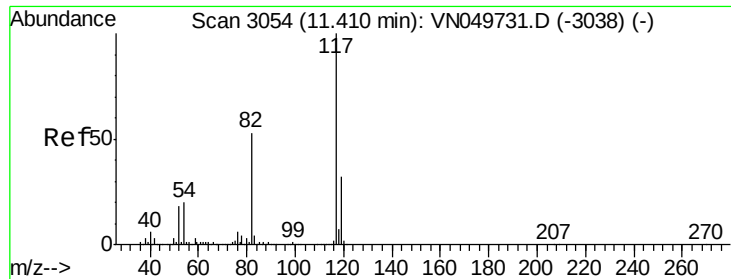
Tot Ion: 63 Resp: 72
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.8#



#62
4-Bromofluorobenzene
Concen: 39.88 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

Tgt Ion: 95 Resp: 964236
Ion Ratio Lower Upper
95 100
174 91.0 0.0 179.6
176 87.1 0.0 174.0

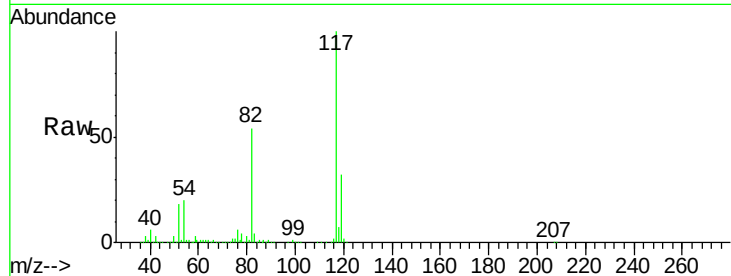




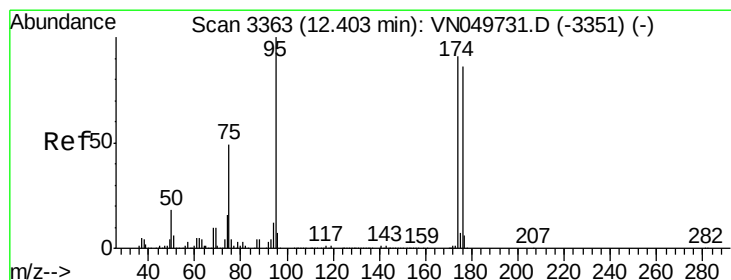
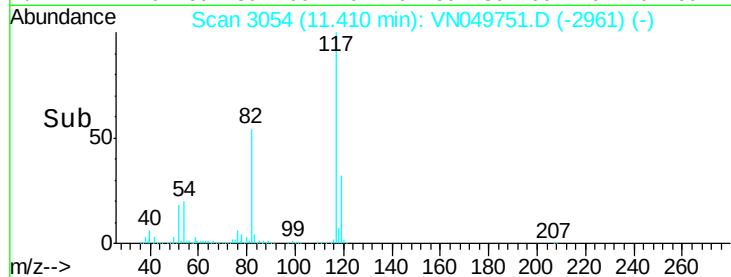
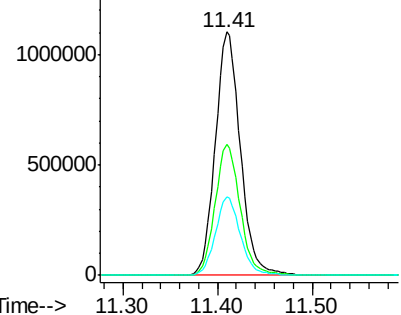
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 2029464
Ion Ratio Lower Upper
117 100
82 53.8 41.9 62.9
119 32.3 25.4 38.2

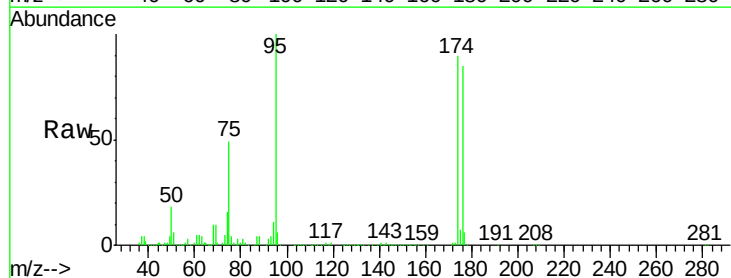


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

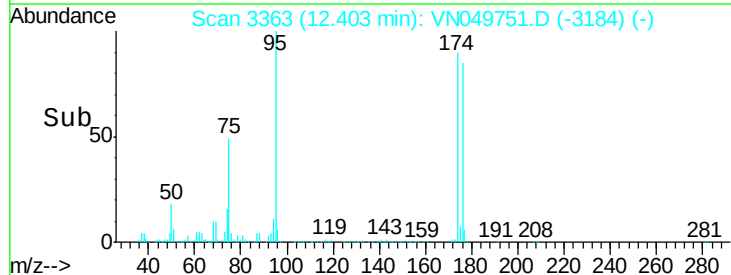
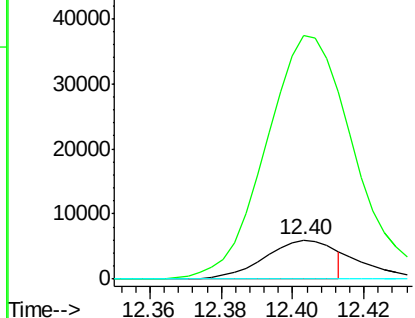


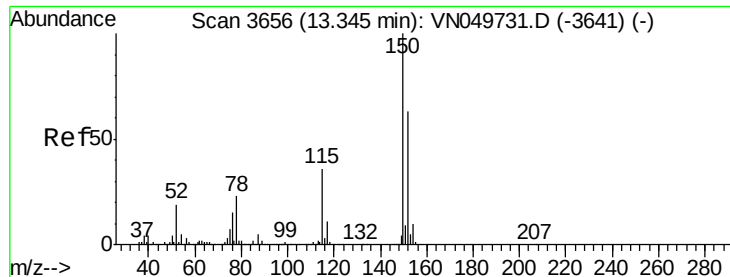
#71
Bromoform
Concen: 0.64 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049751.D
Acq: 6 Jul 2018 20:31

Tgt Ion:173 Resp: 8066
Ion Ratio Lower Upper
173 100
175 624.0 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

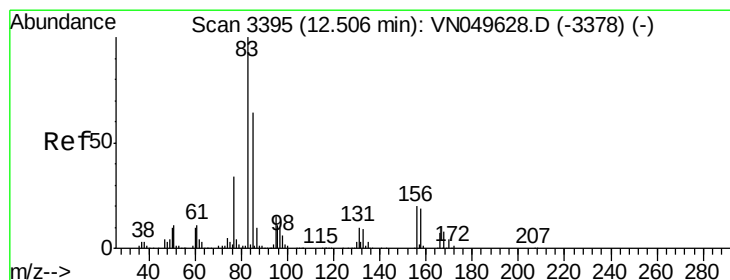
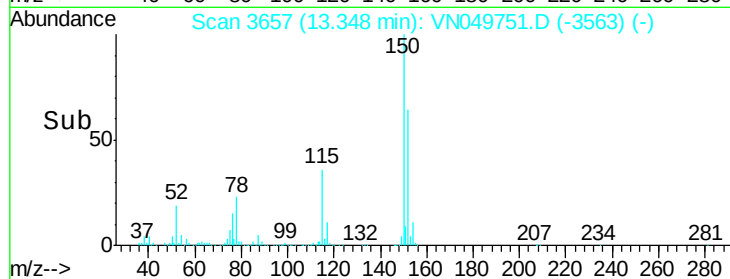
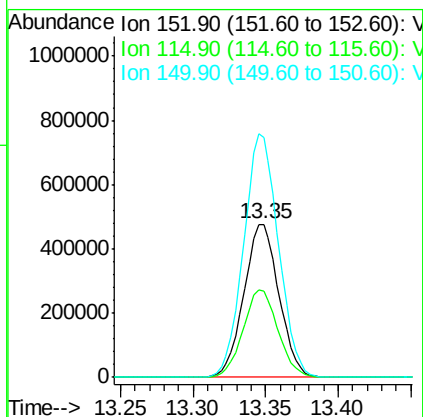
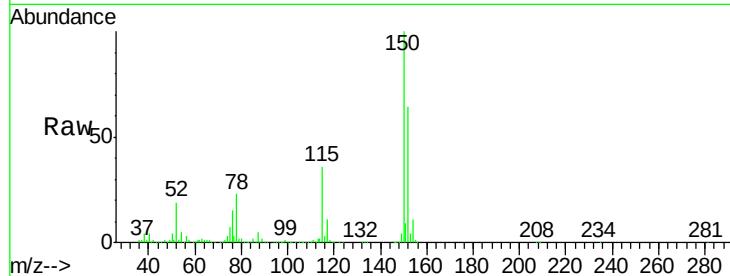




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3657
 Delta R.T. 0.00 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

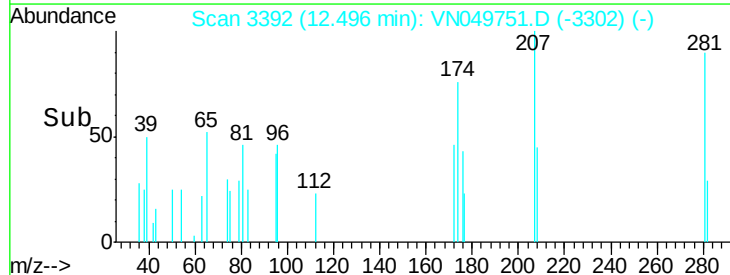
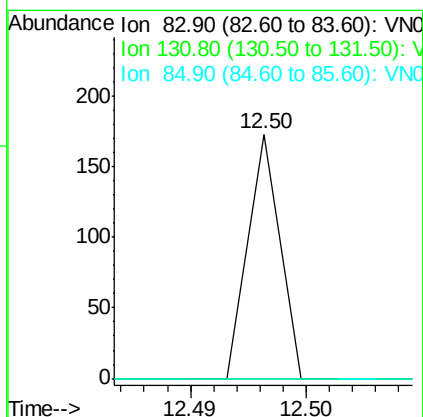
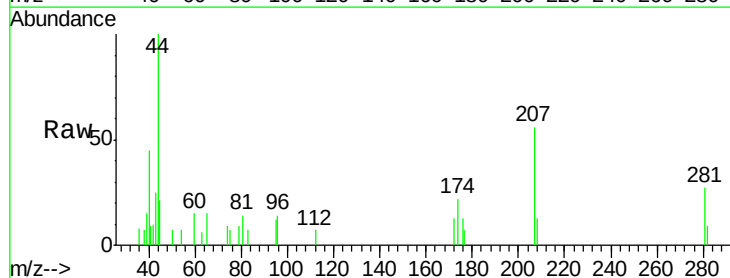
Instrument :
 MSVOA_N
 ClientSampled :

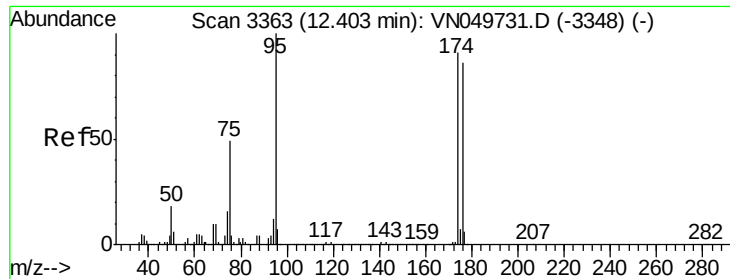
Tot Ion:152 Resp: 801771
 Ion Ratio Lower Upper
 152 100
 115 56.8 28.1 84.2
 150 158.2 0.0 347.6



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.50 min Scan# 3392
 Delta R.T. -0.01 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

Tgt Ion: 83 Resp: 33
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.2 15.6#
 85 0.0 32.5 97.4#

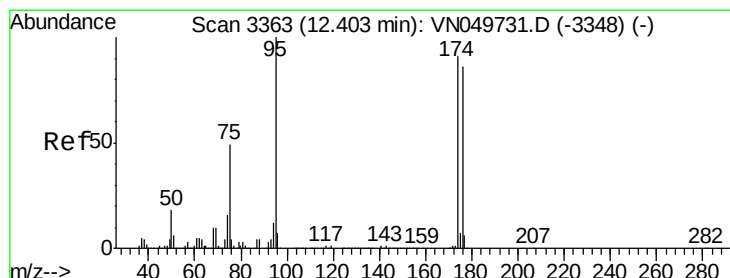
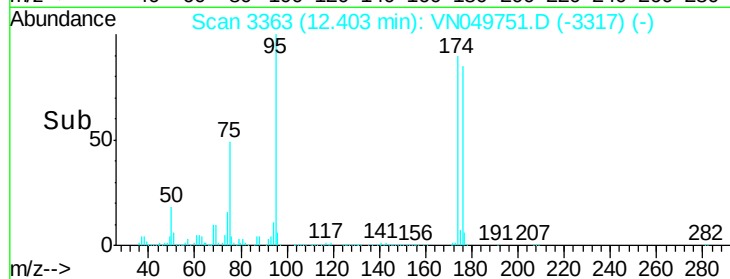
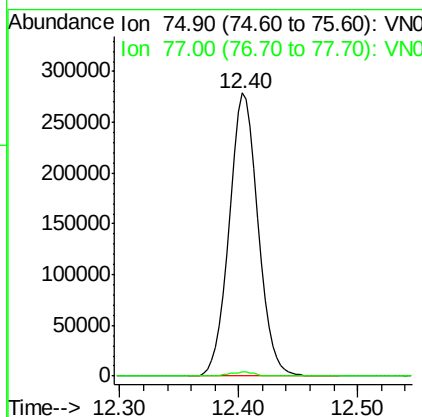
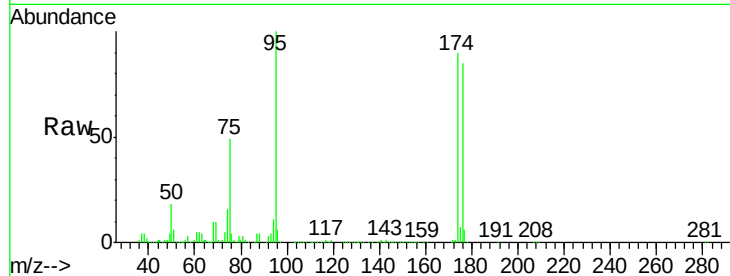




#76
 1,2,3-Trichloropropane
 Concen: 36.45 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

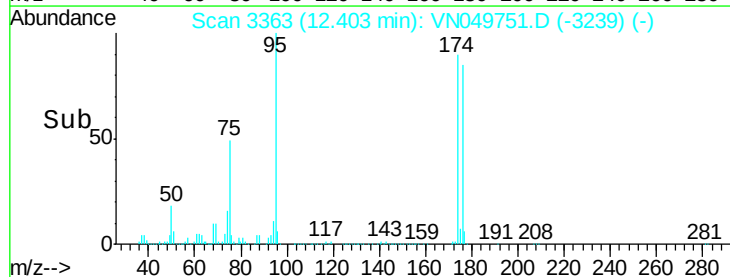
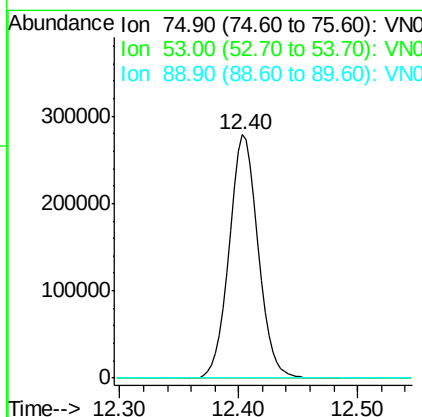
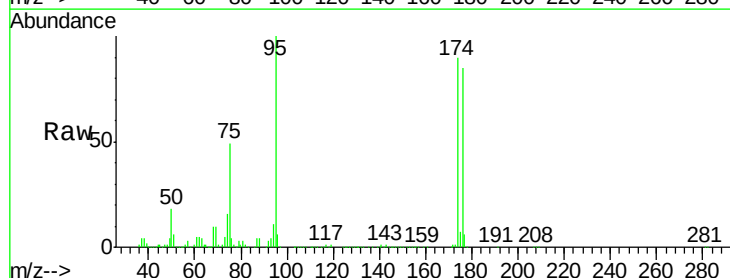
Instrument :
 MSVOA_N
 ClientSampleId :

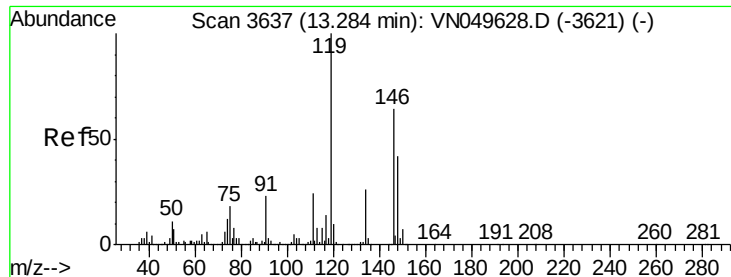
Tot Ion: 75 Resp: 468679
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 123.79 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

Tgt Ion: 75 Resp: 468679
 Ion Ratio Lower Upper
 75 100
 53 0.2 73.9 110.9#
 89 0.0 35.9 53.9#

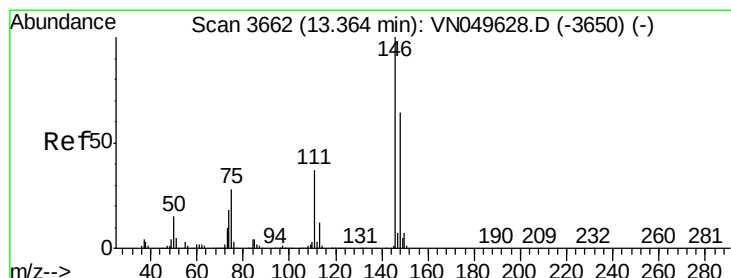
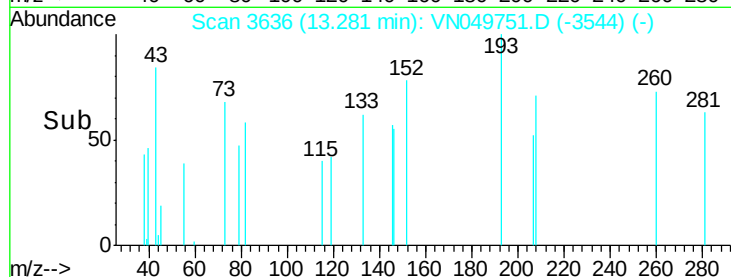
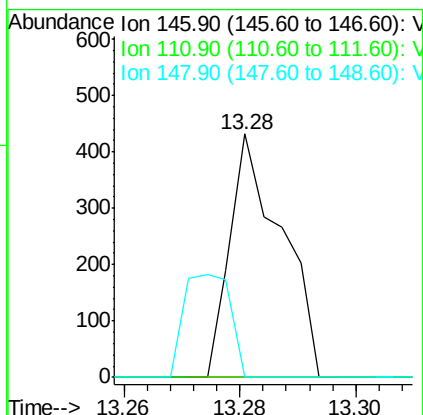
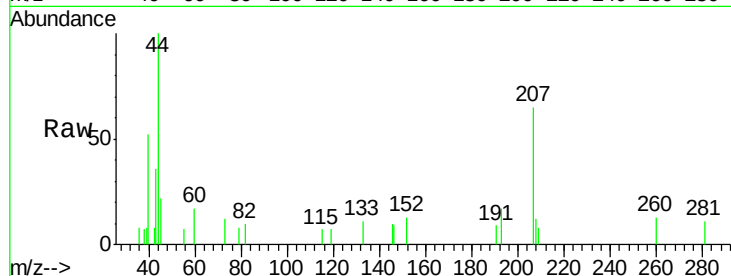




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 13.28 min Scan# 3636
 Delta R.T. -0.00 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

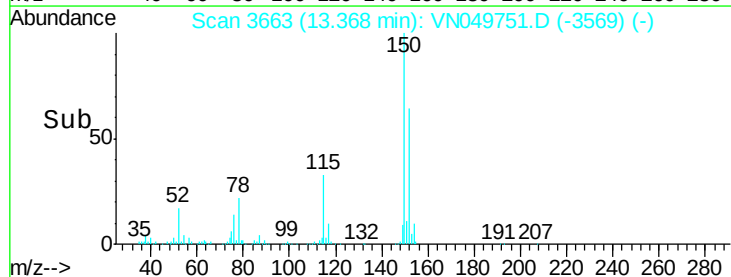
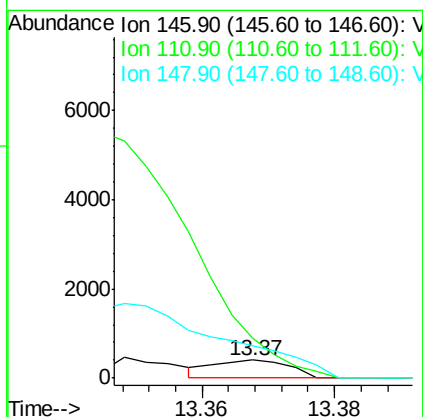
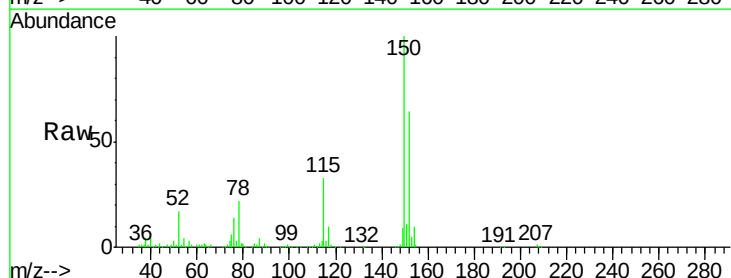
Instrument :
 MSVOA_N
 ClientSampled :

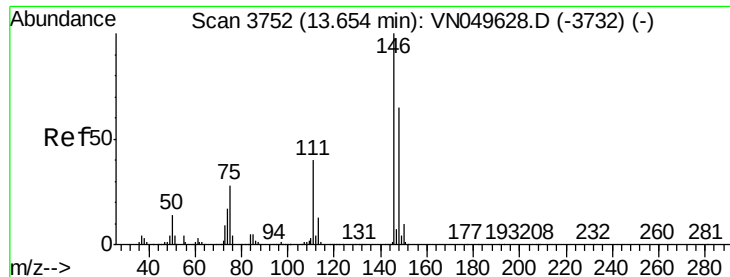
Tot Ion:146 Resp: 265
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.0 57.0#
 148 38.5 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.37 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

Tgt Ion:146 Resp: 318
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.5#
 148 0.0 32.1 96.3#

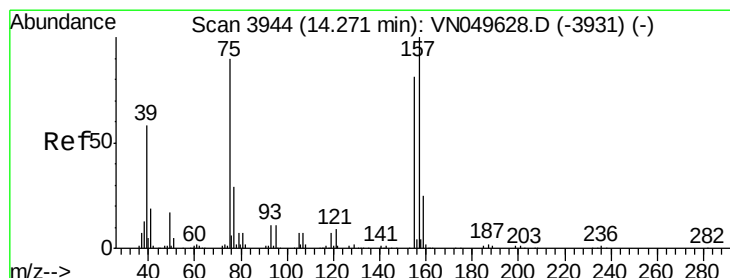
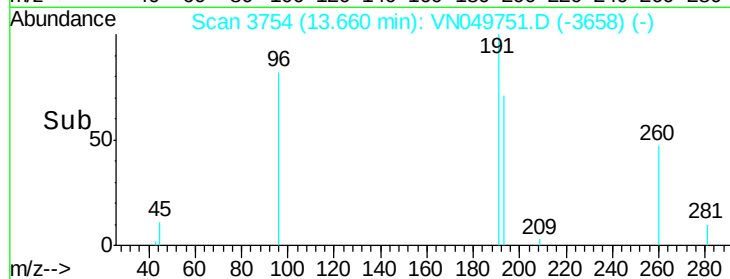
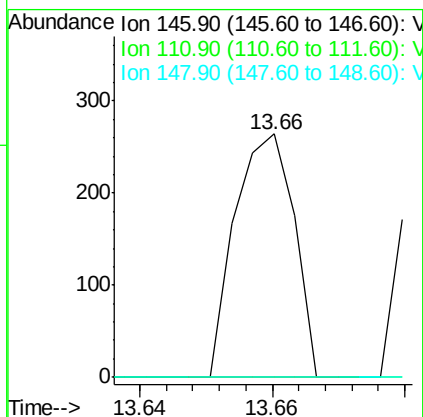
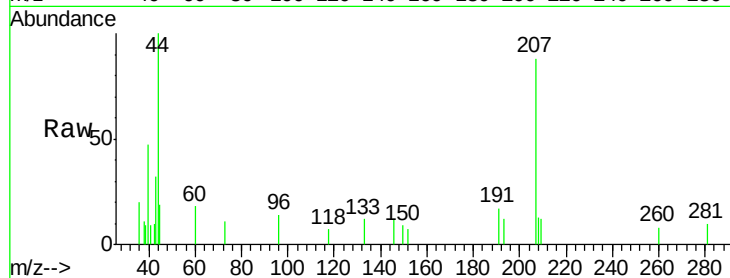




#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.66 min Scan# 3754
 Delta R.T. 0.01 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

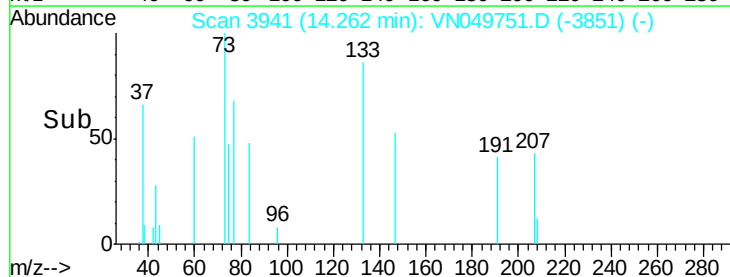
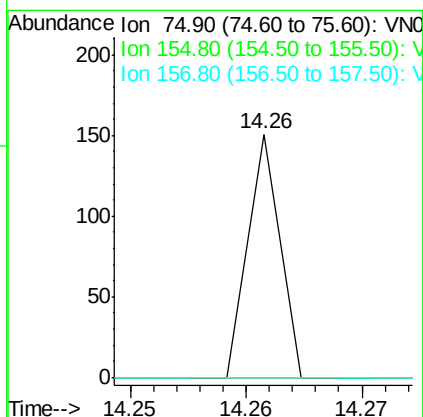
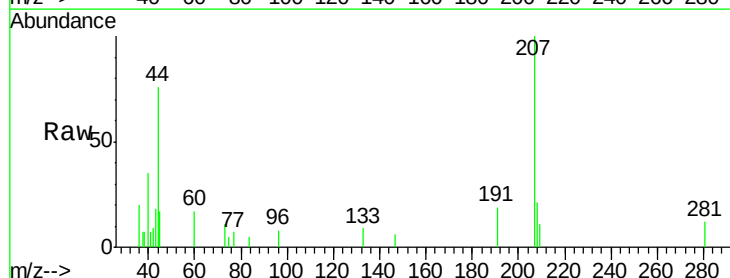
Instrument :
 MSVOA_N
 ClientSampleId :

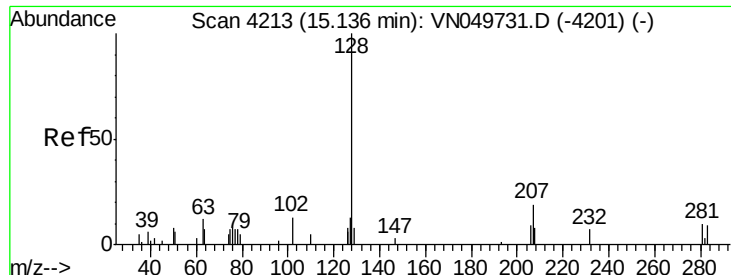
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.7	59.1#
148	0.0	32.0	96.2#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3941
 Delta R.T. -0.01 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	45.7	137.1#
157	0.0	56.9	170.7#





#95
 Naphthalene
 Concen: 4.08 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049751.D
 Acq: 6 Jul 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#

