

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061418\
 Data File : VN049243.D
 Acq On : 14 Jun 2018 21:51
 Operator : MD\SY
 Sample : J3447-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 15 04:08:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 14 05:15:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	599221	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1163146	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1195651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	355414	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	452900	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
35) Dibromofluoromethane	7.59	113	400195	41.57	ug/l	0.00
Spiked Amount			Recovery	=	83.14%	
50) Toluene-d8	10.09	98	1485887	39.68	ug/l	0.00
Spiked Amount			Recovery	=	79.36%	
62) 4-Bromofluorobenzene	12.41	95	488814	39.33	ug/l	0.00
Spiked Amount			Recovery	=	78.66%	

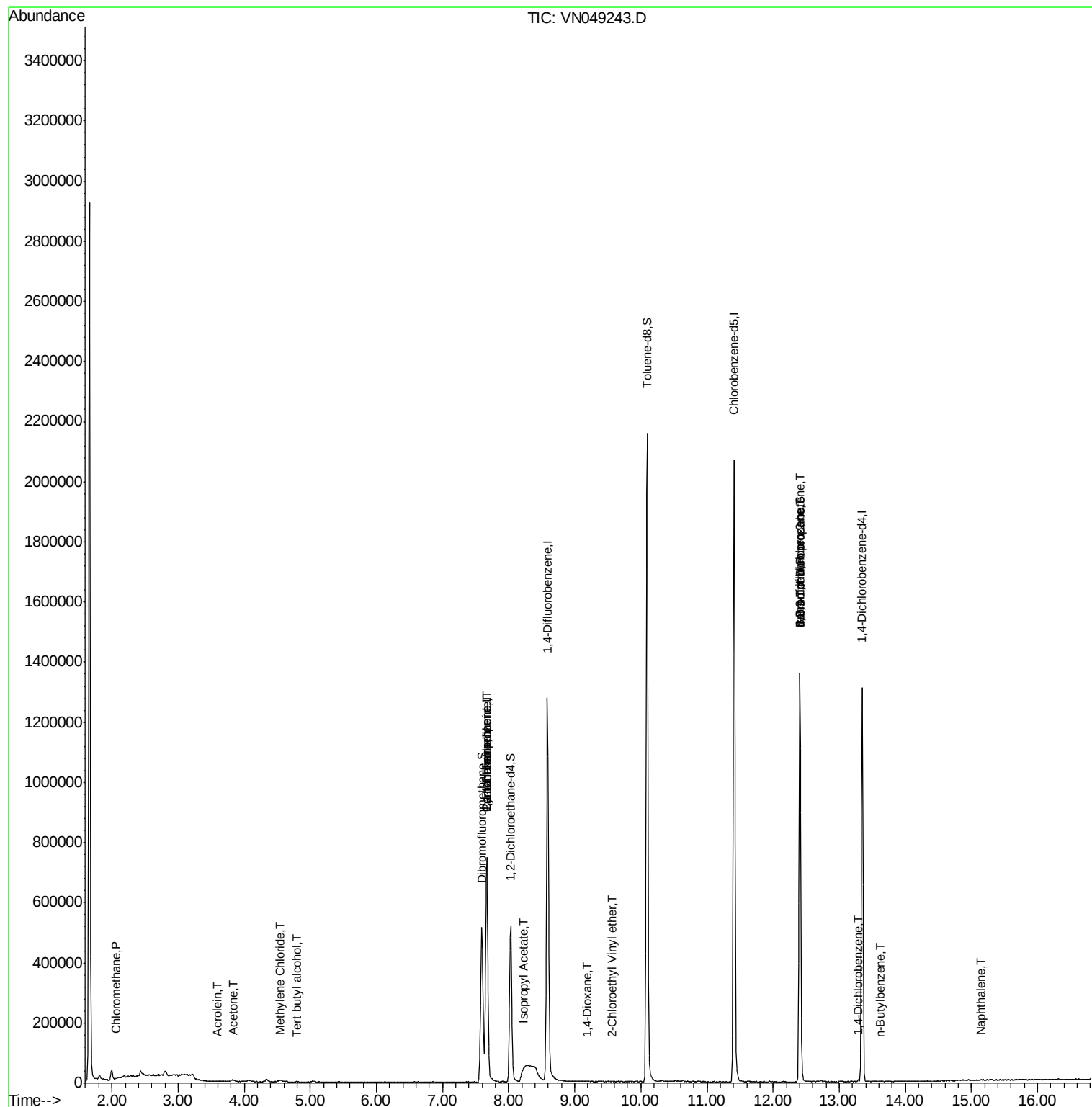
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2001	0.23	ug/l #	89
11) Tert butyl alcohol	4.79	59	113	0.21	ug/l #	70
13) Acrolein	3.60	56	148	0.21	ug/l #	1
16) Acetone	3.83	43	10541	4.56	ug/l	95
18) Methyl Acetate	4.33	43	13568	Below Cal		100
20) Methylene Chloride	4.55	84	2896	0.31	ug/l #	81
31) Cyclohexane	7.67	56	13931	0.61	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	49608	3.41	ug/l #	51
38) Carbon Tetrachloride	7.67	117	57325	3.92	ug/l #	17
43) Isopropyl Acetate	8.23	43	38283	2.27	ug/l #	64
49) 1,4-Dioxane	9.19	88	30	0.31	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.56	63	32	13.19	ug/l #	51
71) Bromoform	12.41	173	4464	0.61	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	64	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	246665	41.51	ug/l #	100
77) Bromobenzene	12.42	156	30	Below Cal	#	1
81) trans-1,4-Dichloro-2-buten	12.41	75	246665	115.95	ug/l #	9
88) 1,4-Dichlorobenzene	13.29	146	2639	0.20	ug/l	87
89) n-Butylbenzene	13.63	91	229	1.57	ug/l #	35
90) Hexachloroethane	14.01	117	186	Below Cal	#	9
95) Naphthalene	15.14	128	1314	5.51	ug/l #	72

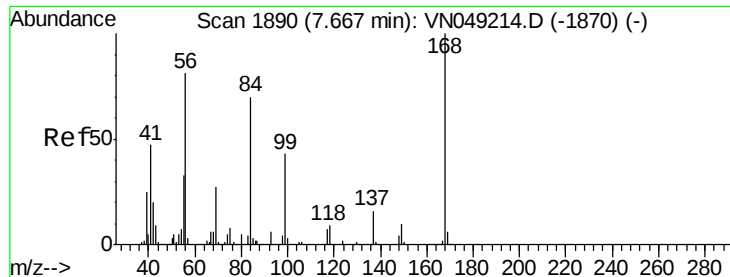
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 14 05:15:23 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: VN049243.D

Acq: 14 Jun 2018 21:51

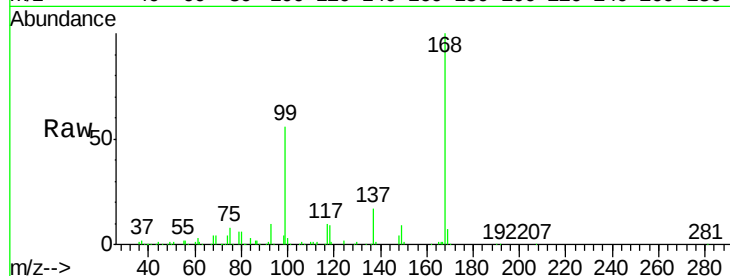
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 599221

Ion Ratio Lower Upper

168 100

99 56.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

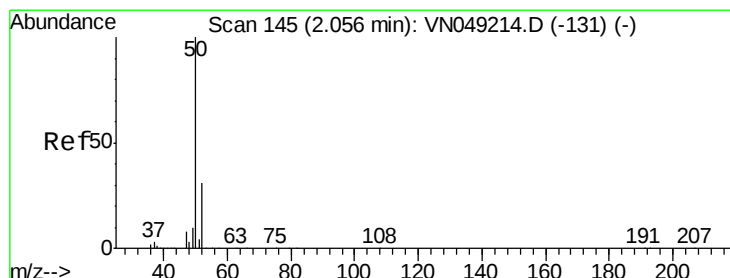
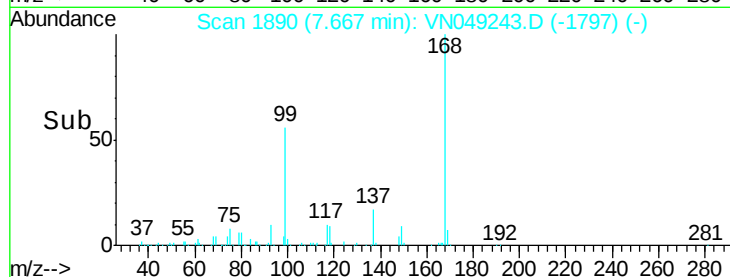
100000

50000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049243.D

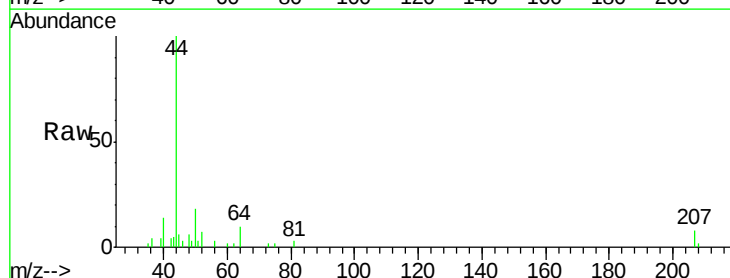
Acq: 14 Jun 2018 21:51

Tgt Ion: 50 Resp: 2001

Ion Ratio Lower Upper

50 100

52 37.8 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

1500

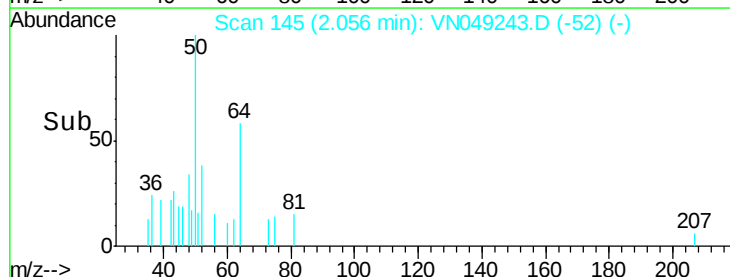
1000

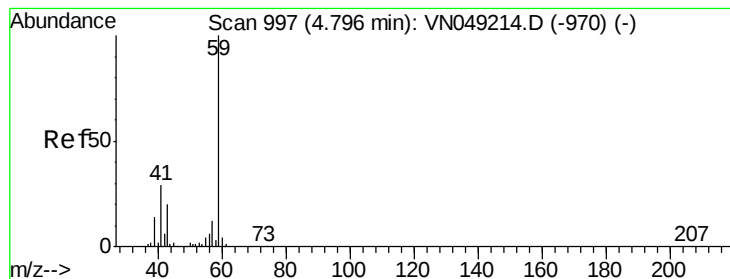
500

0

Time-->

2.05 2.10





#11

Tert butyl alcohol

Concen: 0.21 ug/l

RT: 4.79 min Scan# 995

Delta R.T. -0.01 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

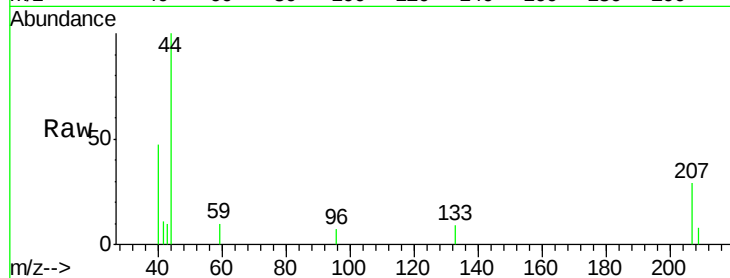
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 59 Resp: 113

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN049243.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN049243.D (-904) (-)

250

200

150

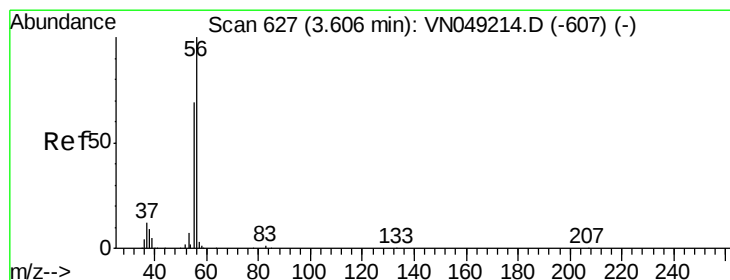
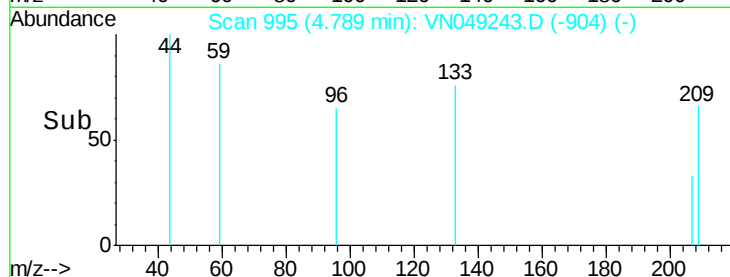
100

50

0

4.78 4.79 4.80

Time-->



#13

Acrolein

Concen: 0.21 ug/l

RT: 3.60 min Scan# 624

Delta R.T. -0.01 min

Lab File: VN049243.D

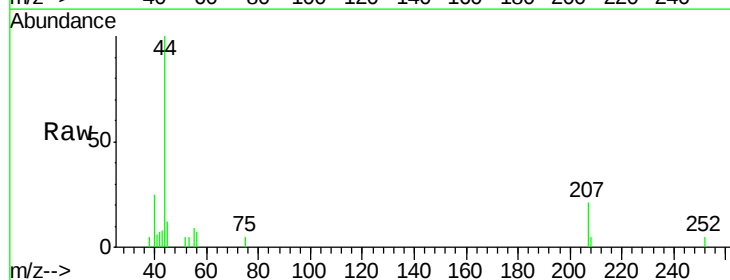
Acq: 14 Jun 2018 21:51

Tgt Ion: 56 Resp: 148

Ion Ratio Lower Upper

56 100

55 167.6 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN049243.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN049243.D (-534) (-)

400

300

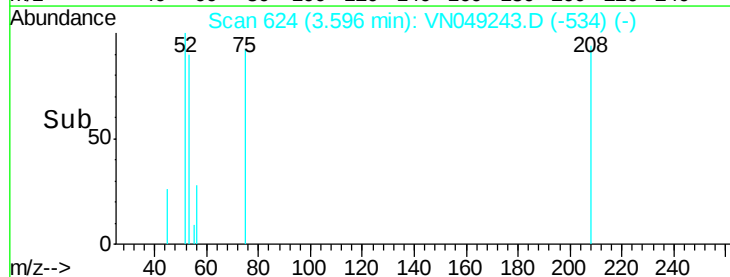
200

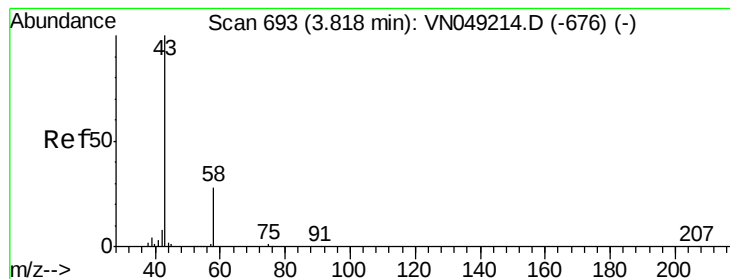
100

0

3.58 3.59 3.60

Time-->





#16

Acetone

Concen: 4.56 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Instrument :

MSVOA_N

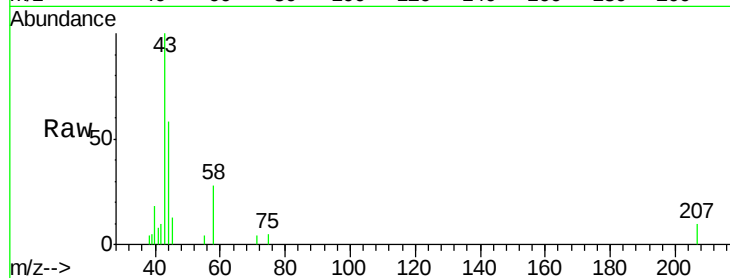
ClientSampleId :

Tot Ion: 43 Resp: 10541

Ion Ratio Lower Upper

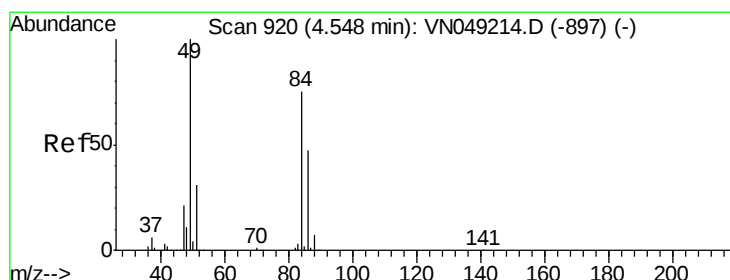
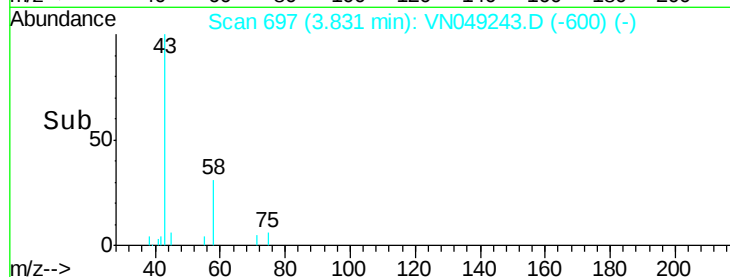
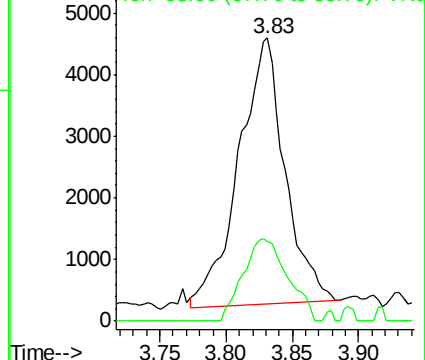
43 100

58 30.4 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN049243.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN049243.D (-600) (-)



#20

Methylene Chloride

Concen: 0.31 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.01 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Tgt Ion: 84 Resp: 2896

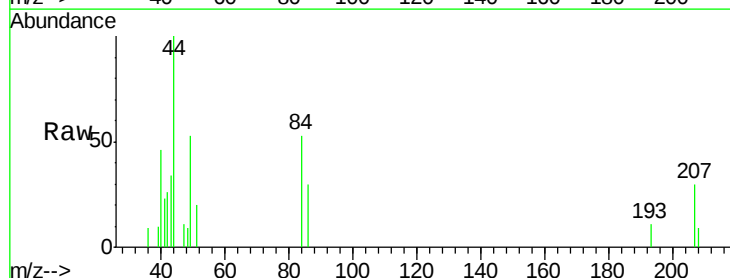
Ion Ratio Lower Upper

84 100

49 100.6 106.9 160.3#

51 37.1 32.7 49.1

86 56.2 49.8 74.8

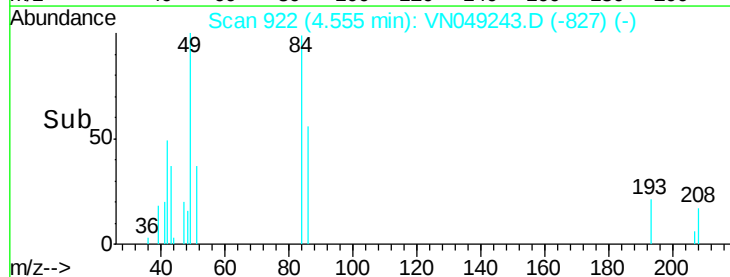
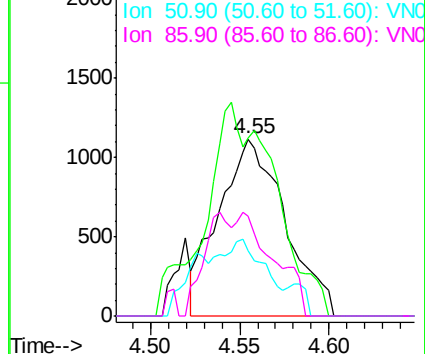


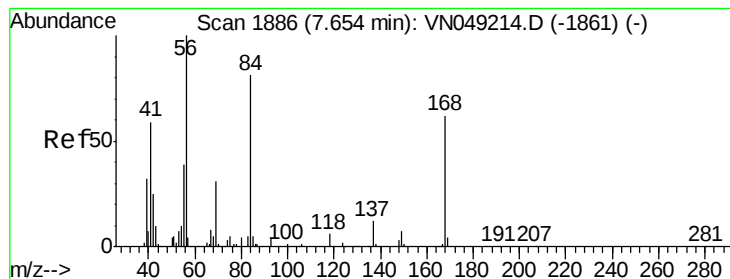
Abundance Ion 83.90 (83.60 to 84.60): VN049243.D (-827) (-)

Ion 48.90 (48.60 to 49.60): VN049243.D (-827) (-)

Ion 50.90 (50.60 to 51.60): VN049243.D (-827) (-)

Ion 85.90 (85.60 to 86.60): VN049243.D (-827) (-)





#31

Cyclohexane

Concen: 0.61 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Instrument :
MSVOA_N
ClientSampled :

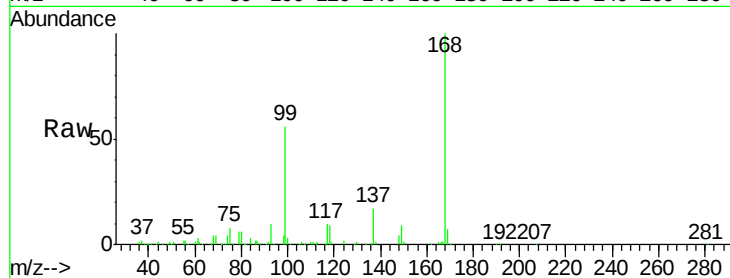
Tot Ion: 56 Resp: 13931

Ion Ratio Lower Upper

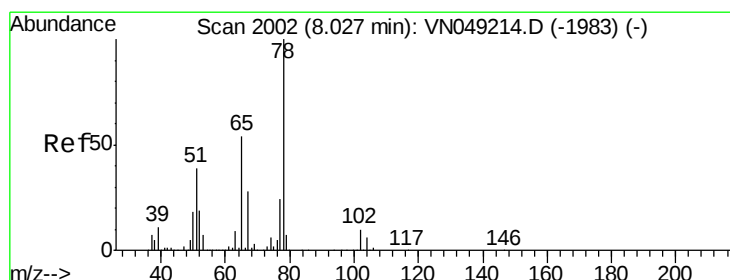
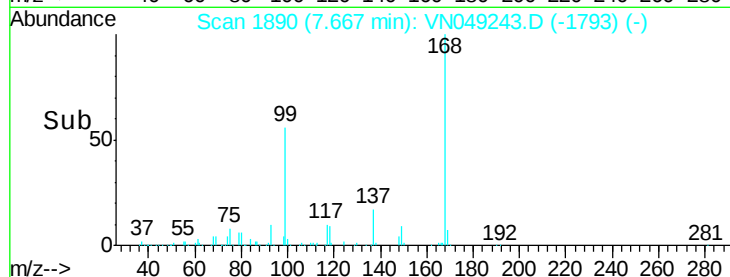
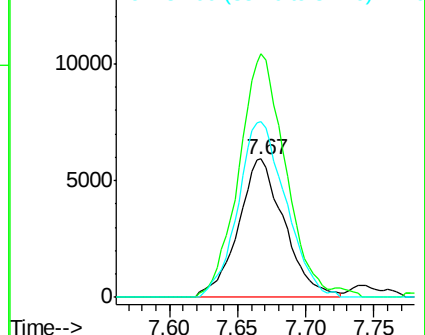
56 100

69 176.3 25.0 37.4#

84 127.1 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: 46.81 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049243.D

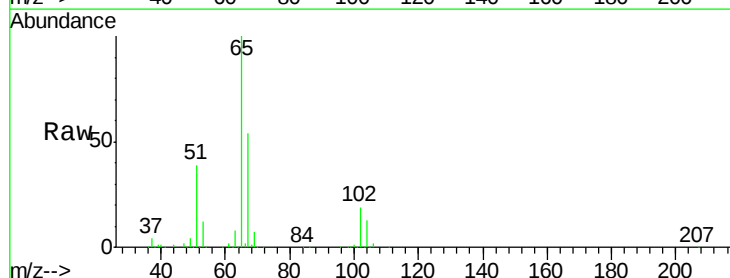
Acq: 14 Jun 2018 21:51

Tgt Ion: 65 Resp: 452900

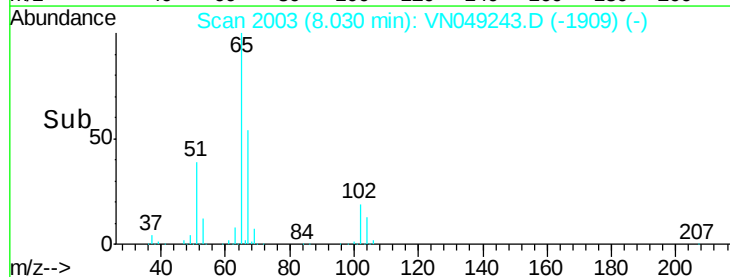
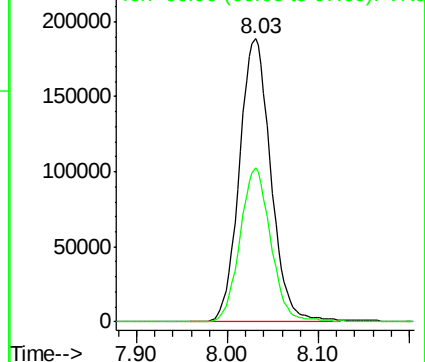
Ion Ratio Lower Upper

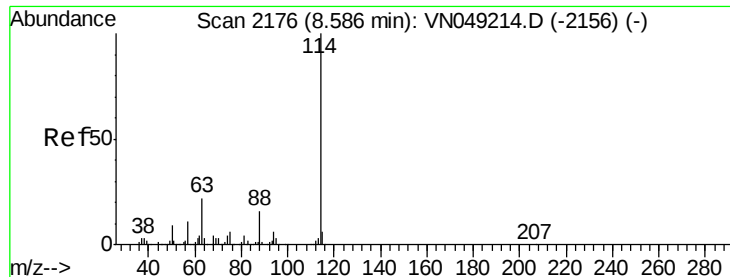
65 100

67 53.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

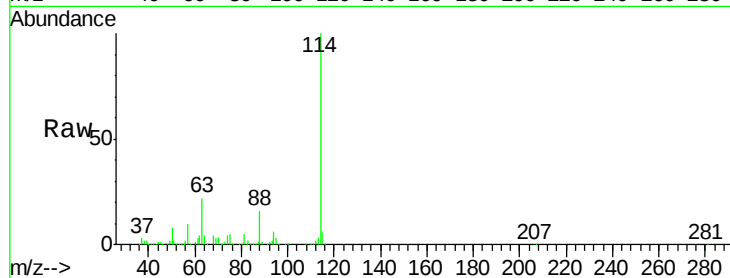




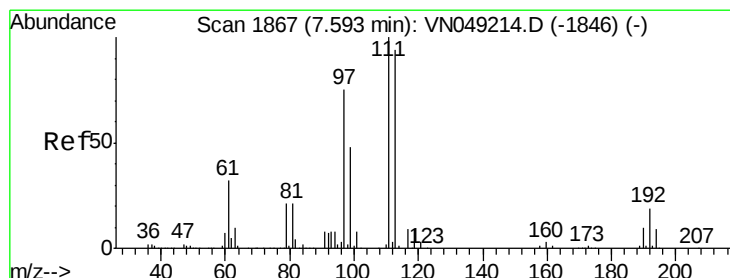
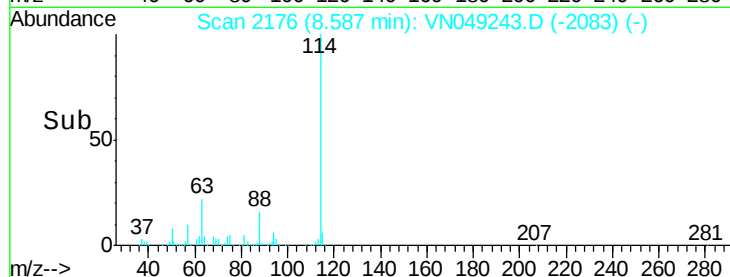
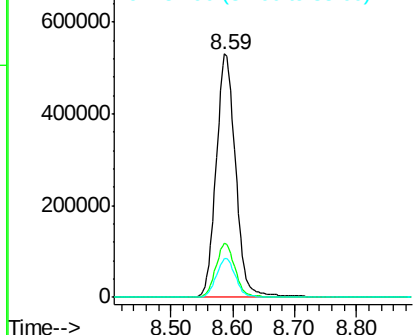
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049243.D
 Acq: 14 Jun 2018 21:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1163146
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.4
 88 15.7 0.0 31.4

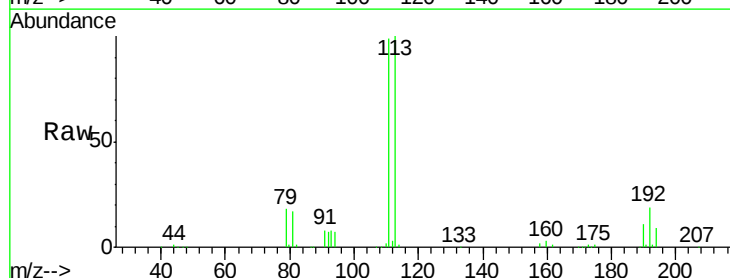


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

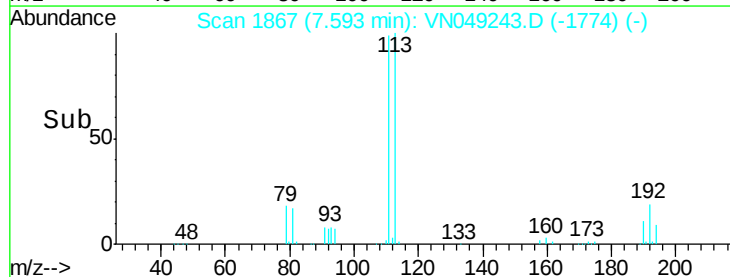
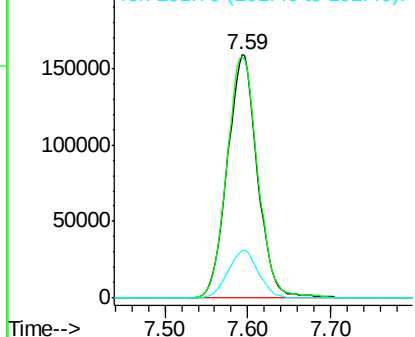


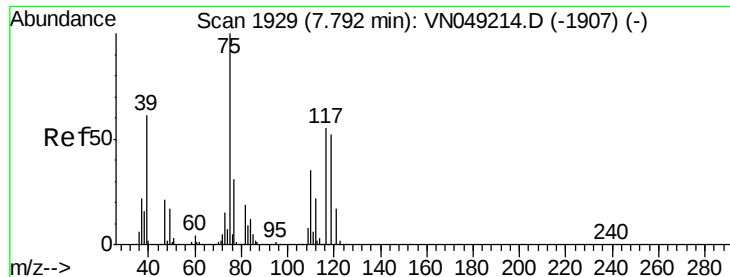
#35
 Dibromofluoromethane
 Concen: 41.57 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049243.D
 Acq: 14 Jun 2018 21:51

Tgt Ion:113 Resp: 400195
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.4 123.6
 192 20.1 15.0 22.6



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

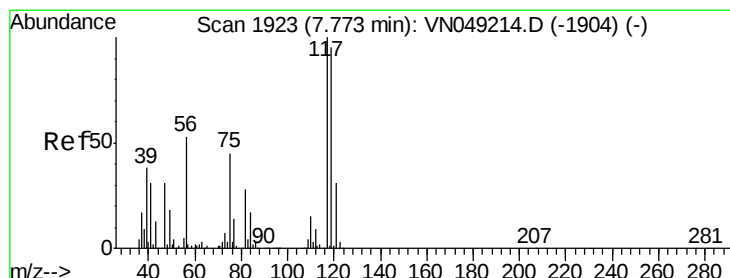
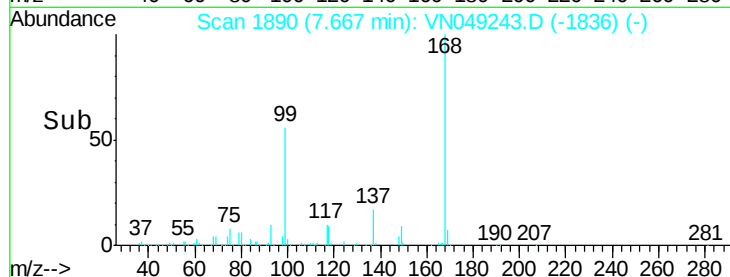
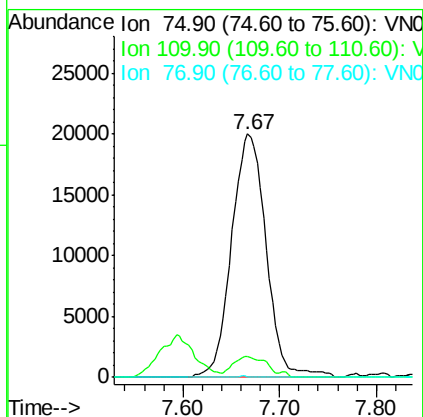
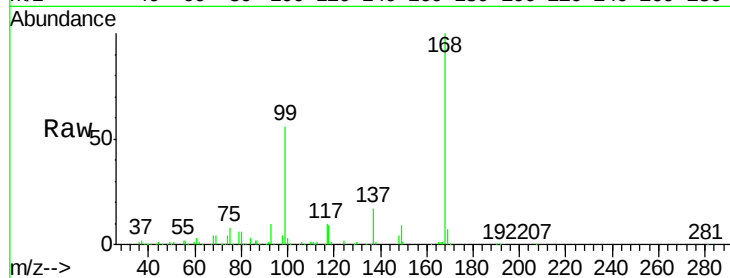




#36
 1,1-Dichloropropene
 Concen: 3.41 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049243.D
 Acq: 14 Jun 2018 21:51

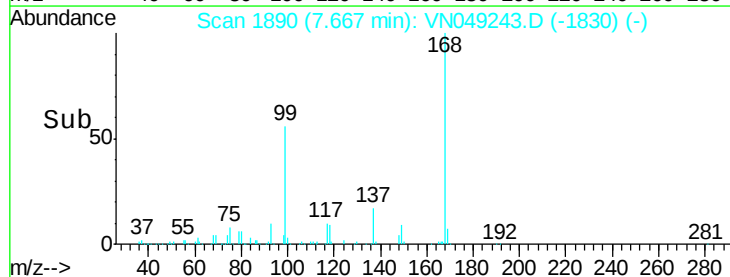
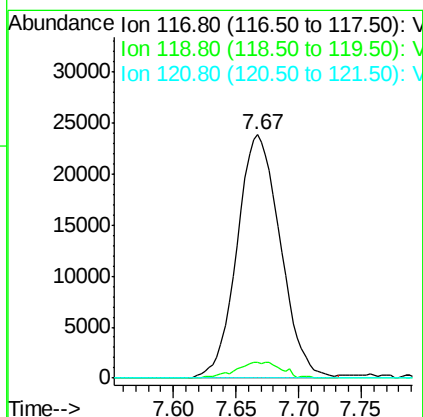
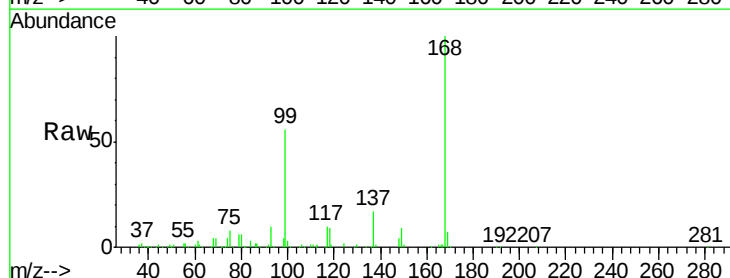
Instrument :
 MSVOA_N
 ClientSampleId :

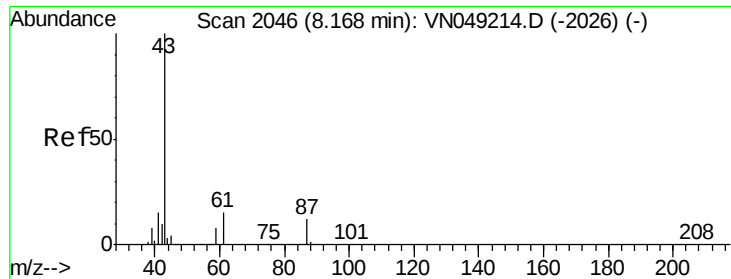
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.0	50.9#
77	0.1	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 3.92 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049243.D
 Acq: 14 Jun 2018 21:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	75.6	113.4#
121	0.0	24.7	37.1#

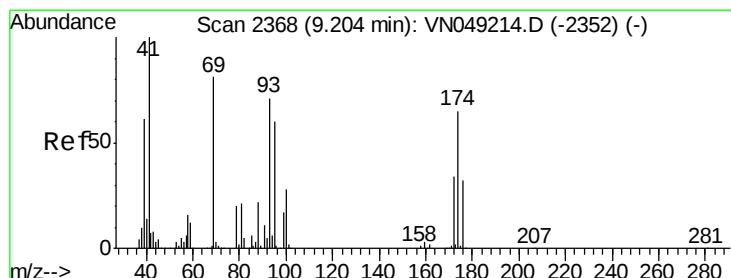
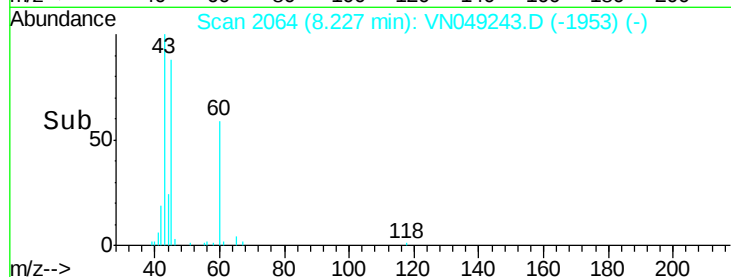
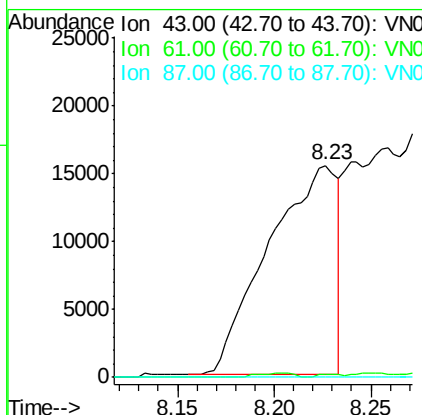
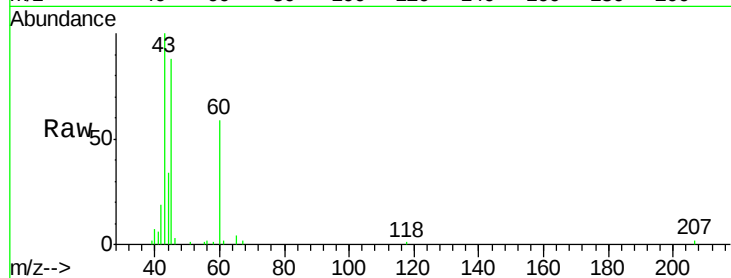




#43
Isopropyl Acetate
Concen: 2.27 ug/l
RT: 8.23 min Scan# 2064
Delta R.T. 0.06 min
Lab File: VN049243.D
Acq: 14 Jun 2018 21:51

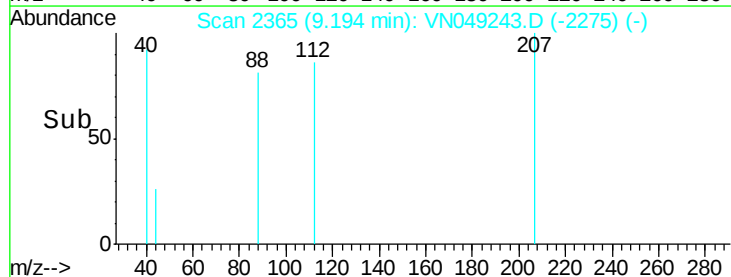
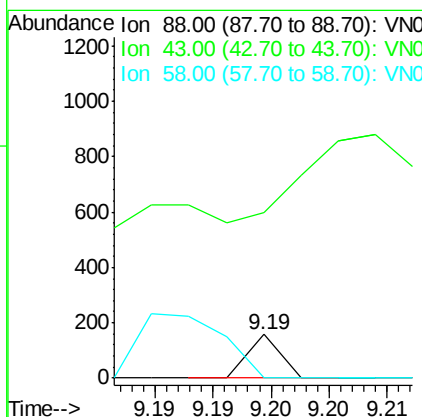
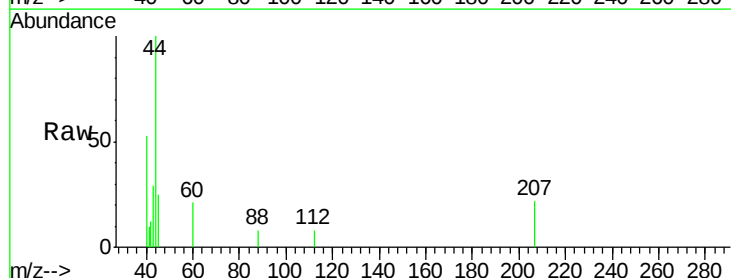
Instrument :
MSVOA_N
ClientSampleId :

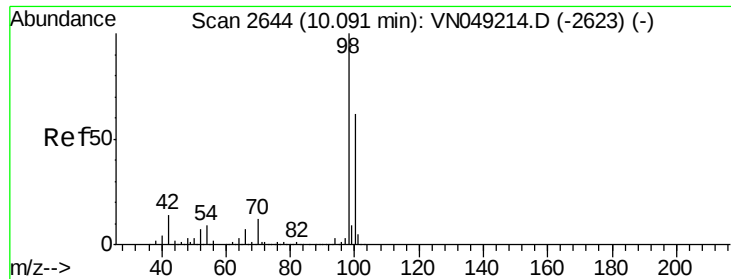
Tot Ion: 43 Resp: 38283
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.0 9.4 14.0#



#49
1,4-Dioxane
Concen: 0.31 ug/l
RT: 9.19 min Scan# 2365
Delta R.T. -0.01 min
Lab File: VN049243.D
Acq: 14 Jun 2018 21:51

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 1163.3 30.9 46.3#
58 0.0 58.9 88.3#

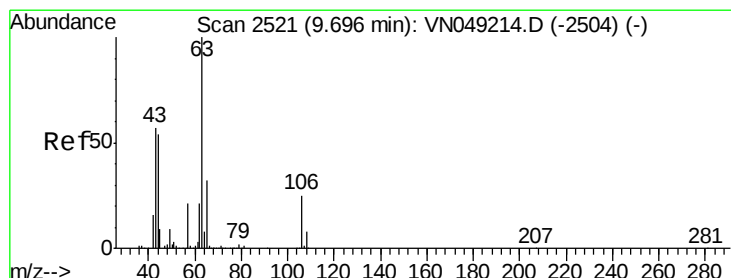
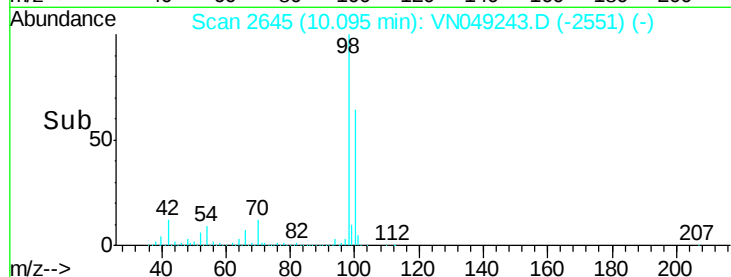
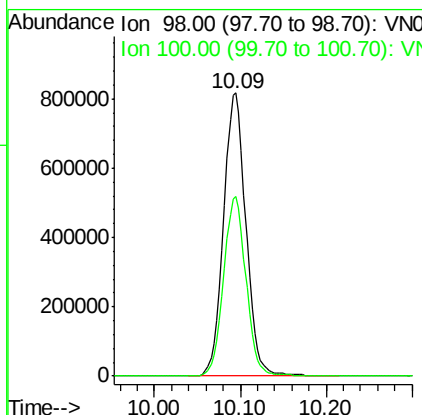
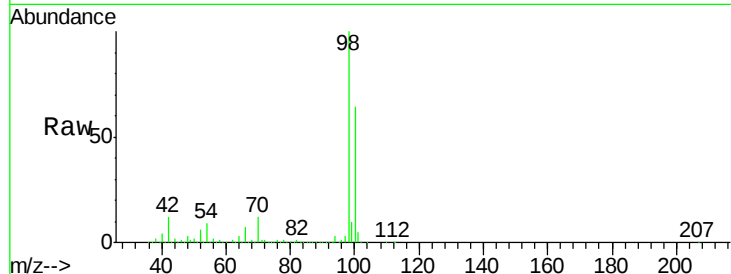




#50
Toluene-d8
Concen: 39.68 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049243.D
Acq: 14 Jun 2018 21:51

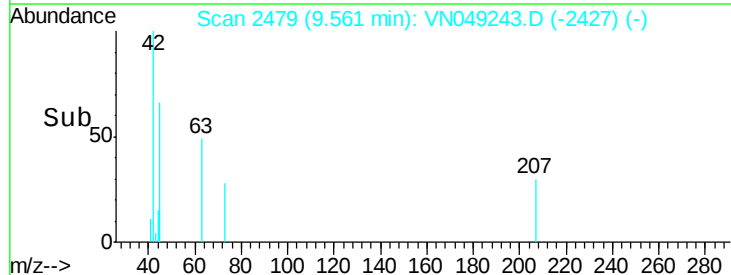
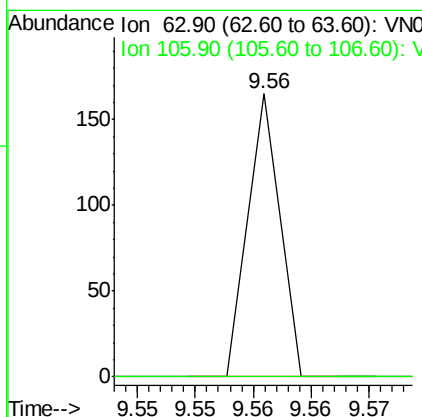
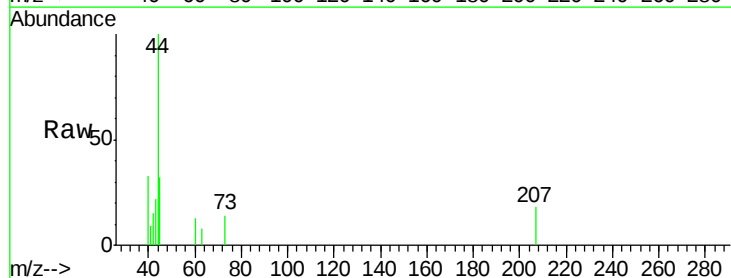
Instrument :
MSVOA_N
ClientSampled :

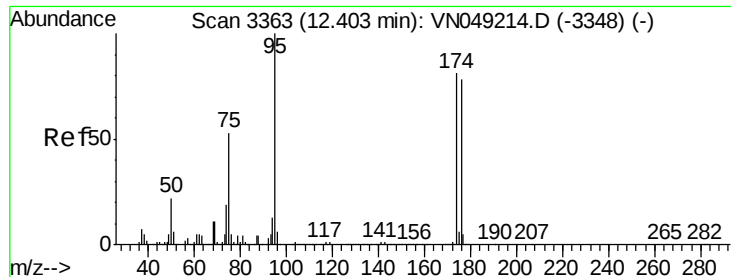
Tot Ion: 98 Resp: 1485887
Ion Ratio Lower Upper
98 100
100 63.6 49.8 74.8



#58
2-Chloroethyl Vinyl ether
Concen: 13.19 ug/l
RT: 9.56 min Scan# 2479
Delta R.T. -0.13 min
Lab File: VN049243.D
Acq: 14 Jun 2018 21:51

Tgt Ion: 63 Resp: 32
Ion Ratio Lower Upper
63 100
106 0.0 19.4 29.2#





#62

4-Bromofluorobenzene

Concen: 39.33 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Instrument :

MSVOA_N

ClientSampled :

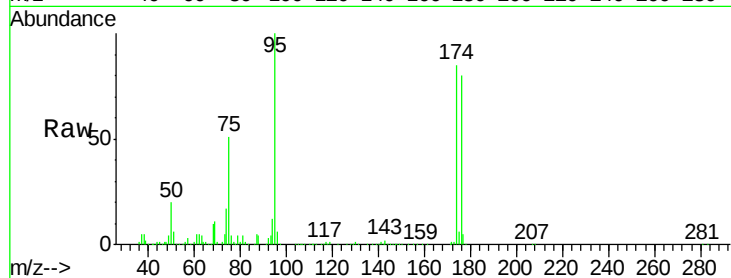
Tot Ion: 95 Resp: 488814

Ion Ratio Lower Upper

95 100

174 82.4 0.0 165.6

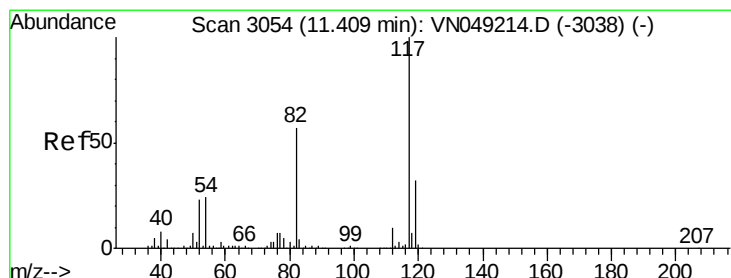
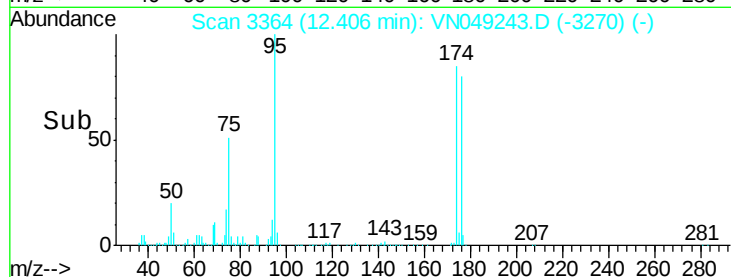
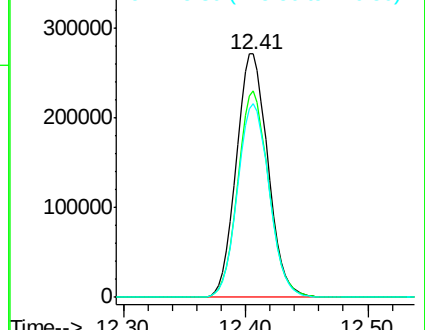
176 79.4 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049214.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN049214.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN049214.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

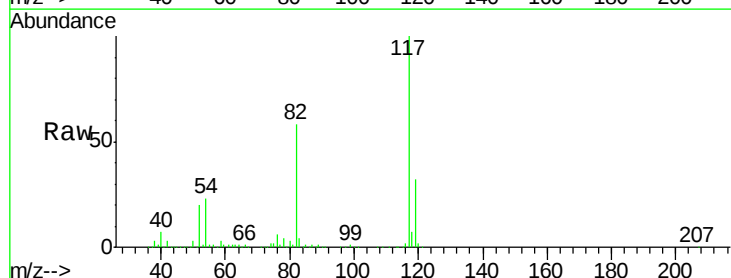
Tgt Ion: 117 Resp: 1195651

Ion Ratio Lower Upper

117 100

82 57.5 45.9 68.9

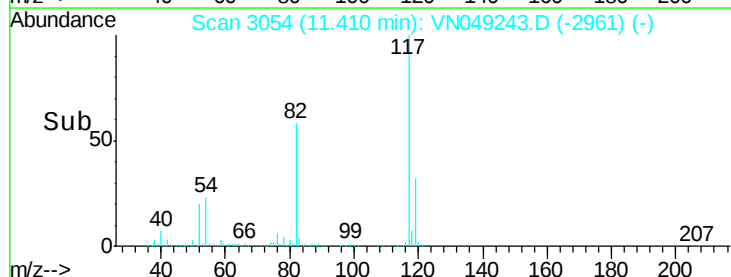
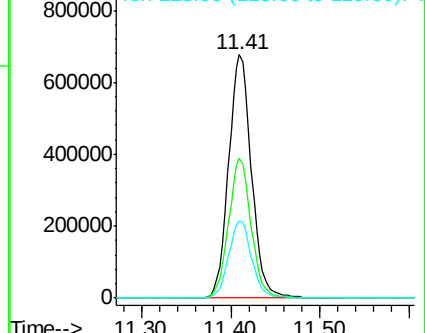
119 31.8 25.5 38.3

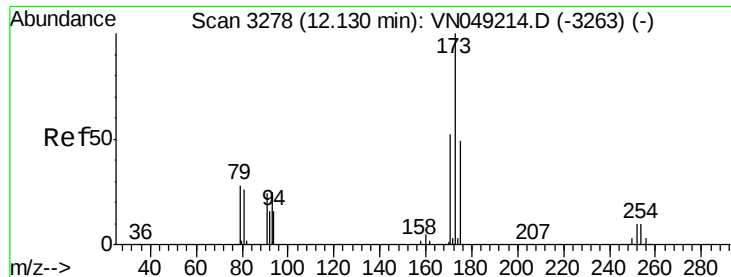


Abundance Ion 116.90 (116.60 to 117.60): VN049214.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049214.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049214.D (-3038) (-)





#71

Bromoform

Concen: 0.61 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Instrument :

MSVOA_N

ClientSampled :

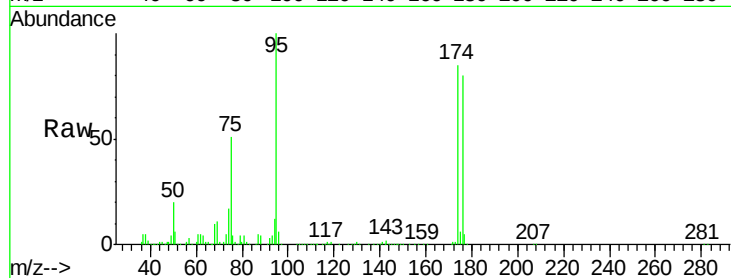
Tot Ion:173 Resp: 4464

Ion Ratio Lower Upper

173 100

175 542.0 24.5 73.5#

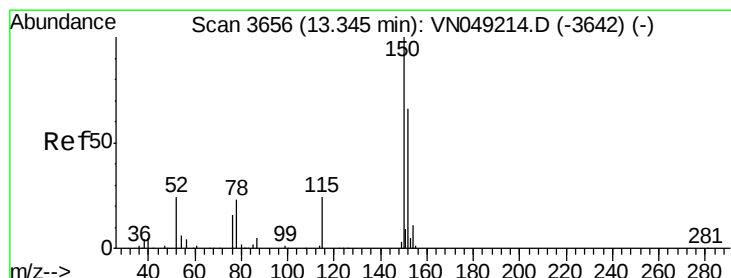
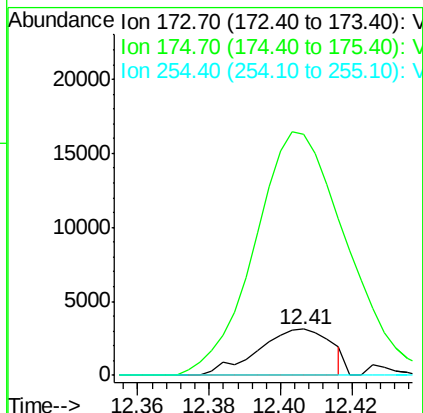
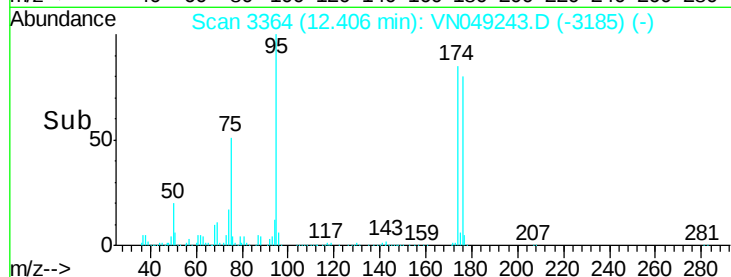
254 0.0 0.1 0.1#



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: VN049243.D

Acq: 14 Jun 2018 21:51

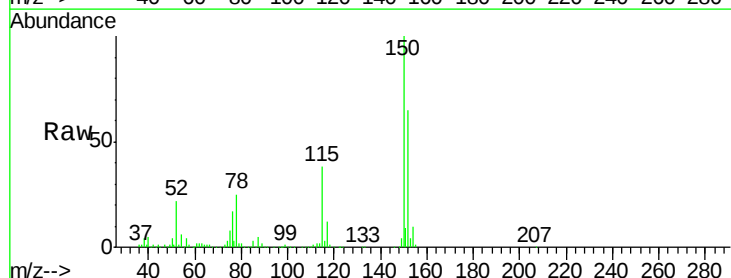
Tgt Ion:152 Resp: 355414

Ion Ratio Lower Upper

152 100

115 58.5 28.7 86.1

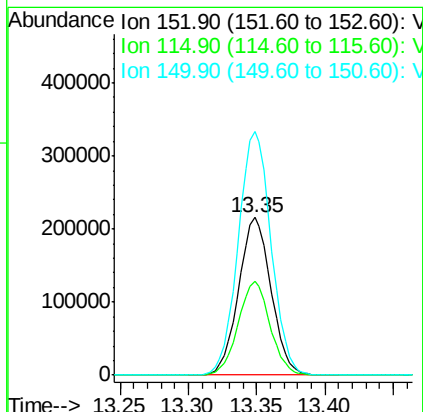
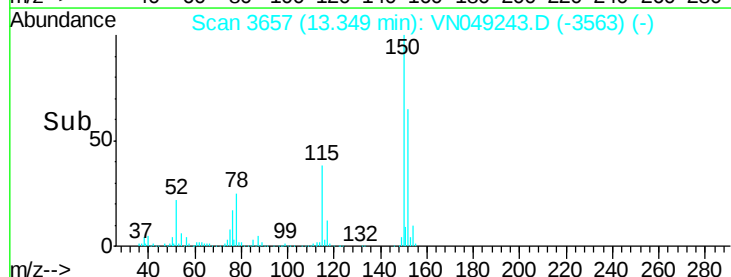
150 156.7 0.0 351.0

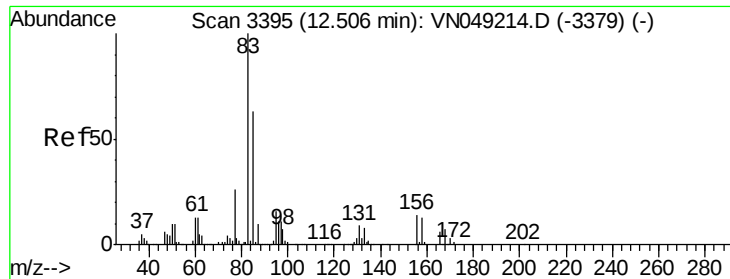


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Instrument :

MSVOA_N

ClientSampleId :

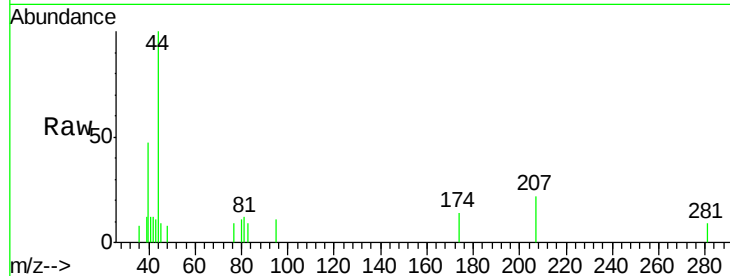
Tot Ion: 83 Resp: 64

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): VN049214.D (-3379) (-)

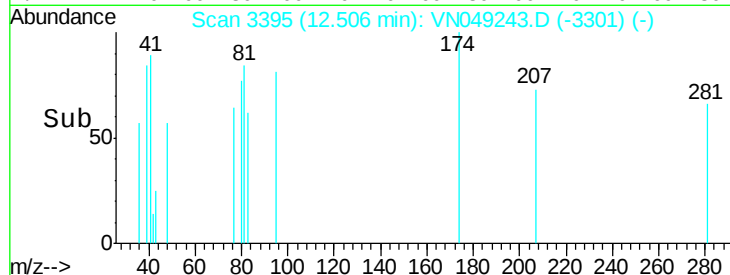
Ion 130.80 (130.50 to 131.50): VN049214.D (-3379) (-)

Ion 84.90 (84.60 to 85.60): VN049214.D (-3379) (-)

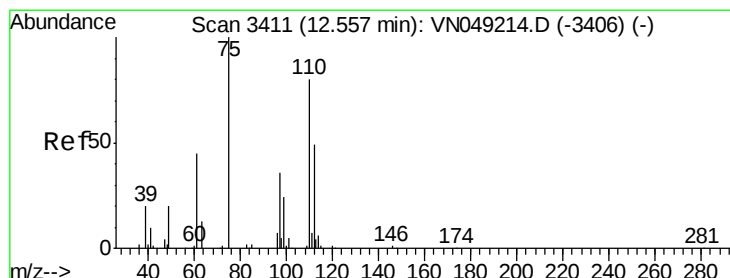
12.51

12.51

12.52



Time-->



#76

1,2,3-Trichloropropane

Concen: 41.51 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049243.D

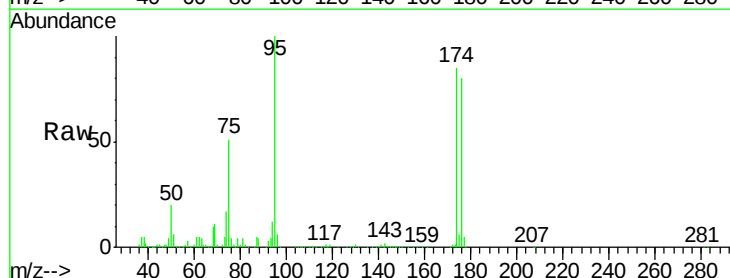
Acq: 14 Jun 2018 21:51

Tgt Ion: 75 Resp: 246665

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



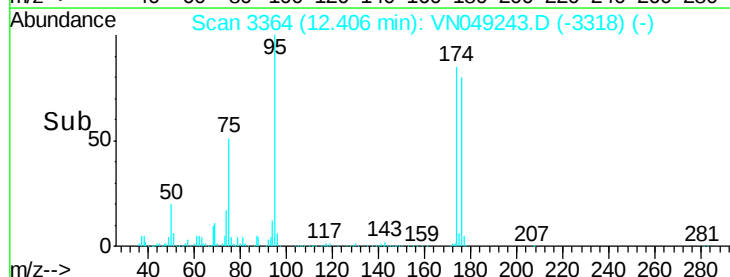
Abundance Ion 74.90 (74.60 to 75.60): VN049214.D (-3406) (-)

Ion 77.00 (76.70 to 77.70): VN049214.D (-3406) (-)

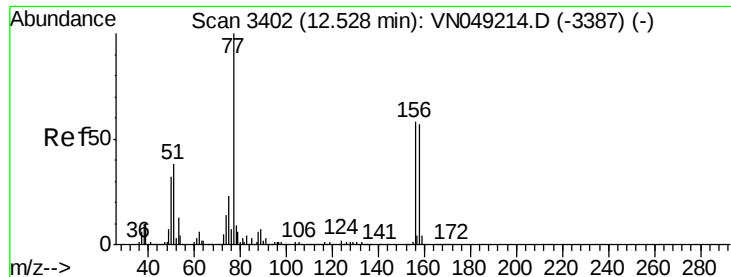
12.41

12.41

12.45



Time-->



#77

Bromobenzene

Concen: Below Cal

RT: 12.42 min Scan# 3367

Delta R.T. -0.11 min

Lab File: VN049243.D

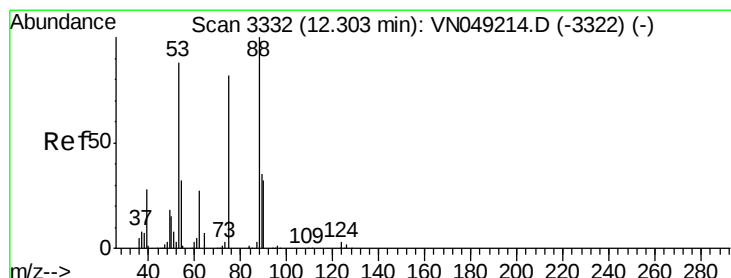
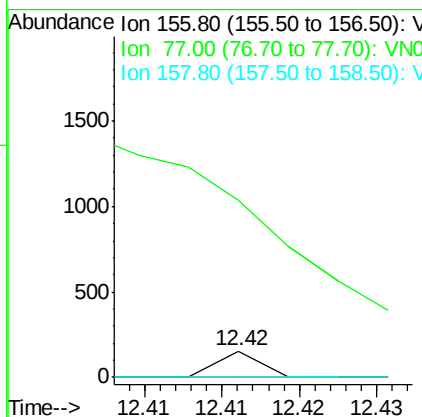
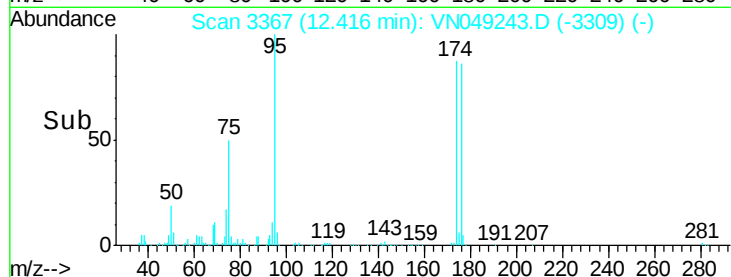
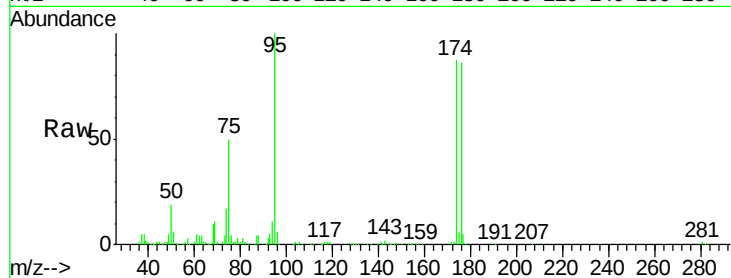
Acq: 14 Jun 2018 21:51

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	156	Resp:	30
Ion Ratio	Lower	Upper	
156	100		
77	0.0	100.8	302.4#
158	0.0	49.3	147.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 115.95 ug/l

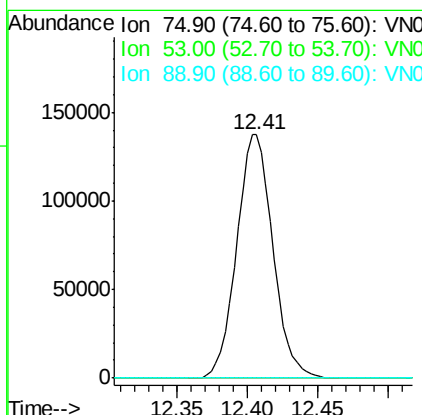
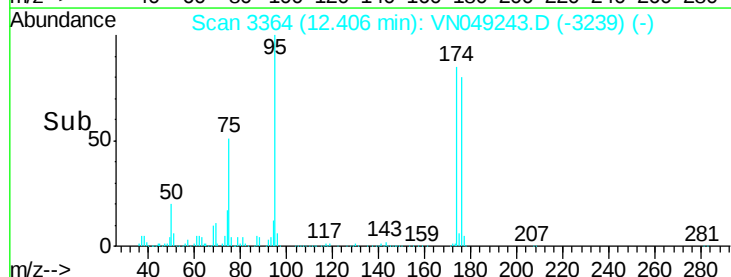
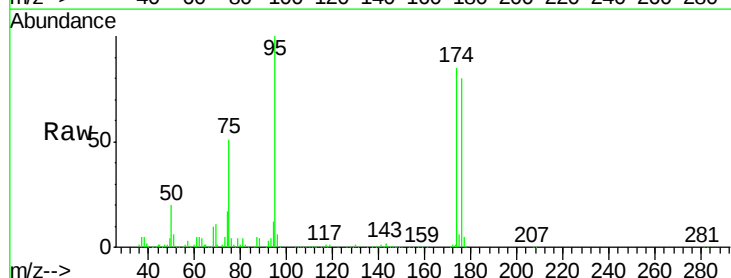
RT: 12.41 min Scan# 3364

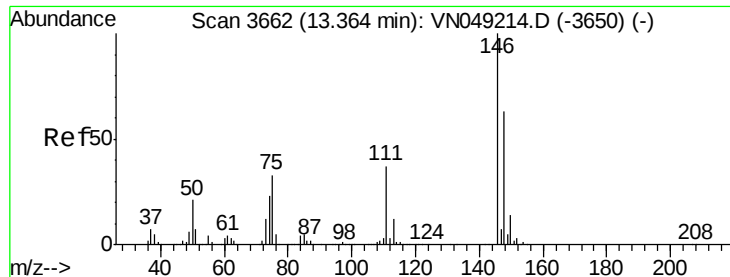
Delta R.T. 0.10 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Tgt Ion:	75	Resp:	246665
Ion Ratio	Lower	Upper	
75	100		
53	0.3	82.7	124.1#
89	0.0	36.5	54.7#

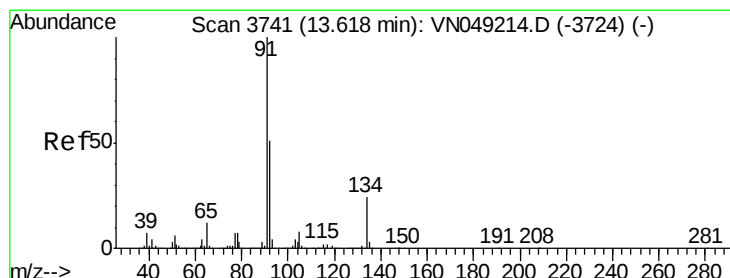
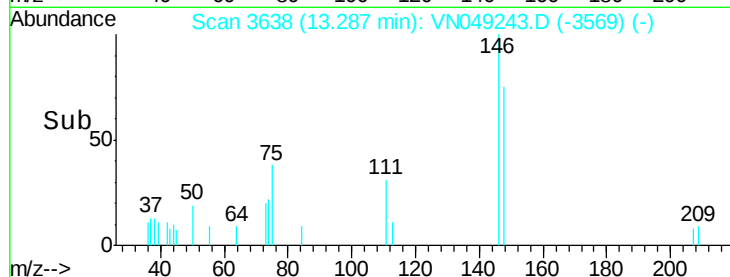
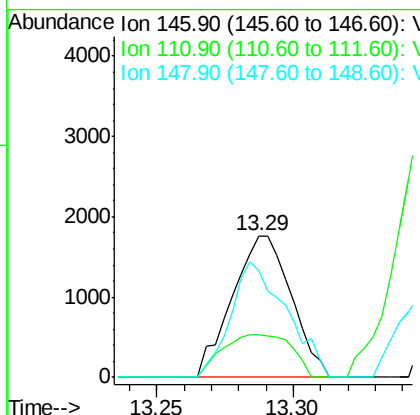
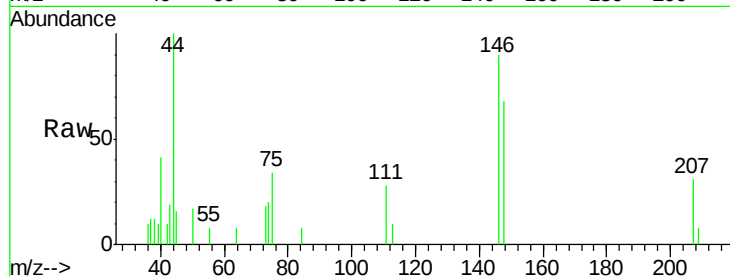




#88
 1,4-Dichlorobenzene
 Concen: 0.20 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. -0.08 min
 Lab File: VN049243.D
 Acq: 14 Jun 2018 21:51

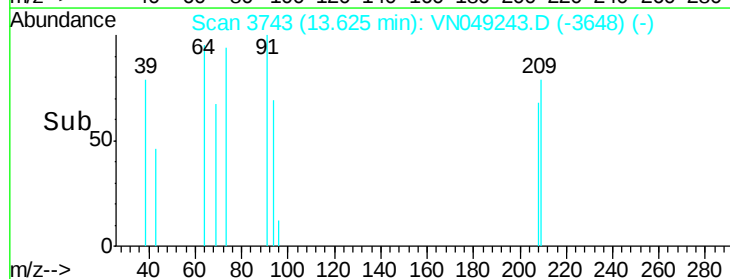
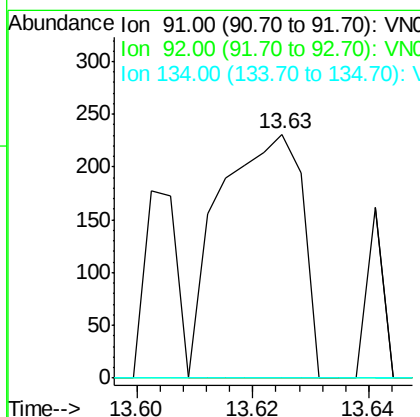
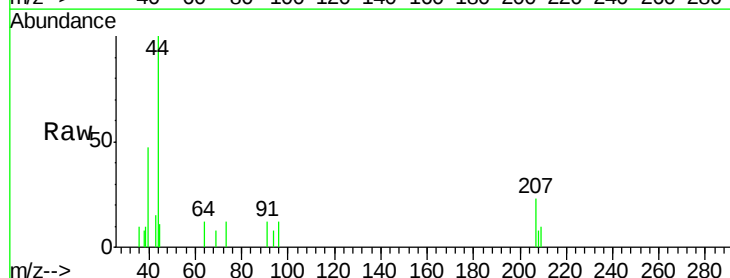
Instrument :
 MSVOA_N
 ClientSampled :

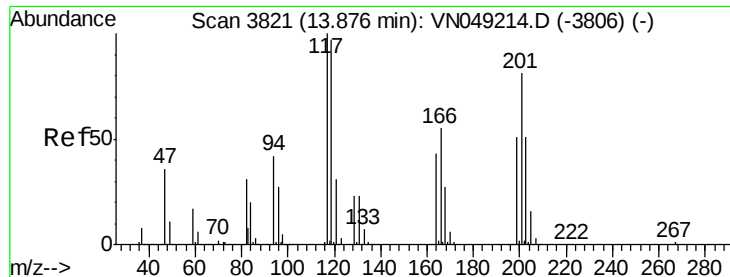
Tot Ion:146 Resp: 2639
 Ion Ratio Lower Upper
 146 100
 111 35.4 19.1 57.1
 148 77.7 32.0 96.2



#89
 n-Butylbenzene
 Concen: 1.57 ug/l
 RT: 13.63 min Scan# 3743
 Delta R.T. 0.01 min
 Lab File: VN049243.D
 Acq: 14 Jun 2018 21:51

Tgt Ion: 91 Resp: 229
 Ion Ratio Lower Upper
 91 100
 92 0.0 25.1 75.4#
 134 0.0 12.0 36.0#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.01 min Scan# 3862

Delta R.T. 0.13 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

Instrument :

MSVOA_N

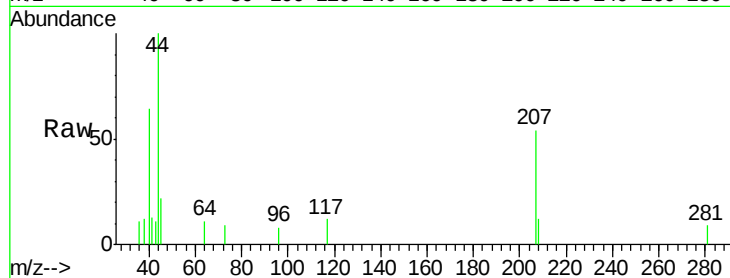
ClientSampled :

Tot Ion:117 Resp: 186

Ion Ratio Lower Upper

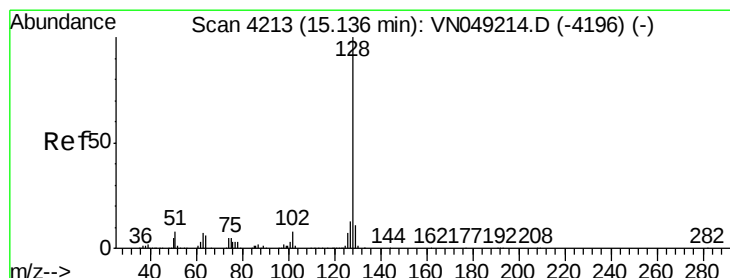
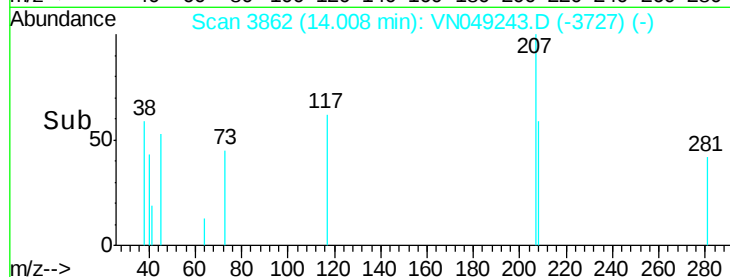
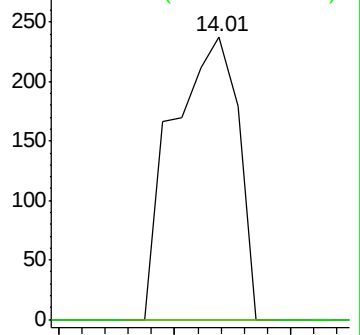
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 5.51 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049243.D

Acq: 14 Jun 2018 21:51

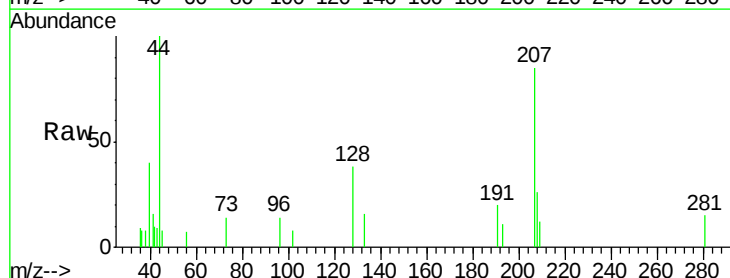
Tgt Ion:128 Resp: 1314

Ion Ratio Lower Upper

128 100

127 2.3 10.6 16.0#

129 0.0 8.5 12.7#



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

