

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049405.D
 Acq On : 19 Jun 2018 23:47
 Operator : MD\SY
 Sample : PB110363ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:35:49 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	1160274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1903941	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1518599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	403387	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	801266	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
35) Dibromofluoromethane	7.59	113	696536	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	
50) Toluene-d8	10.09	98	2539112	43.29	ug/l	0.00
Spiked Amount			Recovery	=	86.58%	
62) 4-Bromofluorobenzene	12.40	95	609757	31.44	ug/l	0.00
Spiked Amount			Recovery	=	62.88%	

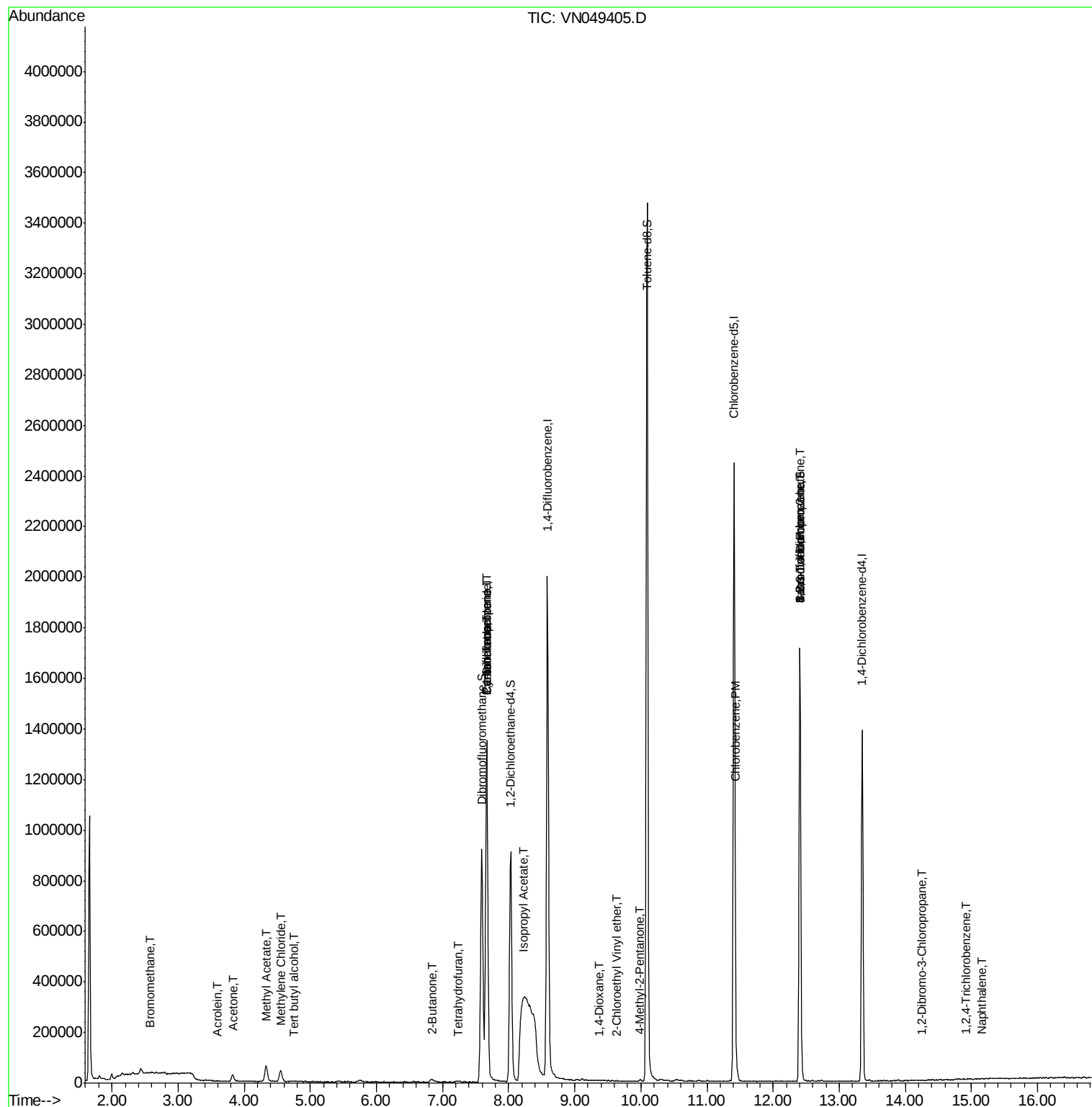
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	2707	0.28	ug/l	85
11) Tert butyl alcohol	4.77	59	588	0.65	ug/l	98
13) Acrolein	3.60	56	249	0.26	ug/l #	32
16) Acetone	3.82	43	44720	11.97	ug/l	96
18) Methyl Acetate	4.33	43	119356	10.48	ug/l	94
20) Methylene Chloride	4.55	84	32767	2.10	ug/l #	84
25) 2-Butanone	6.83	43	3044	0.61	ug/l #	87
29) Tetrahydrofuran	7.23	42	3482	1.08	ug/l #	70
31) Cyclohexane	7.67	56	22406	0.81	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82553	3.78	ug/l #	51
38) Carbon Tetrachloride	7.67	117	105773	4.68	ug/l #	17
43) Isopropyl Acetate	8.23	43	440527	19.44	ug/l #	64
49) 1,4-Dioxane	9.37	88	33	0.22	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	4536	0.38	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.63	63	69	14.34	ug/l #	51
65) Chlorobenzene	11.44	112	21872	0.56	ug/l	91
71) Bromoform	12.40	173	4911	0.52	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.46	83	136	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.41	75	299101	43.46	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	299101	137.35	ug/l #	9
90) Hexachloroethane	14.16	117	73	Below	Cal #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	551	0.45	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	272	4.78	ug/l #	13
95) Naphthalene	15.14	128	360	2.11	ug/l #	81

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

Instrument :

MSVOA_N

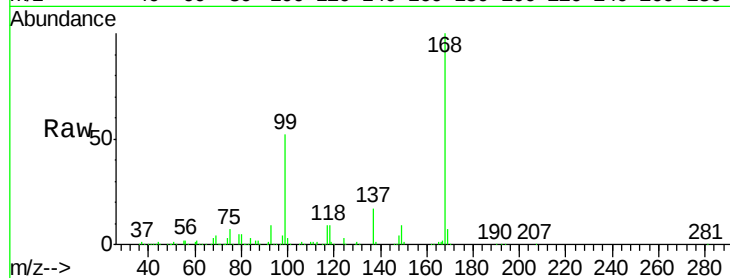
ClientSampleId :

Tot Ion:168 Resp: 1160274

Ion Ratio Lower Upper

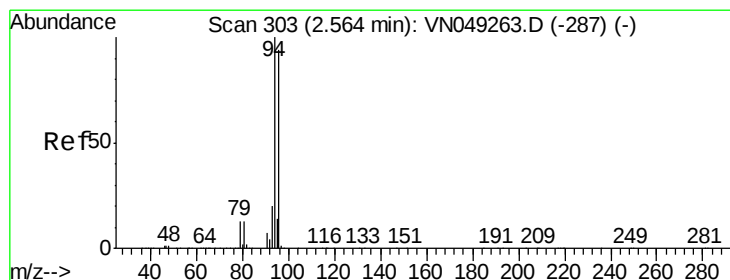
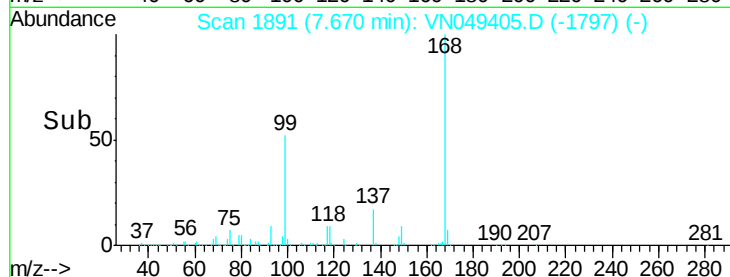
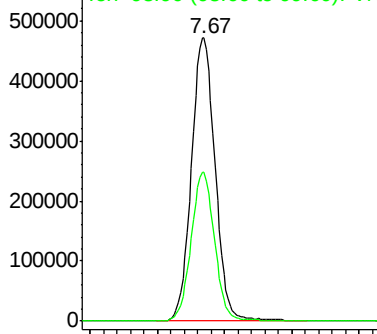
168 100

99 52.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: 0.28 ug/l

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049405.D

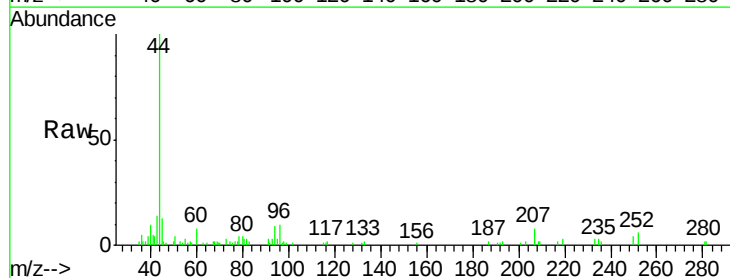
Acq: 19 Jun 2018 23:47

Tgt Ion: 94 Resp: 2707

Ion Ratio Lower Upper

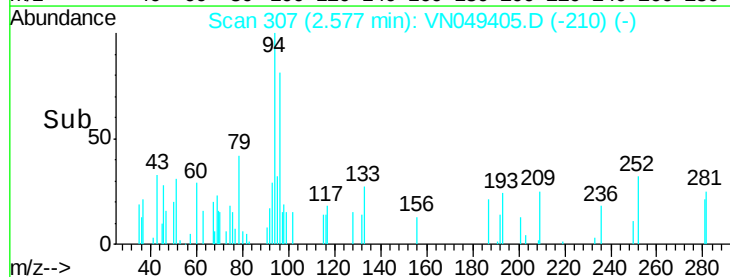
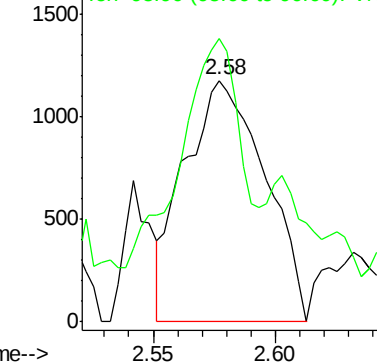
94 100

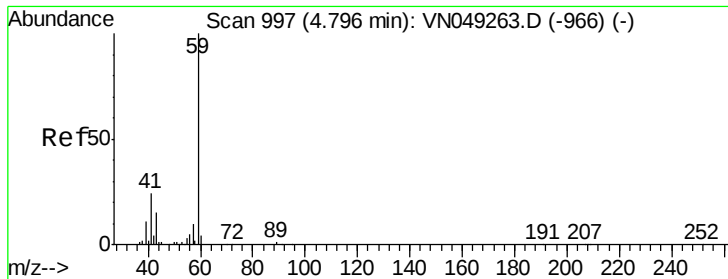
96 76.3 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

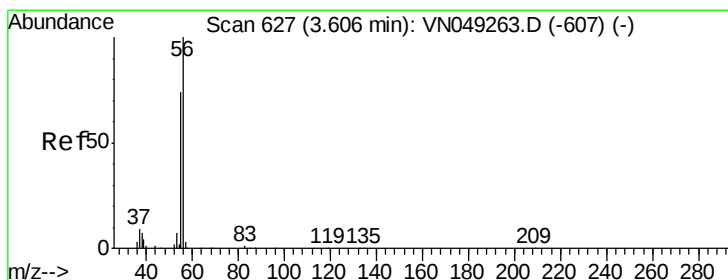
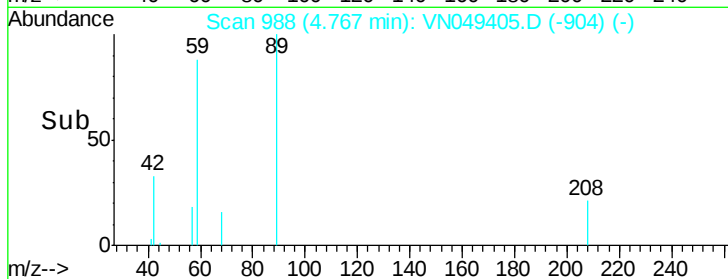
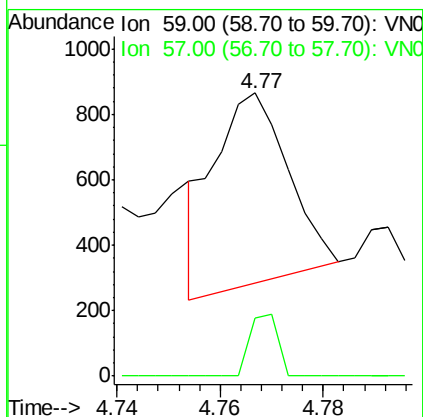
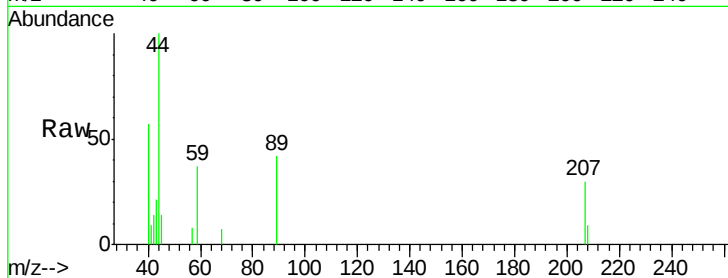




#11
Tert butyl alcohol
Concen: 0.65 ug/l
RT: 4.77 min Scan# 988
Delta R.T. -0.03 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

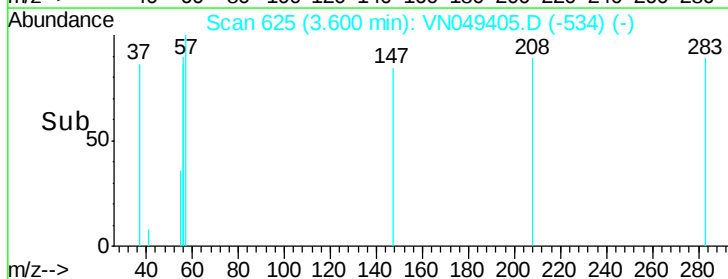
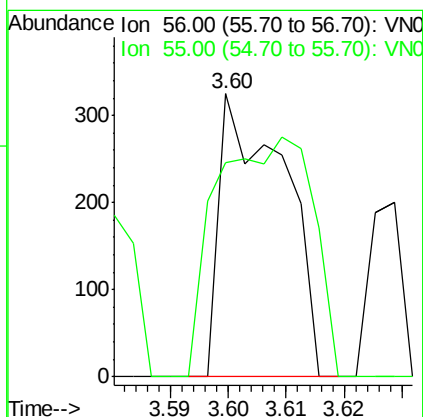
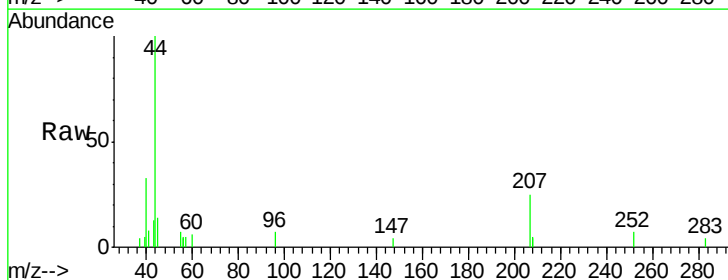
Instrument :
MSVOA_N
ClientSampled :

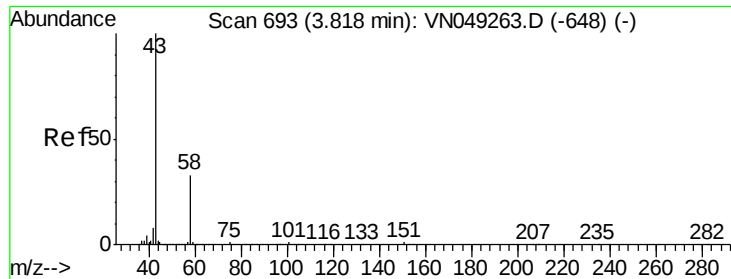
Tot Ion: 59 Resp: 588
Ion Ratio Lower Upper
59 100
57 12.1 9.0 13.6



#13
Acrolein
Concen: 0.26 ug/l
RT: 3.60 min Scan# 625
Delta R.T. -0.01 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

Tgt Ion: 56 Resp: 249
Ion Ratio Lower Upper
56 100
55 127.7 57.1 85.7#





#16

Acetone

Concen: 11.97 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

Instrument :

MSVOA_N

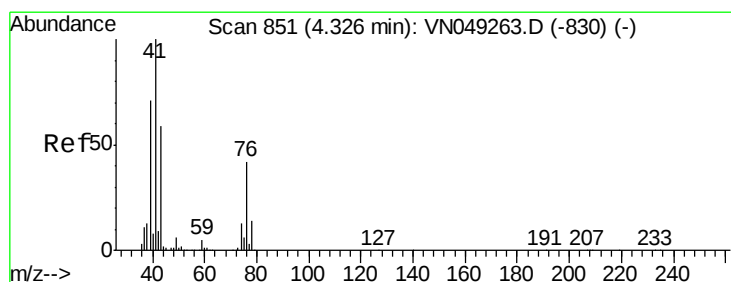
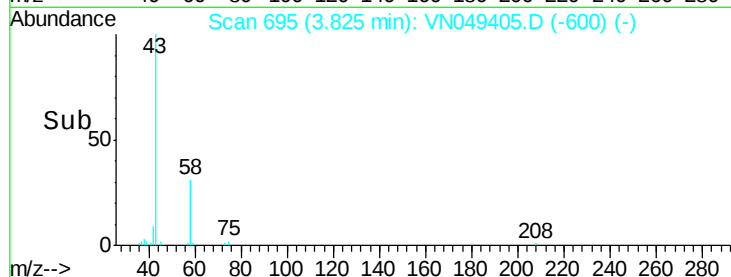
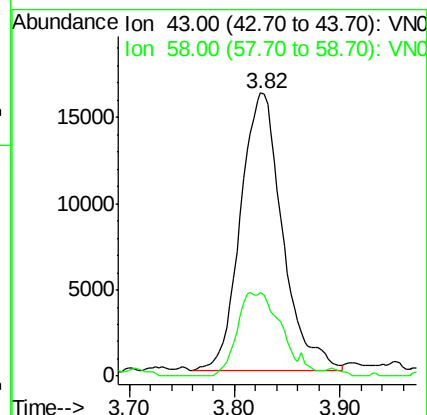
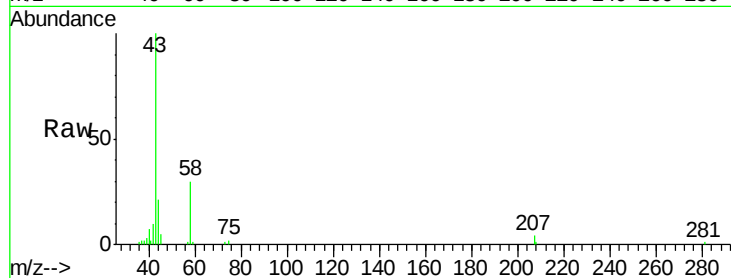
ClientSampled :

Tot Ion: 43 Resp: 44720

Ion Ratio Lower Upper

43 100

58 30.2 22.4 33.6



#18

Methyl Acetate

Concen: 10.48 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049405.D

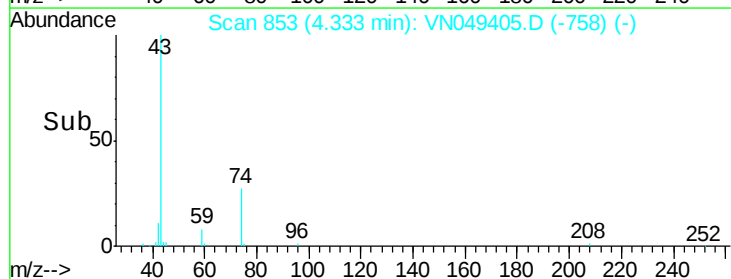
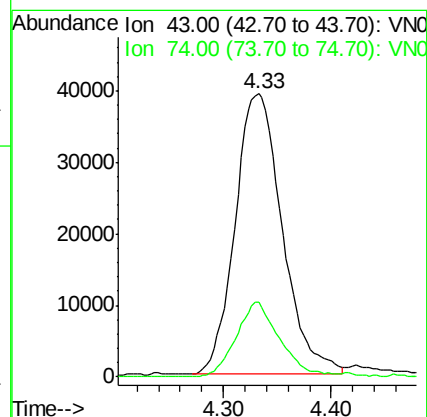
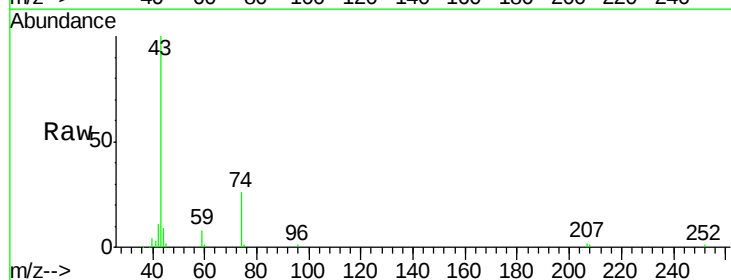
Acq: 19 Jun 2018 23:47

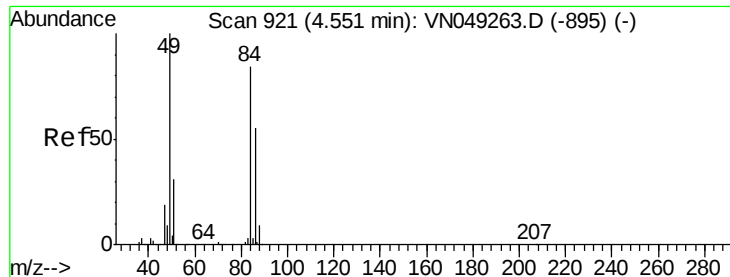
Tgt Ion: 43 Resp: 119356

Ion Ratio Lower Upper

43 100

74 24.7 17.4 26.0

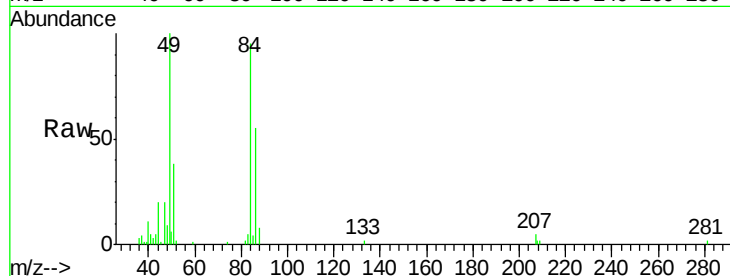




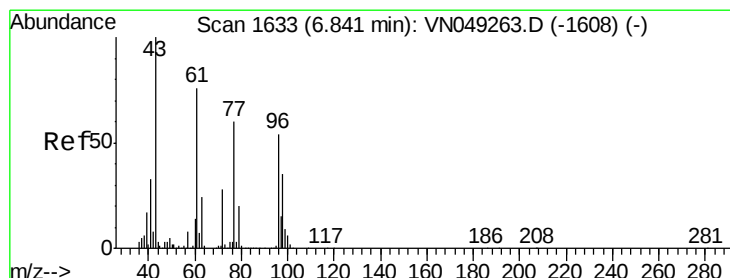
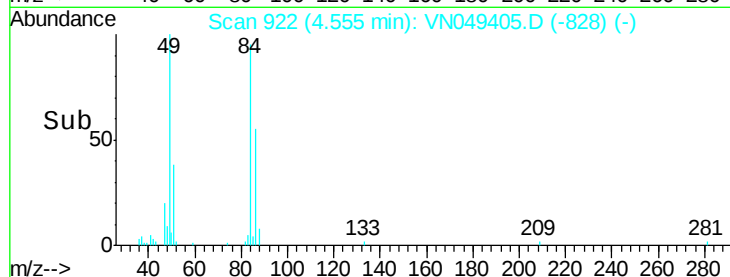
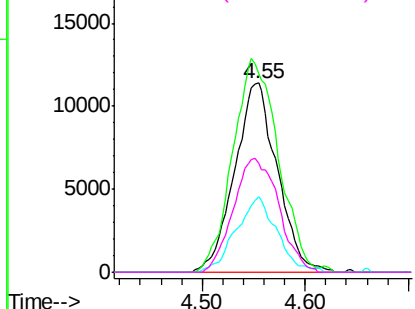
#20
Methvlene Chloride
Concen: 2.10 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 32767
Ion Ratio Lower Upper
84 100
49 104.7 106.9 160.3#
51 39.7 32.7 49.1
86 57.6 49.8 74.8

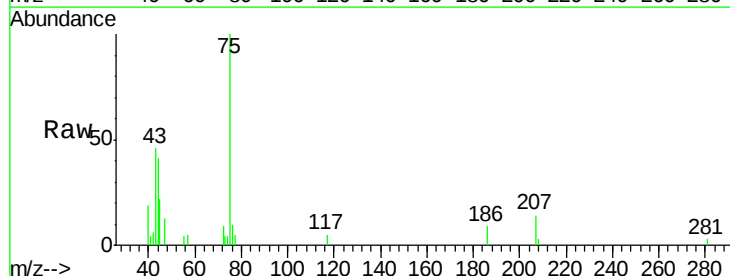


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

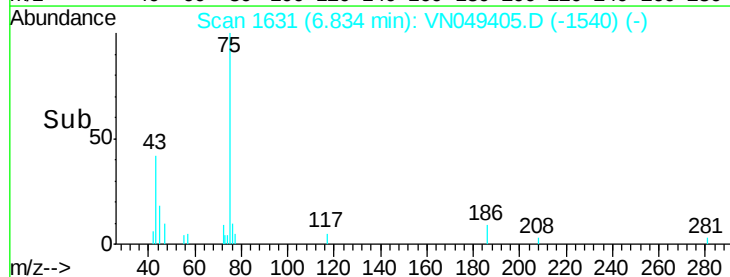
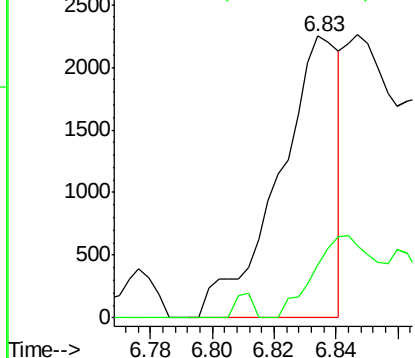


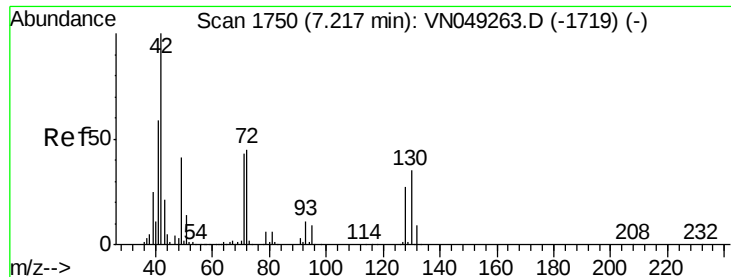
#25
2-Butanone
Concen: 0.61 ug/l
RT: 6.83 min Scan# 1631
Delta R.T. -0.01 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

Tgt Ion: 43 Resp: 3044
Ion Ratio Lower Upper
43 100
72 18.7 20.2 30.2#



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

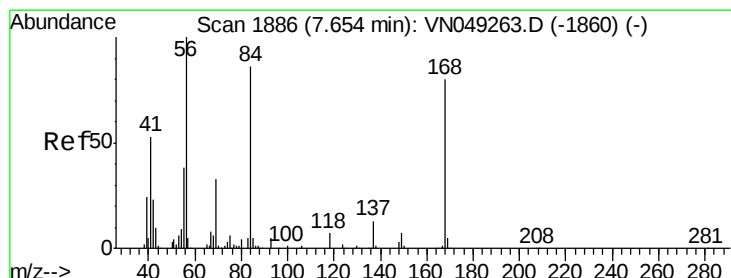
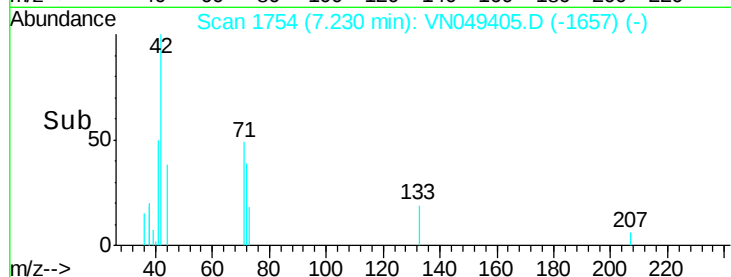
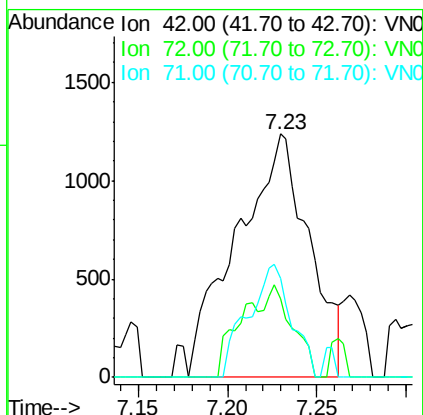
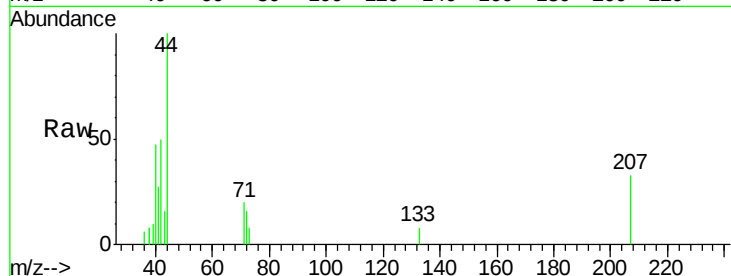




#29
Tetrahydrofuran
Concen: 1.08 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

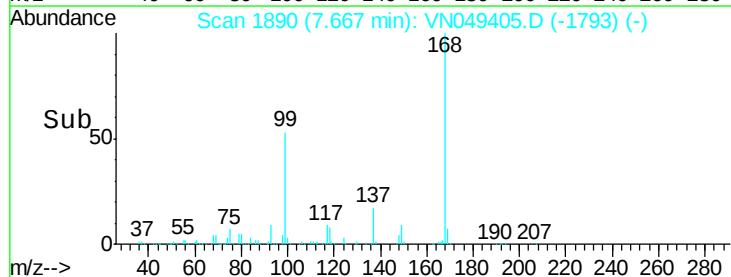
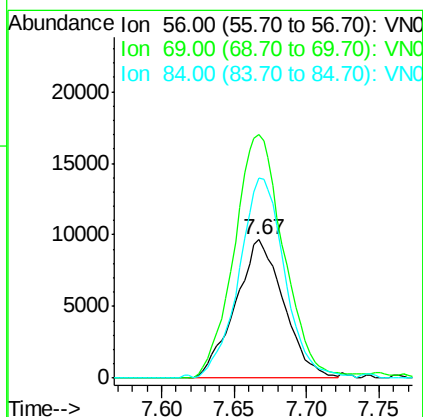
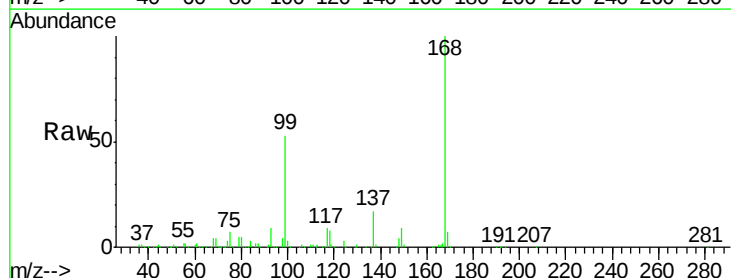
Instrument :
MSVOA_N
ClientSampleId :

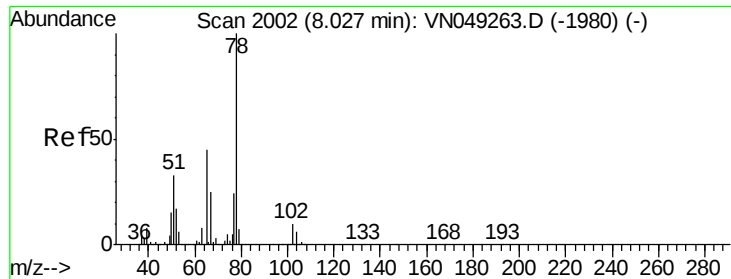
Tot Ion: 42 Resp: 3482
Ion Ratio Lower Upper
42 100
72 13.4 32.2 48.4#
71 28.2 30.5 45.7#



#31
Cyclohexane
Concen: 0.81 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

Tgt Ion: 56 Resp: 22406
Ion Ratio Lower Upper
56 100
69 176.2 25.0 37.4#
84 142.9 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 52.07 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

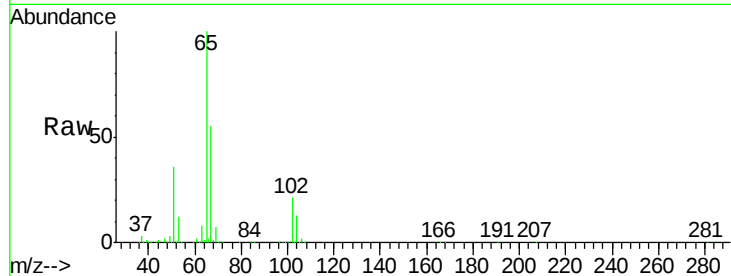
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 801266

Ion Ratio Lower Upper

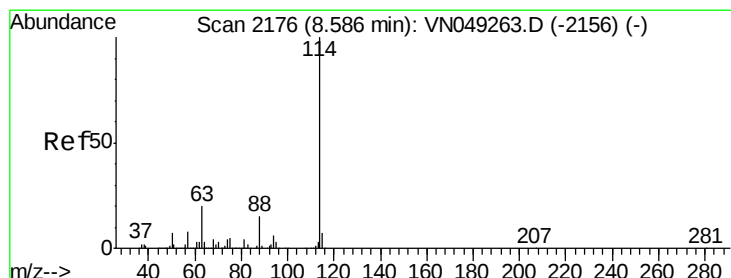
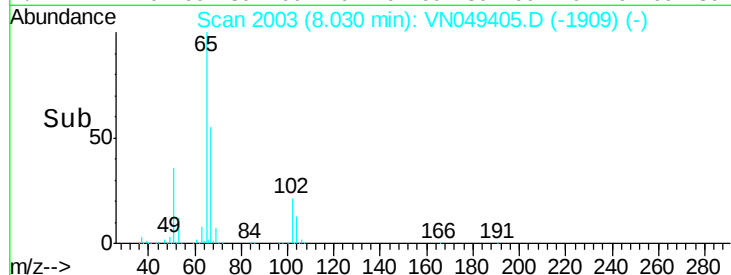
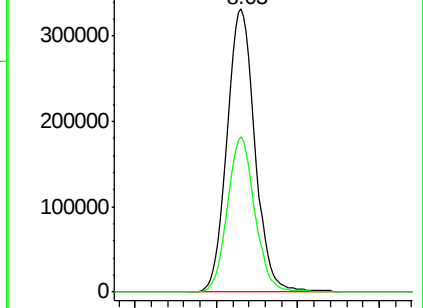
65 100

67 53.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049405.D (-1980) (-)

Ion 66.90 (66.60 to 67.60): VN049405.D (-1980) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

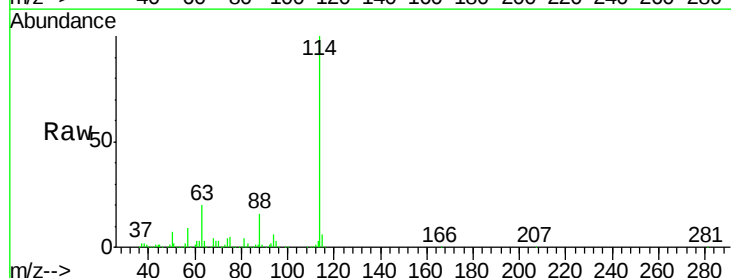
Tgt Ion: 114 Resp: 1903941

Ion Ratio Lower Upper

114 100

63 19.7 0.0 44.4

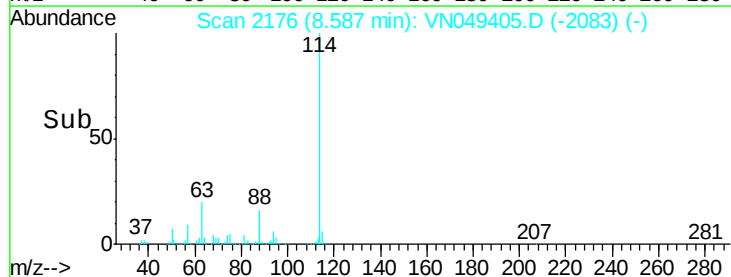
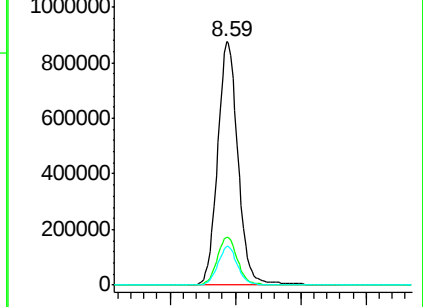
88 15.8 0.0 31.4

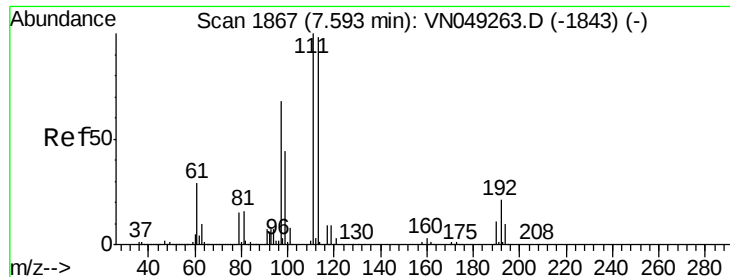


Abundance Ion 113.90 (113.60 to 114.60): VN049405.D (-2156) (-)

Ion 63.00 (62.70 to 63.70): VN049405.D (-2156) (-)

Ion 87.90 (87.60 to 88.60): VN049405.D (-2156) (-)

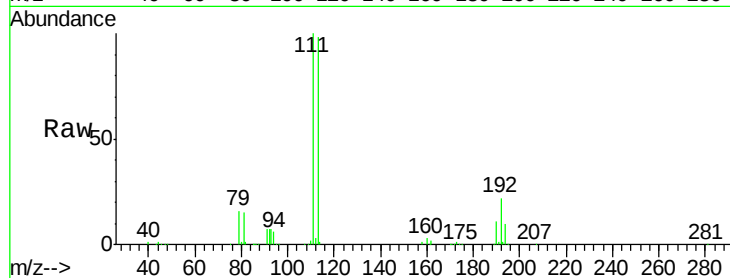




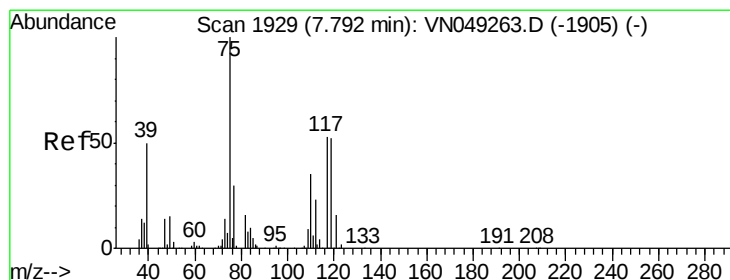
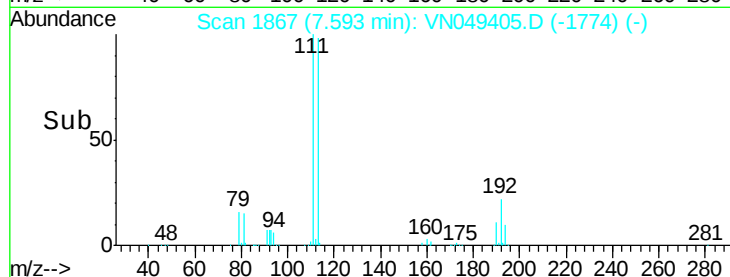
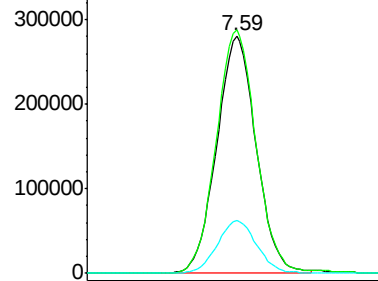
#35
 Dibromofluoromethane
 Concen: 45.22 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049405.D
 Acq: 19 Jun 2018 23:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.4	123.6
192	22.5	15.0	22.6

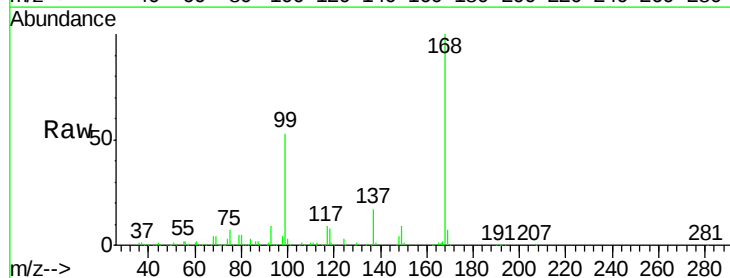


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

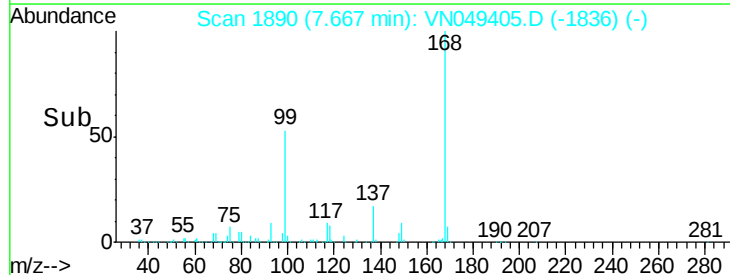
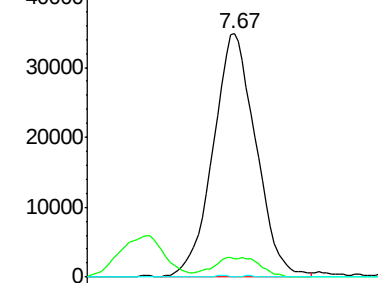


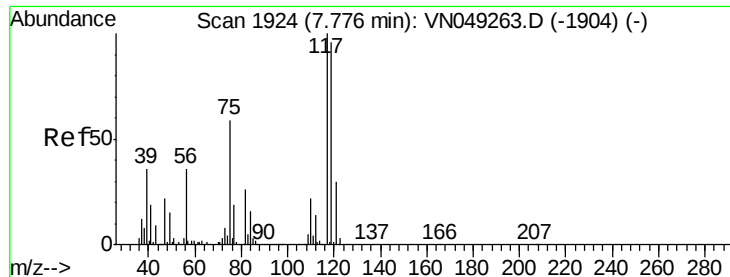
#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049405.D
 Acq: 19 Jun 2018 23:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.0	50.9#
77	0.1	24.4	36.6#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 4.68 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

Instrument :

MSVOA_N

ClientSampleId :

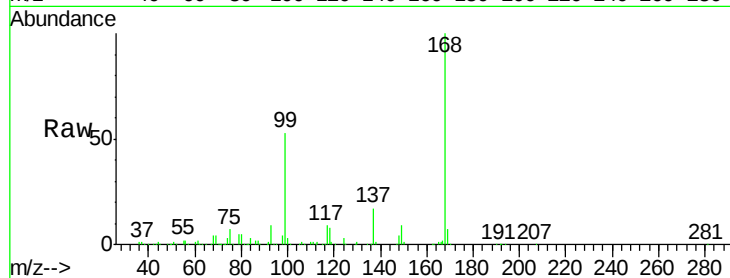
Tot Ion:117 Resp: 105773

Ion Ratio Lower Upper

117 100

119 5.1 75.6 113.4#

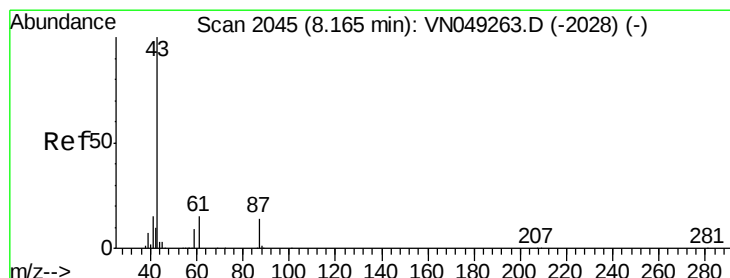
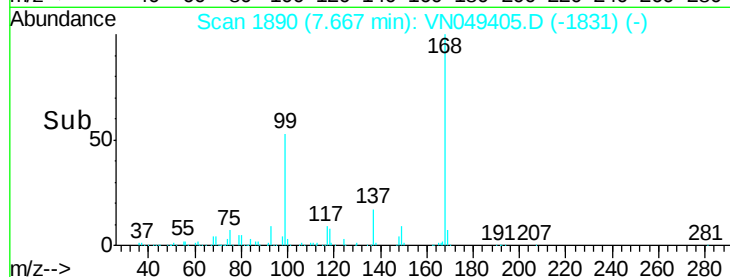
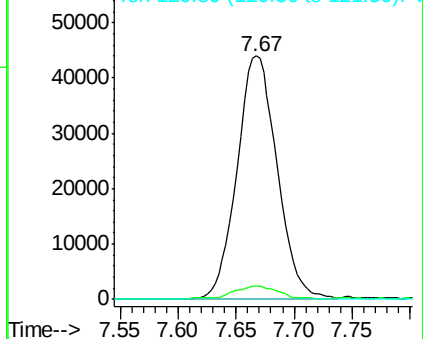
121 0.0 24.7 37.1#



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: 19.44 ug/l

RT: 8.23 min Scan# 2064

Delta R.T. 0.06 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

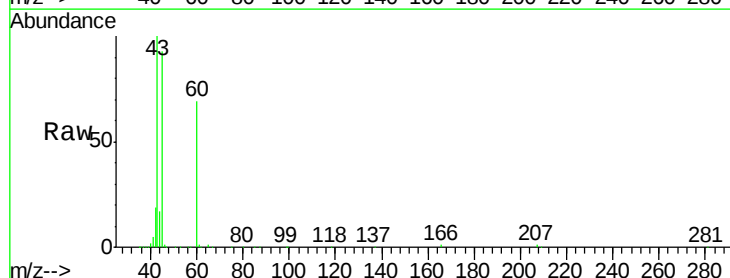
Tgt Ion: 43 Resp: 440527

Ion Ratio Lower Upper

43 100

61 0.4 14.2 21.4#

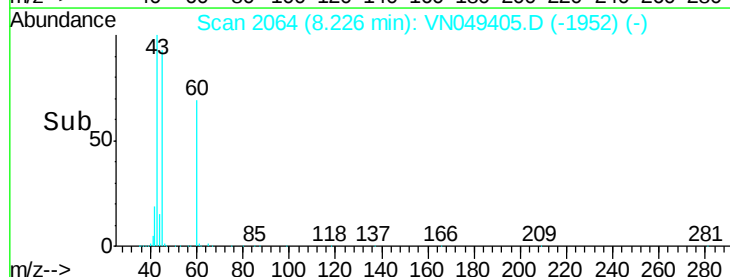
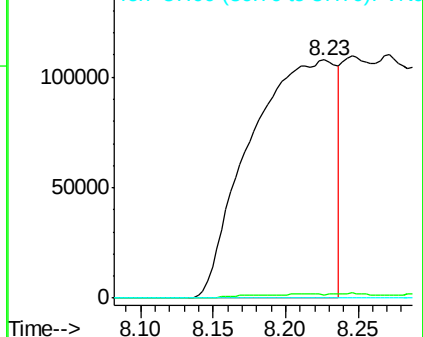
87 0.0 9.4 14.0#

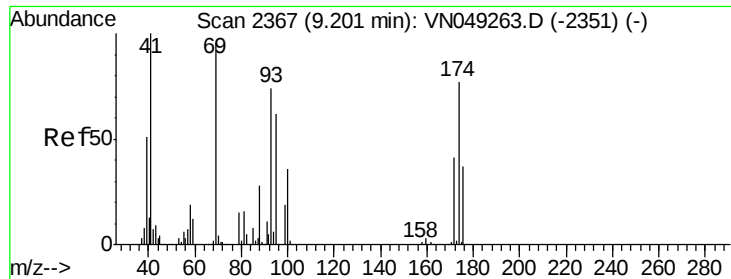


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

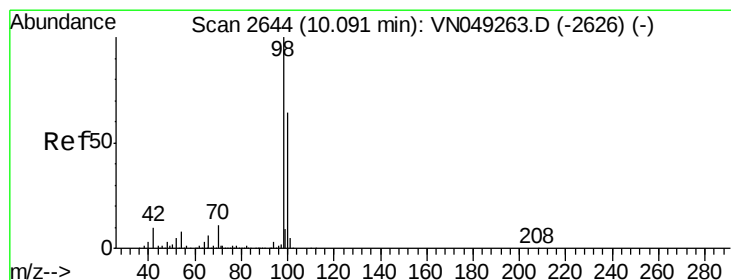
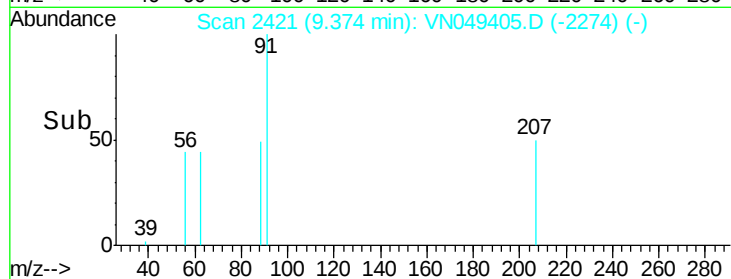
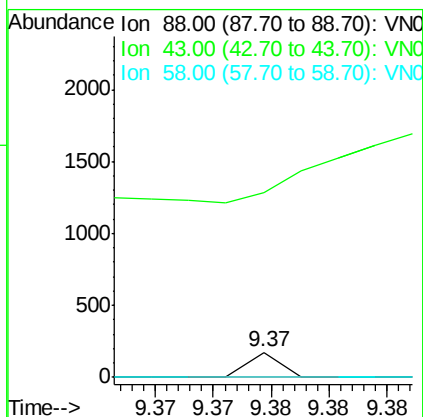
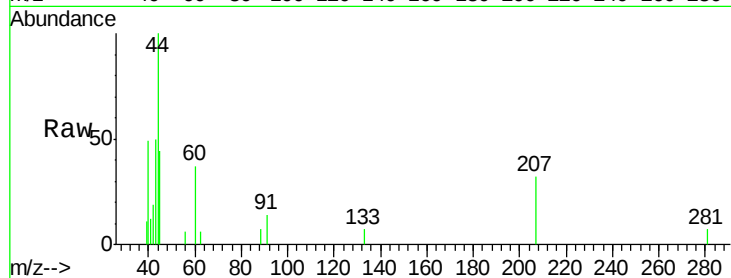




#49
1,4-Dioxane
Concen: 0.22 ug/l
RT: 9.37 min Scan# 2421
Delta R.T. 0.17 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

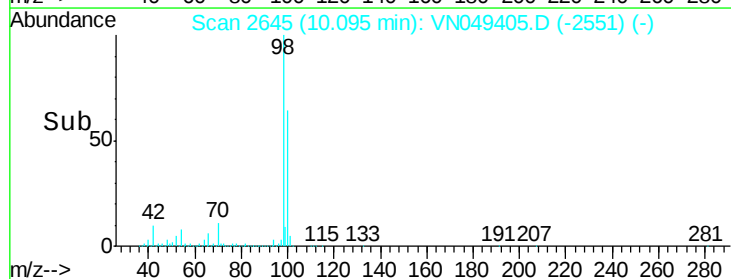
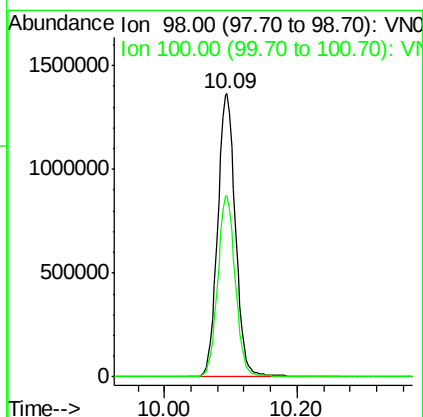
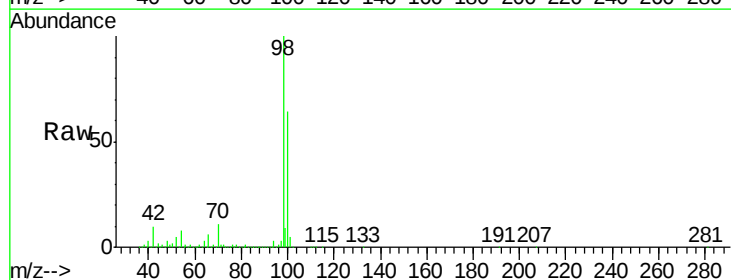
Instrument :
MSVOA_N
ClientSampleId :

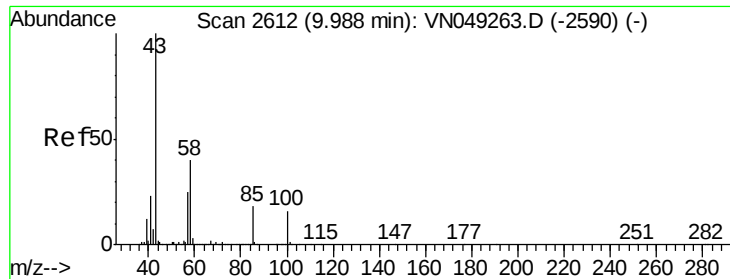
Tot Ion: 88 Resp: 33
Ion Ratio Lower Upper
88 100
43 0.0 30.9 46.3#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 43.29 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

Tgt Ion: 98 Resp: 2539112
Ion Ratio Lower Upper
98 100
100 63.2 49.8 74.8

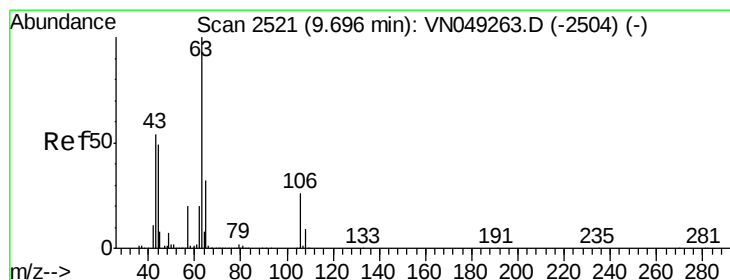
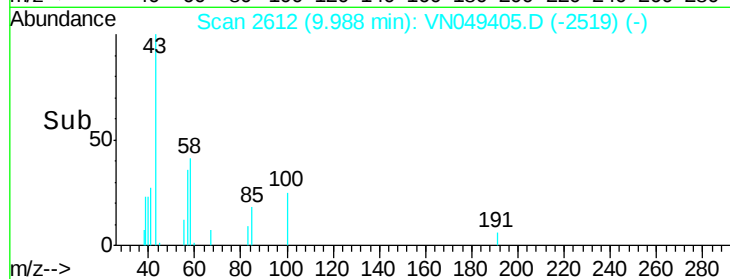
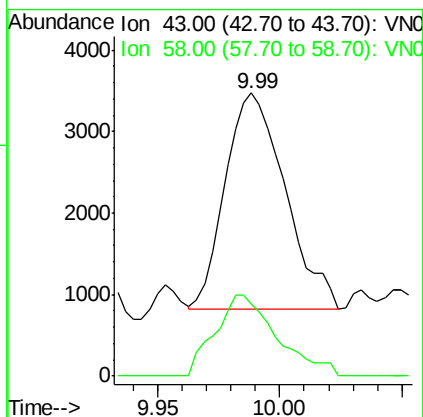
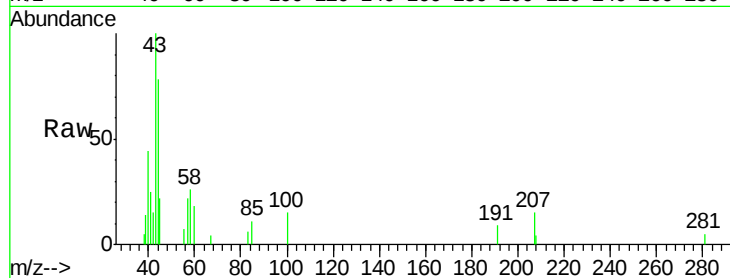




#51
 4-Methyl-2-Pentanone
 Concen: 0.38 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN049405.D
 Acq: 19 Jun 2018 23:47

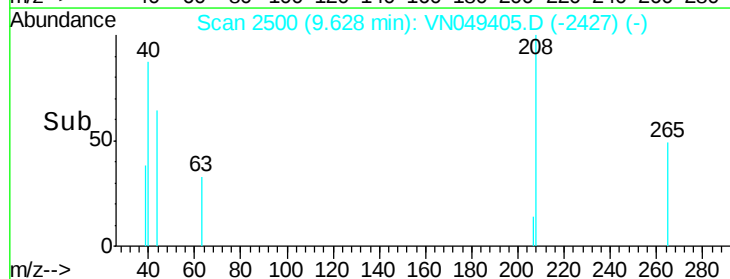
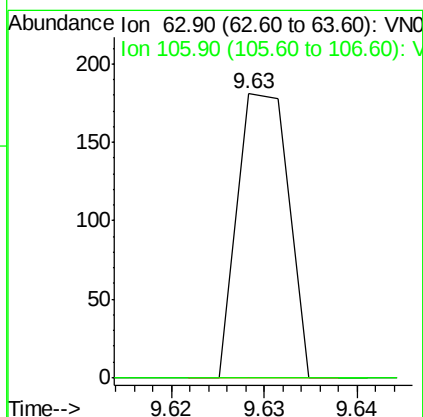
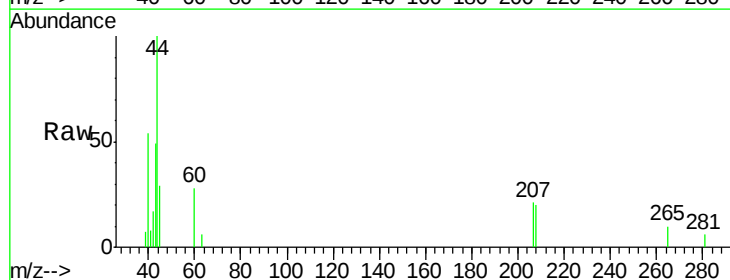
Instrument :
 MSVOA_N
 ClientSampled :

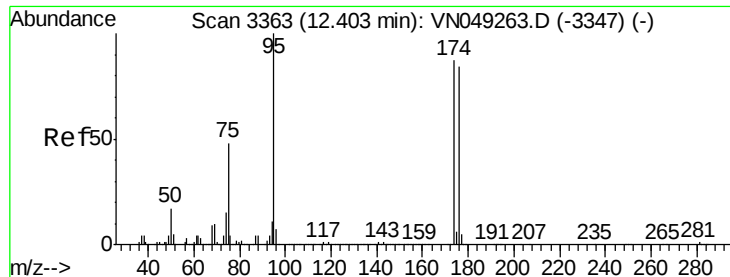
Tot Ion: 43 Resp: 4536
 Ion Ratio Lower Upper
 43 100
 58 38.7 29.0 43.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.34 ug/l
 RT: 9.63 min Scan# 2500
 Delta R.T. -0.07 min
 Lab File: VN049405.D
 Acq: 19 Jun 2018 23:47

Tgt Ion: 63 Resp: 69
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#

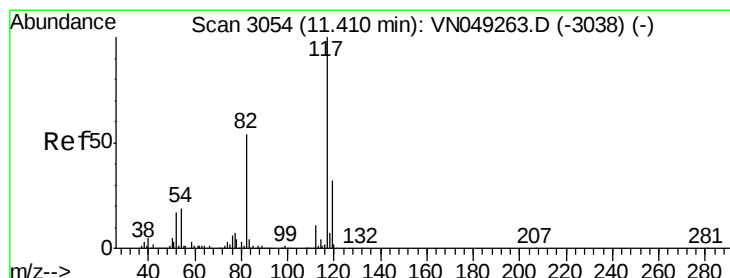
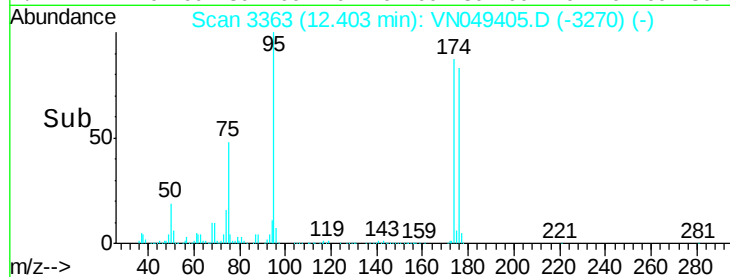
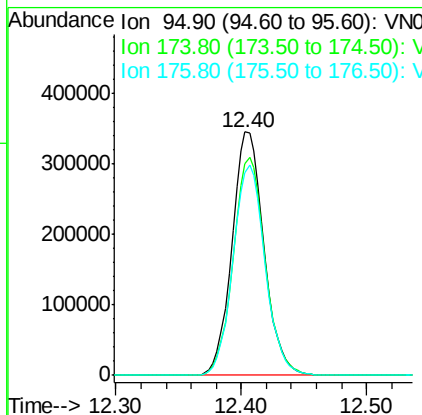
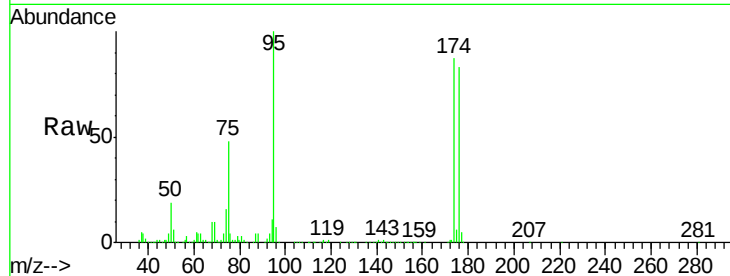




#62
4-Bromofluorobenzene
Concen: 31.44 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

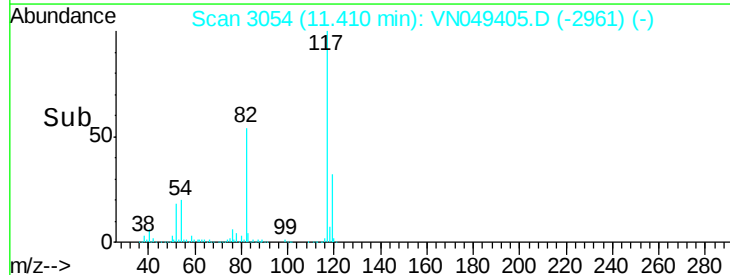
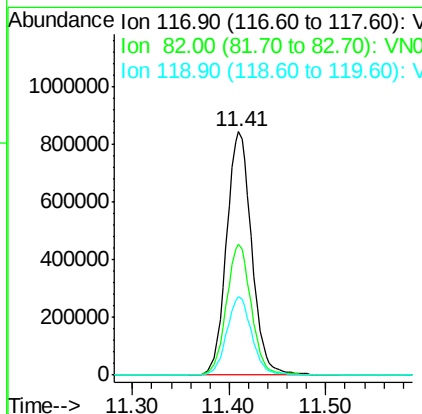
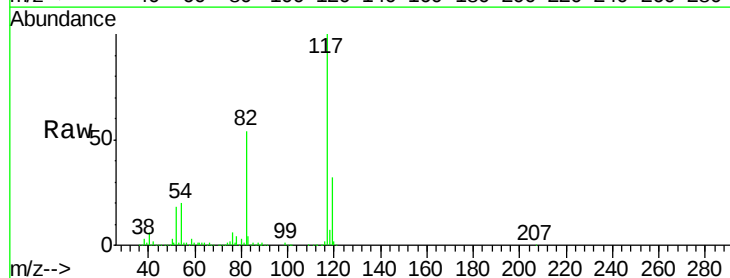
Instrument :
MSVOA_N
ClientSampled :

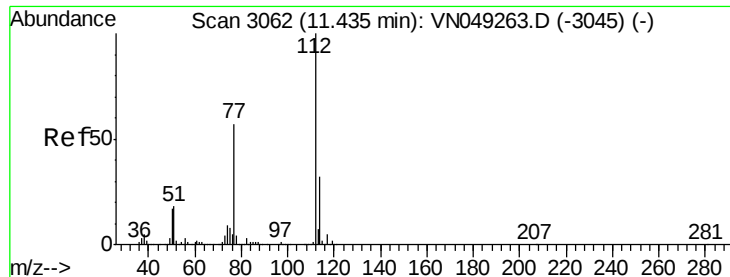
Tot Ion: 95 Resp: 609757
Ion Ratio Lower Upper
95 100
174 89.5 0.0 165.6
176 87.0 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049405.D
Acq: 19 Jun 2018 23:47

Tgt Ion: 117 Resp: 1518599
Ion Ratio Lower Upper
117 100
82 53.9 45.9 68.9
119 32.2 25.5 38.3





#65

Chlorobenzene

Concen: 0.56 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

Instrument :

MSVOA_N

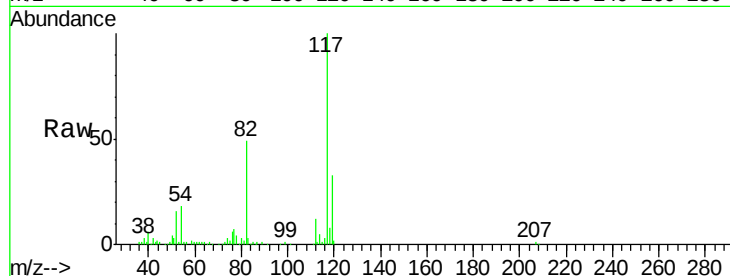
ClientSampleId :

Tot Ion:112 Resp: 21872

Ion Ratio Lower Upper

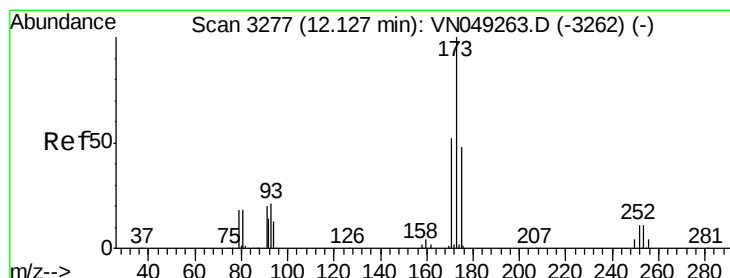
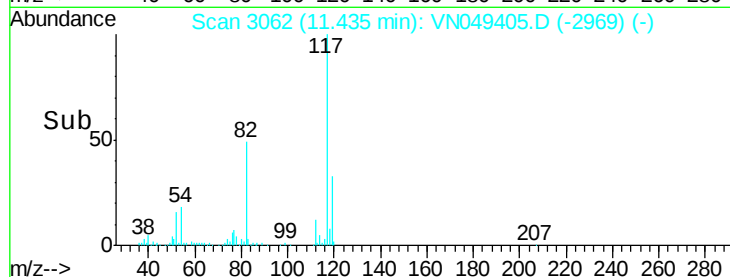
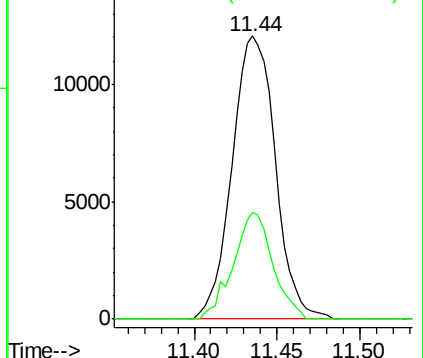
112 100

114 37.8 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 0.52 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

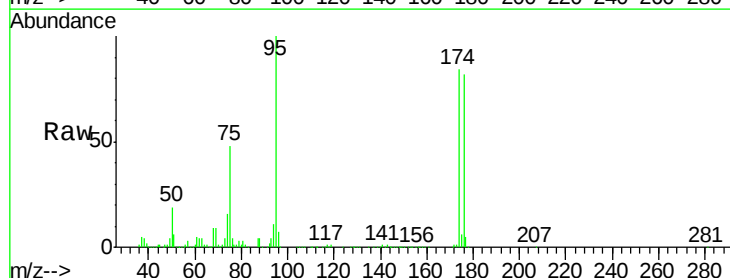
Tgt Ion:173 Resp: 4911

Ion Ratio Lower Upper

173 100

175 607.5 24.5 73.5#

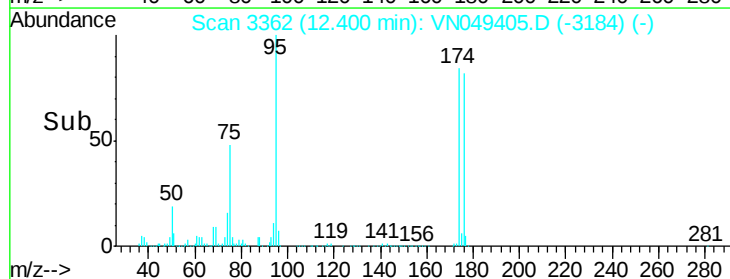
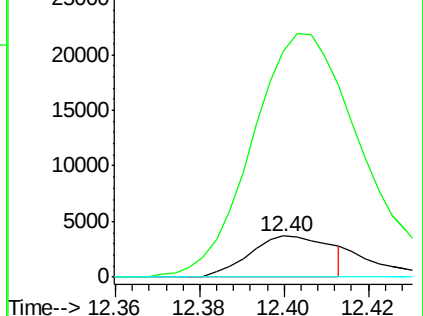
254 0.0 0.1 0.1#

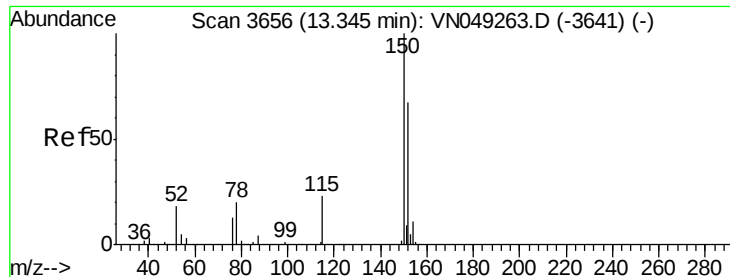


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN049405.D

Acq: 19 Jun 2018 23:47

Instrument :

MSVOA_N

ClientSampleId :

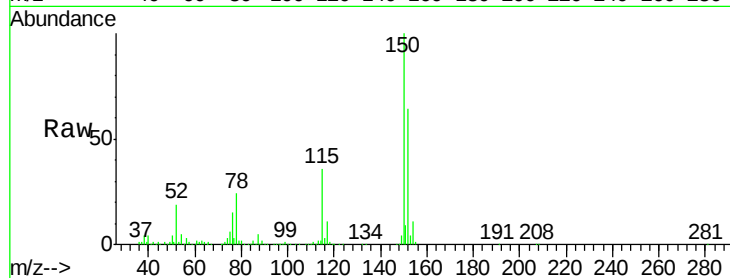
Tot Ion:152 Resp: 403387

Ion Ratio Lower Upper

152 100

115 57.4 28.7 86.1

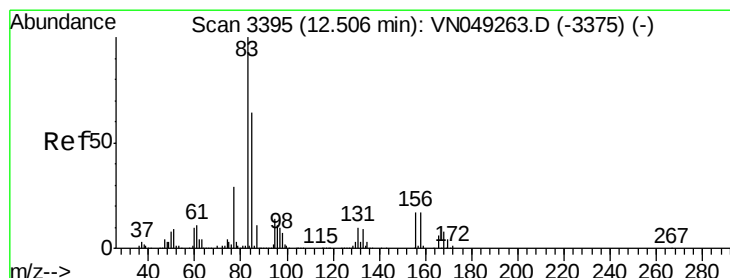
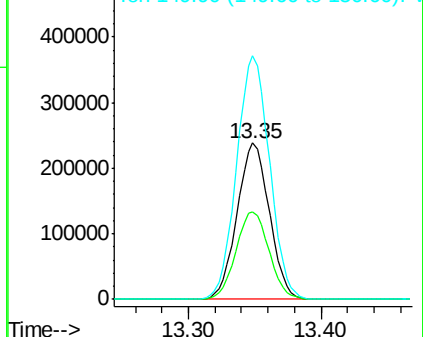
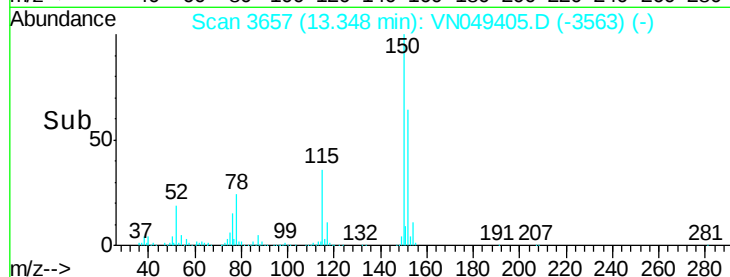
150 158.5 0.0 351.0



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: 12.46 min Scan# 3381

Delta R.T. -0.04 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

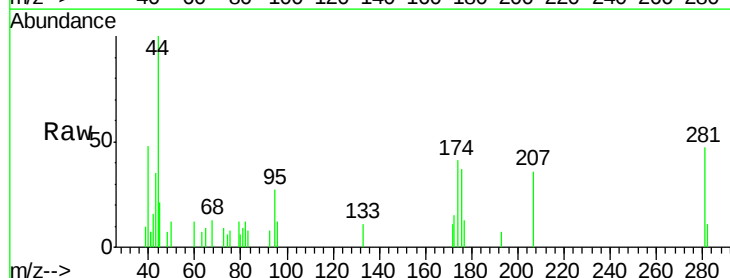
Tgt Ion: 83 Resp: 136

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

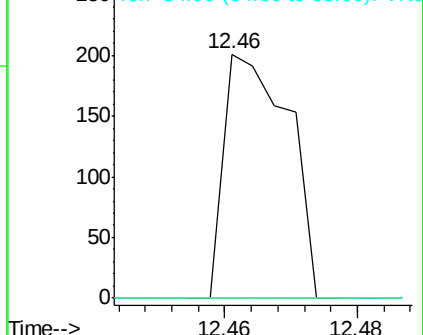
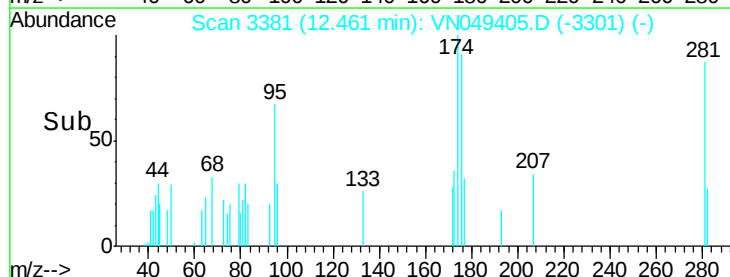
85 0.0 32.0 96.0#

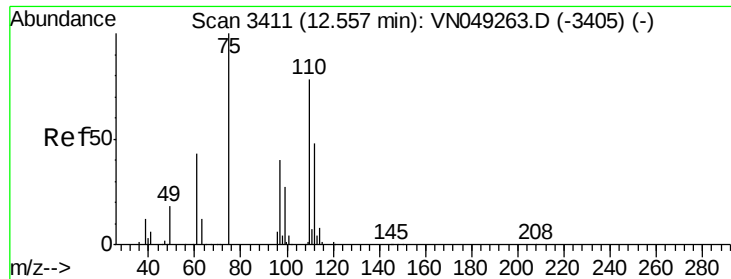


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 43.46 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

Instrument :

MSVOA_N

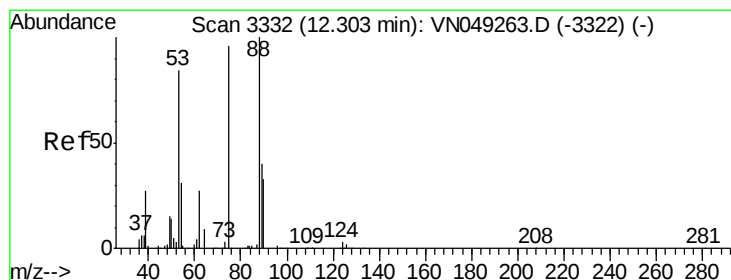
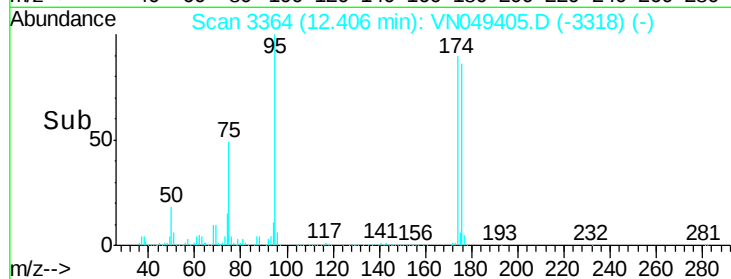
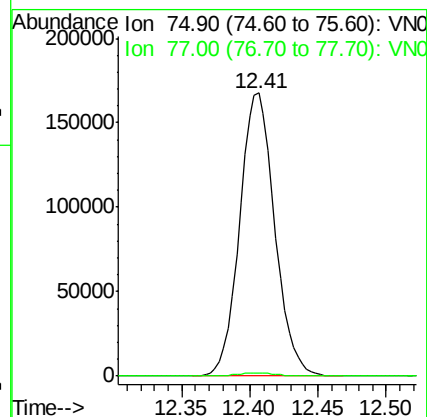
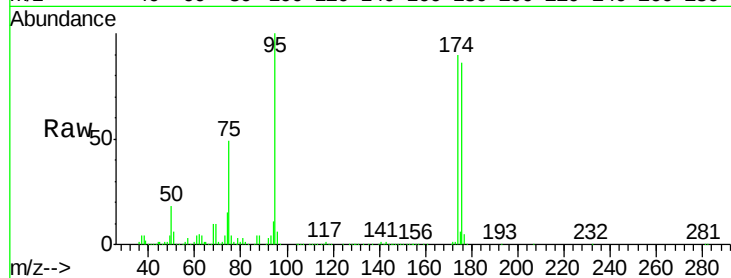
ClientSampleId :

Tot Ion: 75 Resp: 299101

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 137.35 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

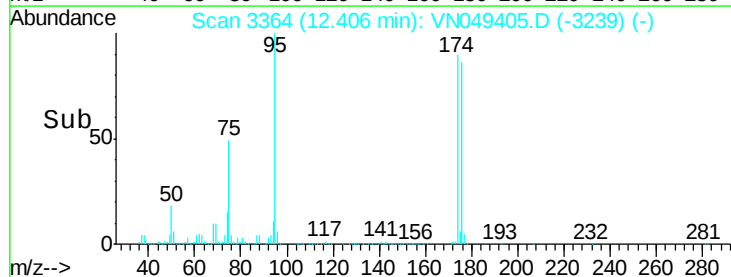
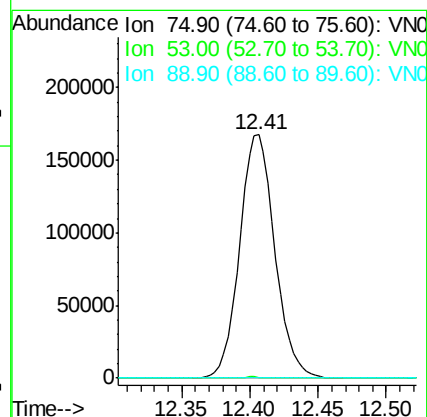
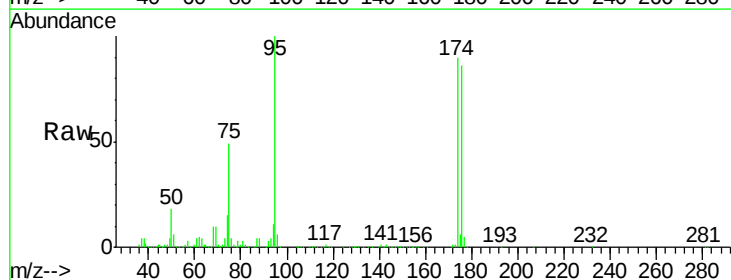
Tgt Ion: 75 Resp: 299101

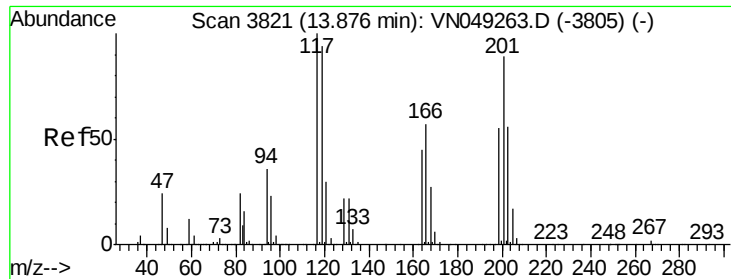
Ion Ratio Lower Upper

75 100

53 0.4 82.7 124.1#

89 0.1 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.16 min Scan# 3909

Delta R.T. 0.28 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

Instrument :

MSVOA_N

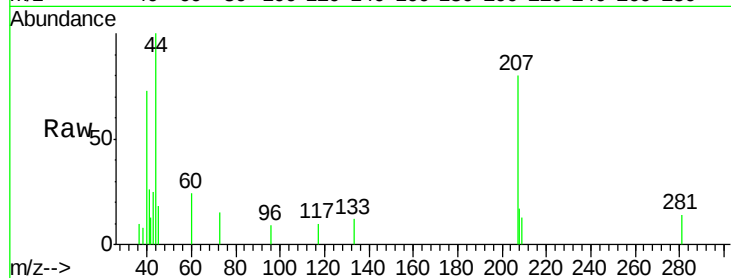
ClientSampled :

Tot Ion:117 Resp: 73

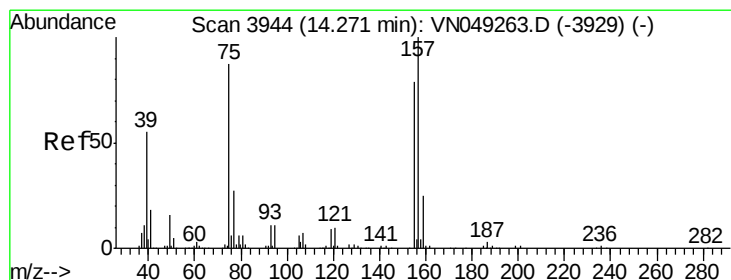
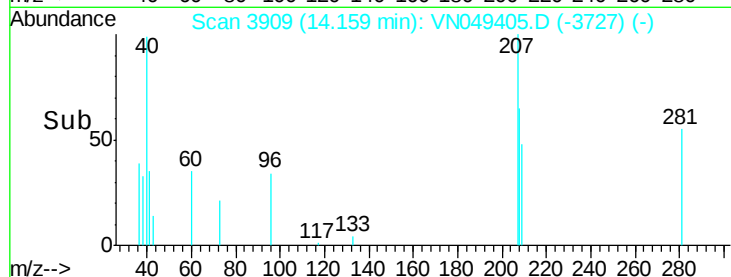
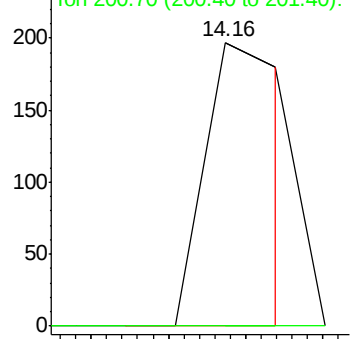
Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.45 ug/l

RT: 14.26 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VN049405.D

Acq: 19 Jun 2018 23:47

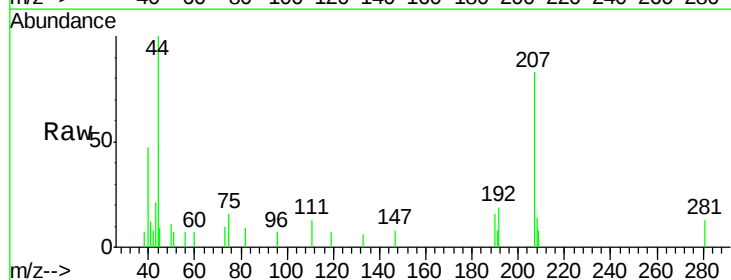
Tgt Ion: 75 Resp: 551

Ion Ratio Lower Upper

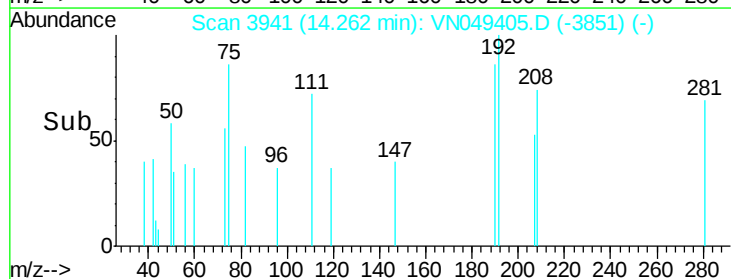
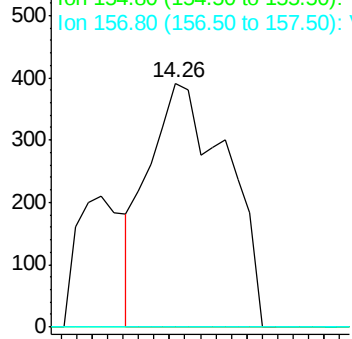
75 100

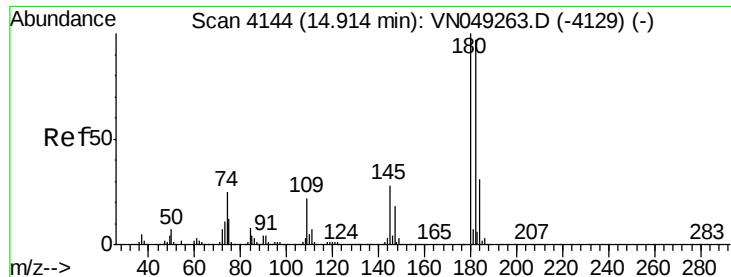
155 0.0 38.8 116.3#

157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): V

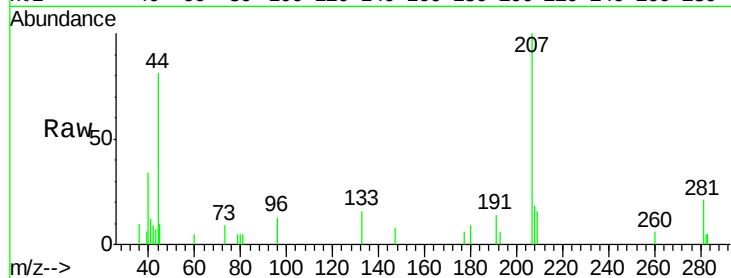




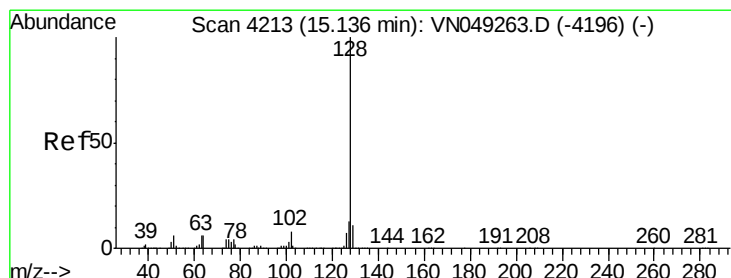
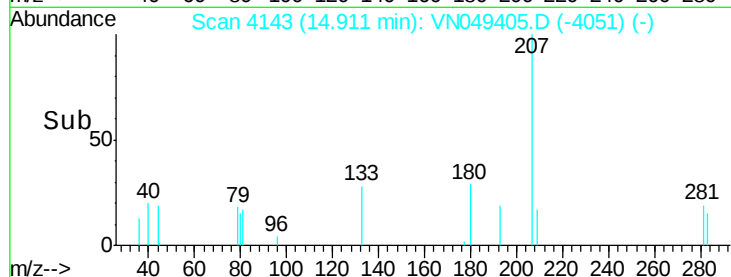
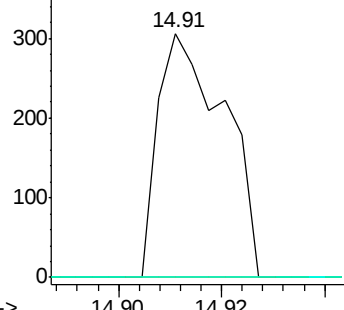
#93
 1,2,4-Trichlorobenzene
 Concen: 4.78 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049405.D
 Acq: 19 Jun 2018 23:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 272
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.9 140.8#
 145 0.0 14.7 44.1#

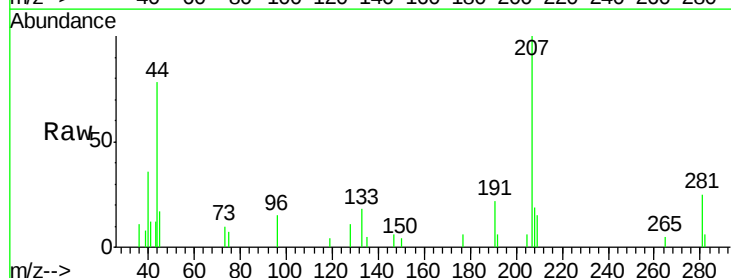


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 2.11 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049405.D
 Acq: 19 Jun 2018 23:47

Tgt Ion:128 Resp: 360
 Ion Ratio Lower Upper
 128 100
 127 8.6 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

