

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049397.D
 Acq On : 19 Jun 2018 20:21
 Operator : MD\SY
 Sample : PB110363ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:33:41 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	1174117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1904777	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1566136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	438898	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	813327	52.23	ug/l	0.00
Spiked Amount						
			Recovery	=	104.46%	
35) Dibromofluoromethane	7.59	113	707161	45.89	ug/l	0.00
Spiked Amount						
			Recovery	=	91.78%	
50) Toluene-d8	10.09	98	2591672	44.17	ug/l	0.00
Spiked Amount						
			Recovery	=	88.34%	
62) 4-Bromofluorobenzene	12.41	95	650030	33.50	ug/l	0.00
Spiked Amount						
			Recovery	=	67.00%	

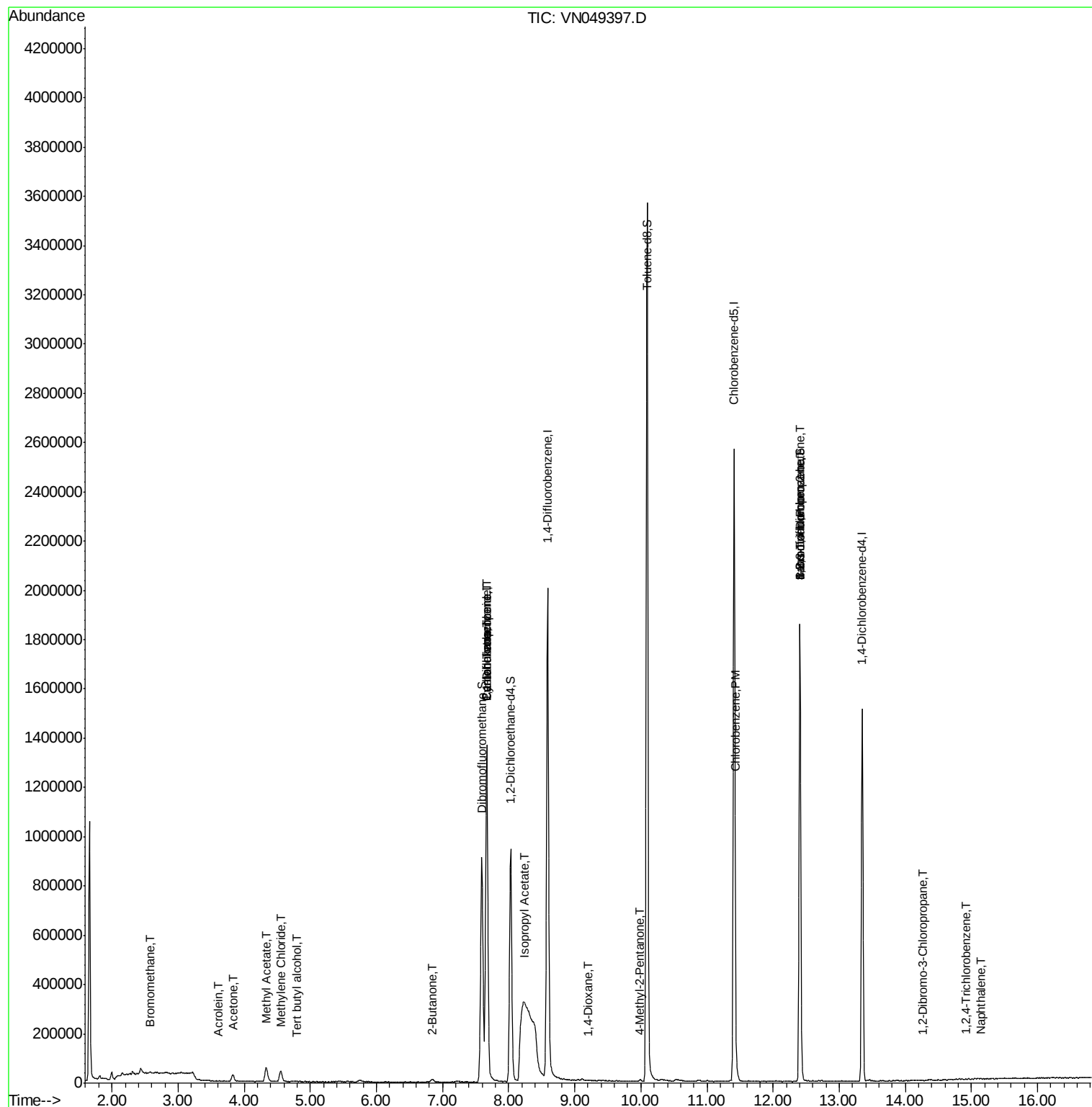
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	2930	0.30	ug/l #	58
11) Tert butyl alcohol	4.79	59	476	0.52	ug/l #	70
13) Acrolein	3.61	56	353	0.37	ug/l #	10
16) Acetone	3.82	43	44879	11.87	ug/l	90
18) Methyl Acetate	4.33	43	111222	9.65	ug/l	92
20) Methylene Chloride	4.55	84	32142	2.04	ug/l	86
25) 2-Butanone	6.85	43	8721	1.72	ug/l	99
31) Cyclohexane	7.67	56	20656	0.72	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	81800	3.75	ug/l #	48
38) Carbon Tetrachloride	7.67	117	108568	4.80	ug/l #	18
43) Isopropyl Acetate	8.22	43	377595	16.65	ug/l #	64
49) 1,4-Dioxane	9.20	88	105	0.71	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	4819	0.41	ug/l #	78
65) Chlorobenzene	11.44	112	23378	0.58	ug/l	99
71) Bromoform	12.40	173	4877	0.50	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	30	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.41	75	319898	42.72	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	319898	135.01	ug/l #	9
90) Hexachloroethane	13.67	117	30	Below	Cal #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	687	0.51	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	247	4.77	ug/l #	84
95) Naphthalene	15.14	128	1354	2.19	ug/l #	75

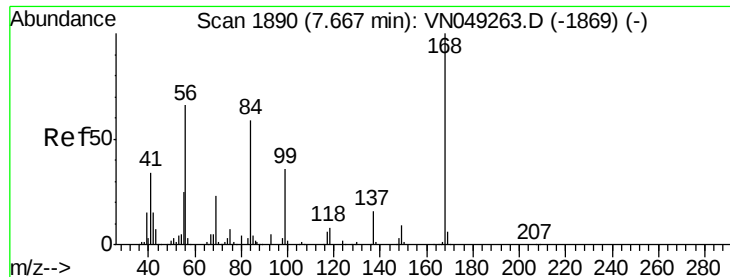
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN049397.D
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
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: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

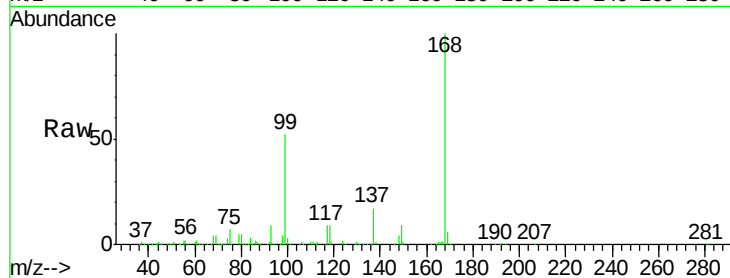
ClientSampleId :

Tot Ion:168 Resp: 1174117

Ion Ratio Lower Upper

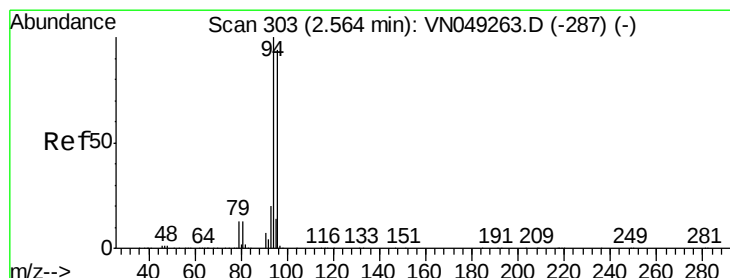
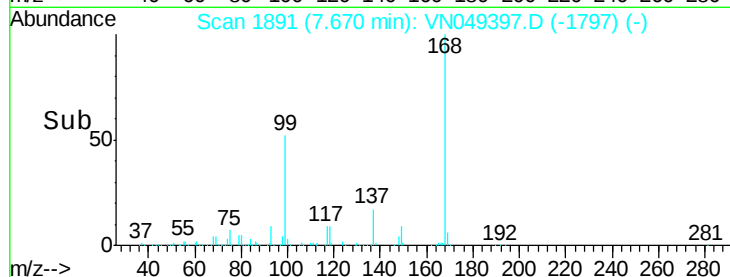
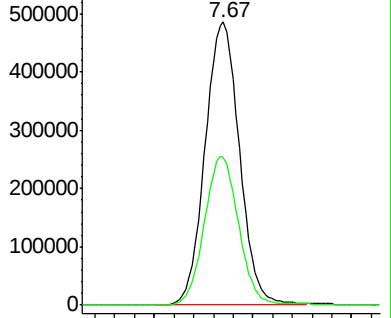
168 100

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: 0.30 ug/l

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049397.D

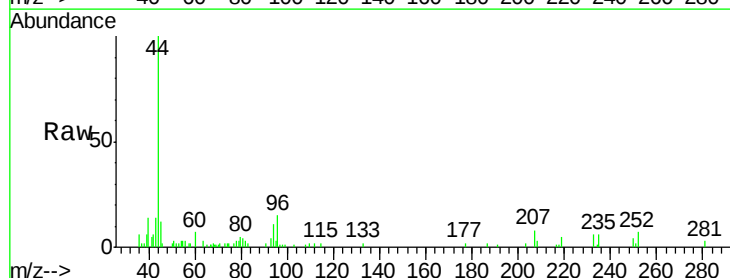
Acq: 19 Jun 2018 20:21

Tgt Ion: 94 Resp: 2930

Ion Ratio Lower Upper

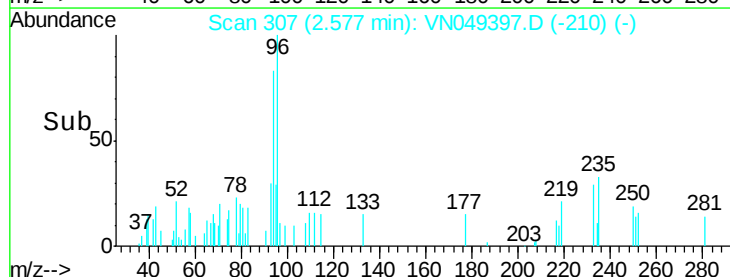
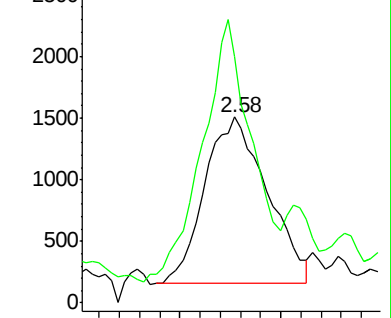
94 100

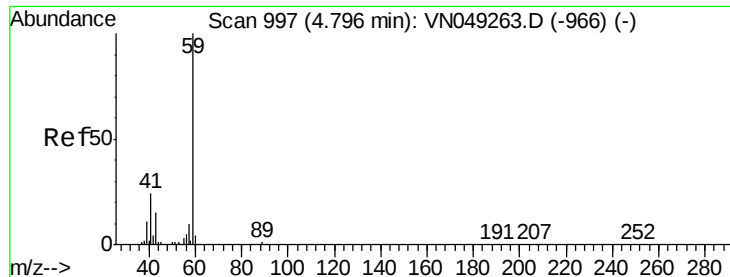
96 130.8 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



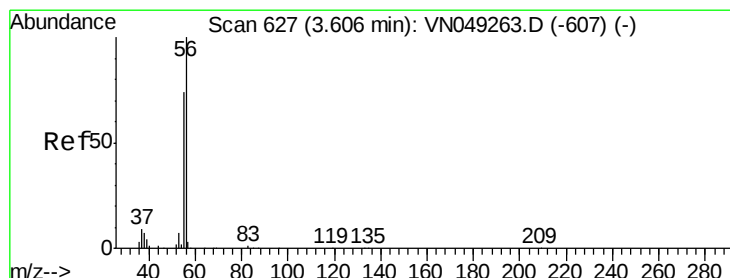
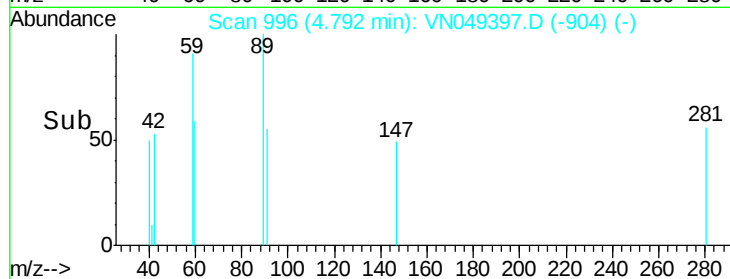
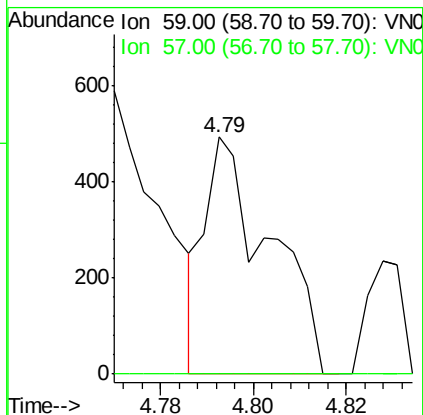
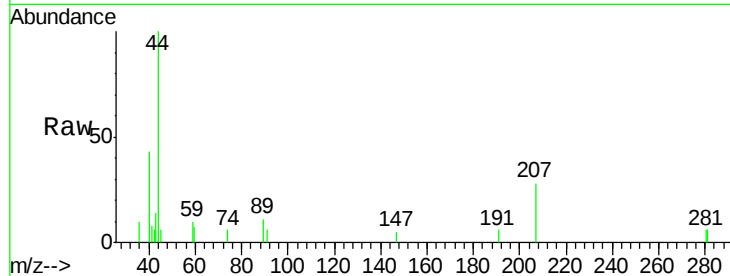


#11

Tert butyl alcohol
 Concen: 0.52 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VN049397.D
 Acq: 19 Jun 2018 20:21

Instrument :
 MSVOA_N
 ClientSampled :

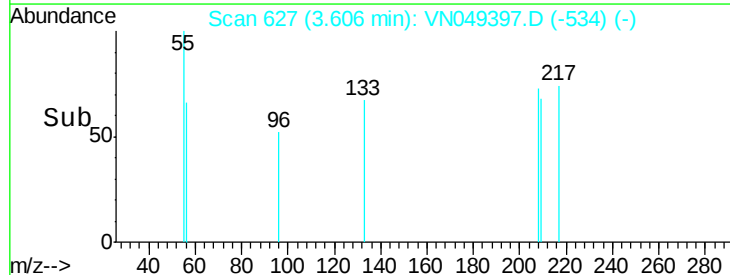
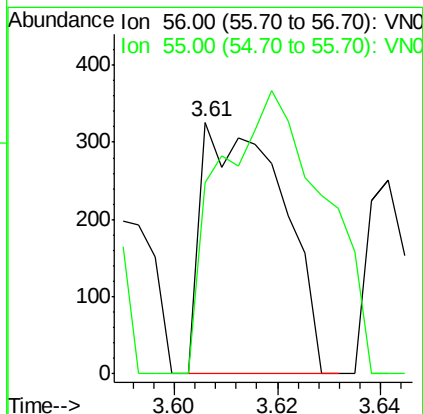
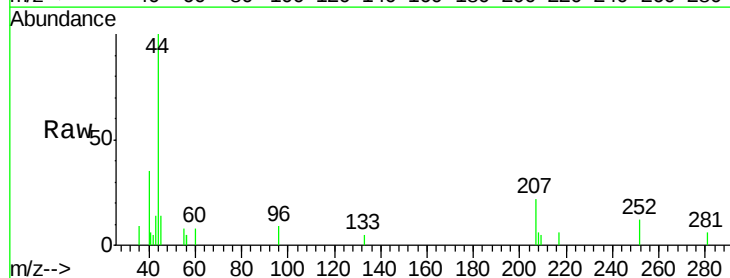
Tot Ion: 59 Resp: 476
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

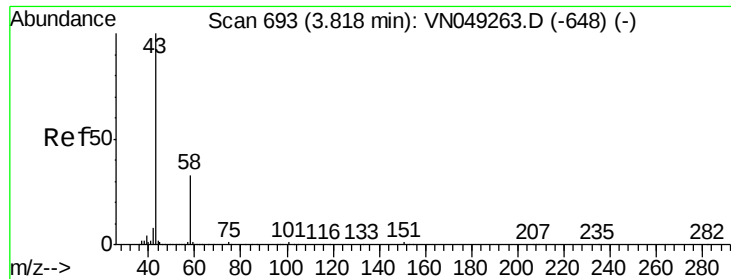


#13

Acrolein
 Concen: 0.37 ug/l
 RT: 3.61 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: VN049397.D
 Acq: 19 Jun 2018 20:21

Tgt Ion: 56 Resp: 353
 Ion Ratio Lower Upper
 56 100
 55 145.9 57.1 85.7#

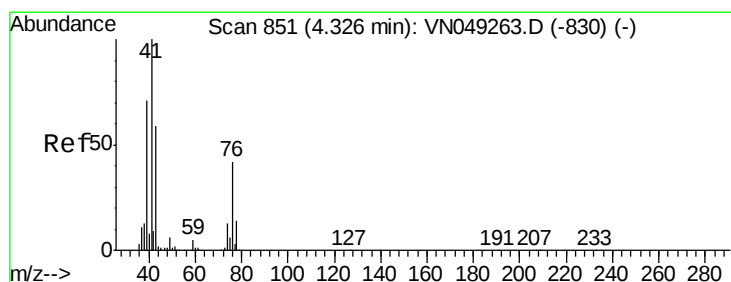
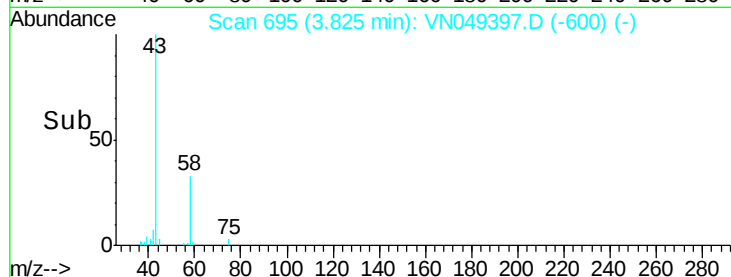
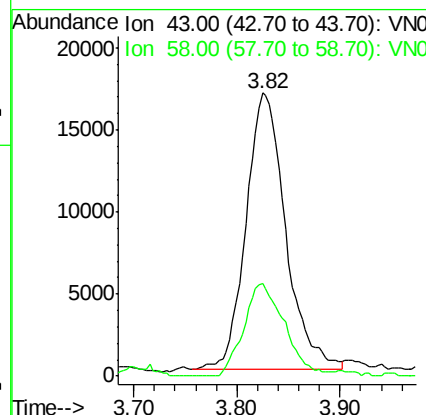
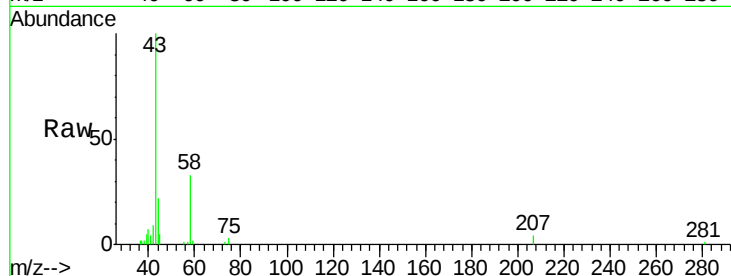




#16
Acetone
Concen: 11.87 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.01 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

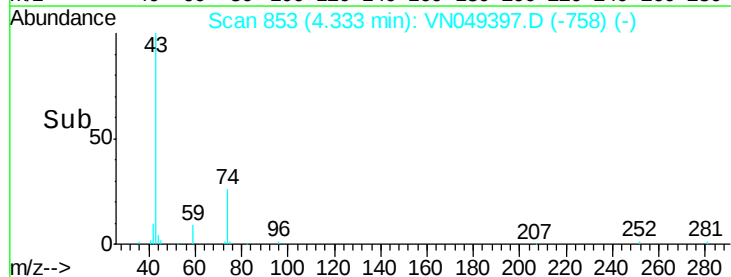
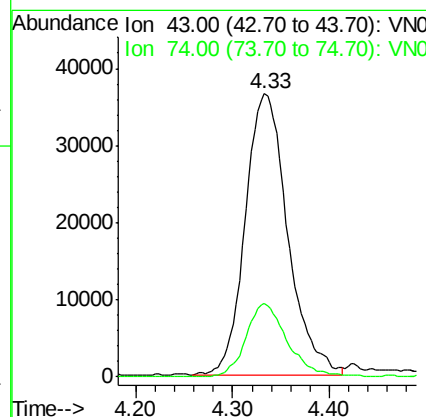
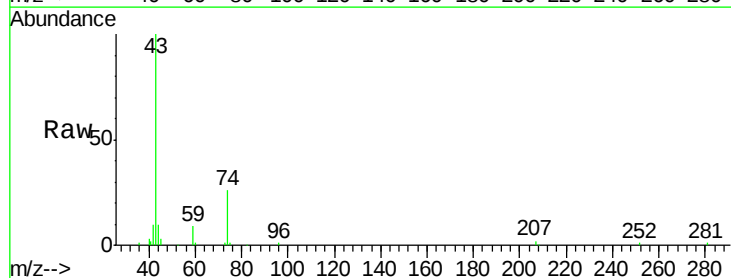
Instrument :
MSVOA_N
ClientSampleId :

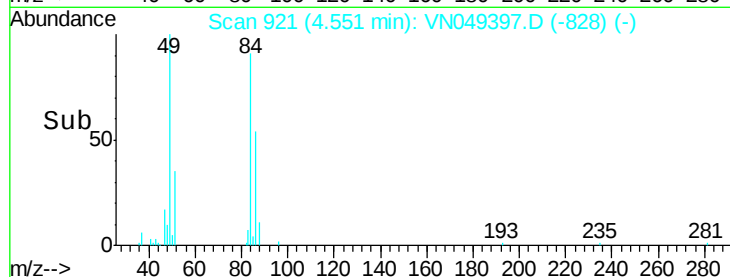
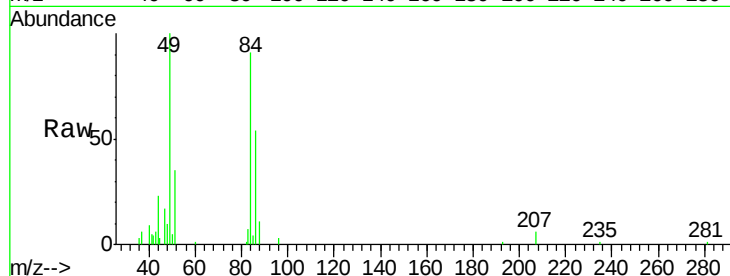
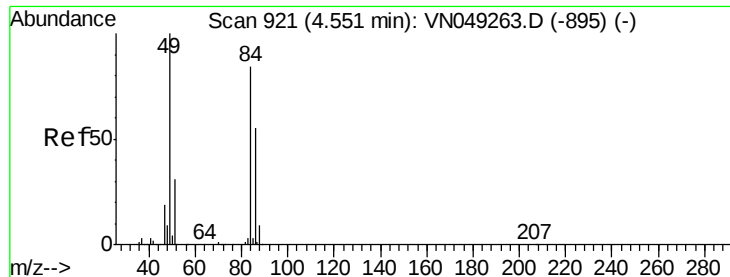
Tot Ion: 43 Resp: 44879
Ion Ratio Lower Upper
43 100
58 33.4 22.4 33.6



#18
Methyl Acetate
Concen: 9.65 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

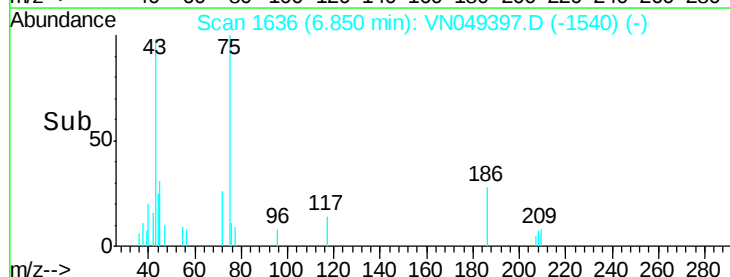
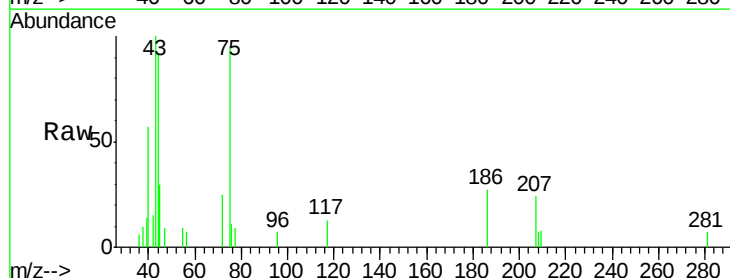
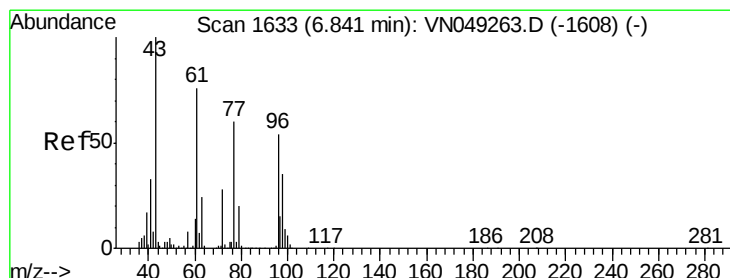
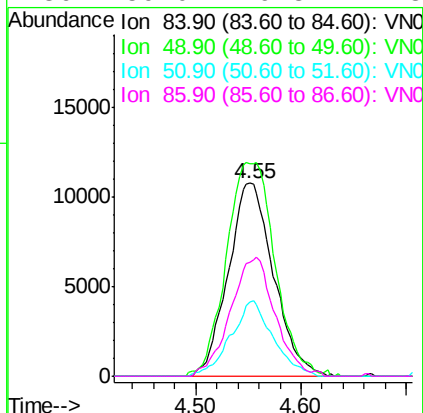
Tgt Ion: 43 Resp: 111222
Ion Ratio Lower Upper
43 100
74 25.3 17.4 26.0





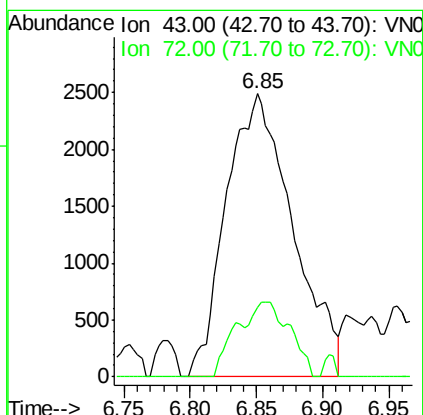
#20
Methylene Chloride
Concen: 2.04 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

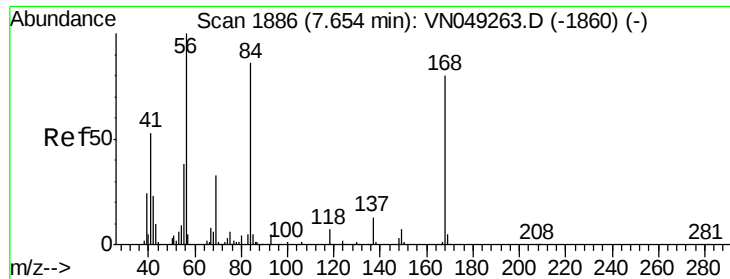
Tot Ion:	84	Resp:	32142
Ion	Ratio	Lower	Upper
84	100		
49	108.4	106.9	160.3
51	38.5	32.7	49.1
86	59.0	49.8	74.8



#25
2-Butanone
Concen: 1.72 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

Tgt Ion:	43	Resp:	8721
Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.2

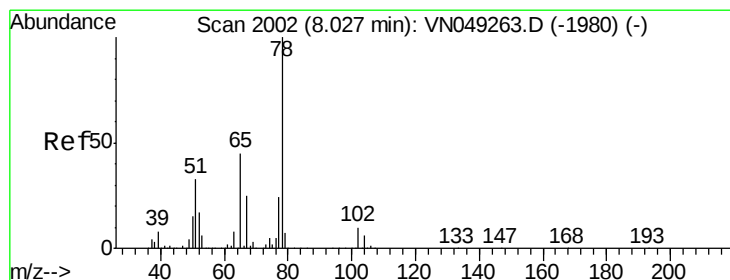
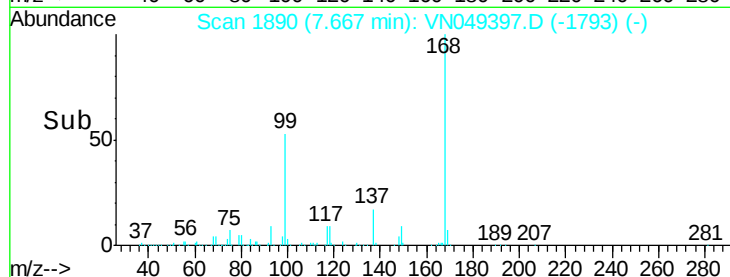
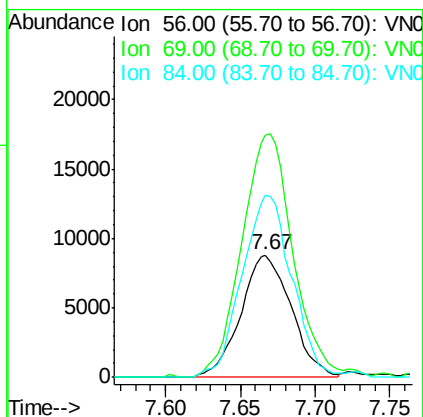
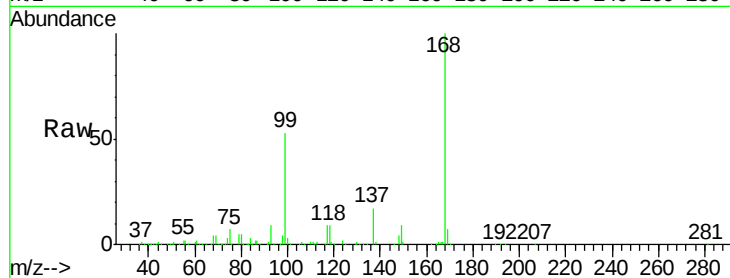




#31
Cyclohexane
Concen: 0.72 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

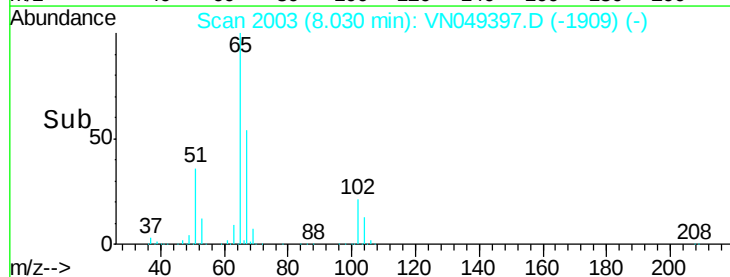
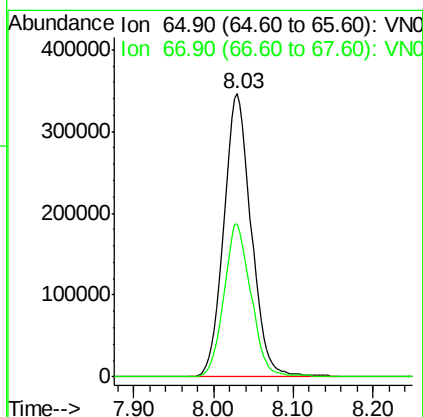
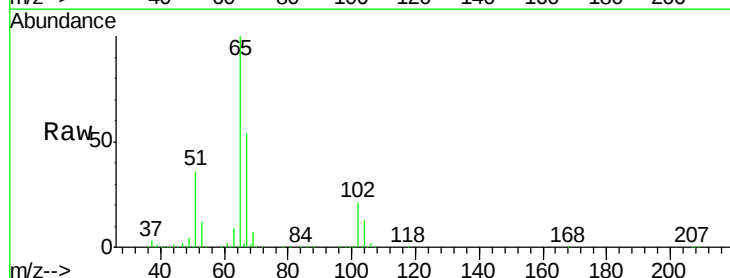
Instrument :
MSVOA_N
ClientSampled :

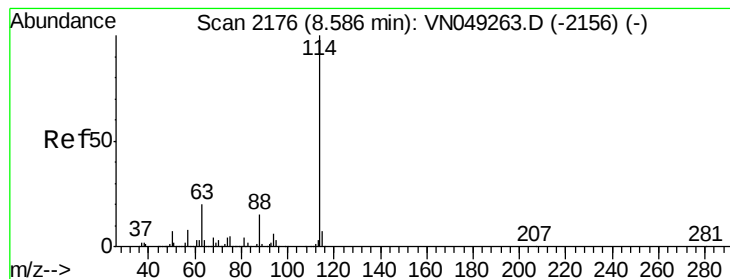
Tot Ion: 56 Resp: 20656
Ion Ratio Lower Upper
56 100
69 198.6 25.0 37.4#
84 148.6 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 52.23 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

Tgt Ion: 65 Resp: 813327
Ion Ratio Lower Upper
65 100
67 53.2 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

ClientSampleId :

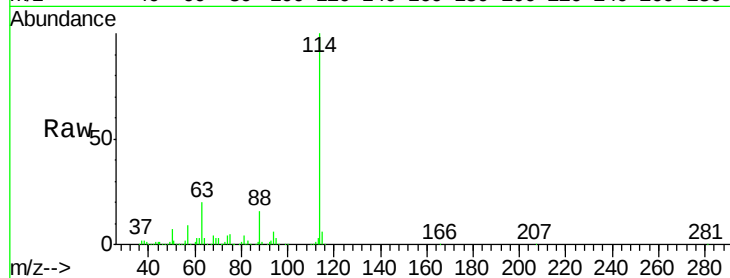
Tot Ion:114 Resp: 1904777

Ion Ratio Lower Upper

114 100

63 19.6 0.0 44.4

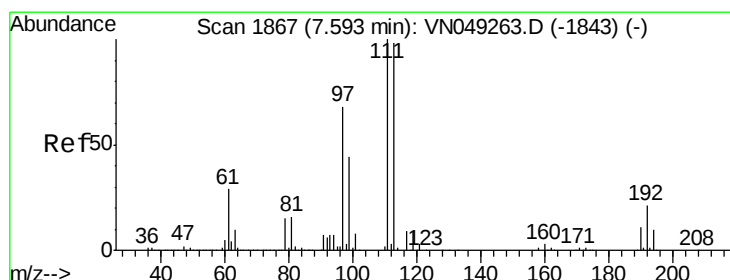
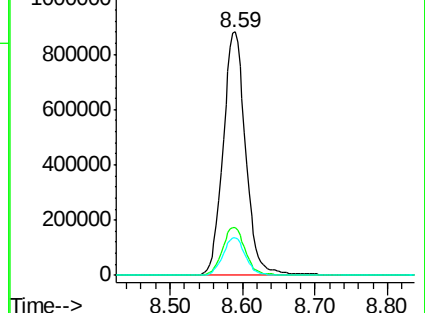
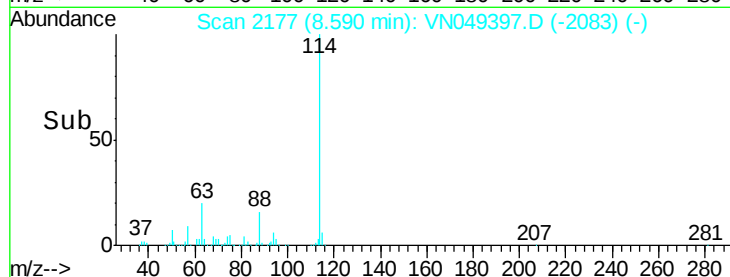
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 45.89 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

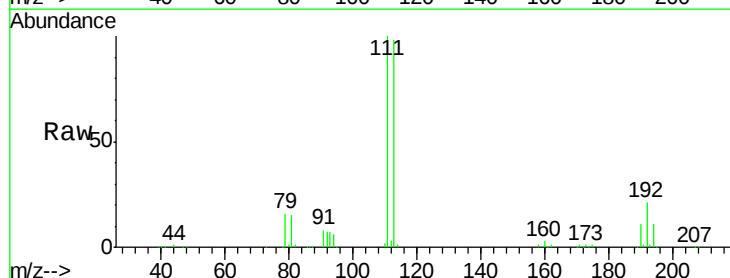
Tgt Ion:113 Resp: 707161

Ion Ratio Lower Upper

113 100

111 103.1 82.4 123.6

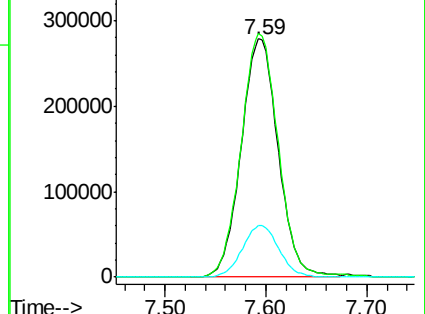
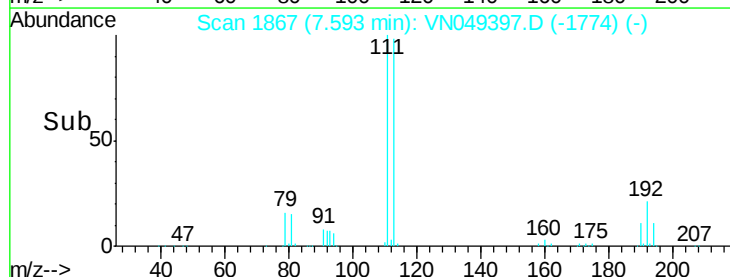
192 21.5 15.0 22.6

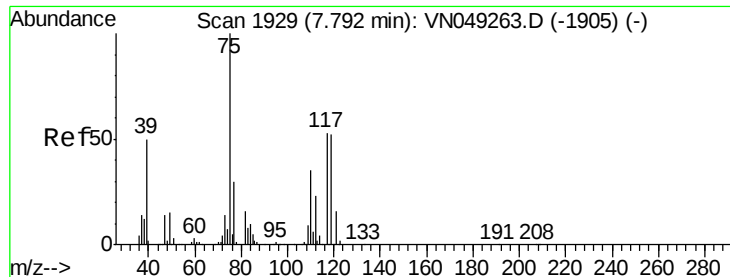


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.75 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

ClientSampleId :

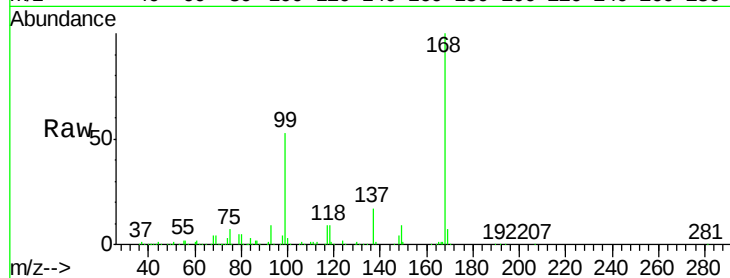
Tot Ion: 75 Resp: 81800

Ion Ratio Lower Upper

75 100

110 6.0 17.0 50.9#

77 0.0 24.4 36.6#

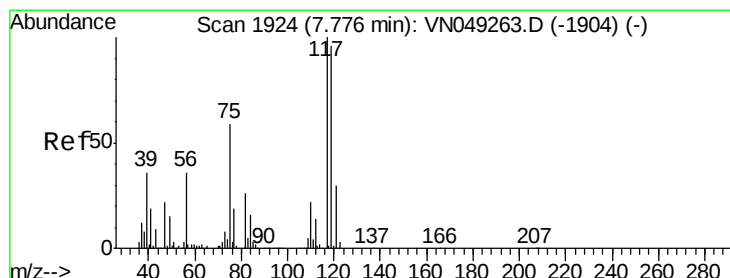
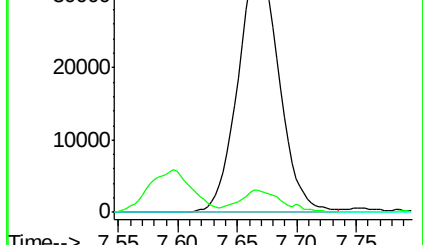
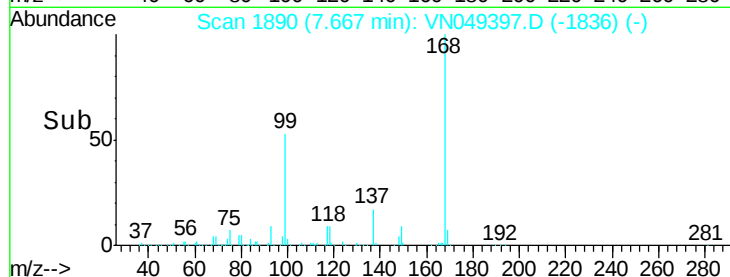


Abundance Ion 74.90 (74.60 to 75.60): VN049397.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049397.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049397.D (-1836) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.80 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

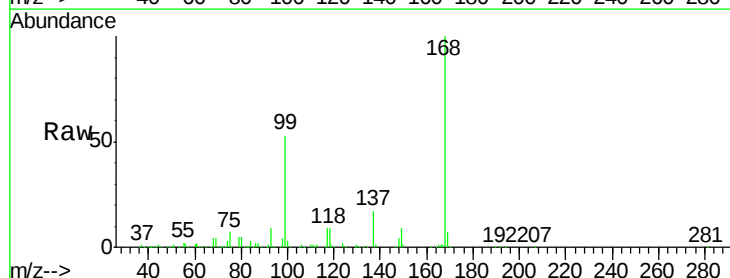
Tgt Ion: 117 Resp: 108568

Ion Ratio Lower Upper

117 100

119 6.9 75.6 113.4#

121 0.0 24.7 37.1#

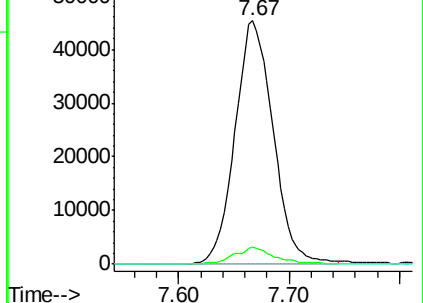
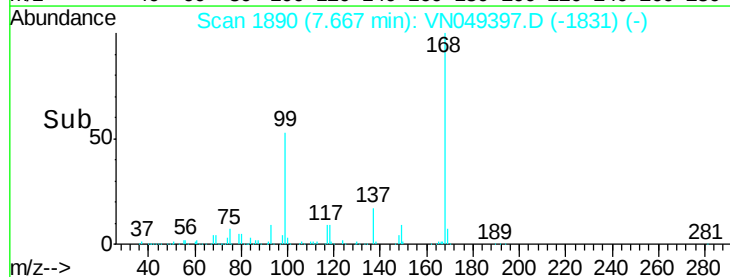


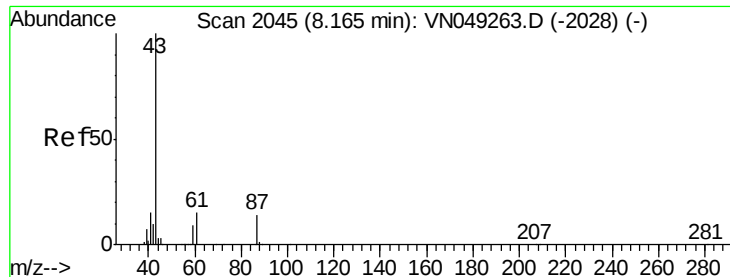
Abundance Ion 116.80 (116.50 to 117.50): VN049397.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049397.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049397.D (-1831) (-)

Time-->





#43

Isopropyl Acetate

Concen: 16.65 ug/l

RT: 8.22 min Scan# 2063

Delta R.T. 0.06 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

ClientSampled :

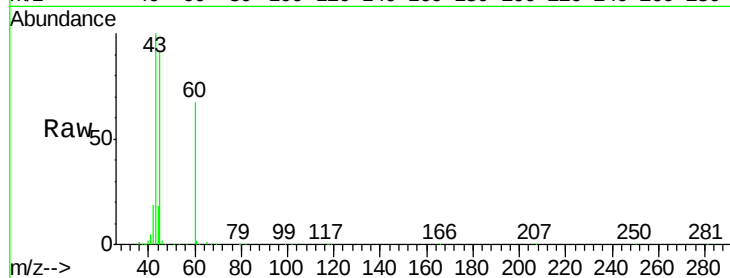
Tot Ion: 43 Resp: 377595

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

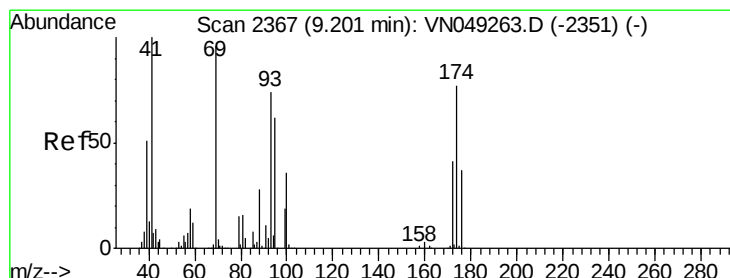
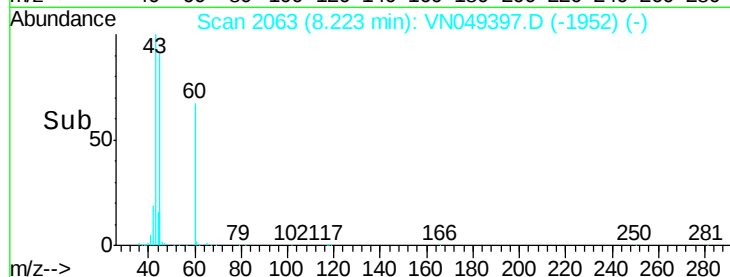
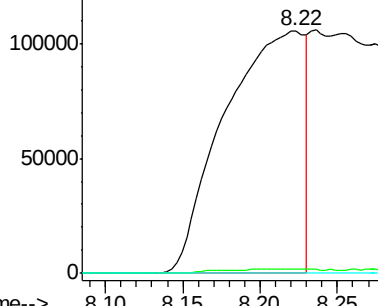
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#49

1,4-Dioxane

Concen: 0.71 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

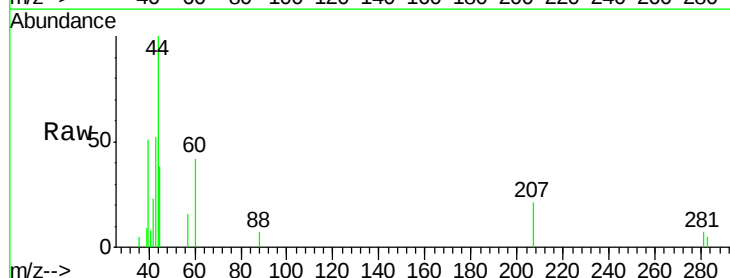
Tgt Ion: 88 Resp: 105

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

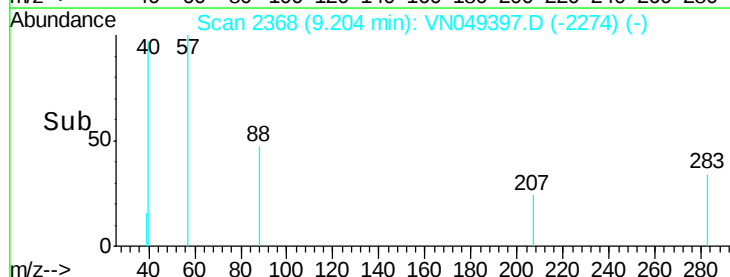
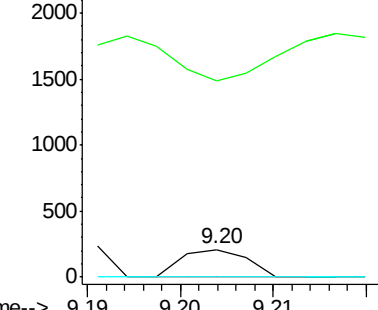
58 0.0 58.9 88.3#

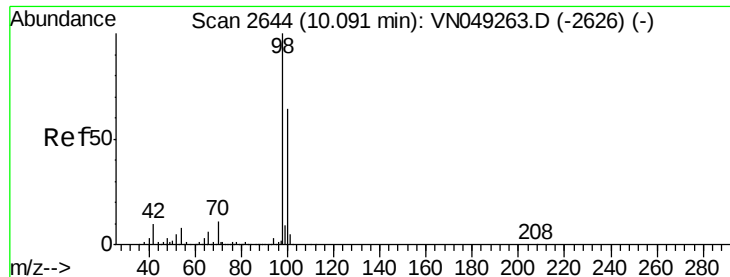


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 44.17 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

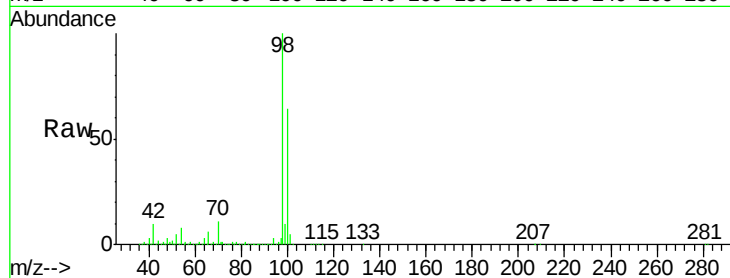
ClientSampled :

Tot Ion: 98 Resp: 2591672

Ion Ratio Lower Upper

98 100

100 63.5 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

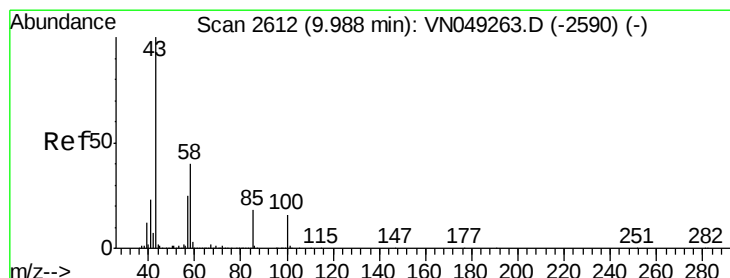
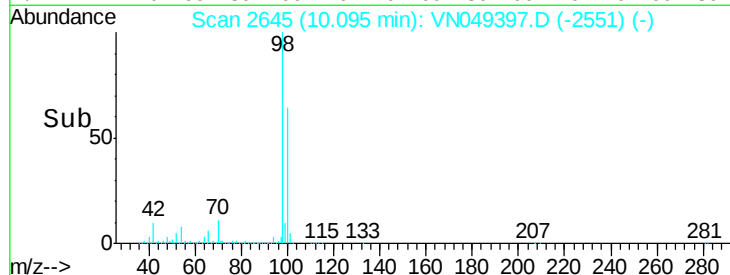
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.41 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049397.D

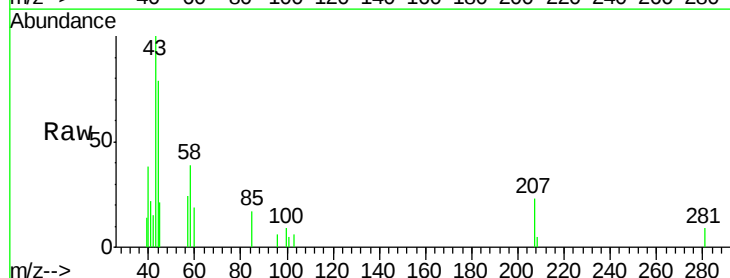
Acq: 19 Jun 2018 20:21

Tgt Ion: 43 Resp: 4819

Ion Ratio Lower Upper

43 100

58 49.6 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

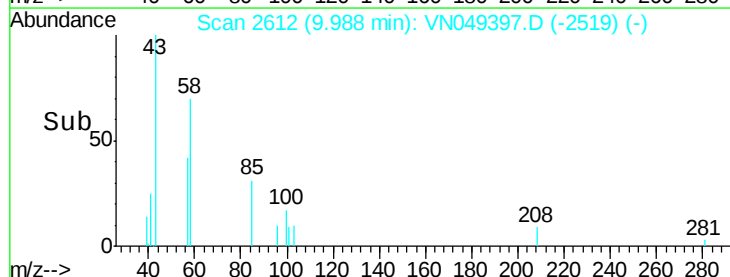
3000

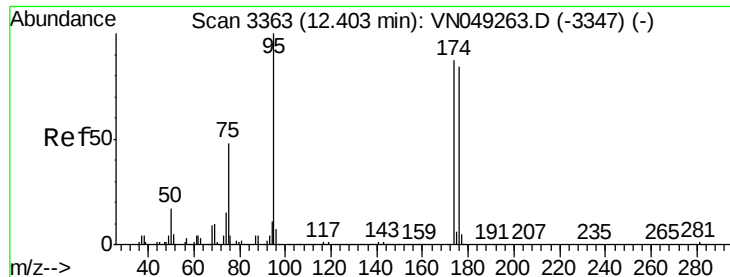
2000

1000

0

Time-->

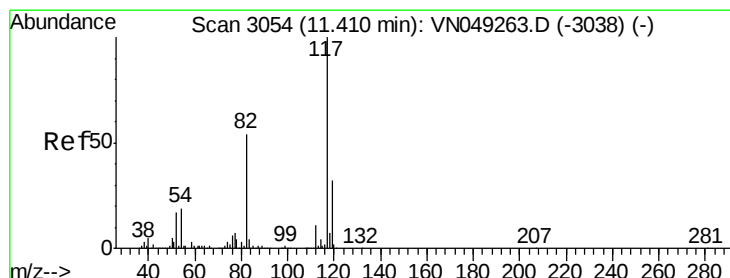
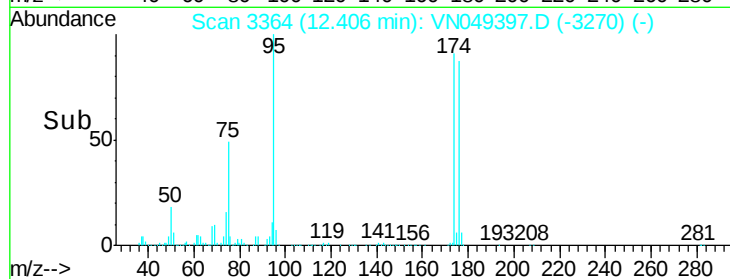
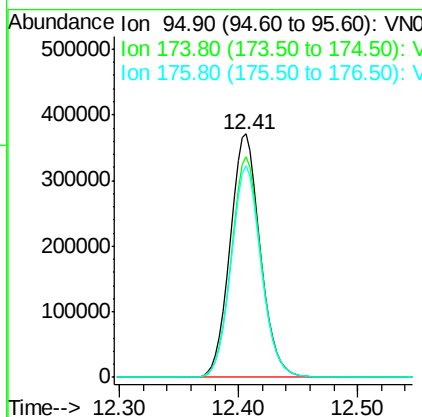
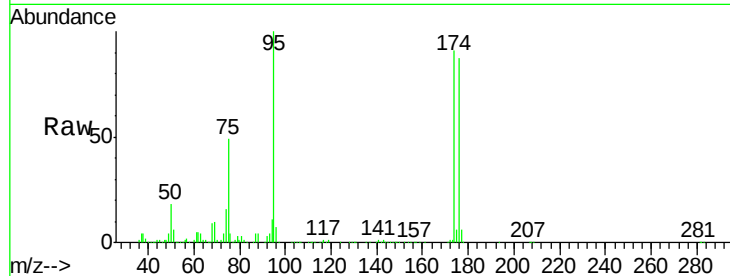




#62
4-Bromofluorobenzene
Concen: 33.50 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

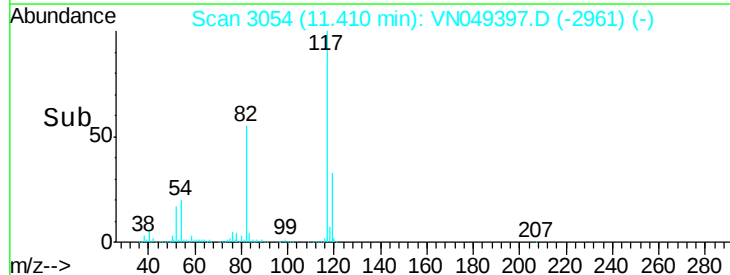
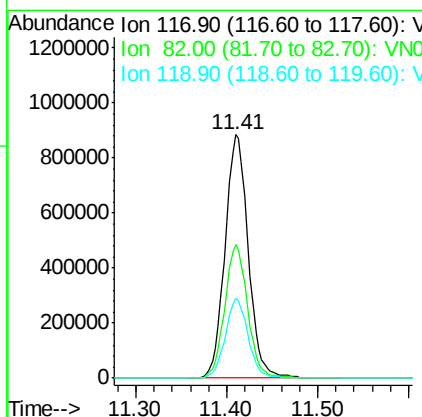
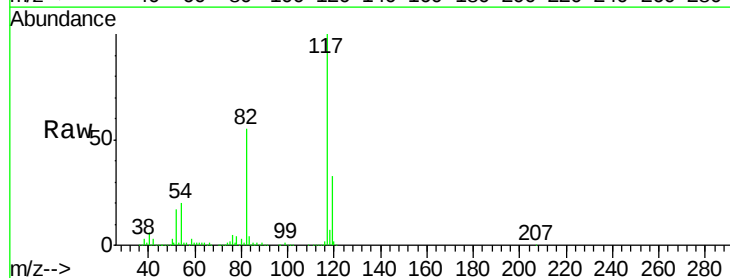
Instrument :
MSVOA_N
ClientSampleId :

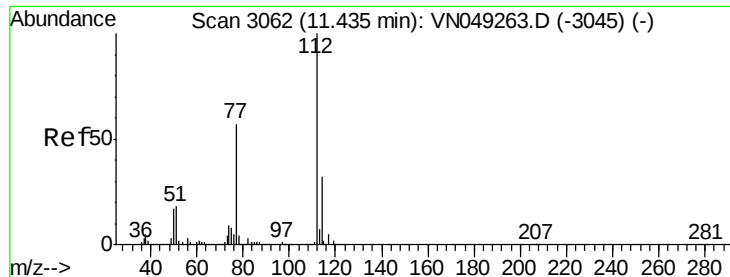
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.2	0.0	165.6
176	86.5	0.0	157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049397.D
Acq: 19 Jun 2018 20:21

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.9	45.9	68.9
119	32.6	25.5	38.3





#65

Chlorobenzene

Concen: 0.58 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

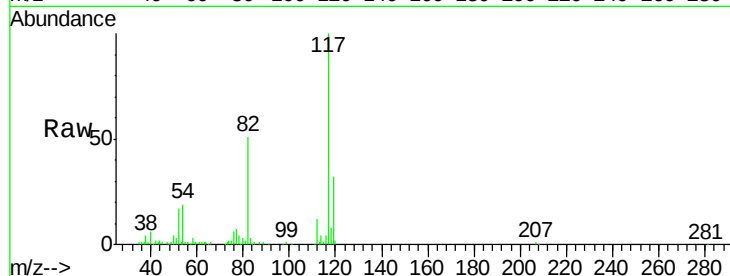
ClientSampled :

Tot Ion:112 Resp: 23378

Ion Ratio Lower Upper

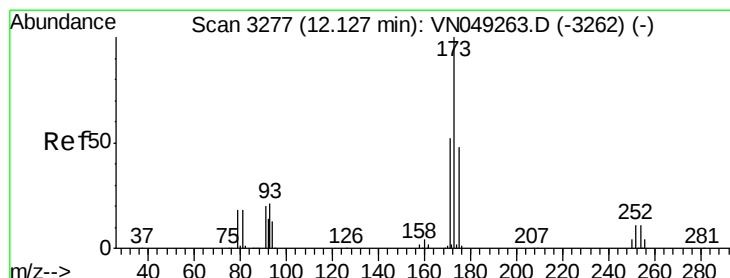
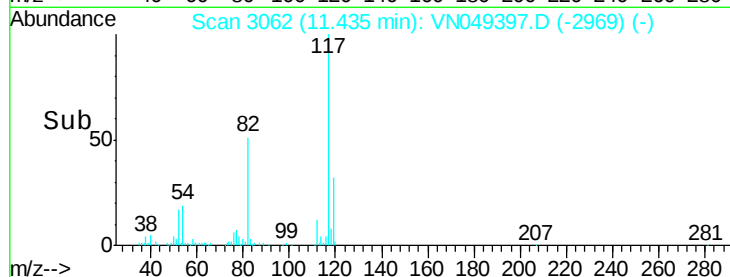
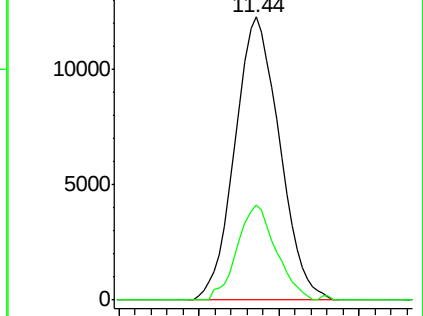
112 100

114 33.5 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: 0.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

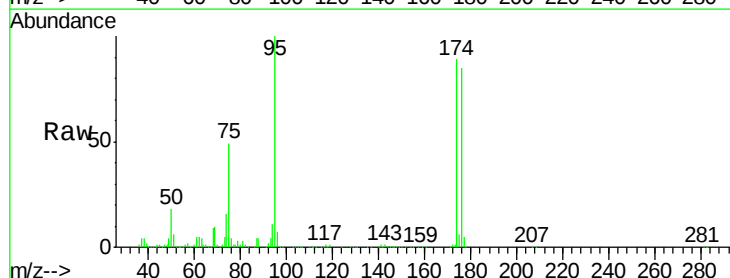
Tgt Ion:173 Resp: 4877

Ion Ratio Lower Upper

173 100

175 643.0 24.5 73.5#

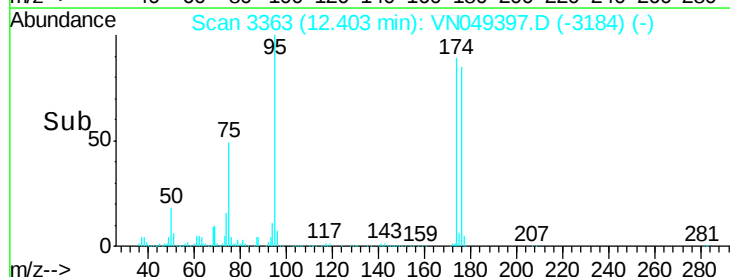
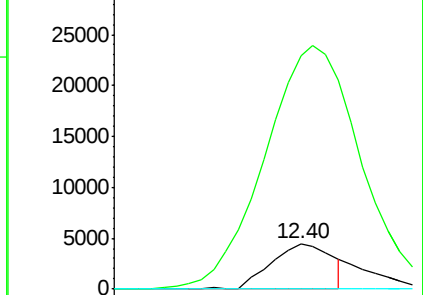
254 0.0 0.1 0.1#

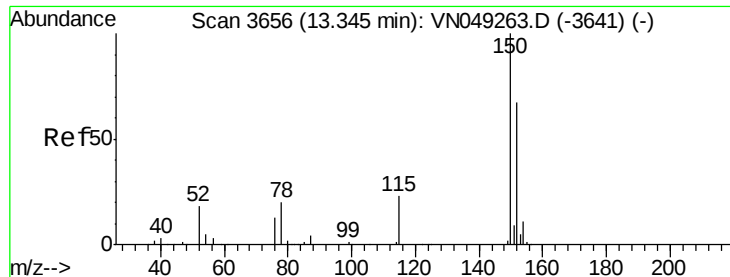


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

ClientSampleId :

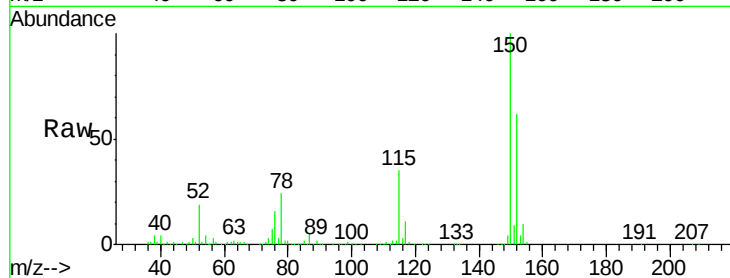
Tot Ion:152 Resp: 438898

Ion Ratio Lower Upper

152 100

115 56.9 28.7 86.1

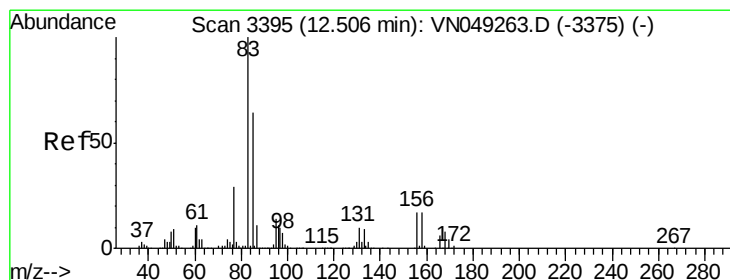
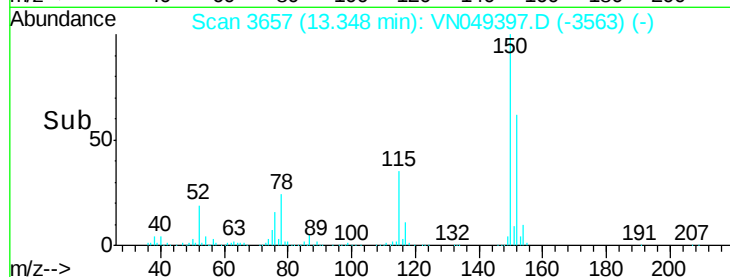
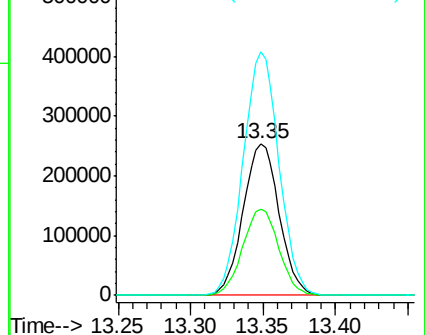
150 159.6 0.0 351.0



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# 3397

Delta R.T. 0.01 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

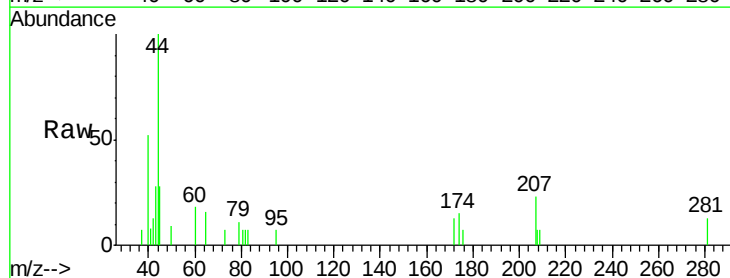
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

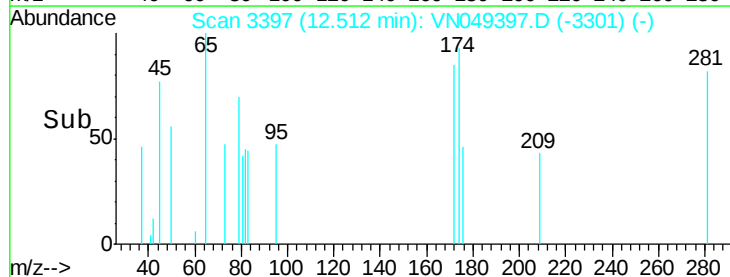
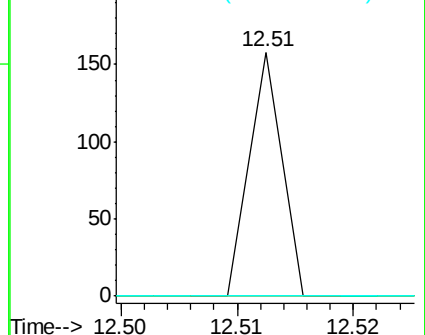
85 0.0 32.0 96.0#

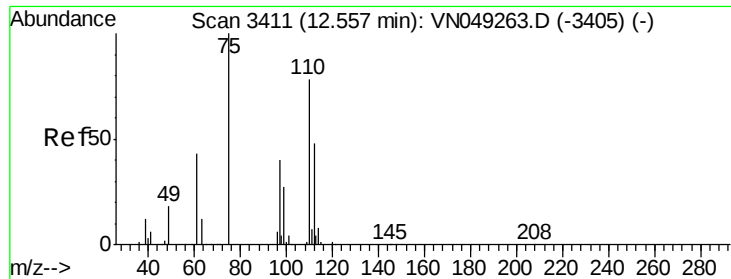


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

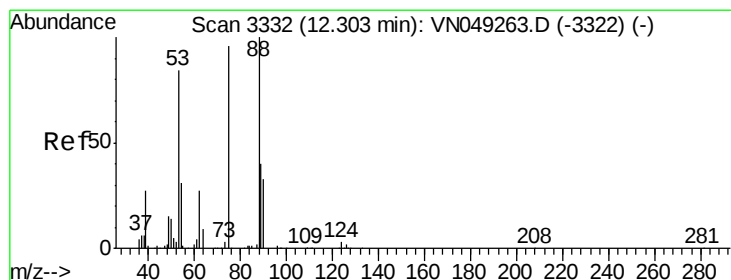
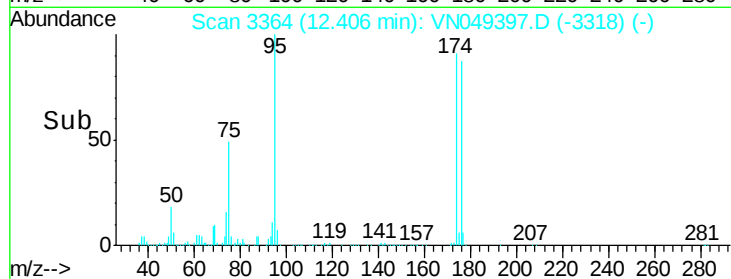
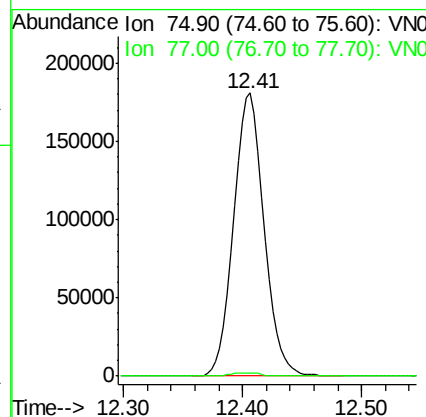
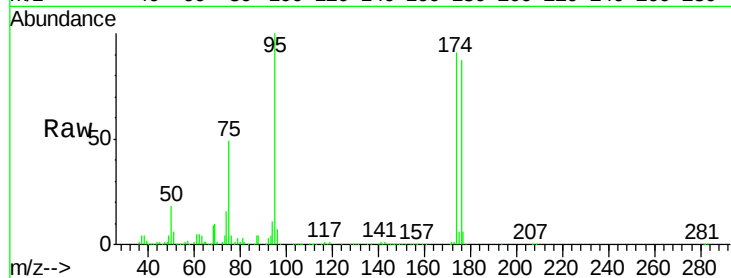




#76
 1,2,3-Trichloropropane
 Concen: 42.72 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. -0.15 min
 Lab File: VN049397.D
 Acq: 19 Jun 2018 20:21

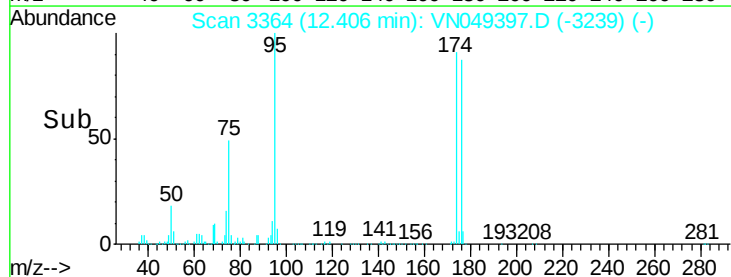
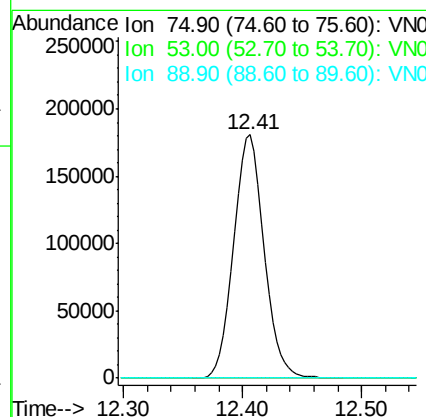
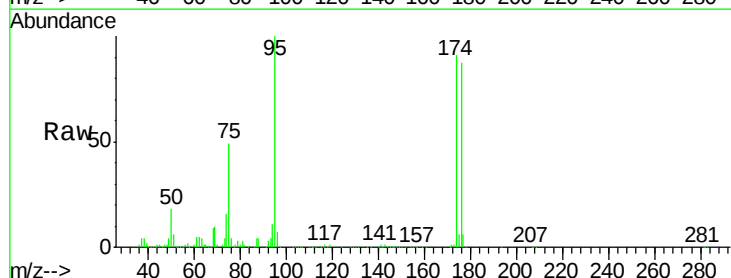
Instrument :
 MSVOA_N
 ClientSampleId :

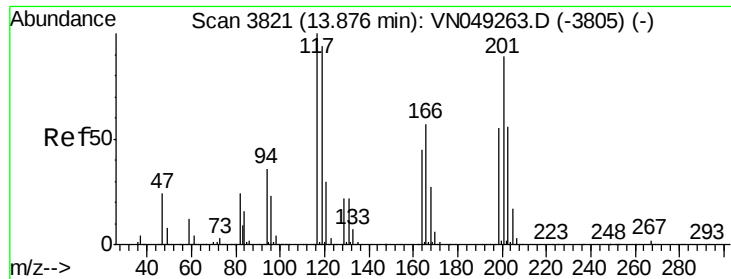
Tot Ion: 75 Resp: 319898
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 135.01 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. 0.10 min
 Lab File: VN049397.D
 Acq: 19 Jun 2018 20:21

Tgt Ion: 75 Resp: 319898
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.7 124.1#
 89 0.1 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.67 min Scan# 3756

Delta R.T. -0.21 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

Instrument :

MSVOA_N

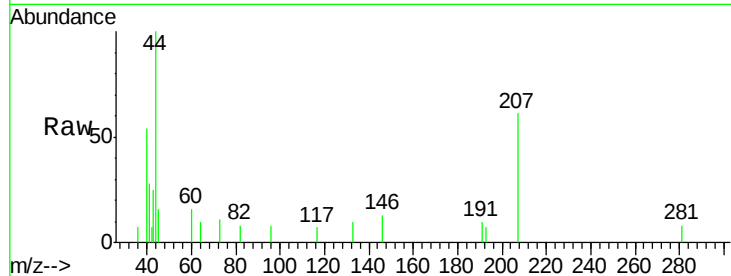
ClientSampleId :

Tot Ion:117 Resp: 30

Ion Ratio Lower Upper

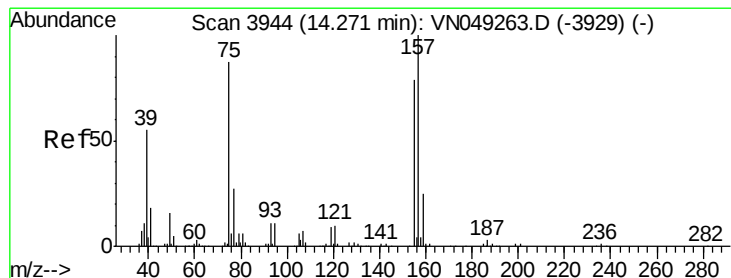
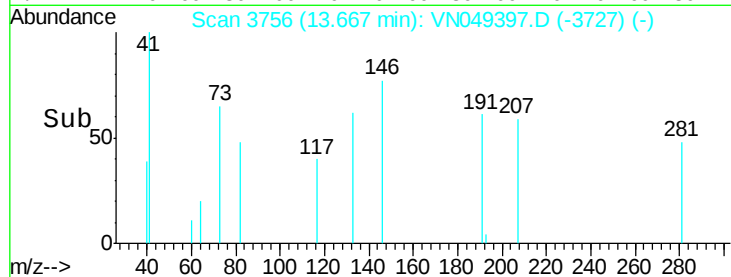
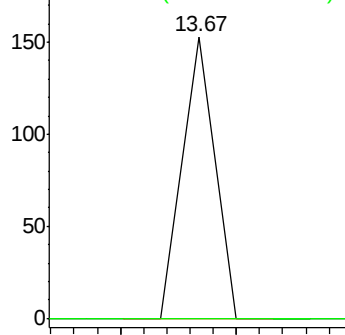
117 100

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.51 ug/l

RT: 14.26 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VN049397.D

Acq: 19 Jun 2018 20:21

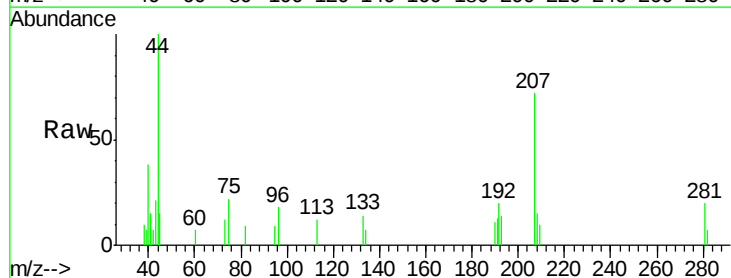
Tgt Ion: 75 Resp: 687

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

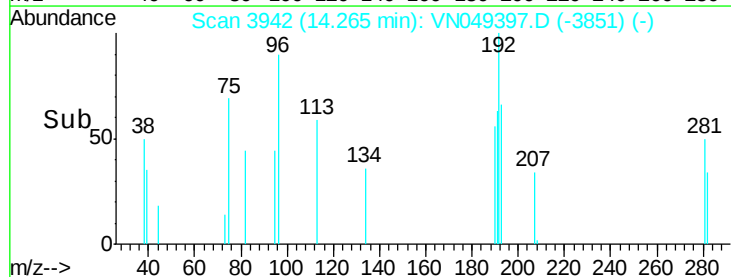
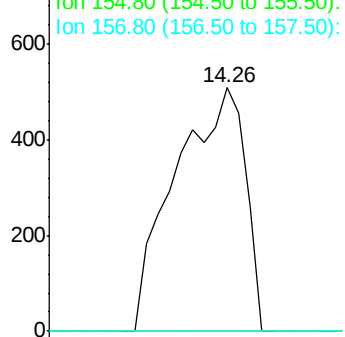
157 0.0 51.0 153.1#

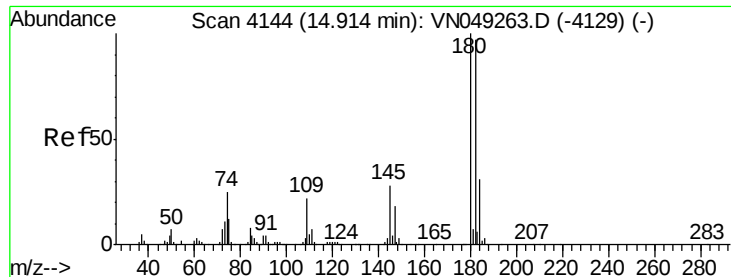


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

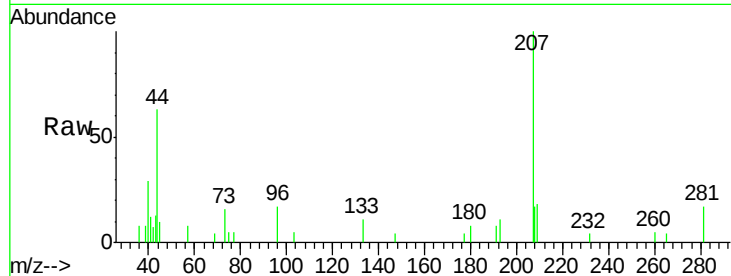




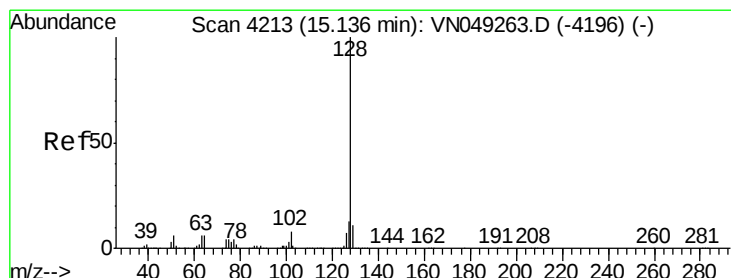
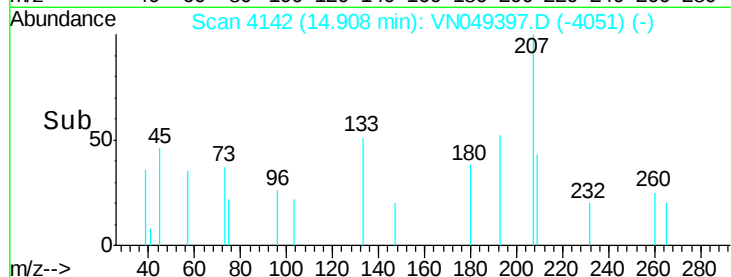
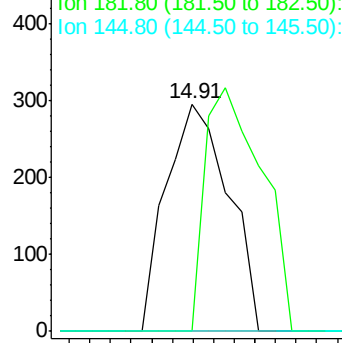
#93
 1,2,4-Trichlorobenzene
 Concen: 4.77 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. -0.01 min
 Lab File: VN049397.D
 Acq: 19 Jun 2018 20:21

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 247
 Ion Ratio Lower Upper
 180 100
 182 98.0 46.9 140.8
 145 0.0 14.7 44.1#

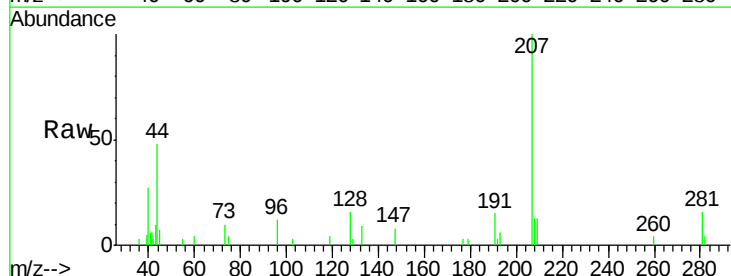


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 2.19 ug/l
 RT: 15.14 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN049397.D
 Acq: 19 Jun 2018 20:21

Tgt Ion:128 Resp: 1354
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 5.3 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

