

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081418\
 Data File : VN050604.D
 Acq On : 14 Aug 2018 16:00
 Operator : MD\SY
 Sample : J4459-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-SV30518L

Quant Time: Aug 14 16:51:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	610857	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1004557	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	840015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	313880	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	419891	54.53	ug/l	0.00
Spiked Amount			Recovery	=	109.06%	
35) Dibromofluoromethane	7.59	113	396100	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	10.09	98	1376249	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	
62) 4-Bromofluorobenzene	12.40	95	378288	37.94	ug/l	0.00
Spiked Amount			Recovery	=	75.88%	

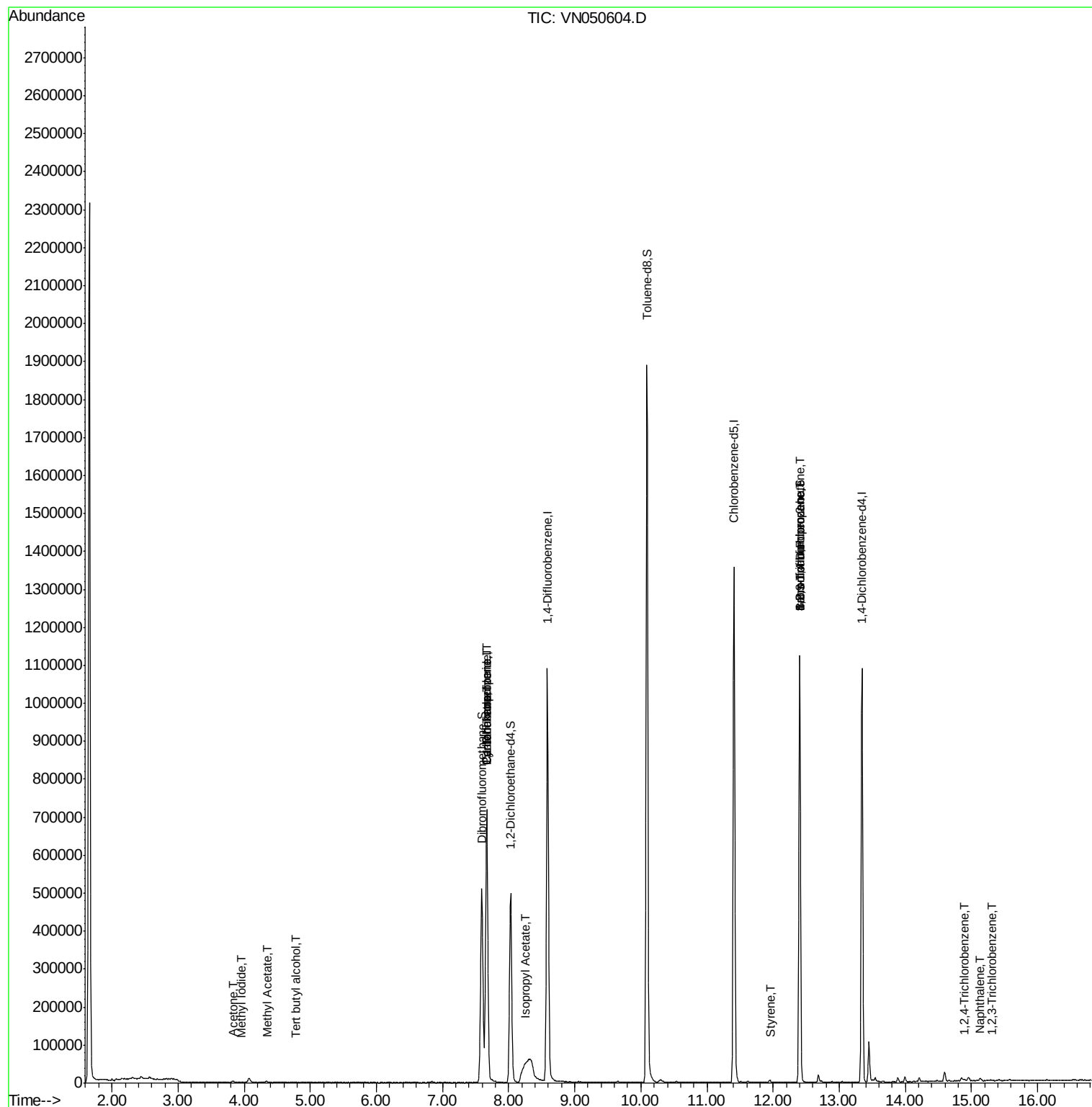
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2883	Below Cal	#	83
5) Bromomethane	2.57	94	3200	Below Cal		93
6) Chloroethane	2.70	64	101	Below Cal	#	43
10) Methyl Iodide	3.96	142	211	6.984	ug/l #	42
11) Tert butyl alcohol	4.79	59	354	0.842	ug/l #	72
16) Acetone	3.83	43	6202	1.787	ug/l	92
18) Methyl Acetate	4.34	43	6744	0.257	ug/l #	73
20) Methylene Chloride	4.54	84	135	Below Cal	#	13
31) Cyclohexane	7.67	56	11726	0.663	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42630	3.812	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54713	4.716	ug/l #	17
43) Isopropyl Acetate	8.25	43	64120	5.566	ug/l #	61
70) Styrene	11.97	104	62	0.943	ug/l #	26
71) Bromoform	12.40	173	3656	0.704	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	192	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	179800	35.150	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179800	127.352	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.90	180	66	2.685	ug/l #	1
95) Naphthalene	15.13	128	5984	4.318	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	272	1.988	ug/l #	65

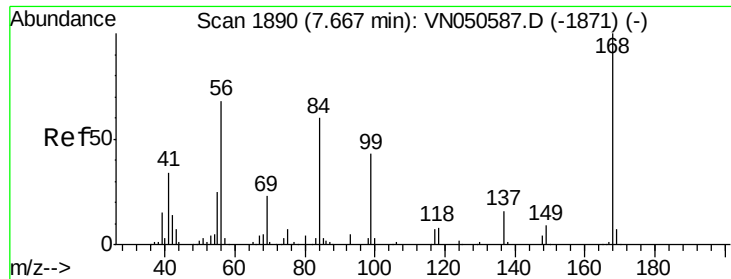
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

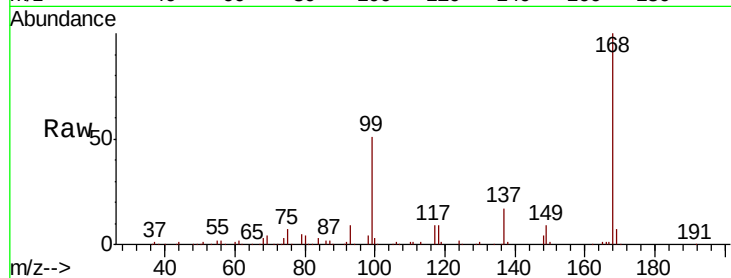
FRAC-TANK-SV30518L

Tgt Ion:168 Resp: 610857

Ion Ratio Lower Upper

168 100

99 50.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

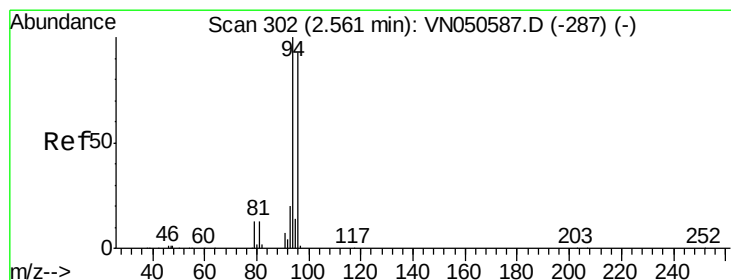
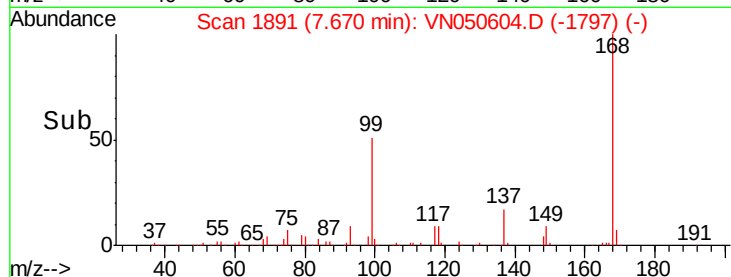
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050604.D

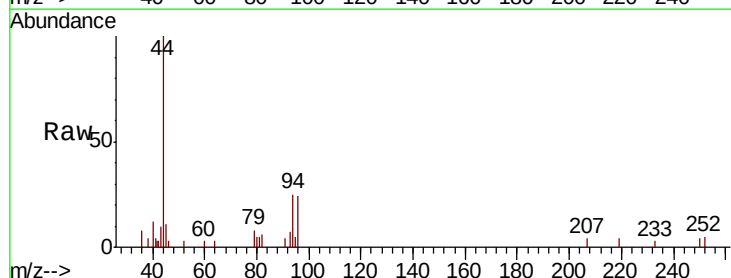
Acq: 14 Aug 2018 16:00

Tgt Ion: 94 Resp: 3200

Ion Ratio Lower Upper

94 100

96 85.7 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

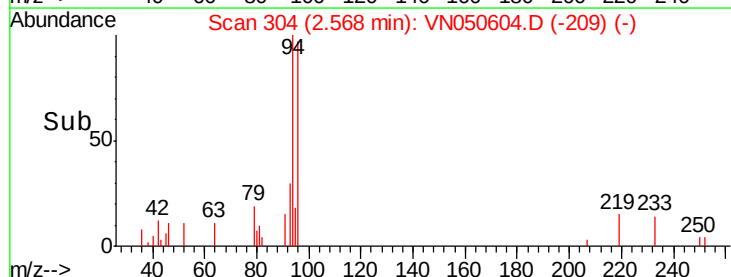
1500

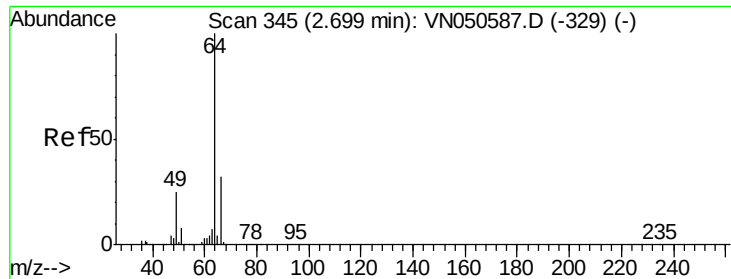
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

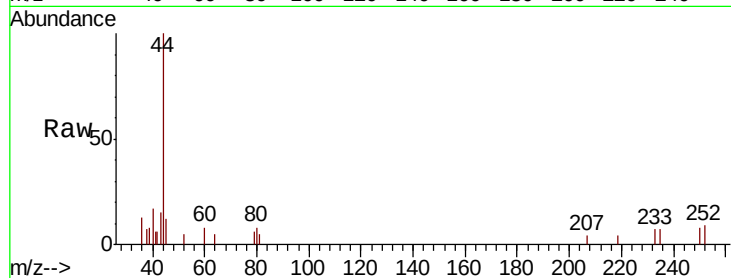
FRAC-TANK-SV30518L

Tgt Ion: 64 Resp: 101

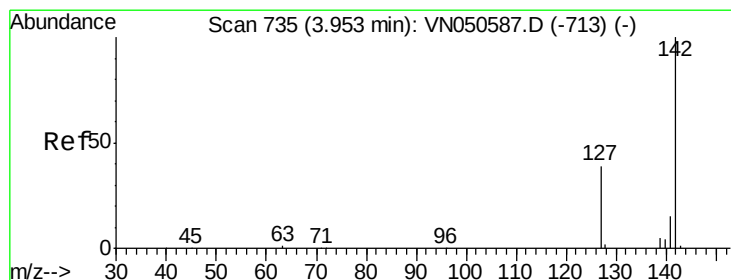
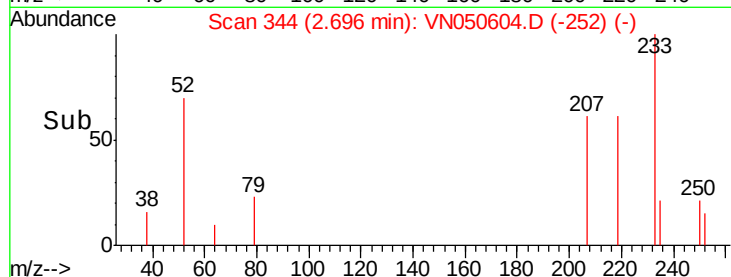
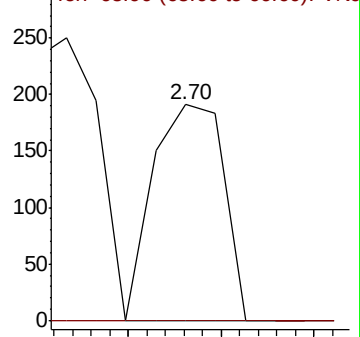
Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)



#10

Methyl Iodide

Concen: 6.984 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

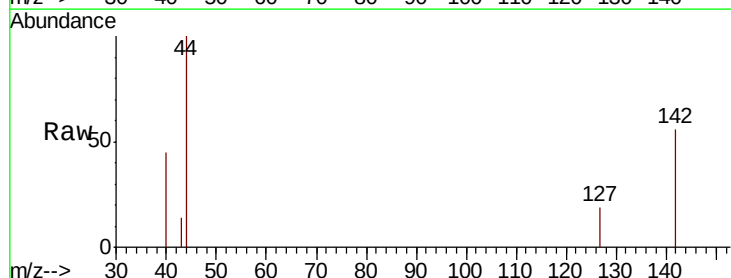
Tgt Ion: 142 Resp: 211

Ion Ratio Lower Upper

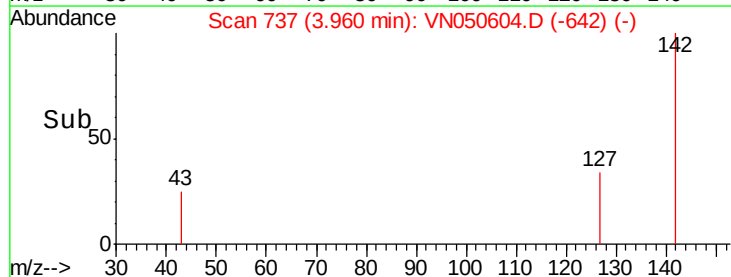
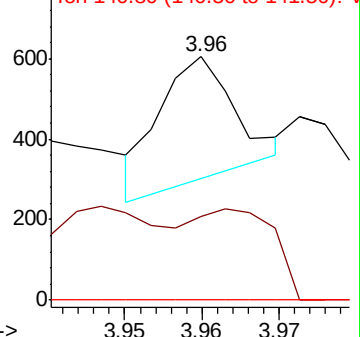
142 100

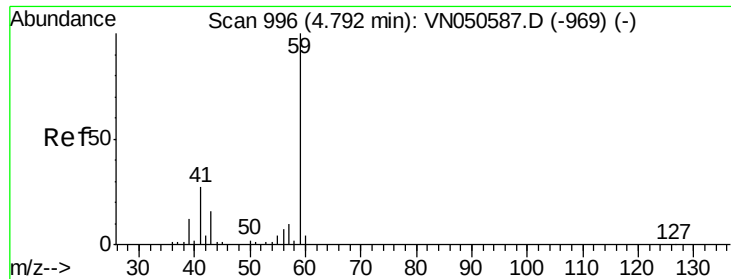
127 0.0 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

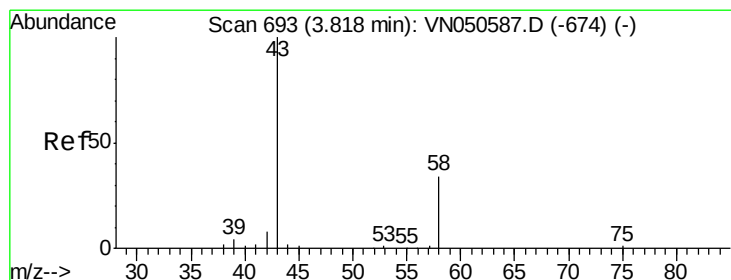
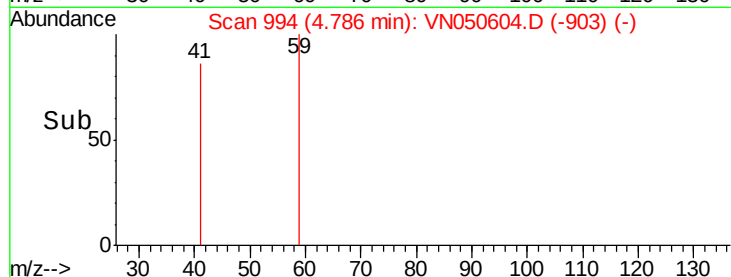
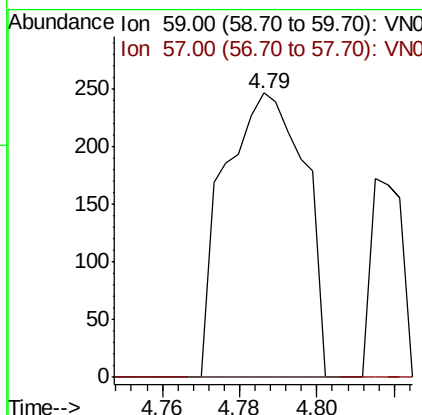
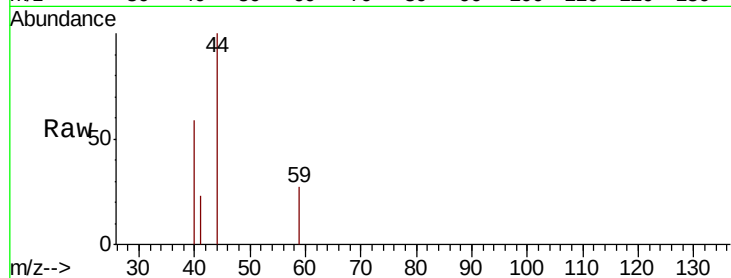




#11
Tert butyl alcohol
Concen: 0.842 ug/l
RT: 4.79 min Scan# 994
Delta R.T. -0.01 min
Lab File: VN050604.D
Acq: 14 Aug 2018 16:00

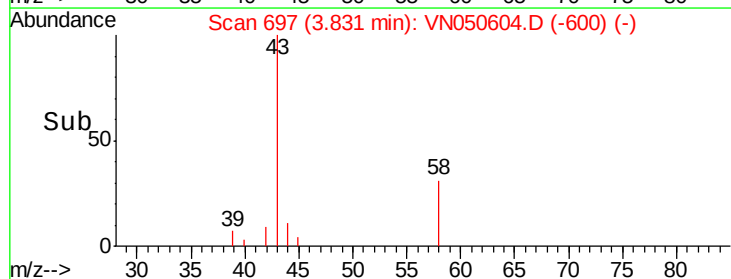
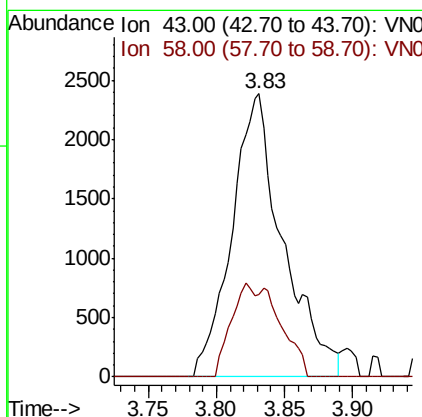
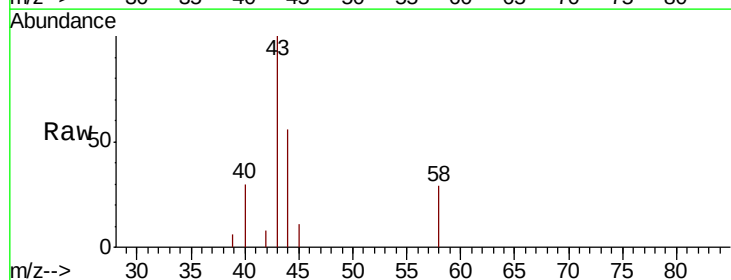
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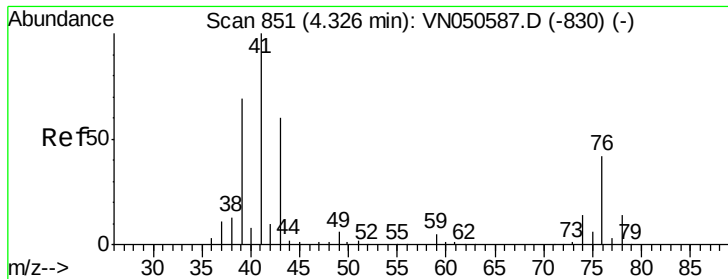
Tgt Ion: 59 Resp: 354
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 1.787 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050604.D
Acq: 14 Aug 2018 16:00

Tgt Ion: 43 Resp: 6202
Ion Ratio Lower Upper
43 100
58 29.3 27.1 40.7

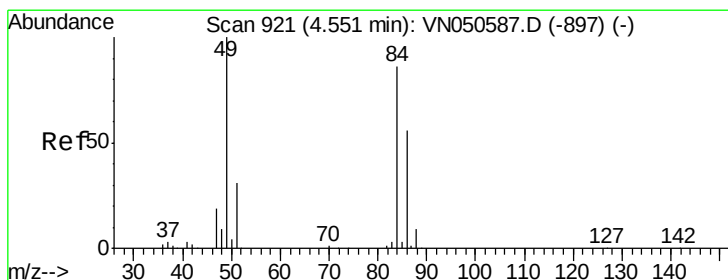
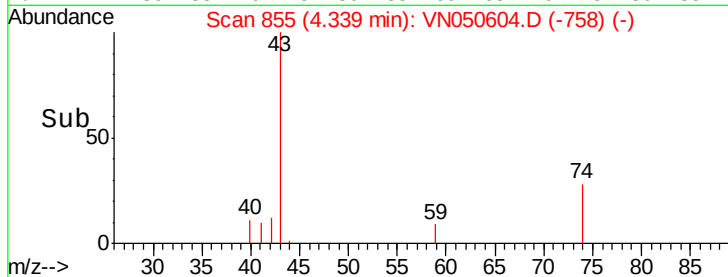
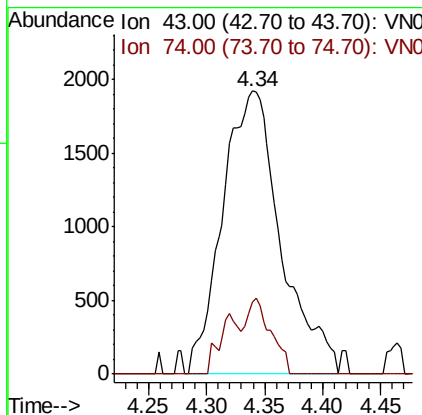
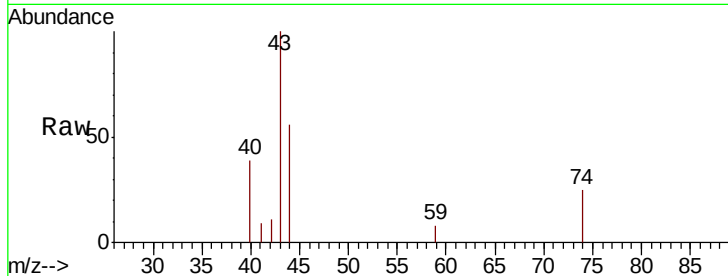




#18
Methyl Acetate
Concen: 0.257 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050604.D
Acq: 14 Aug 2018 16:00

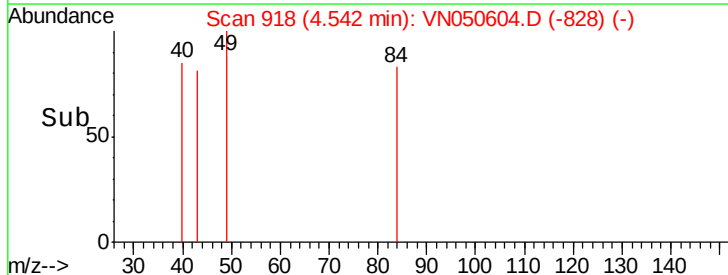
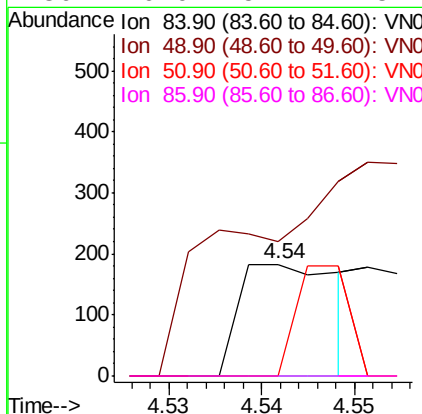
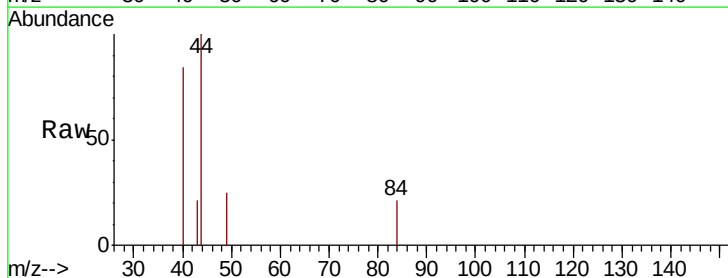
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-SV30518L

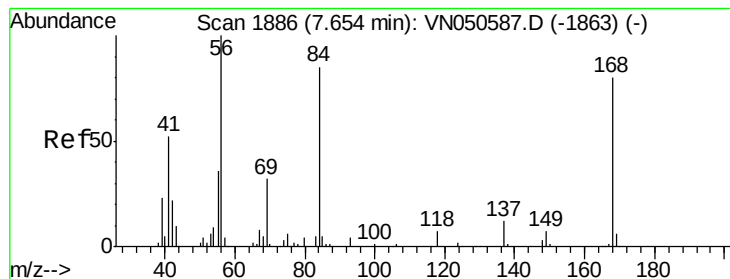
Tgt Ion: 43 Resp: 6744
Ion Ratio Lower Upper
43 100
74 11.3 19.7 29.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 918
Delta R.T. -0.01 min
Lab File: VN050604.D
Acq: 14 Aug 2018 16:00

Tgt Ion: 84 Resp: 135
Ion Ratio Lower Upper
84 100
49 8.7 92.6 138.8#
51 0.0 28.6 43.0#
86 0.0 52.2 78.2#





#31

Cyclohexane

Concen: 0.663 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-SV30518L

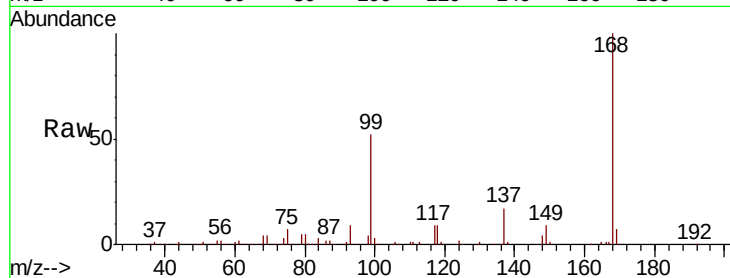
Tgt Ion: 56 Resp: 11726

Ion Ratio Lower Upper

56 100

69 189.5 25.8 38.6#

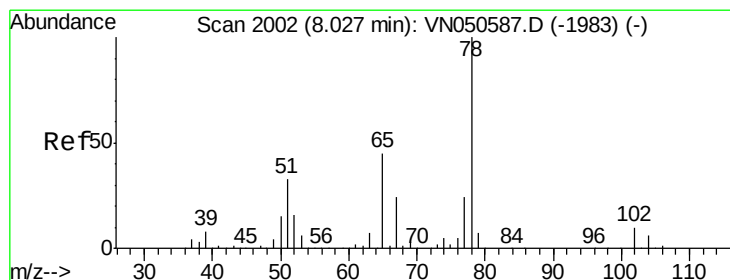
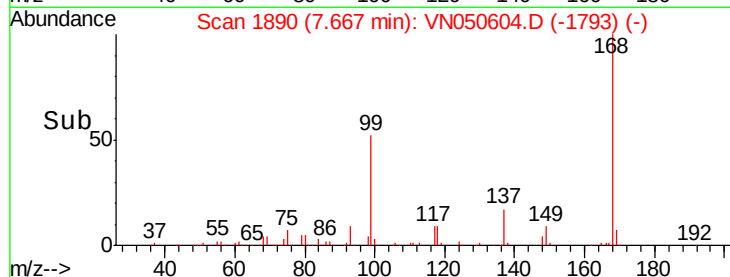
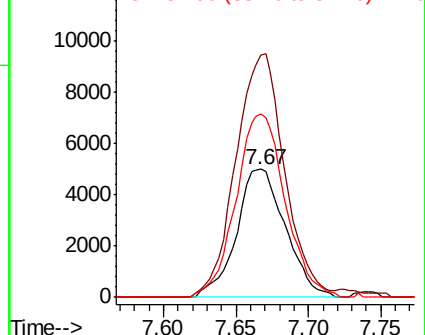
84 142.9 67.8 101.6#



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: 54.532 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050604.D

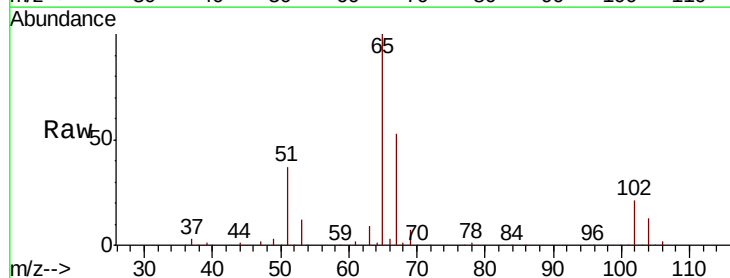
Acq: 14 Aug 2018 16:00

Tgt Ion: 65 Resp: 419891

Ion Ratio Lower Upper

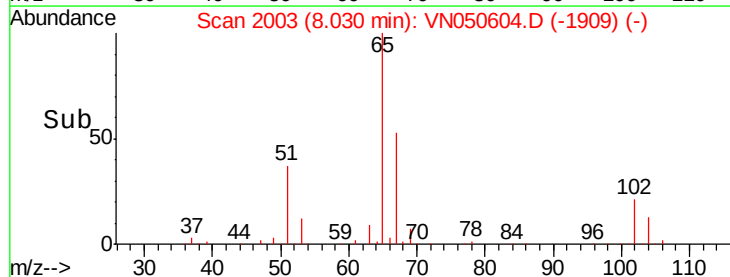
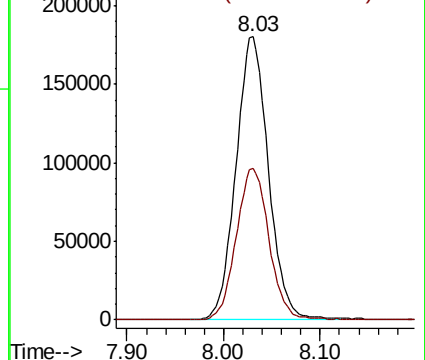
65 100

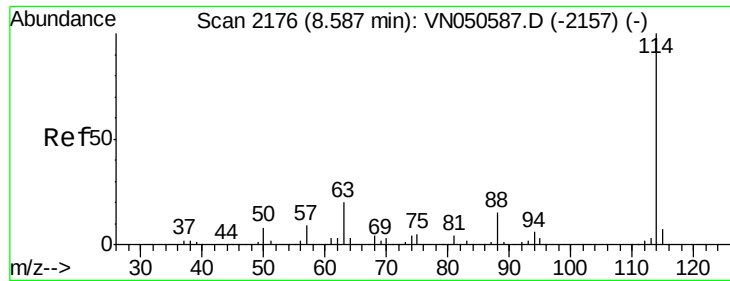
67 53.9 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

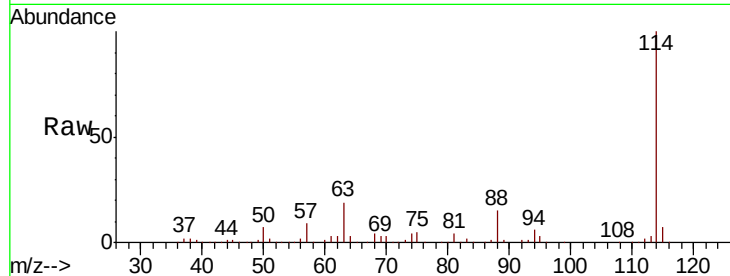




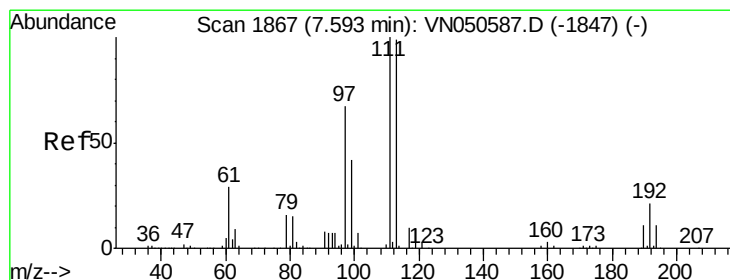
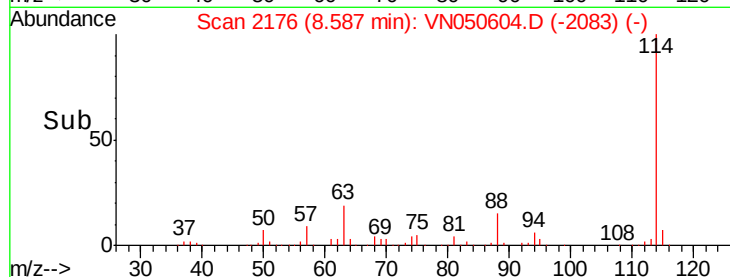
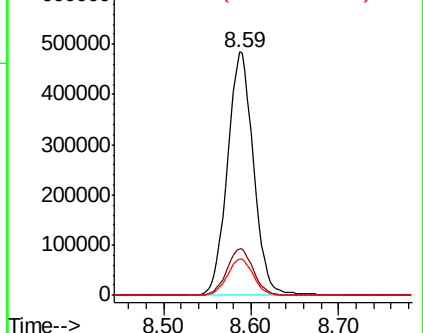
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050604.D
 Acq: 14 Aug 2018 16:00

Instrument :
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Tgt Ion:114 Resp: 1004557
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.1 0.0 30.8

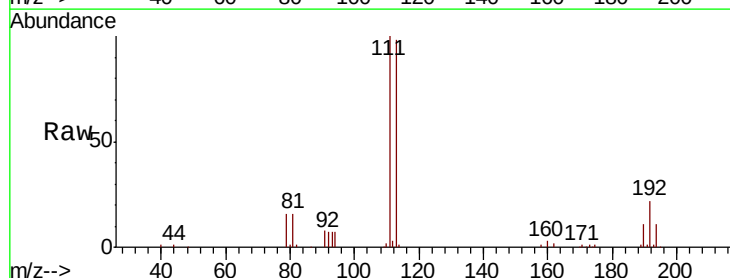


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

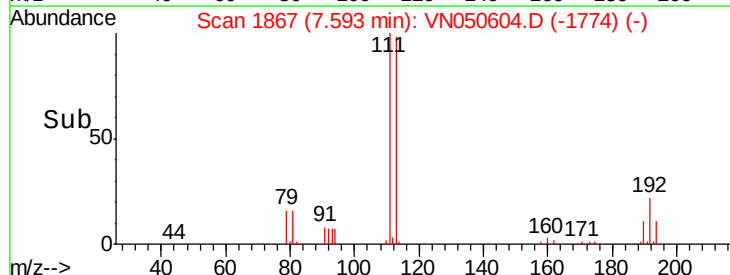
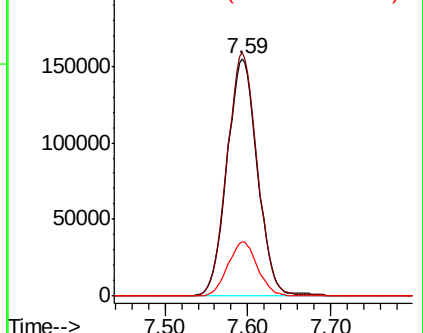


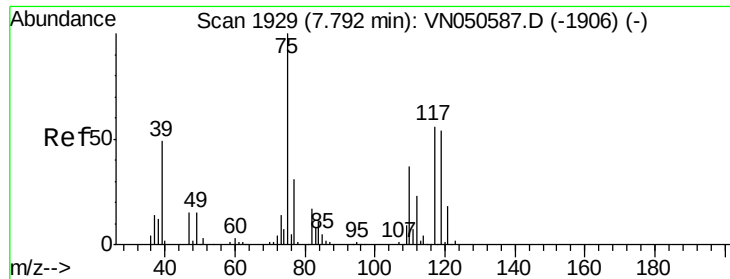
#35
 Dibromofluoromethane
 Concen: 49.389 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050604.D
 Acq: 14 Aug 2018 16:00

Tgt Ion:113 Resp: 396100
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.0 121.6
 192 22.4 17.6 26.4



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

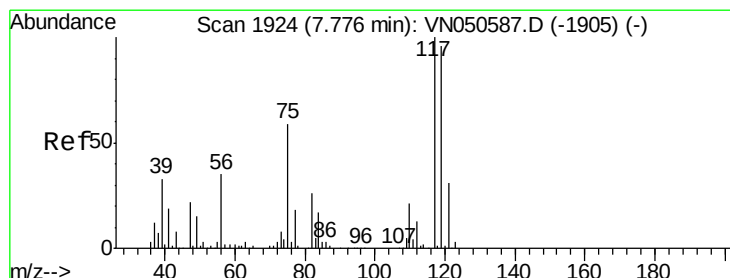
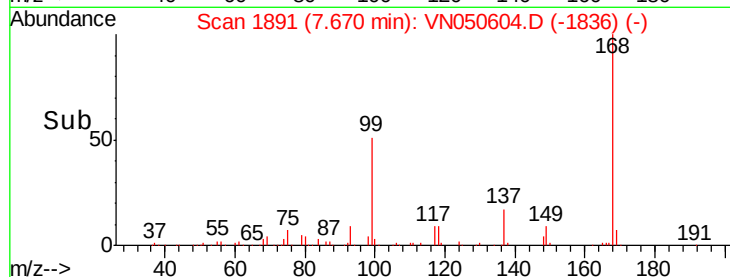
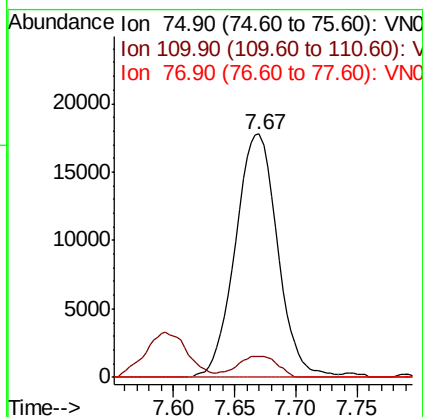
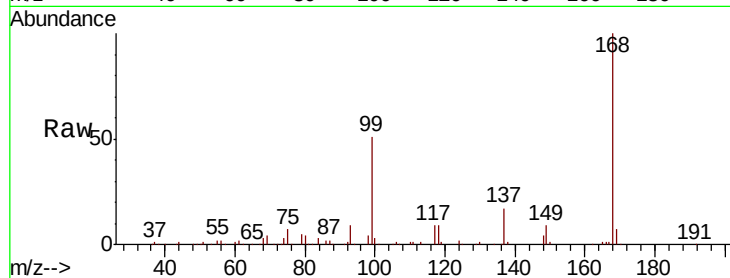




#36
 1,1-Dichloropropene
 Concen: 3.812 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050604.D
 Acq: 14 Aug 2018 16:00

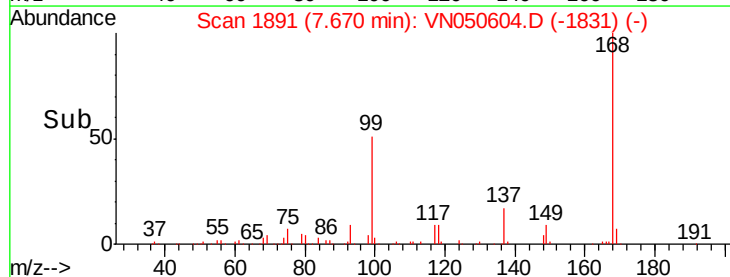
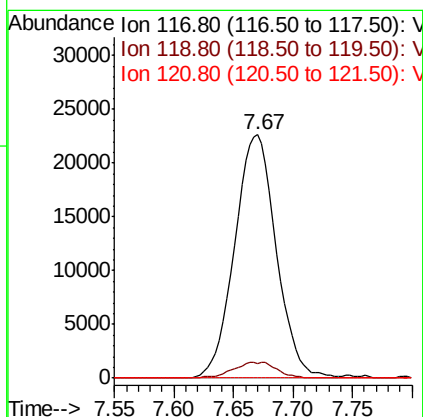
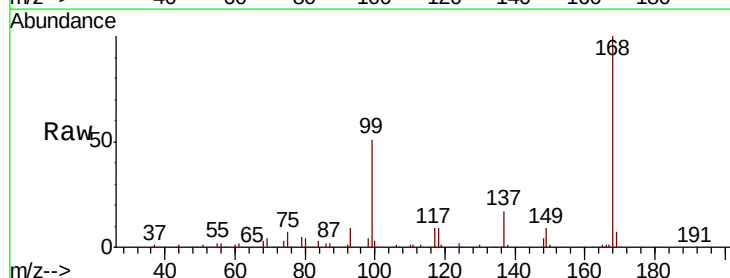
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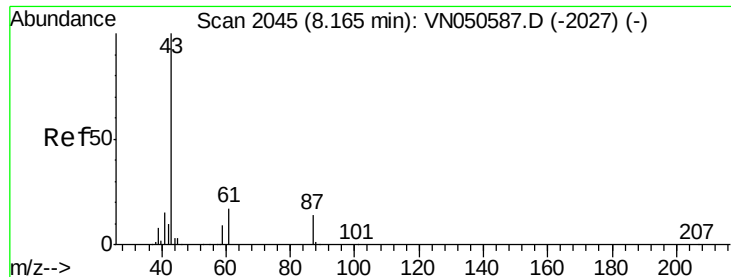
Tgt Ion: 75 Resp: 42630
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.3 54.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 4.716 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050604.D
 Acq: 14 Aug 2018 16:00

Tgt Ion: 117 Resp: 54713
 Ion Ratio Lower Upper
 117 100
 119 6.2 76.6 115.0#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 5.566 ug/l

RT: 8.25 min Scan# 2072

Delta R.T. 0.09 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-SV30518L

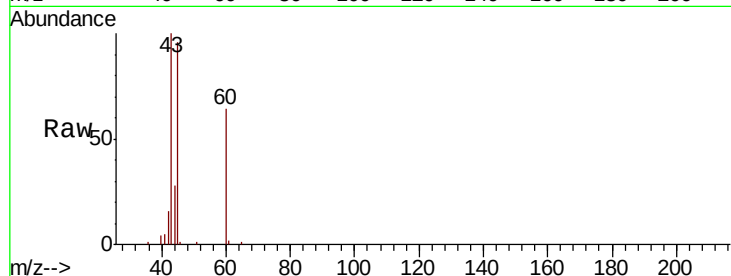
Tgt Ion: 43 Resp: 64120

Ion Ratio Lower Upper

43 100

61 0.4 16.2 24.2#

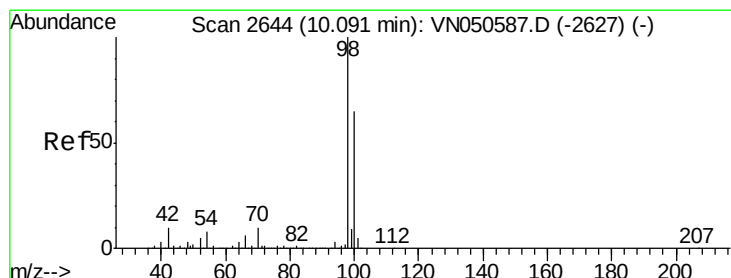
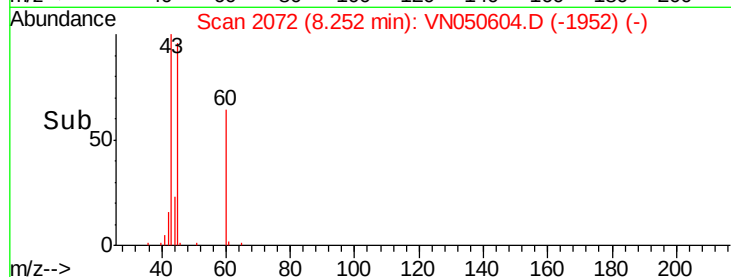
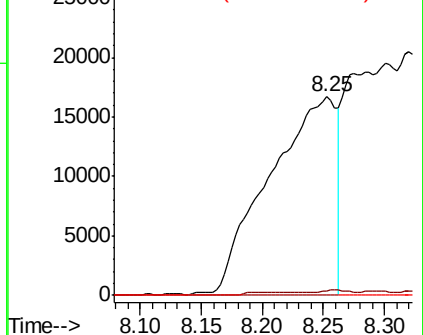
87 0.0 10.9 16.3#



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



#50

Toluene-d8

Concen: 45.596 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050604.D

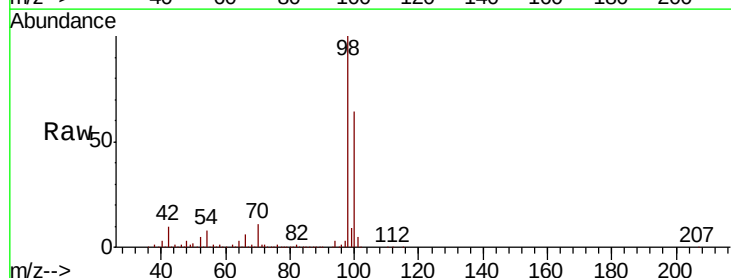
Acq: 14 Aug 2018 16:00

Tgt Ion: 98 Resp: 1376249

Ion Ratio Lower Upper

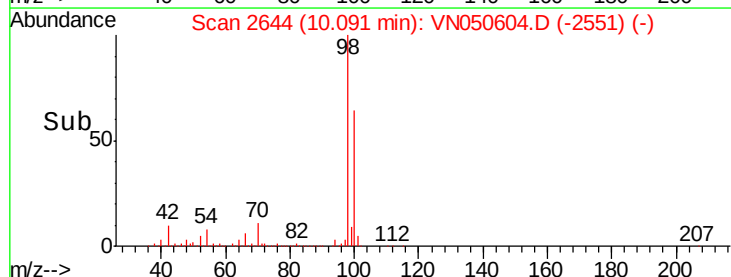
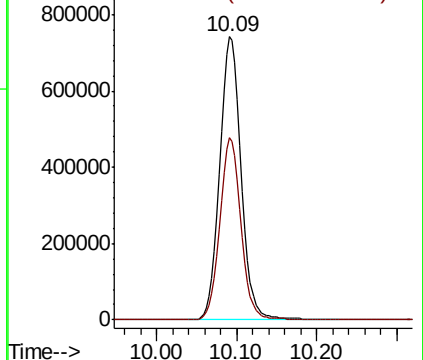
98 100

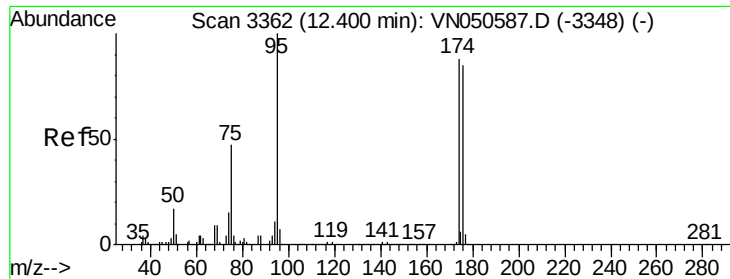
100 63.3 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 37.937 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-SV30518L

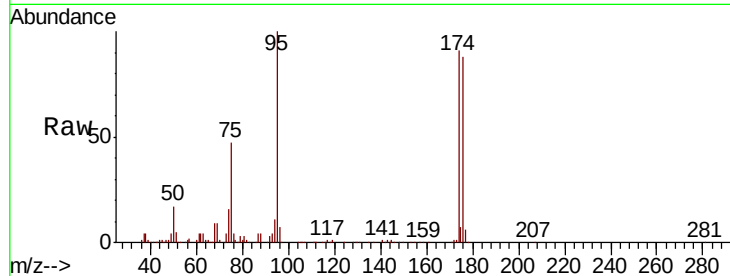
Tgt Ion: 95 Resp: 378288

Ion Ratio Lower Upper

95 100

174 91.5 0.0 177.8

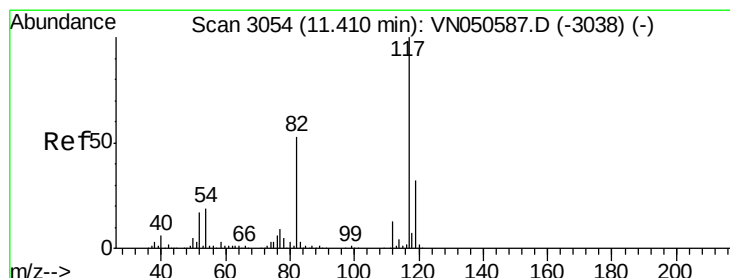
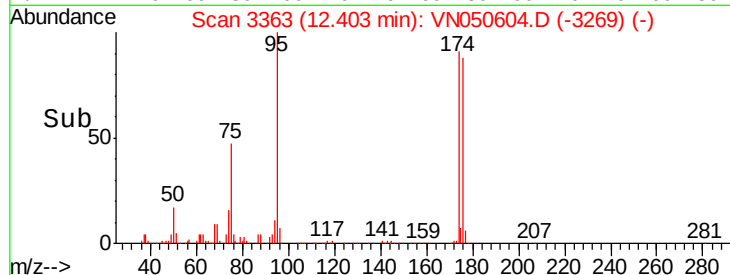
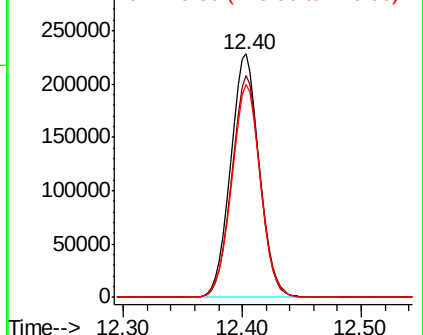
176 87.8 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050587.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050587.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3053

Delta R.T. -0.00 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

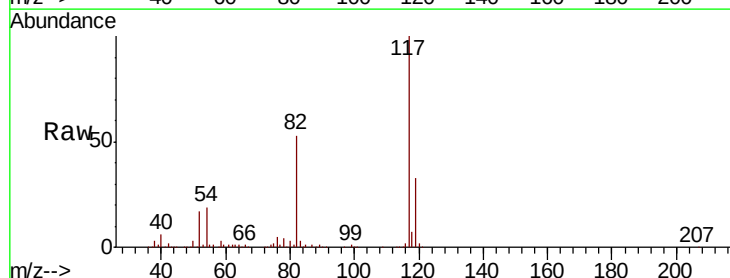
Tgt Ion: 117 Resp: 840015

Ion Ratio Lower Upper

117 100

82 53.5 42.4 63.6

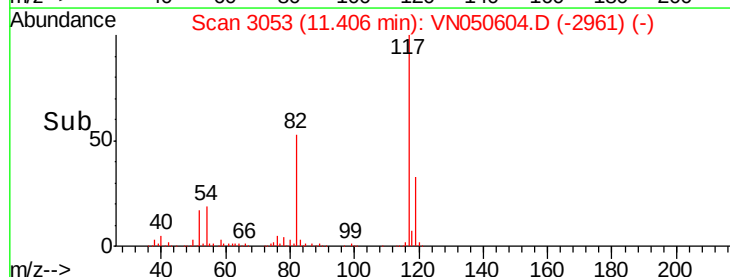
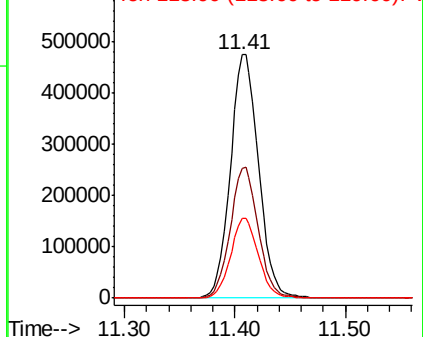
119 32.6 25.8 38.8

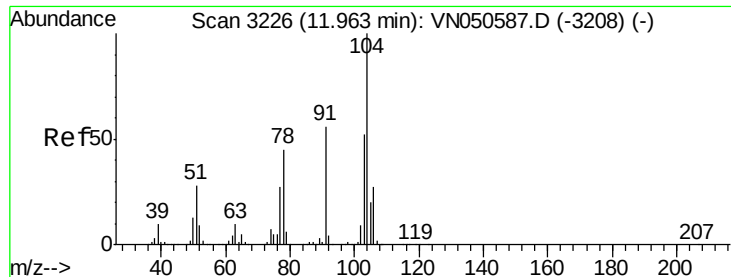


Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050587.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050587.D (-3038) (-)





#70

Styrene

Concen: 0.943 ug/l

RT: 11.97 min Scan# 3229

Delta R.T. 0.01 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-SV30518L

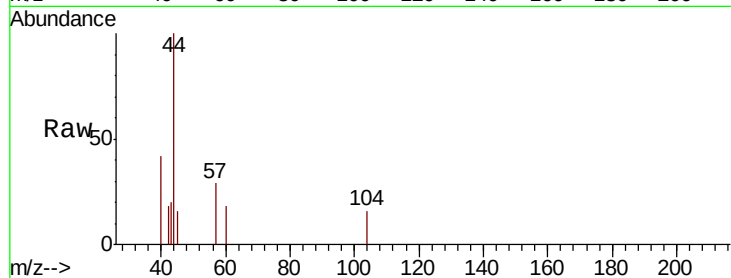
Tgt Ion:104 Resp: 62

Ion Ratio Lower Upper

104 100

78 0.0 39.1 58.7#

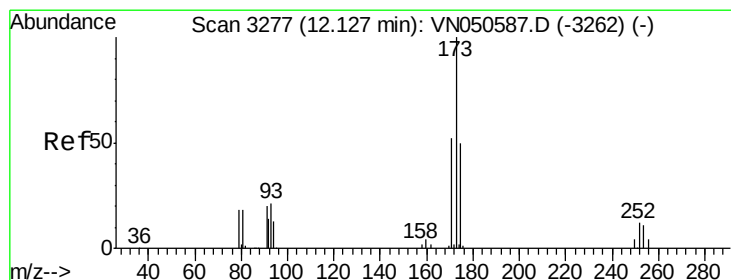
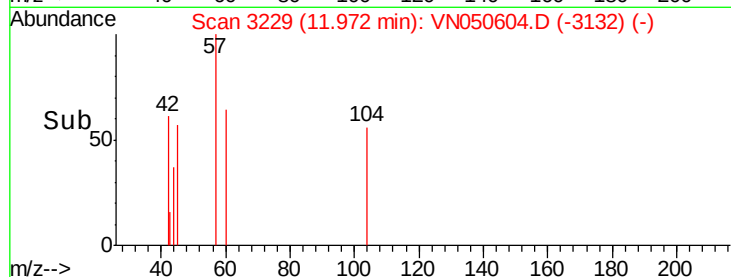
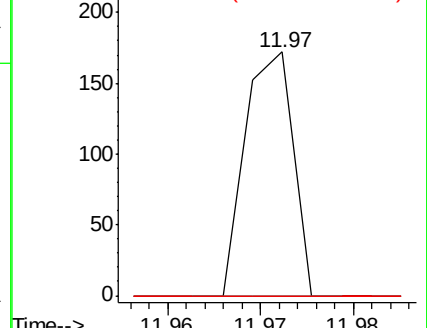
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.704 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

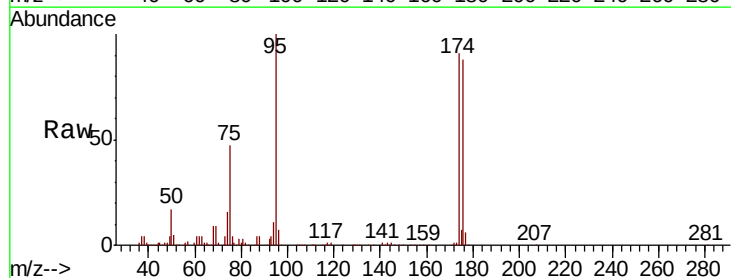
Tgt Ion:173 Resp: 3656

Ion Ratio Lower Upper

173 100

175 580.7 24.4 73.2#

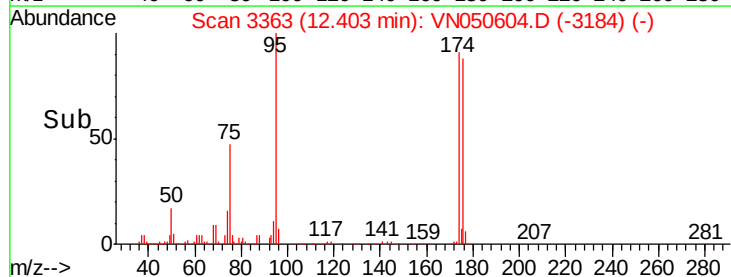
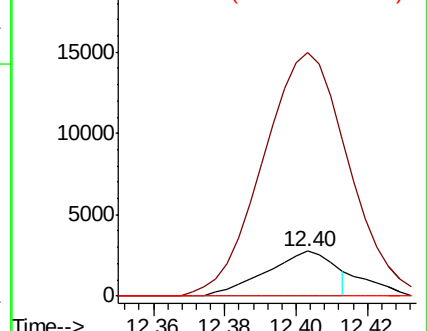
254 0.0 0.0 0.0

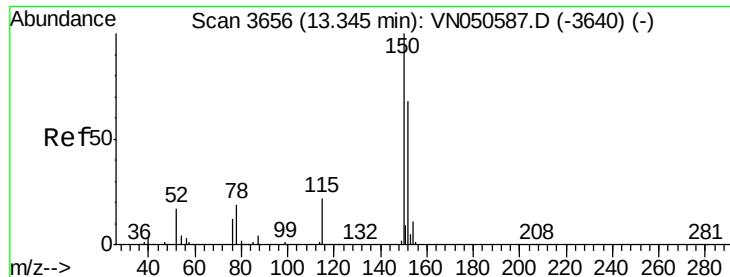


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-SV30518L

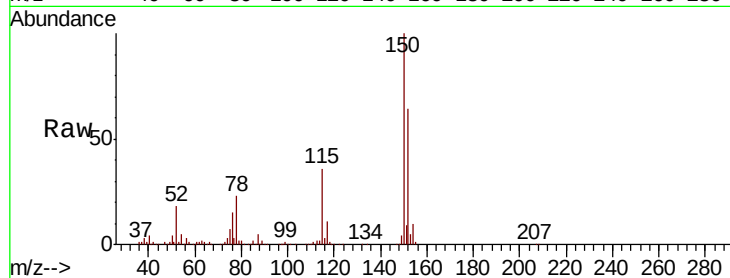
Tgt Ion:152 Resp: 313880

Ion Ratio Lower Upper

152 100

115 56.0 28.1 84.2

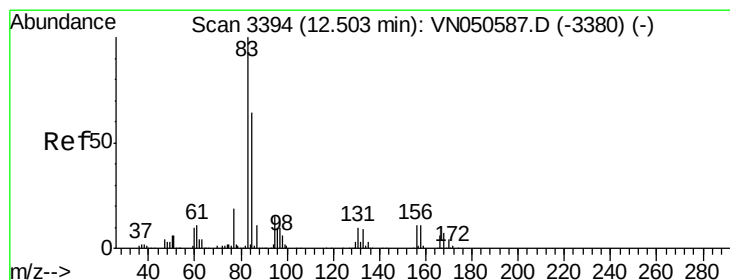
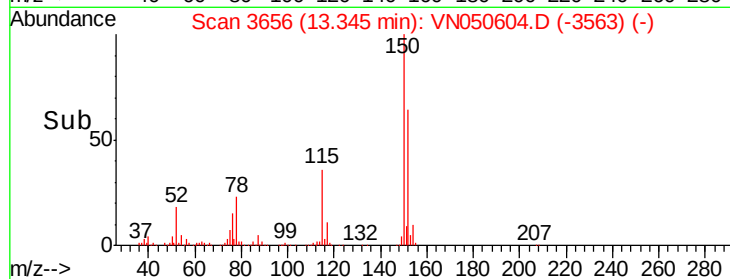
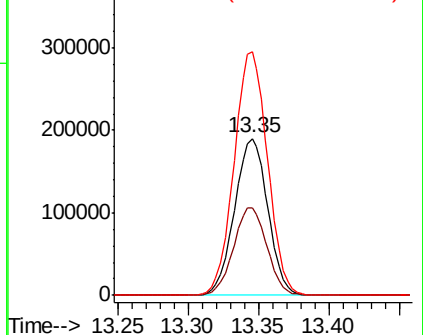
150 156.1 0.0 347.8



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: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

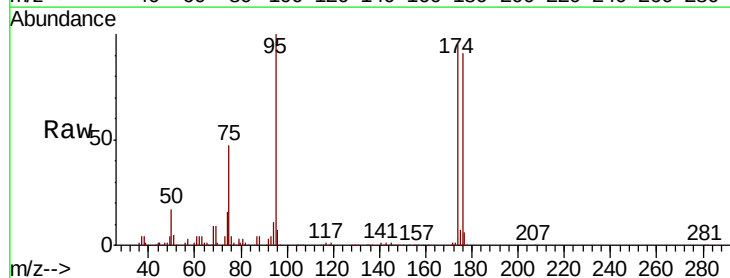
Tgt Ion: 83 Resp: 192

Ion Ratio Lower Upper

83 100

131 175.5 5.3 15.9#

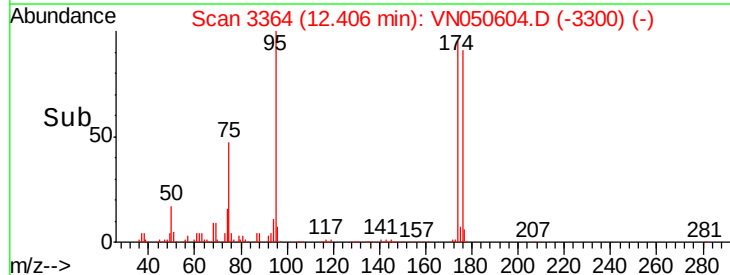
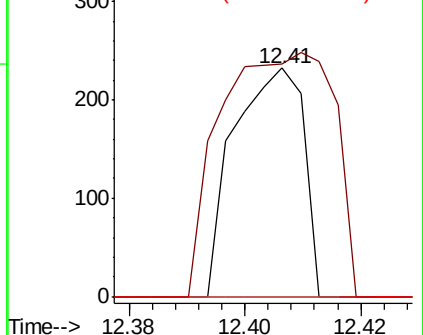
85 0.0 32.1 96.5#

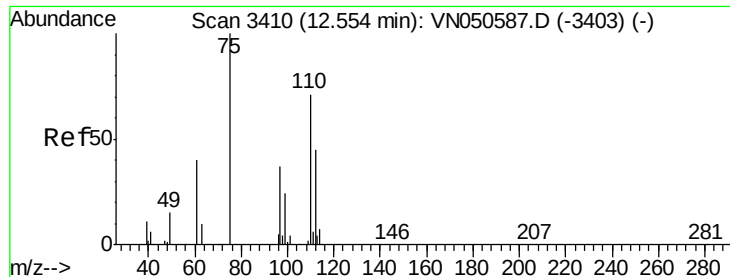


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.150 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

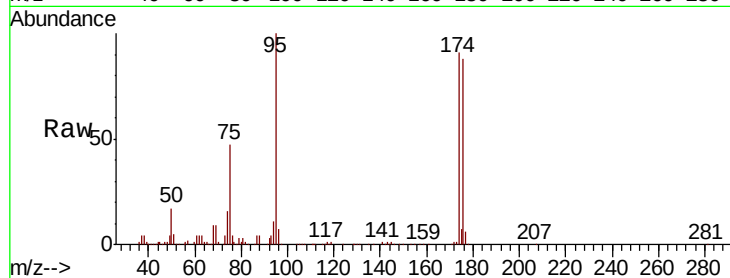
FRAC-TANK-SV30518L

Tgt Ion: 75 Resp: 179800

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

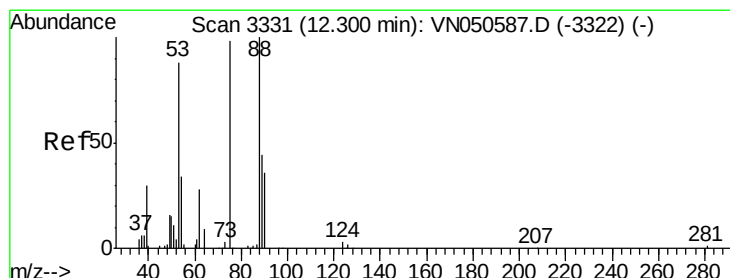
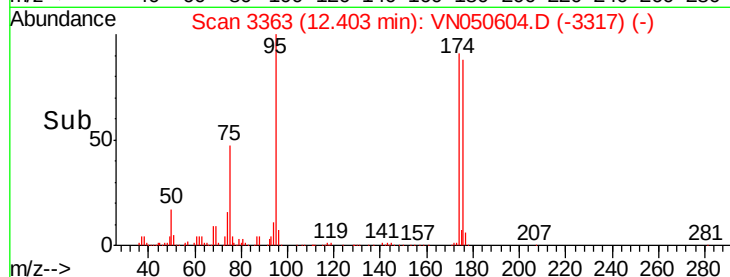
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 127.352 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050604.D

Acq: 14 Aug 2018 16:00

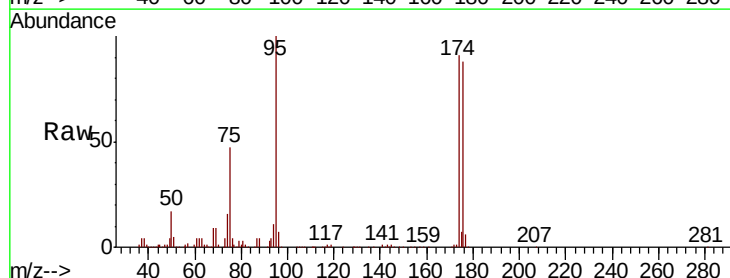
Tgt Ion: 75 Resp: 179800

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

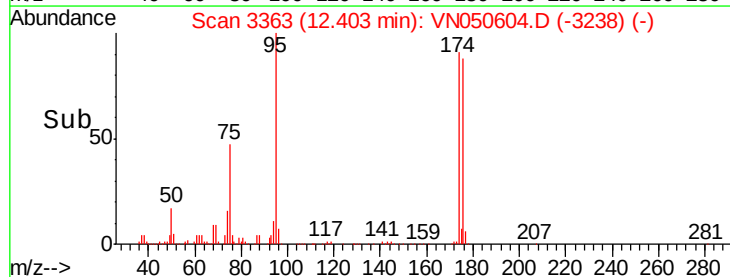
Ion 88.90 (88.60 to 89.60): VN0

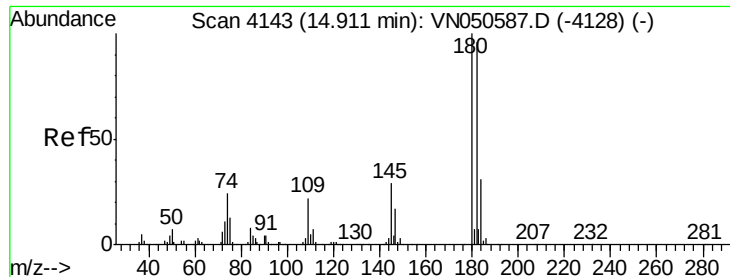
100000

50000

0

Time-->

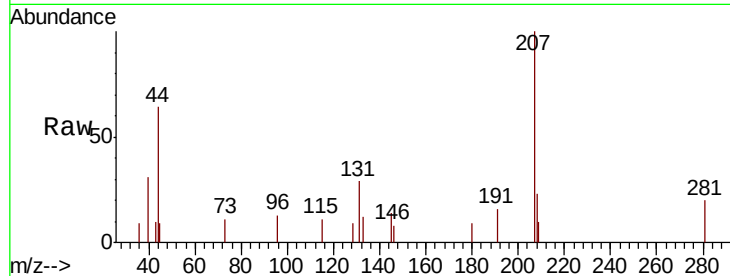




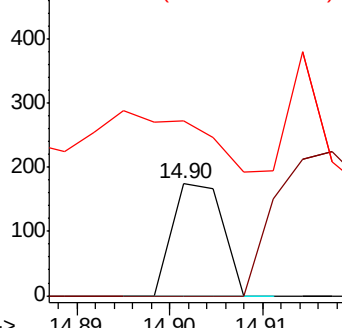
#93
 1,2,4-Trichlorobenzene
 Concen: 2.685 ug/l
 RT: 14.90 min Scan# 4140
 Delta R.T. -0.01 min
 Lab File: VN050604.D
 Acq: 14 Aug 2018 16:00

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-SV30518L

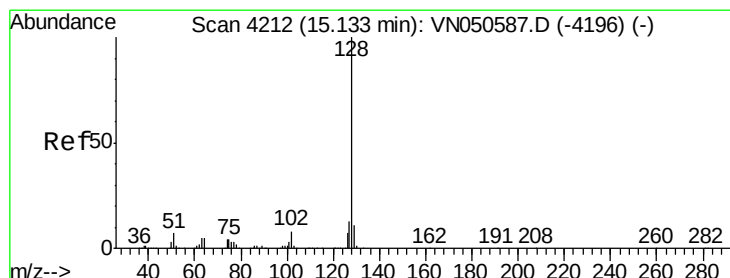
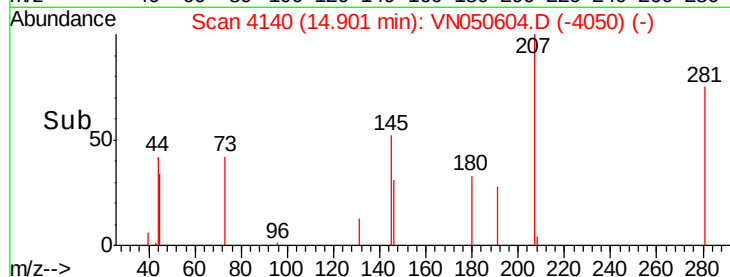
Tgt Ion:180 Resp: 66
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.7#
 145 692.4 14.4 43.4#



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

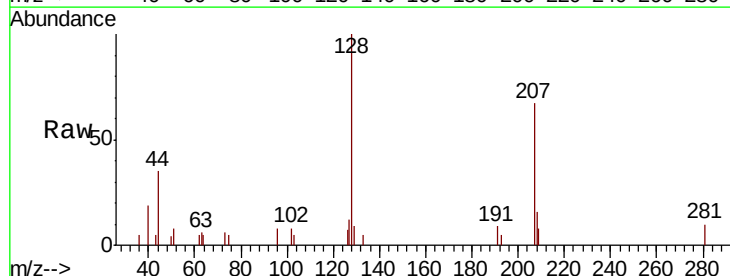


Time-->

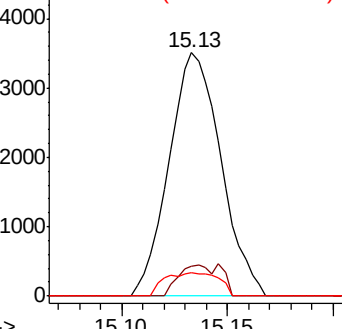


#95
 Naphthalene
 Concen: 4.318 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN050604.D
 Acq: 14 Aug 2018 16:00

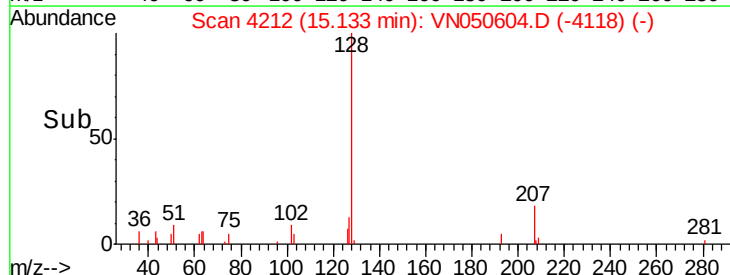
Tgt Ion:128 Resp: 5984
 Ion Ratio Lower Upper
 128 100
 127 10.6 10.3 15.5
 129 10.0 8.5 12.7

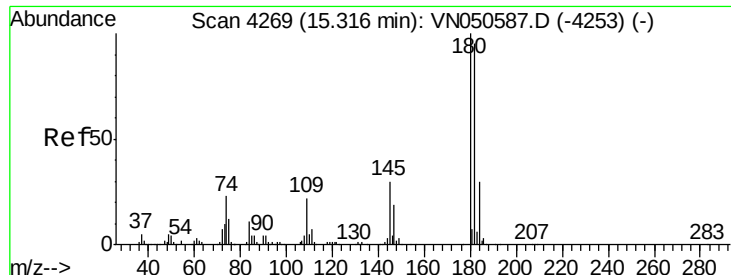


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 1.988 ug/l
 RT: 15.31 min Scan# 4268
 Delta R.T. -0.00 min
 Lab File: VN050604.D
 Acq: 14 Aug 2018 16:00

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-SV30518L

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.8	47.3	141.8
145	101.1	14.6	44.0

