

Data File : VN050700.D
Acq On : 16 Aug 2018 14:41
Operator : MD\SY
Sample : J4502-03DL 50X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BROWN-FRAC-TANKDL

Quant Time: Aug 17 03:03:10 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	629479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1026926	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	849159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	305023	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	427519	53.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.76%	
35) Dibromofluoromethane	7.59	113	401312	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
50) Toluene-d8	10.09	98	1393271	45.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.30%	
62) 4-Bromofluorobenzene	12.40	95	372355	36.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.06%	

Target Compounds

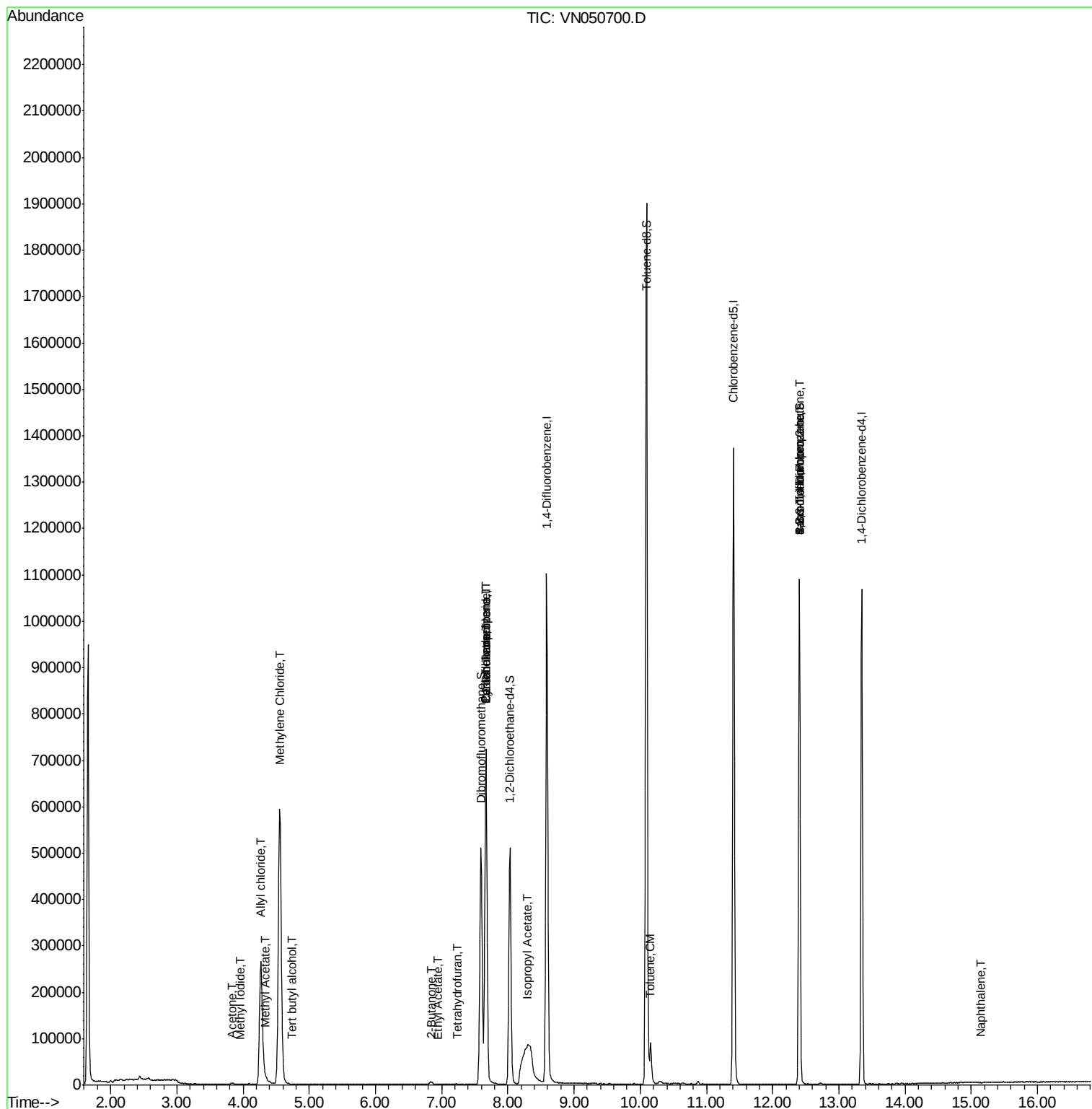
						Qvalue
3) Chloromethane	2.06	50	2336	Below Cal		99
5) Bromomethane	2.57	94	2704	Below Cal	#	76
6) Chloroethane	2.71	64	207	Below Cal	#	43
10) Methyl Iodide	3.96	142	683	7.059	ug/l #	42
11) Tert butyl alcohol	4.75	59	161	0.372	ug/l #	72
14) Allyl chloride	4.27	41	466403	43.900	ug/l #	41
16) Acetone	3.83	43	5246	1.205	ug/l	99
18) Methyl Acetate	4.34	43	8253	0.496	ug/l	96
20) Methylene Chloride	4.55	84	483152	64.431	ug/l	98
25) 2-Butanone	6.86	43	666	0.205	ug/l #	48
29) Tetrahydrofuran	7.23	42	1007	0.593	ug/l #	37
31) Cyclohexane	7.67	56	11372	0.604	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43002	3.762	ug/l #	48
37) Ethyl Acetate	6.94	43	1731	0.268	ug/l #	67
38) Carbon Tetrachloride	7.67	117	57093	4.814	ug/l #	17
43) Isopropyl Acetate	8.31	43	286019	24.288	ug/l #	60
52) Toluene	10.16	92	32420	1.561	ug/l	99
71) Bromoform	12.40	173	3567	0.679	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	104	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	179398	36.118	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179398	130.757	ug/l #	13
95) Naphthalene	15.14	128	169	3.874	ug/l #	69

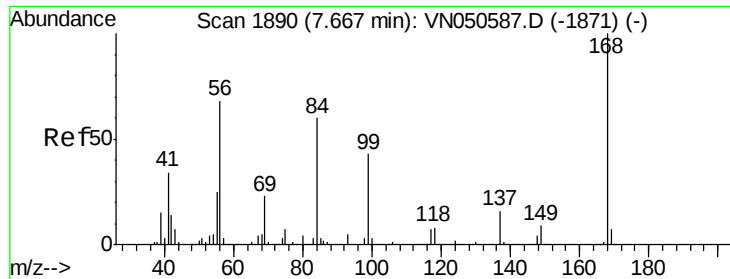
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

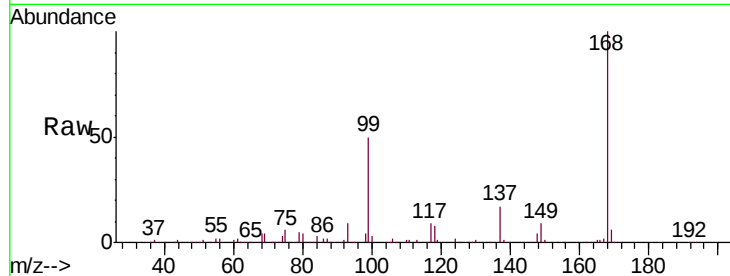
BROWN-FRAC-TANKDL

Tgt Ion:168 Resp: 629479

Ion Ratio Lower Upper

168 100

99 50.1 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

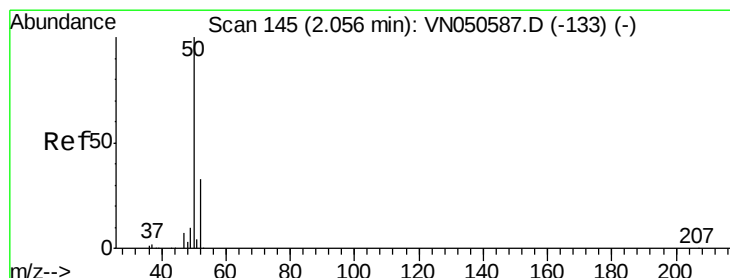
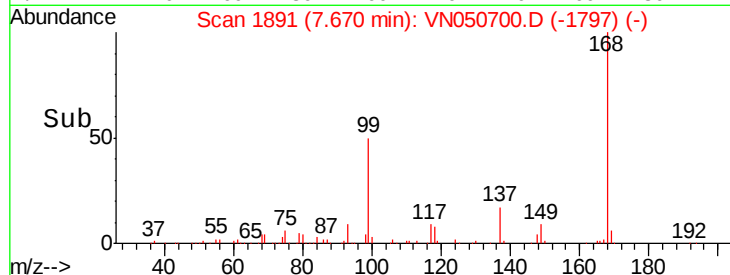
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050700.D

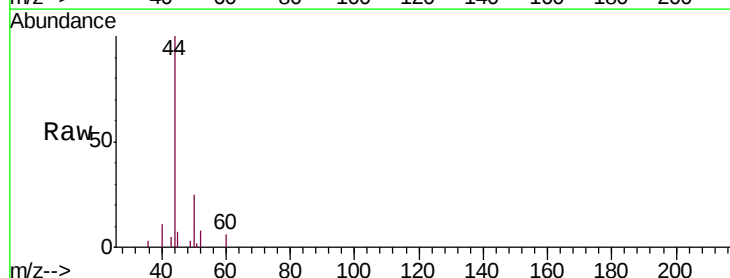
Acq: 16 Aug 2018 14:41

Tgt Ion: 50 Resp: 2336

Ion Ratio Lower Upper

50 100

52 31.7 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN050587.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050587.D (-133) (-)

2.06

2000

1500

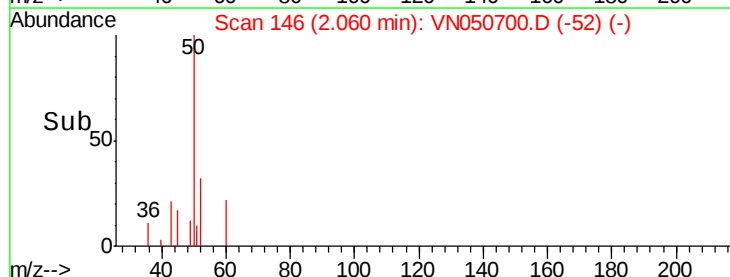
1000

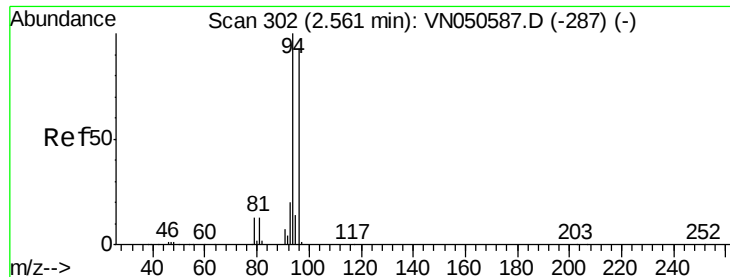
500

0

2.02 2.04 2.06 2.08 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

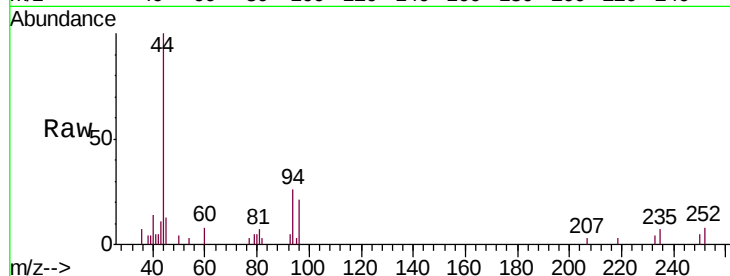
BROWN-FRAC-TANKDL

Tgt Ion: 94 Resp: 2704

Ion Ratio Lower Upper

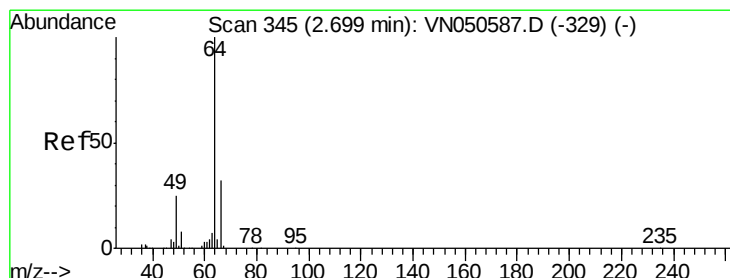
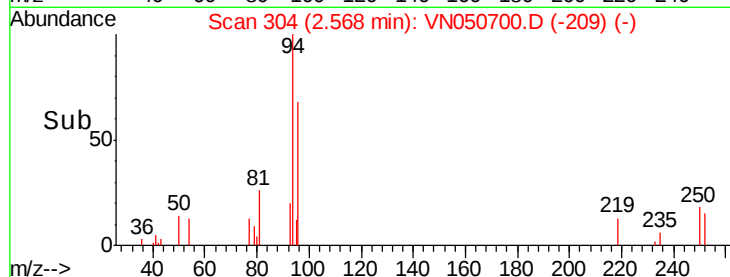
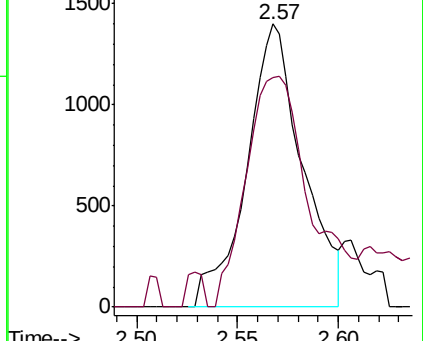
94 100

96 69.7 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VN050700.D

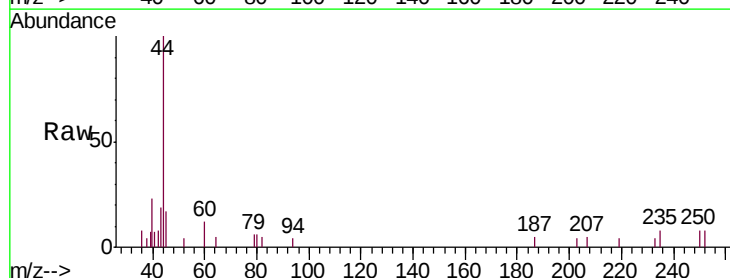
Acq: 16 Aug 2018 14:41

Tgt Ion: 64 Resp: 207

Ion Ratio Lower Upper

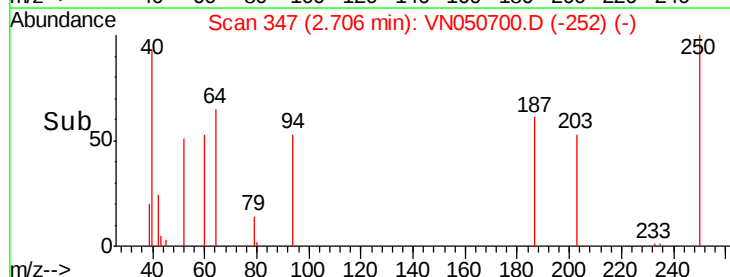
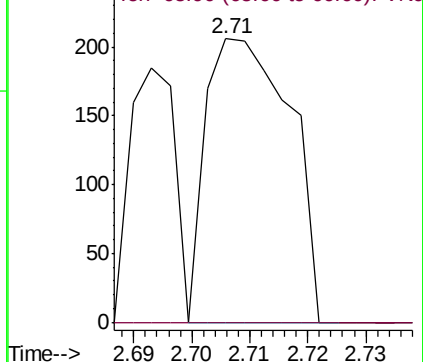
64 100

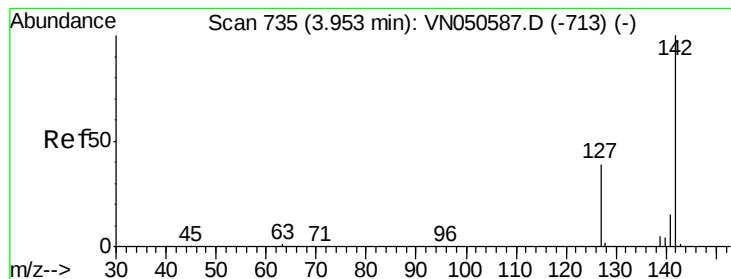
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#10

Methyl Iodide

Concen: 7.059 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

BROWN-FRAC-TANKDL

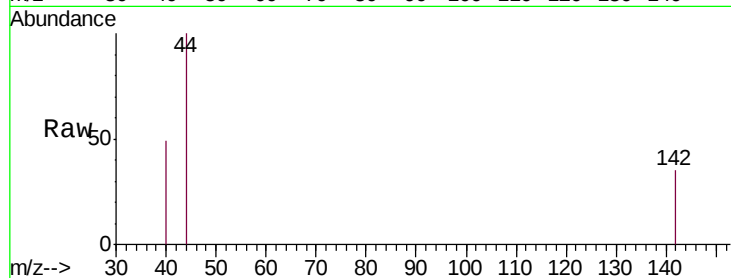
Tgt Ion:142 Resp: 683

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

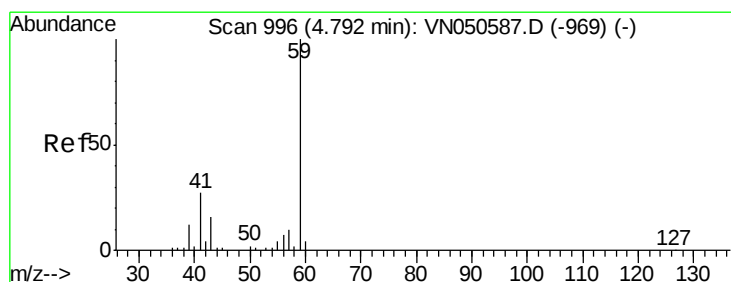
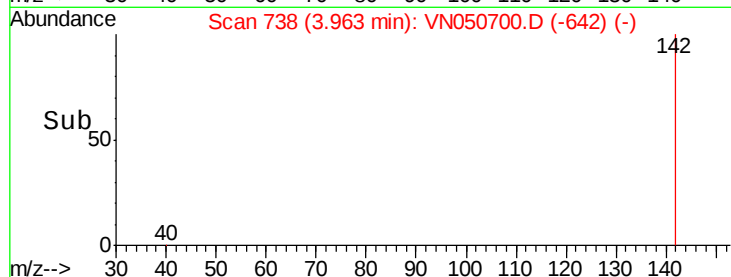
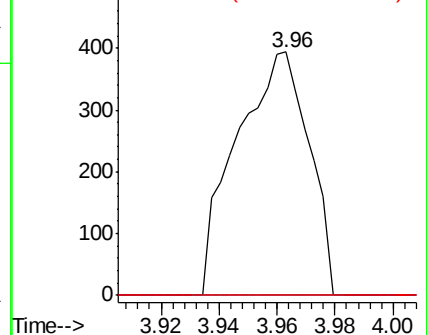
141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.372 ug/l

RT: 4.75 min Scan# 983

Delta R.T. -0.04 min

Lab File: VN050700.D

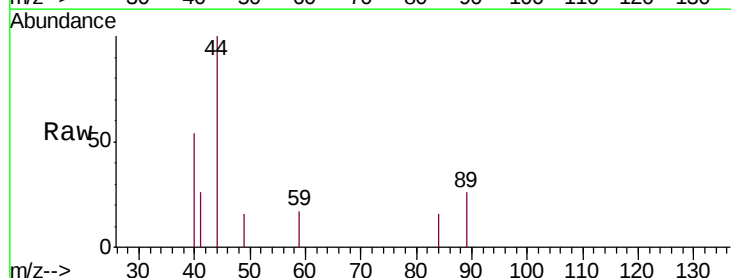
Acq: 16 Aug 2018 14:41

Tgt Ion: 59 Resp: 161

Ion Ratio Lower Upper

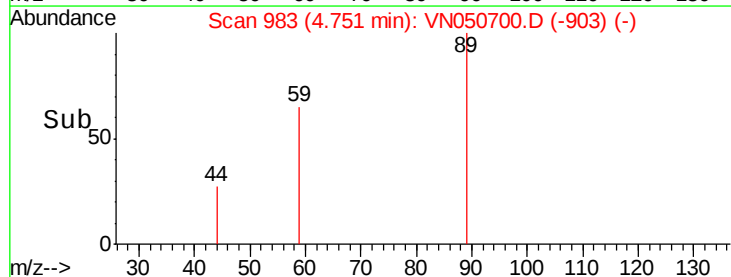
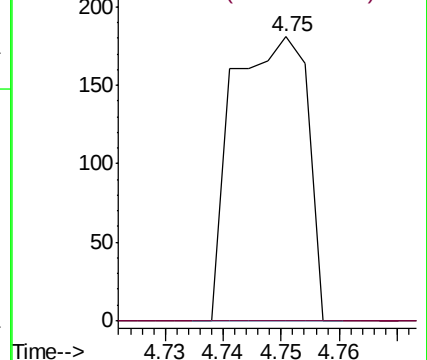
59 100

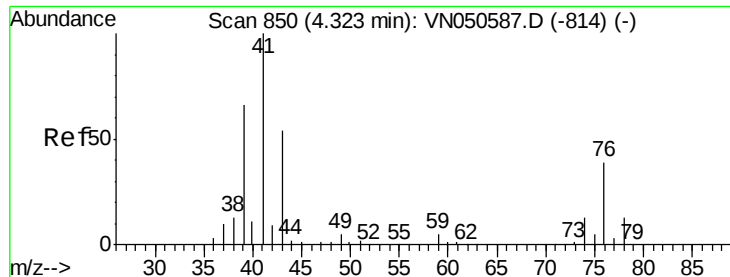
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): V

Ion 57.00 (56.70 to 57.70): V

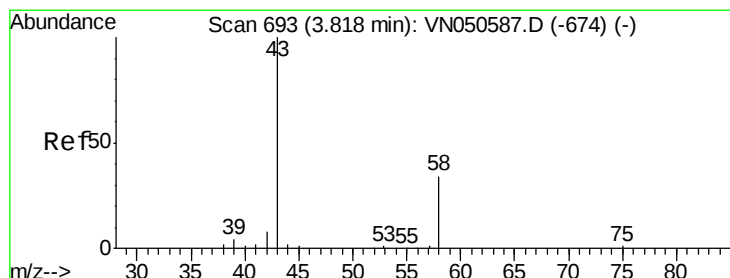
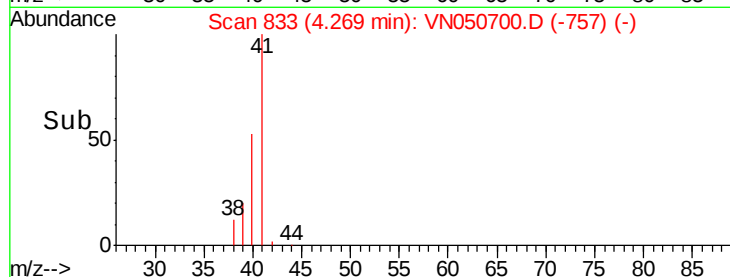
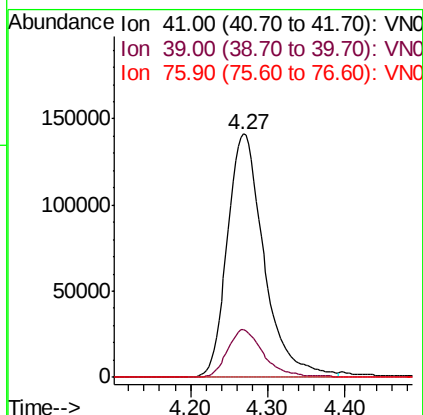
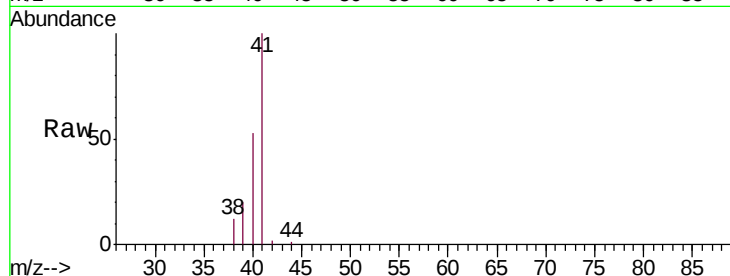




#14
 Allyl chloride
 Concen: 43.900 ug/l
 RT: 4.27 min Scan# 833
 Delta R.T. -0.05 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

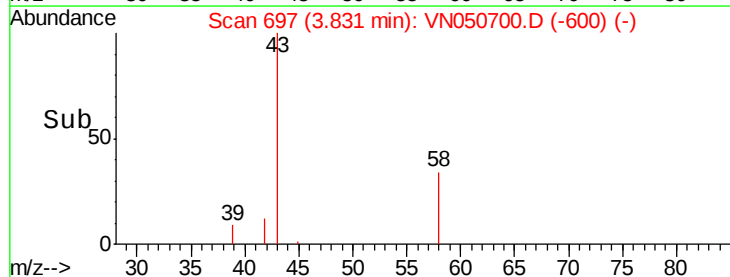
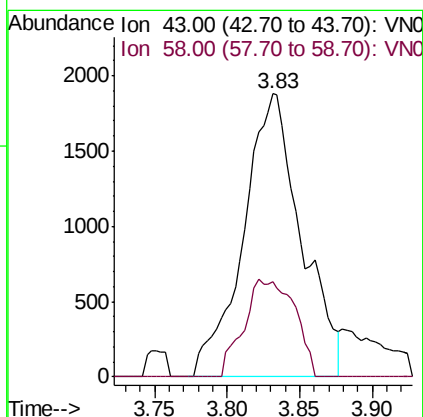
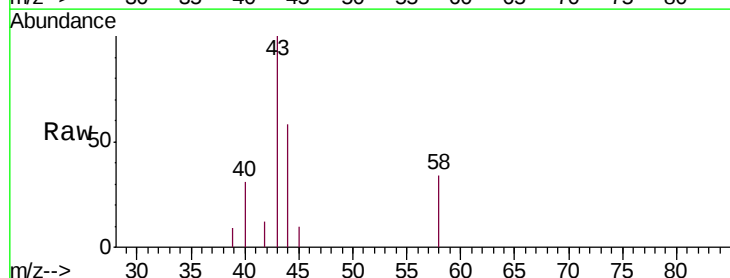
Instrument :
 MSVOA_N
 ClientSampleId :
 BROWN-FRAC-TANKDL

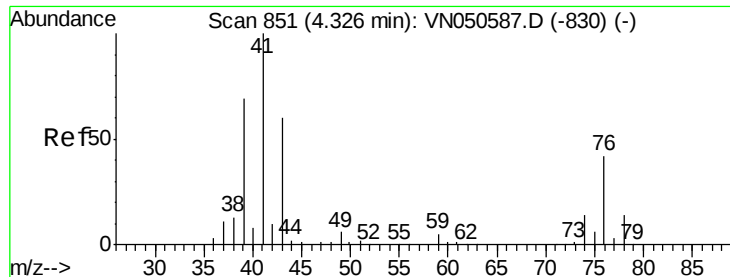
Tgt Ion: 41 Resp: 466403
 Ion Ratio Lower Upper
 41 100
 39 19.5 51.4 77.0#
 76 0.0 29.4 44.0#



#16
 Acetone
 Concen: 1.205 ug/l
 RT: 3.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

Tgt Ion: 43 Resp: 5246
 Ion Ratio Lower Upper
 43 100
 58 33.6 27.1 40.7

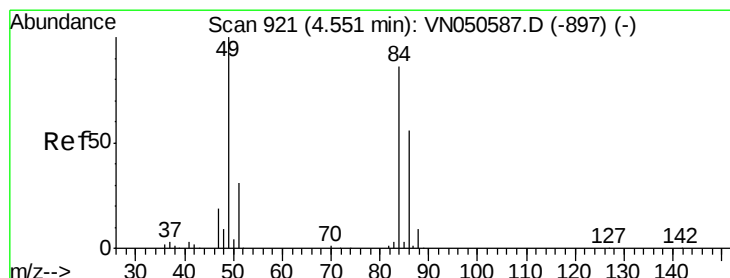
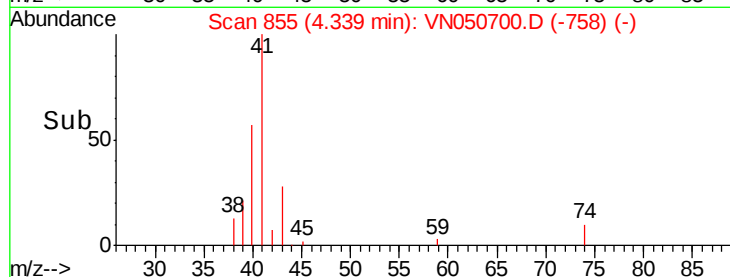
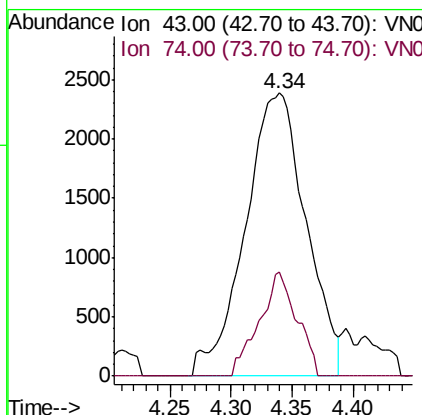
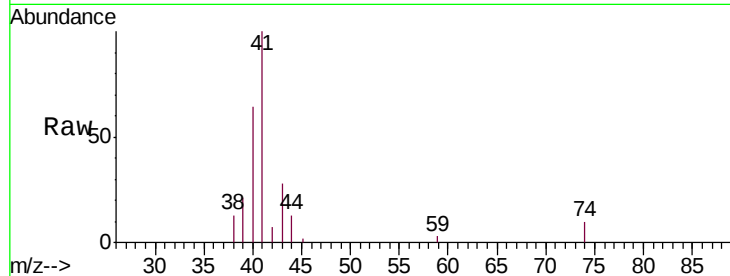




#18
Methyl Acetate
Concen: 0.496 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050700.D
Acq: 16 Aug 2018 14:41

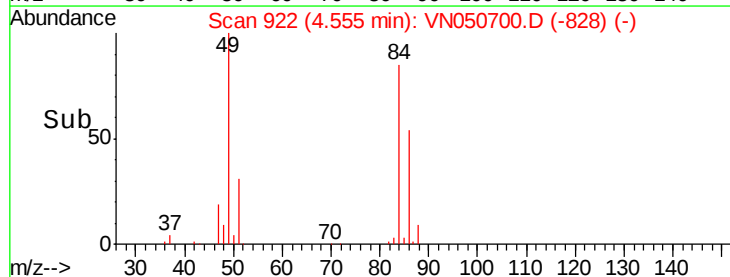
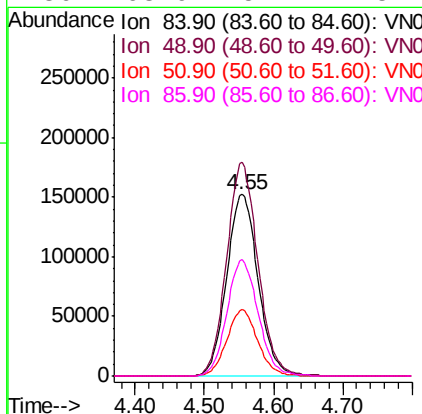
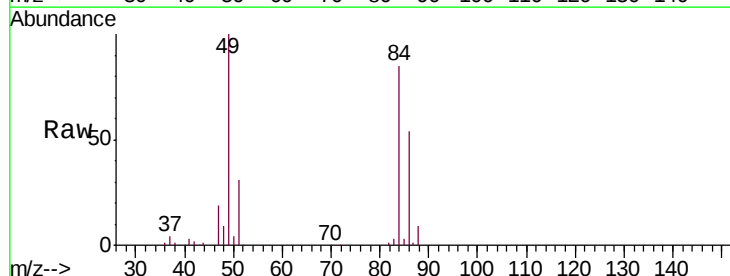
Instrument :
MSVOA_N
ClientSampleId :
BROWN-FRAC-TANKDL

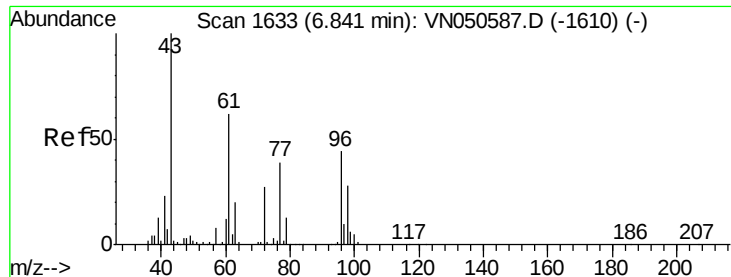
Tgt Ion: 43 Resp: 8253
Ion Ratio Lower Upper
43 100
74 22.8 19.7 29.5



#20
Methylene Chloride
Concen: 64.431 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050700.D
Acq: 16 Aug 2018 14:41

Tgt Ion: 84 Resp: 483152
Ion Ratio Lower Upper
84 100
49 117.5 92.6 138.8
51 36.4 28.6 43.0
86 63.9 52.2 78.2





#25

2-Butanone

Concen: 0.205 ug/l

RT: 6.86 min Scan# 1638

Delta R.T. 0.02 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

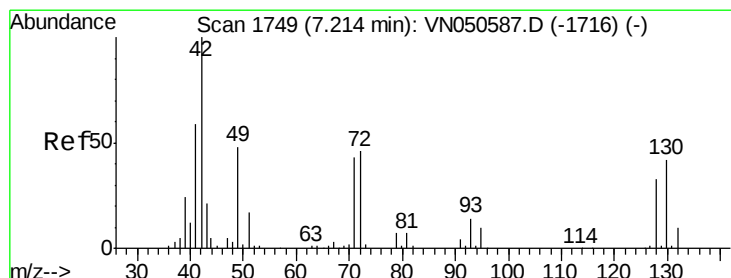
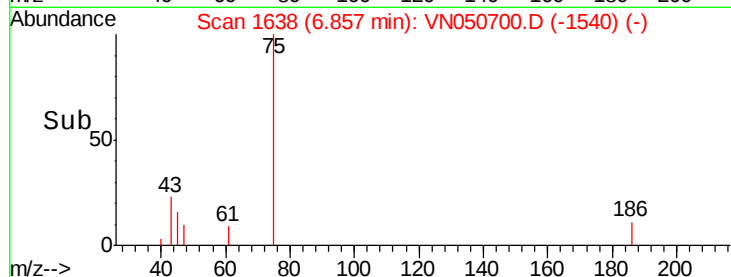
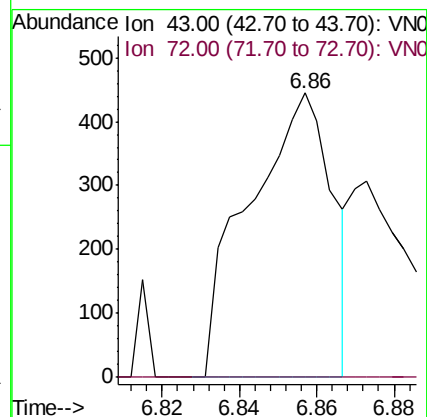
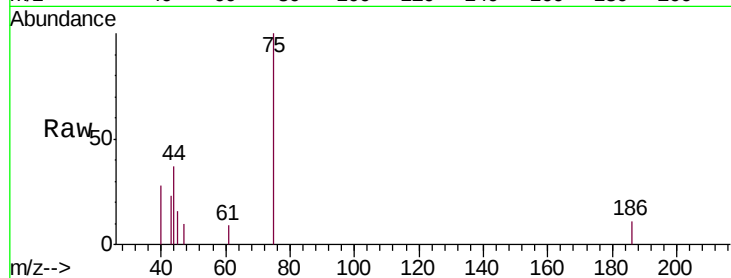
BROWN-FRAC-TANKDL

Tgt Ion: 43 Resp: 666

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.6#



#29

Tetrahydrofuran

Concen: 0.593 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.02 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

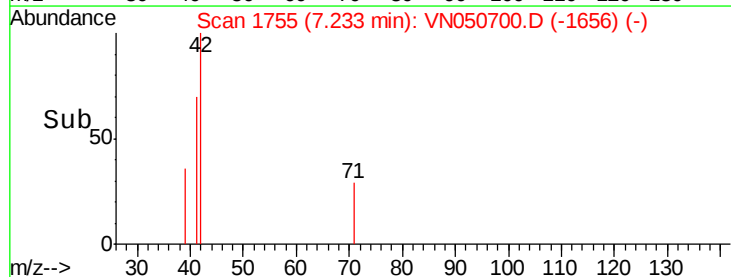
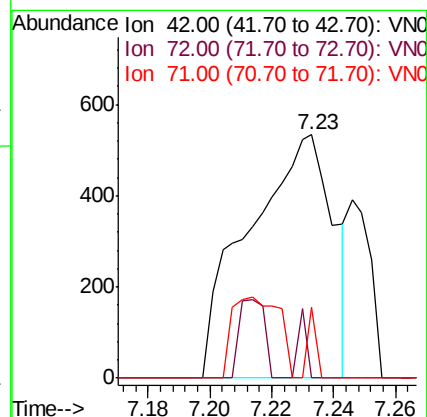
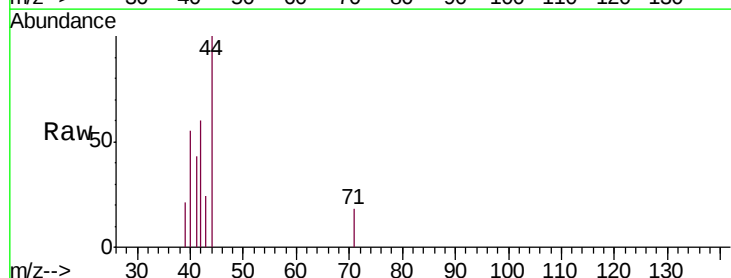
Tgt Ion: 42 Resp: 1007

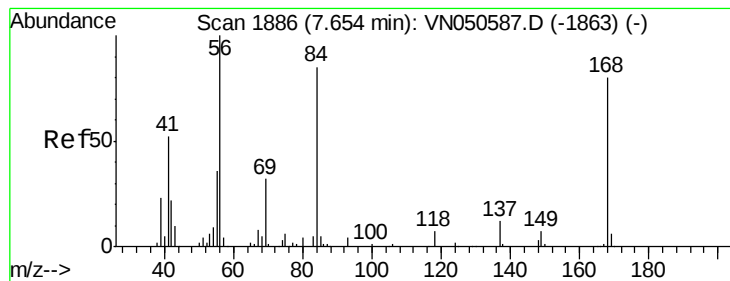
Ion Ratio Lower Upper

42 100

72 3.0 35.8 53.6#

71 3.0 33.4 50.0#





#31

Cyclohexane

Concen: 0.604 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

BROWN-FRAC-TANKDL

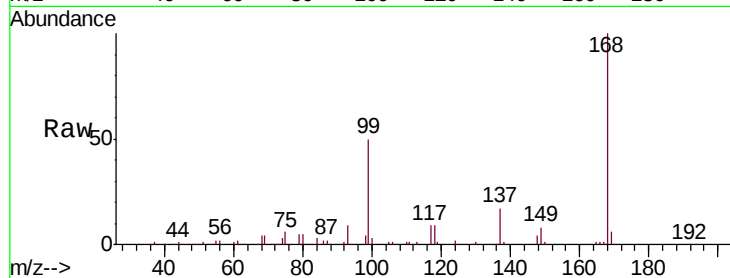
Tgt Ion: 56 Resp: 11372

Ion Ratio Lower Upper

56 100

69 209.6 25.8 38.6#

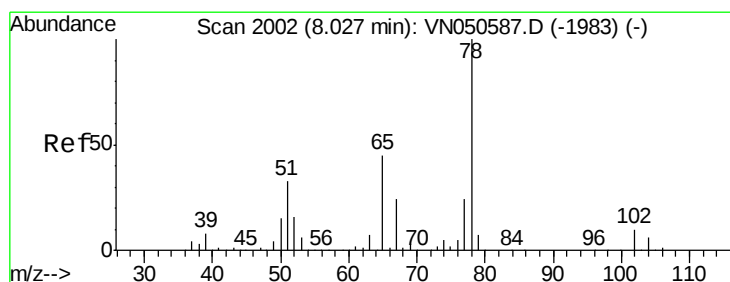
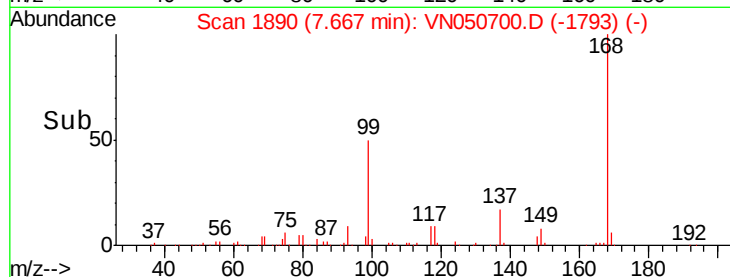
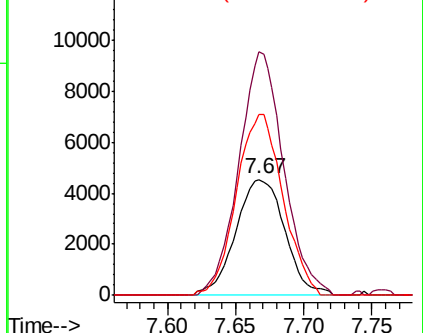
84 155.6 67.8 101.6#



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: 53.880 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050700.D

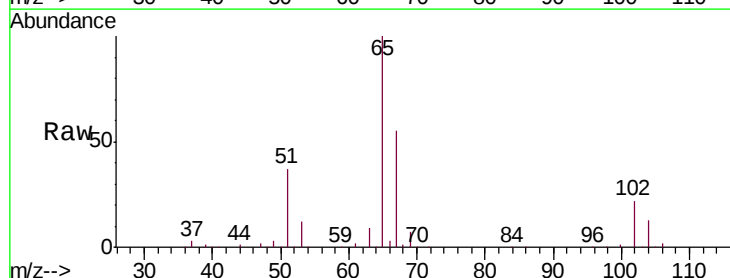
Acq: 16 Aug 2018 14:41

Tgt Ion: 65 Resp: 427519

Ion Ratio Lower Upper

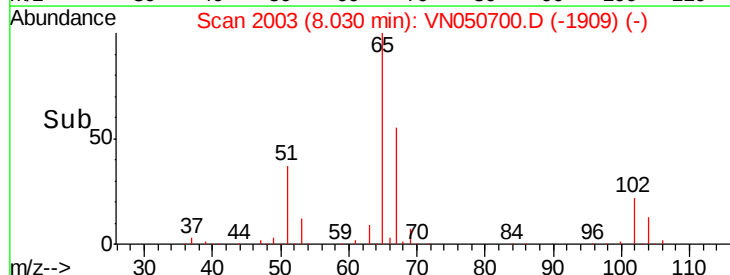
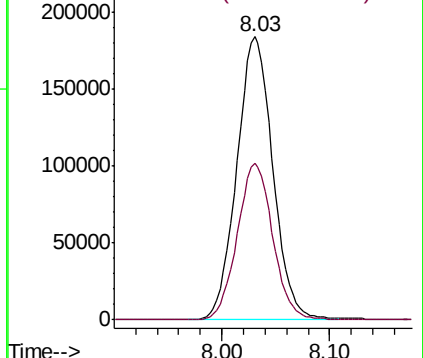
65 100

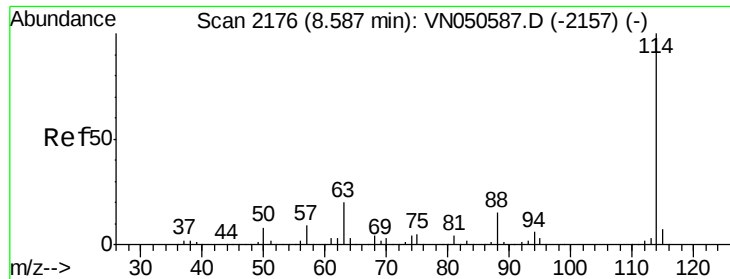
67 54.9 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

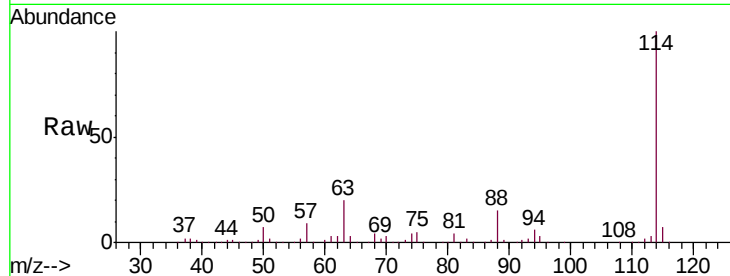




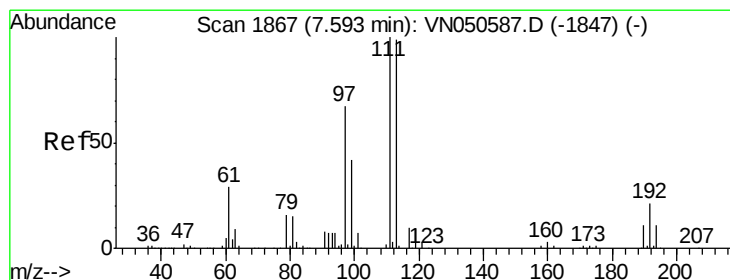
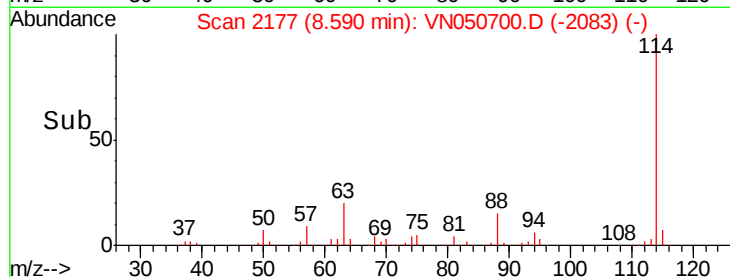
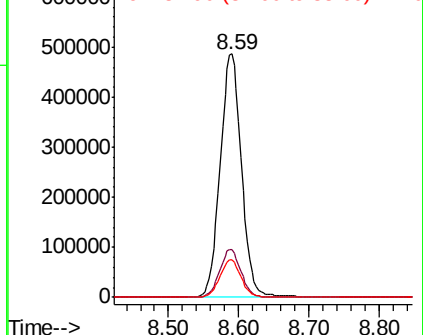
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 BROWN-FRAC-TANKDL

Tgt Ion:114 Resp: 1026926
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.4 0.0 30.8

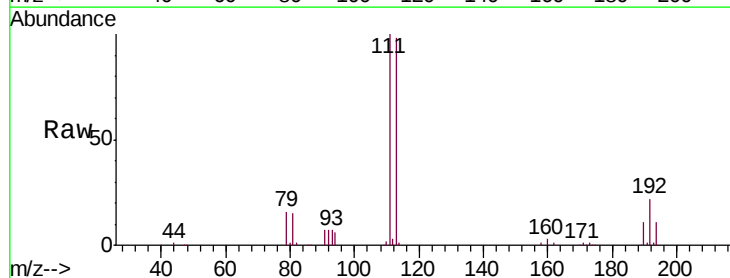


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

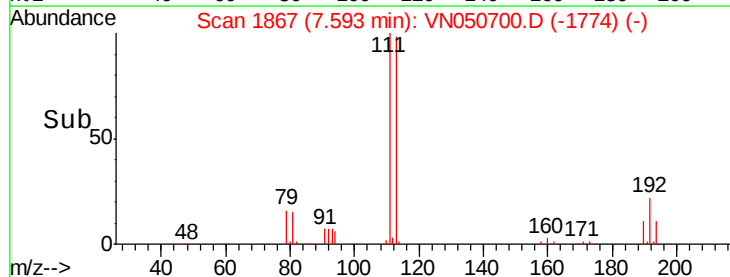
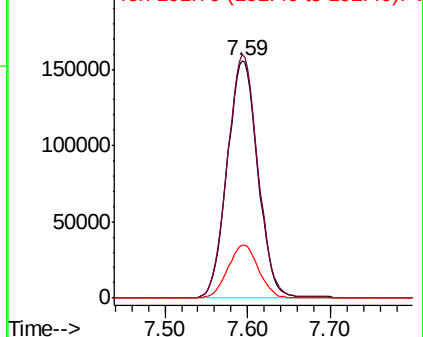


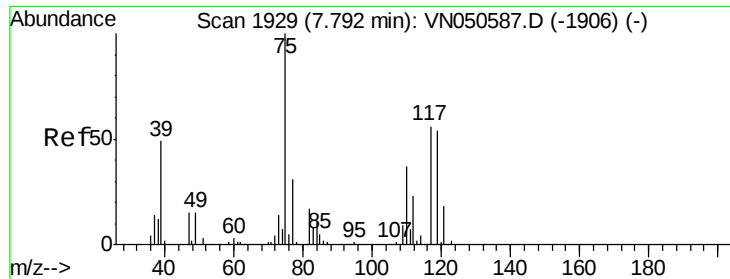
#35
 Dibromofluoromethane
 Concen: 48.949 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

Tgt Ion:113 Resp: 401312
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.0 121.6
 192 22.5 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: 3.762 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

BROWN-FRAC-TANKDL

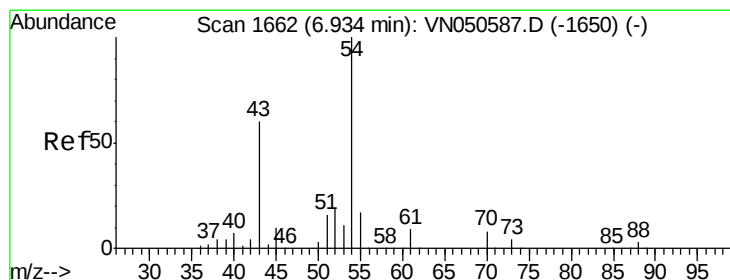
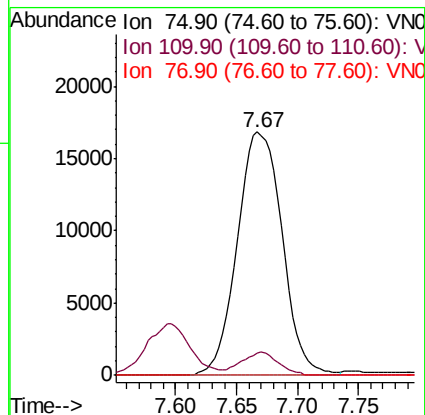
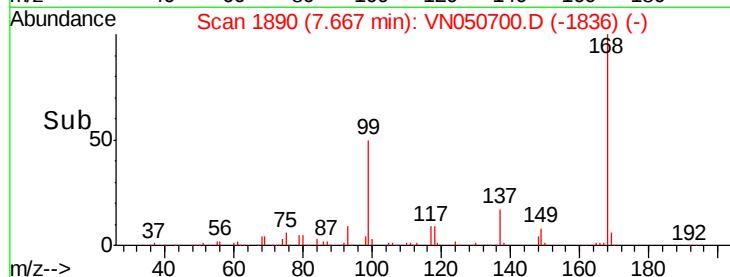
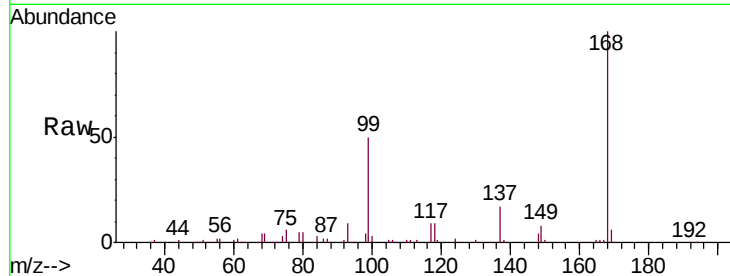
Tgt Ion: 75 Resp: 43002

Ion Ratio Lower Upper

75 100

110 7.8 18.3 54.9#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.268 ug/l

RT: 6.94 min Scan# 1663

Delta R.T. 0.00 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

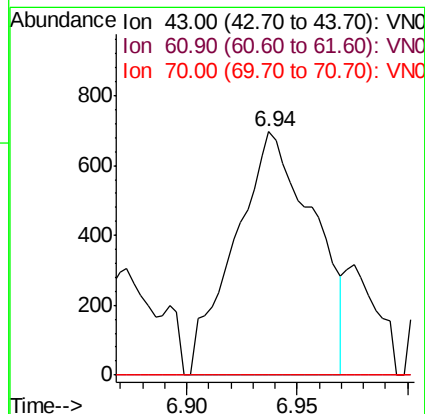
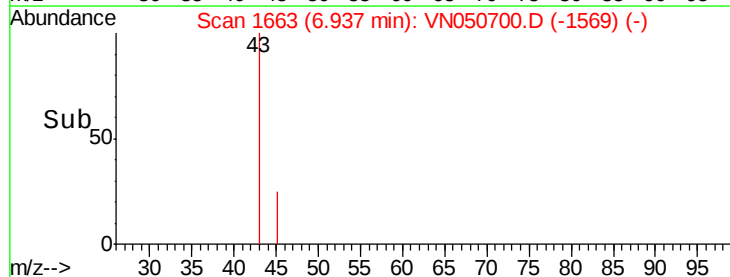
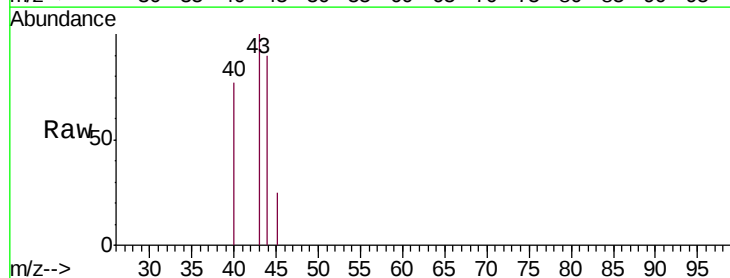
Tgt Ion: 43 Resp: 1731

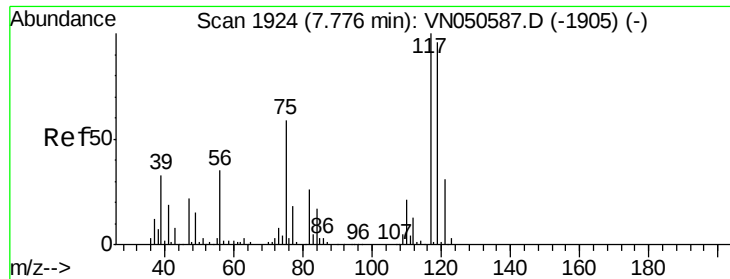
Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

70 0.0 8.5 12.7#

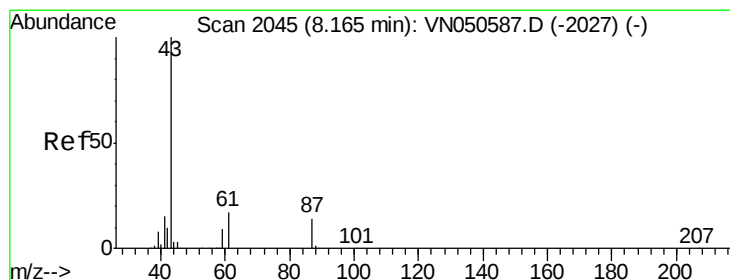
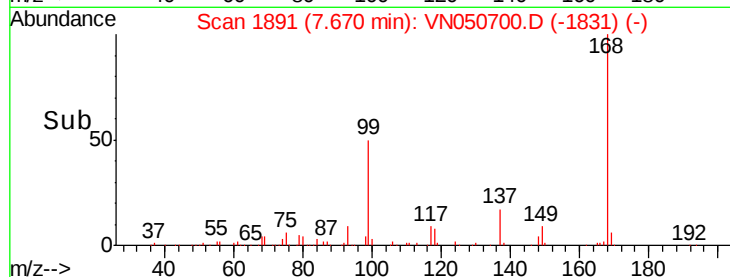
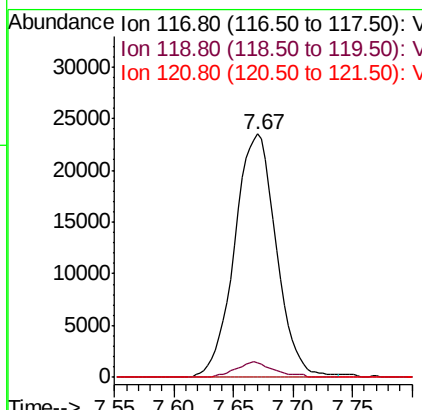
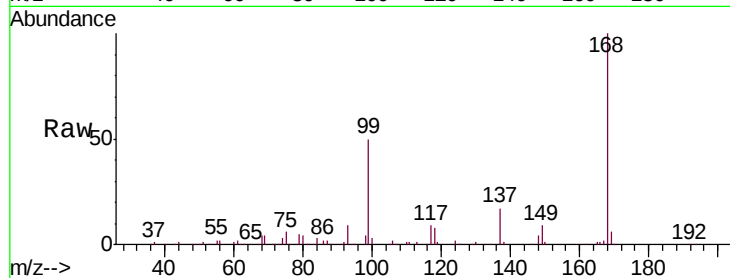




#38
 Carbon Tetrachloride
 Concen: 4.814 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

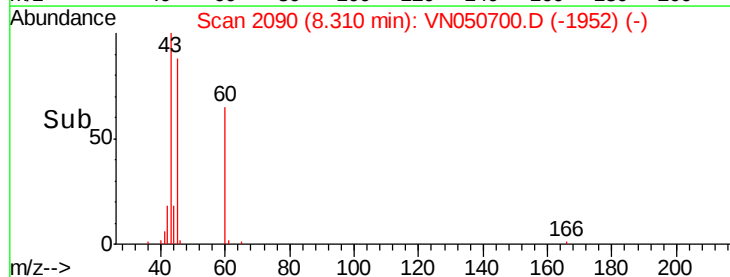
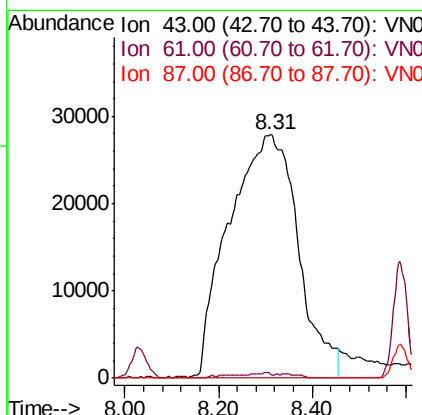
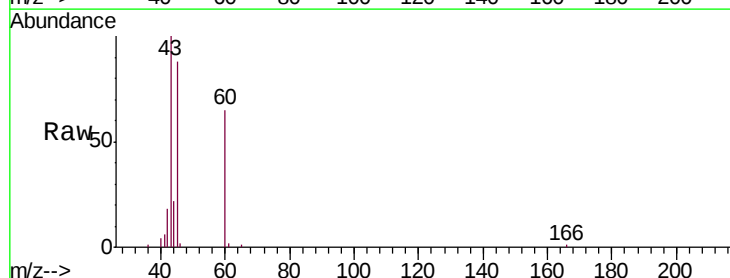
Instrument :
 MSVOA_N
 ClientSampleId :
 BROWN-FRAC-TANKDL

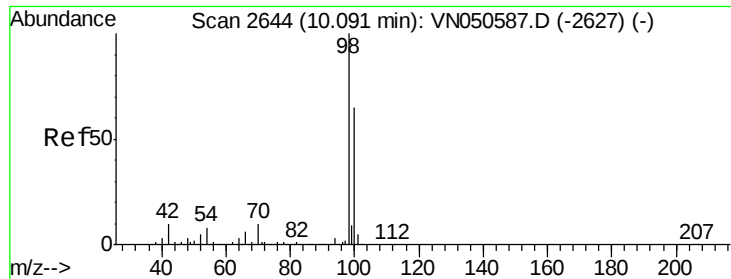
Tgt Ion: 117 Resp: 57093
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.6 115.0#
 121 0.0 25.0 37.6#



#43
 Isopropyl Acetate
 Concen: 24.288 ug/l
 RT: 8.31 min Scan# 2090
 Delta R.T. 0.14 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

Tgt Ion: 43 Resp: 286019
 Ion Ratio Lower Upper
 43 100
 61 0.1 16.2 24.2#
 87 0.0 10.9 16.3#

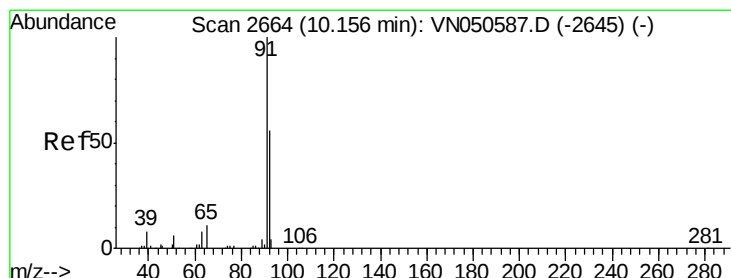
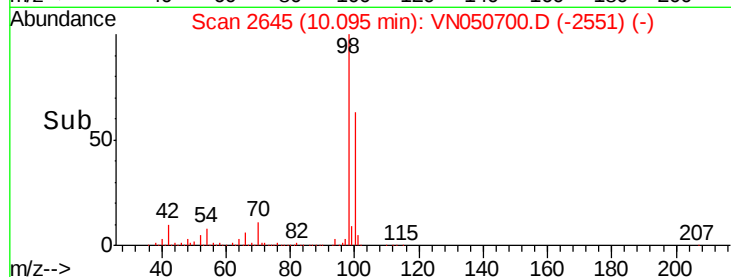
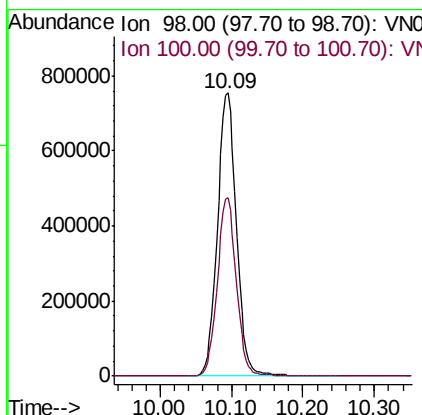
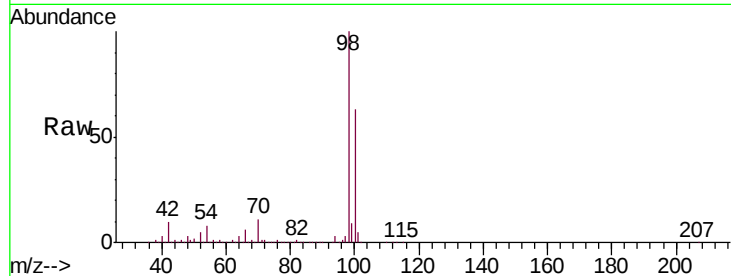




#50
Toluene-d8
Concen: 45.154 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050700.D
Acq: 16 Aug 2018 14:41

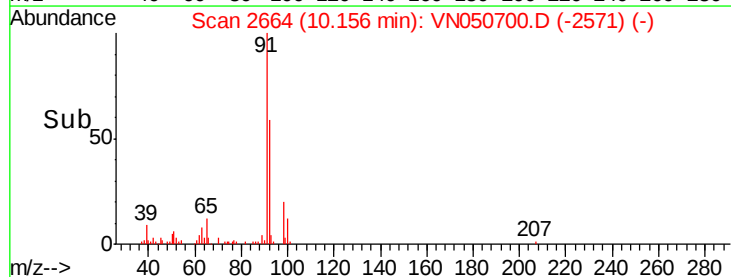
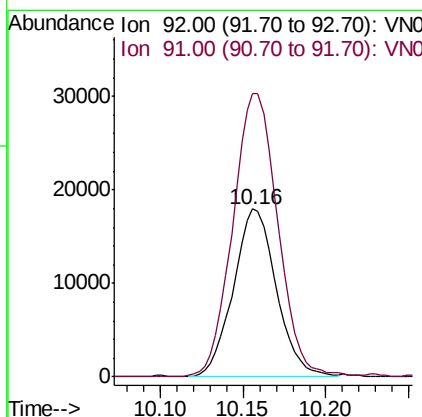
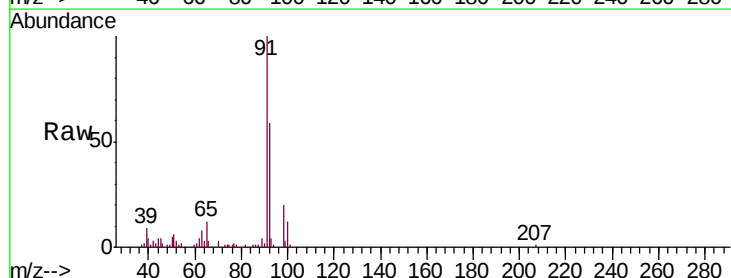
Instrument :
MSVOA_N
ClientSampleId :
BROWN-FRAC-TANKDL

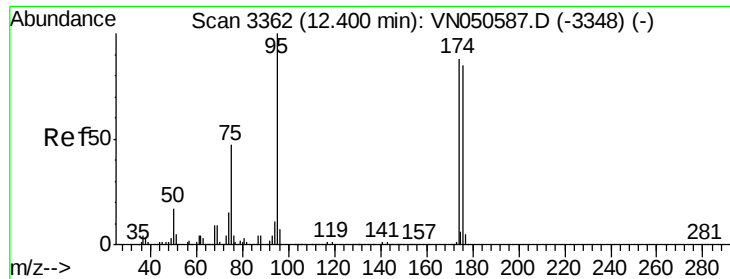
Tgt Ion: 98 Resp: 1393271
Ion Ratio Lower Upper
98 100
100 63.0 51.8 77.8



#52
Toluene
Concen: 1.561 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. 0.00 min
Lab File: VN050700.D
Acq: 16 Aug 2018 14:41

Tgt Ion: 92 Resp: 32420
Ion Ratio Lower Upper
92 100
91 176.7 141.9 212.9





#62

4-Bromofluorobenzene

Concen: 36.528 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

BROWN-FRAC-TANKDL

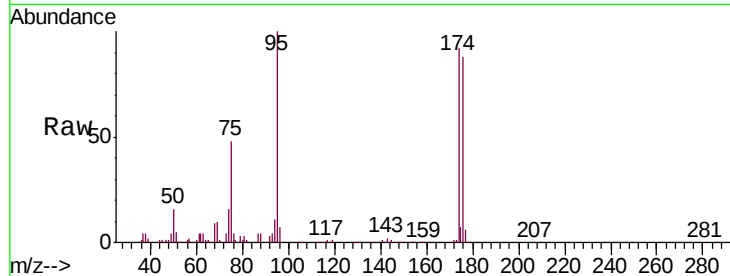
Tgt Ion: 95 Resp: 372355

Ion Ratio Lower Upper

95 100

174 91.0 0.0 177.8

176 87.8 0.0 175.0



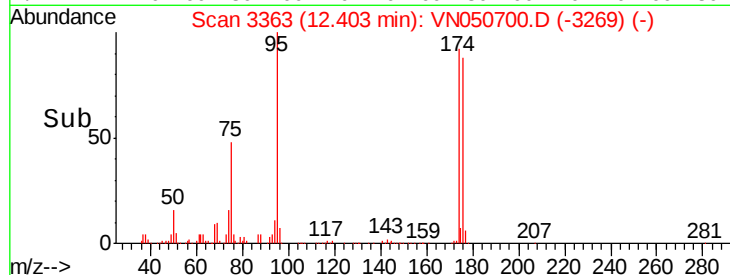
Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

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

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

12.40

Time-->



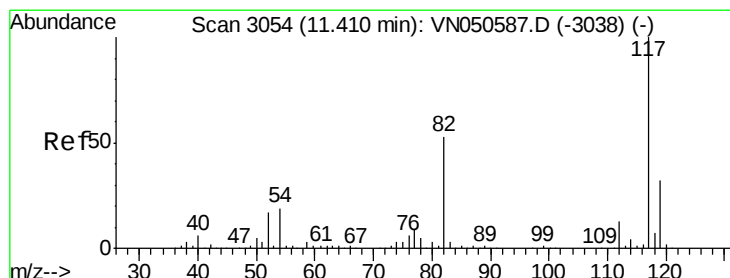
Abundance Ion 94.90 (94.60 to 95.60): VN050700.D (-3269) (-)

Ion 173.80 (173.50 to 174.50): VN050700.D (-3269) (-)

Ion 175.80 (175.50 to 176.50): VN050700.D (-3269) (-)

12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

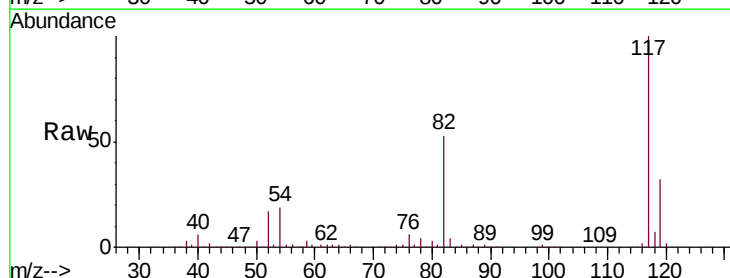
Tgt Ion: 117 Resp: 849159

Ion Ratio Lower Upper

117 100

82 53.0 42.4 63.6

119 32.2 25.8 38.8



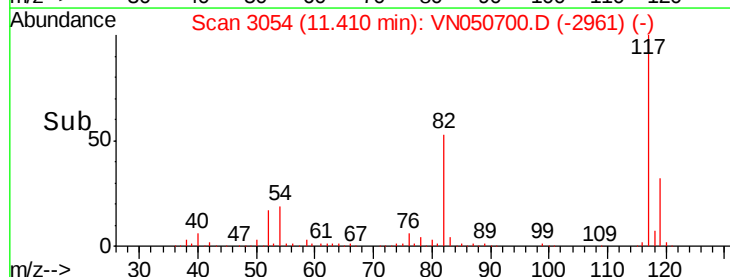
Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

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

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

11.41

Time-->



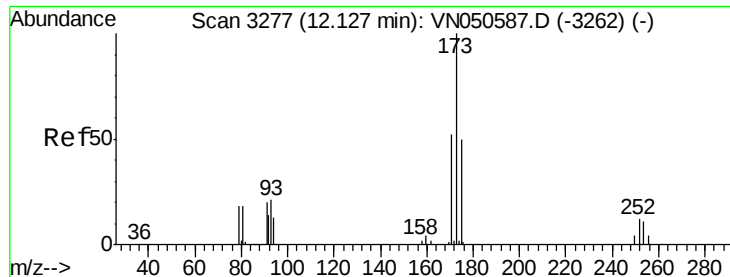
Abundance Ion 116.90 (116.60 to 117.60): VN050700.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN050700.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN050700.D (-2961) (-)

11.41

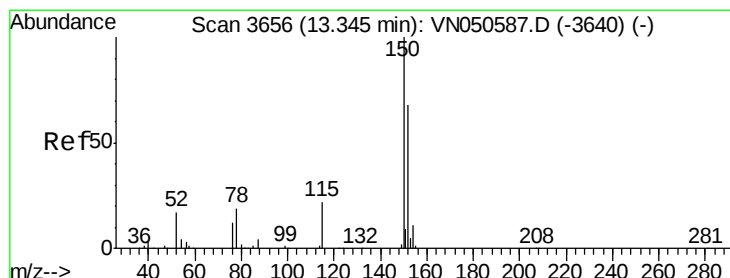
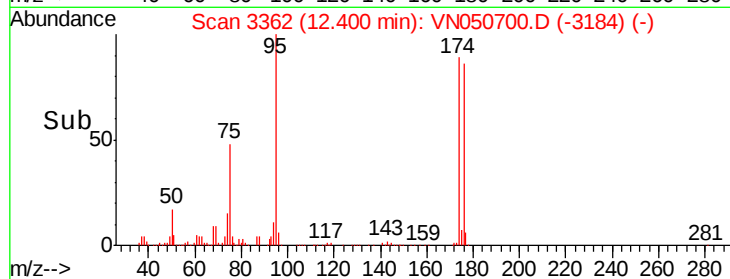
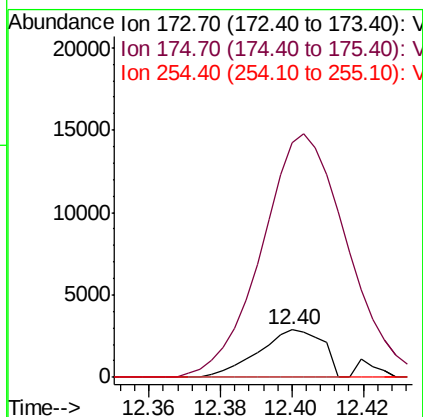
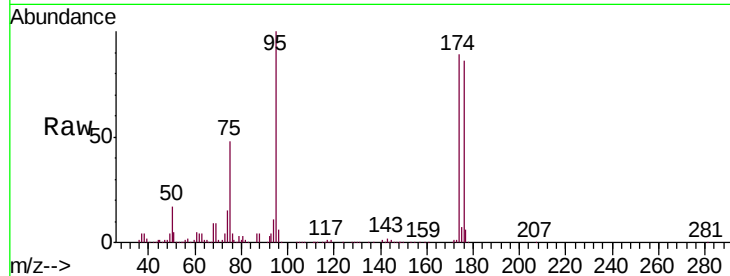
Time-->



#71
 Bromoform
 Concen: 0.679 ug/l
 RT: 12.40 min Scan# 3362
 Delta R.T. 0.27 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

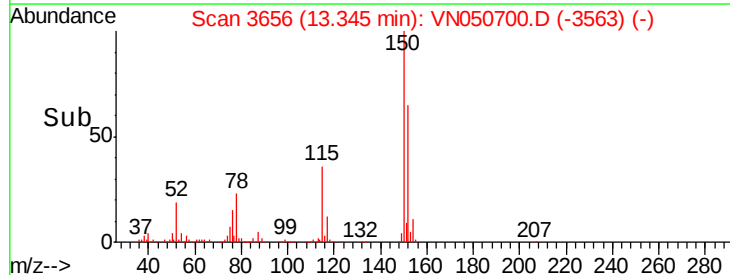
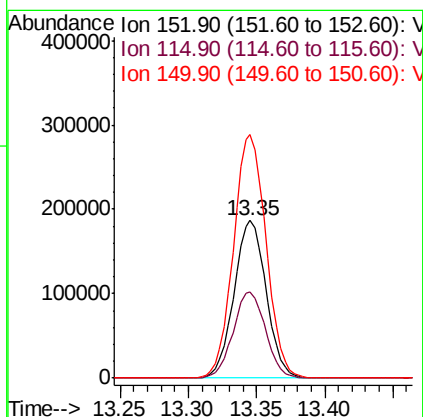
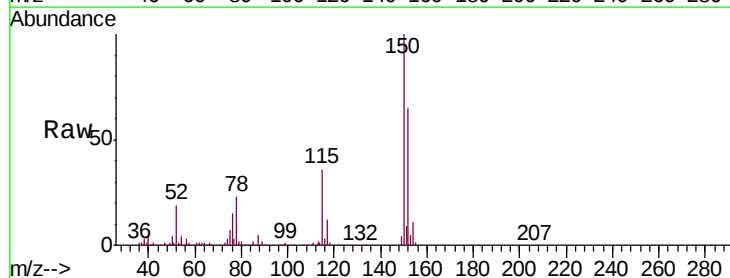
Instrument :
 MSVOA_N
 ClientSampleId :
 BROWN-FRAC-TANKDL

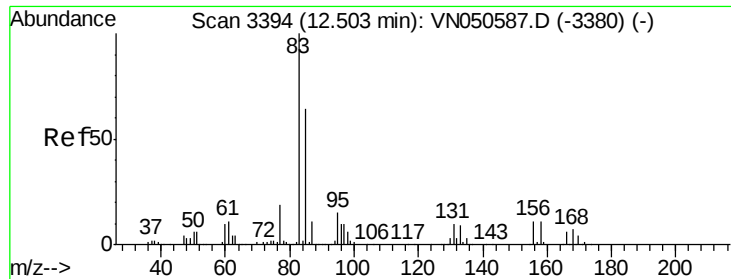
Tgt Ion:173 Resp: 3567
 Ion Ratio Lower Upper
 173 100
 175 568.8 24.4 73.2#
 254 0.0 0.0 0.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3656
 Delta R.T. 0.00 min
 Lab File: VN050700.D
 Acq: 16 Aug 2018 14:41

Tgt Ion:152 Resp: 305023
 Ion Ratio Lower Upper
 152 100
 115 55.3 28.1 84.2
 150 156.8 0.0 347.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

BROWN-FRAC-TANKDL

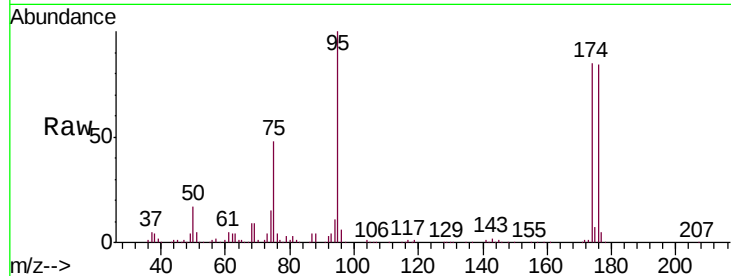
Tgt Ion: 83 Resp: 104

Ion Ratio Lower Upper

83 100

131 354.8 5.3 15.9#

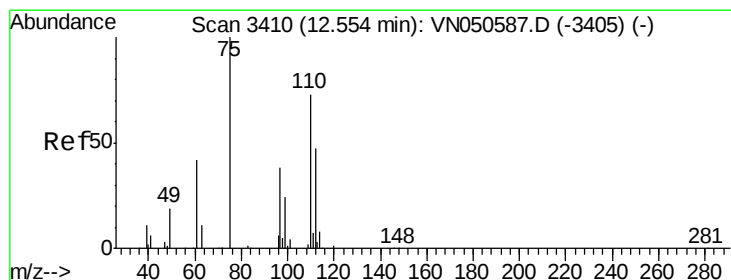
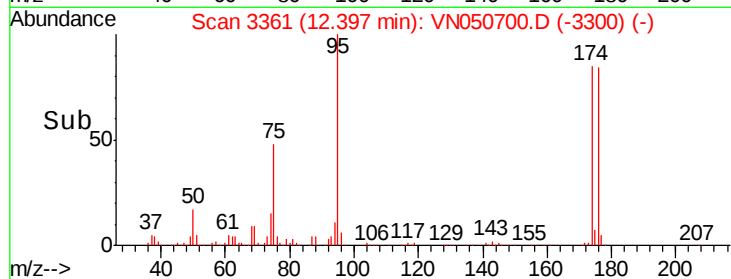
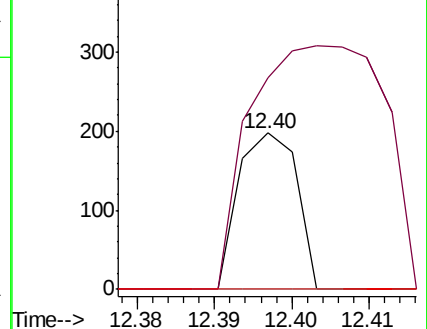
85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 36.118 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050700.D

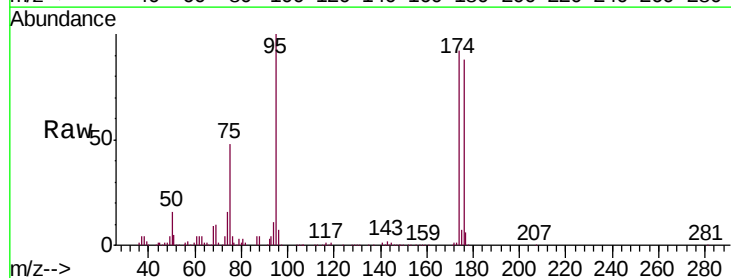
Acq: 16 Aug 2018 14:41

Tgt Ion: 75 Resp: 179398

Ion Ratio Lower Upper

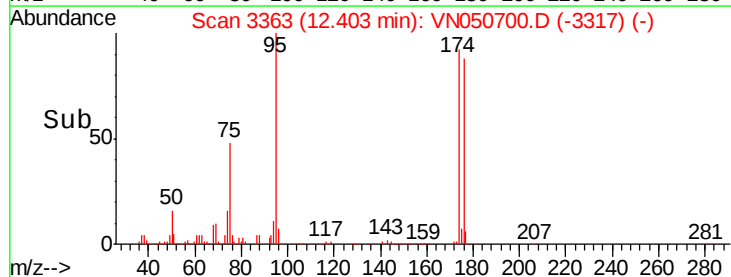
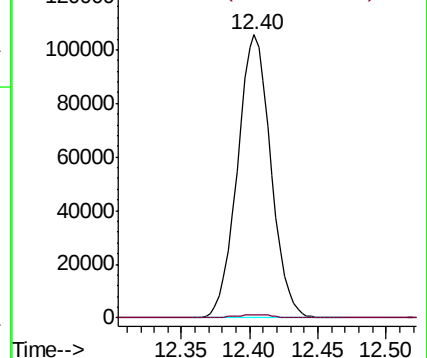
75 100

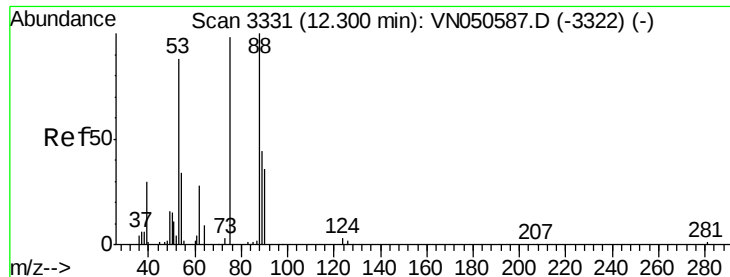
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 130.757 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

BROWN-FRAC-TANKDL

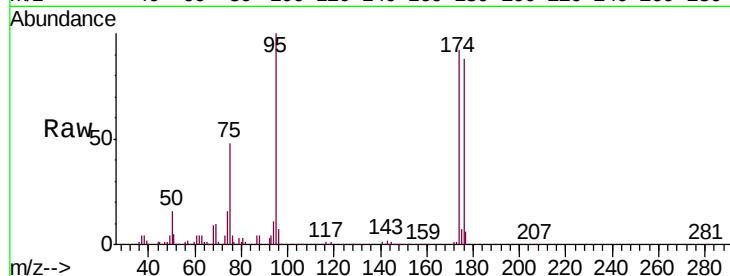
Tgt Ion: 75 Resp: 179398

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

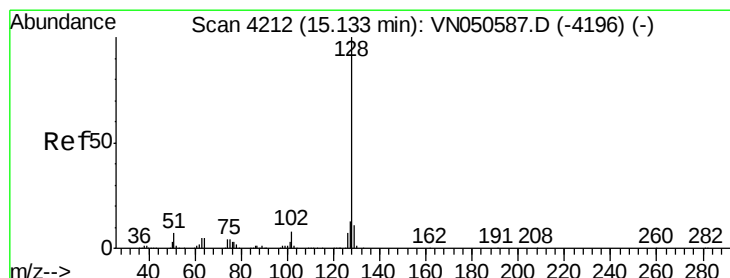
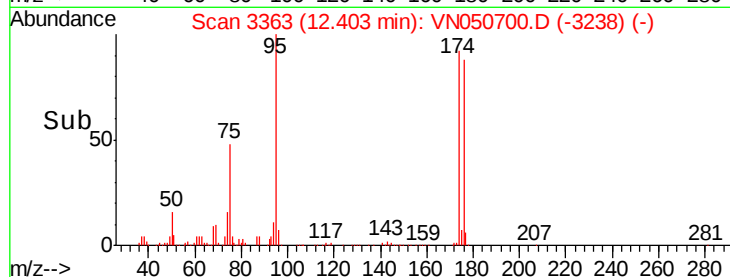
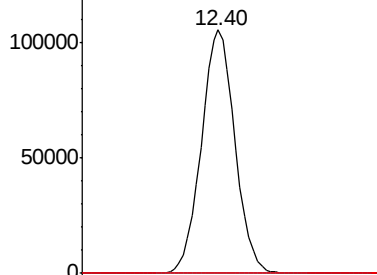
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN050700.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN050700.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN050700.D (-3363) (-)



#95

Naphthalene

Concen: 3.874 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050700.D

Acq: 16 Aug 2018 14:41

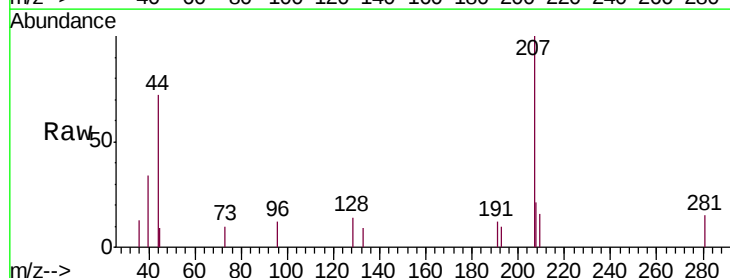
Tgt Ion: 128 Resp: 169

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): VN050700.D (-4214) (-)

Ion 127.00 (126.70 to 127.70): VN050700.D (-4214) (-)

Ion 129.00 (128.70 to 129.70): VN050700.D (-4214) (-)

