

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112018\
 Data File : VN052414.D
 Acq On : 20 Nov 2018 18:12
 Operator : MD\SY
 Sample : PB114952ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 20 23:56:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	289622	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	491508	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	423767	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147365	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	220267	53.85	ug/l	0.00
Spiked Amount			Recovery	=	107.70%	
35) Dibromofluoromethane	7.59	113	163288	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
50) Toluene-d8	10.09	98	619984	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.40	95	183875	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	

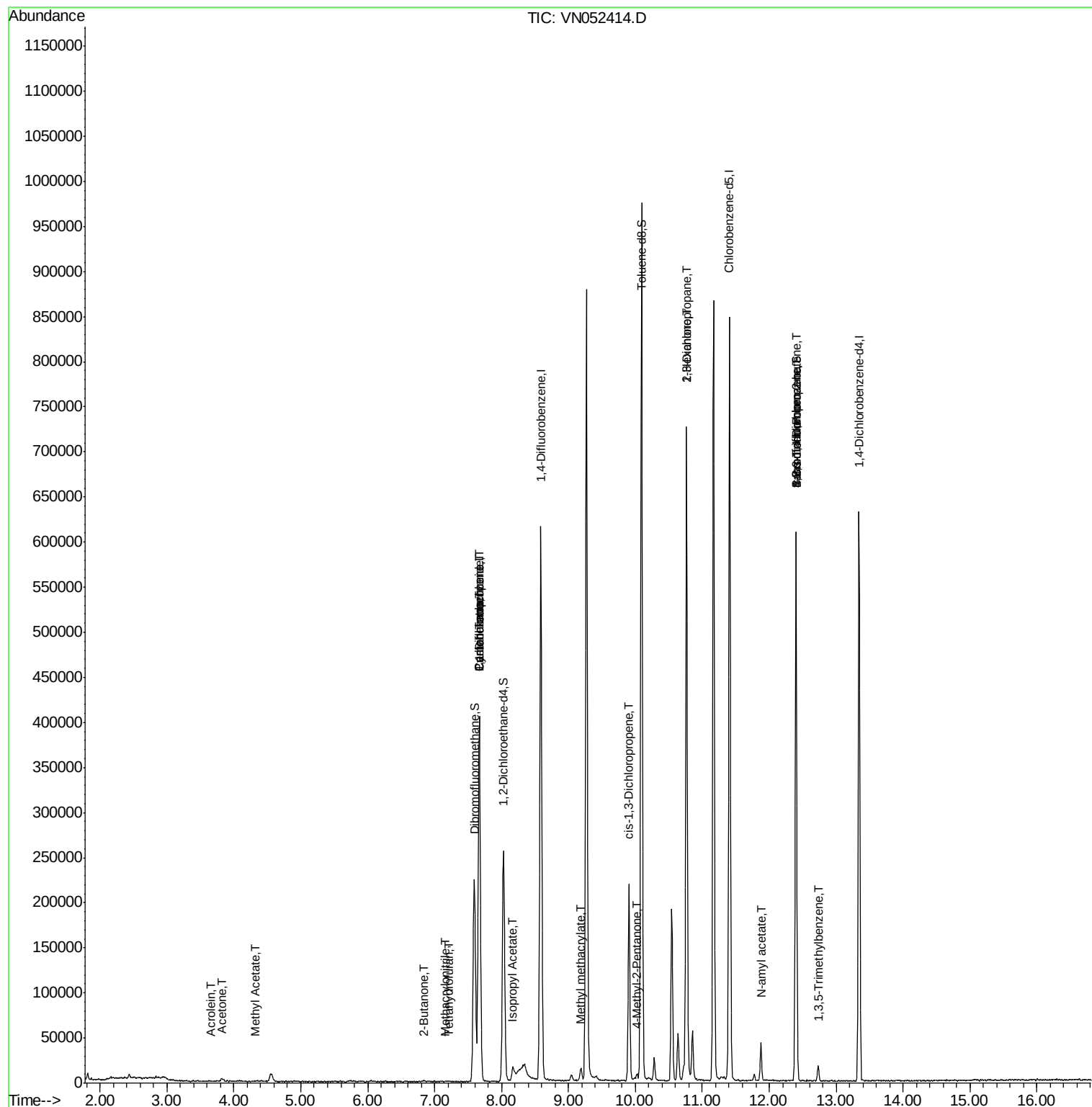
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.65	56	63	21.947	ug/l #	14
16) Acetone	3.82	43	4306	3.823	ug/l #	81
18) Methyl Acetate	4.33	43	829	0.692	ug/l #	65
25) 2-Butanone	6.84	43	716	0.452	ug/l #	52
29) Tetrahydrofuran	7.22	42	733	0.704	ug/l #	40
31) Cyclohexane	7.67	56	9262	0.438	ug/l #	32
36) 1,1-Dichloropropene	7.67	75	27715	5.626	ug/l #	51
38) Carbon Tetrachloride	7.67	117	31849	7.037	ug/l #	15
41) Methacrylonitrile	7.17	41	238	3.806	ug/l #	100
43) Isopropyl Acetate	8.17	43	20959	3.038	ug/l #	92
48) Methyl methacrylate	9.18	41	5094	1.455	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	6159	1.773	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	30942	5.672	ug/l #	76
57) 1,3-Dichloropropane	10.77	76	6444	1.192	ug/l #	43
59) 2-Hexanone	10.76	43	123558	51.726	ug/l #	54
71) Bromoform	12.39	173	675	0.374	ug/l #	27
74) N-amyl acetate	11.88	43	13747	3.258	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	108680	43.463	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7766	0.824	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	108680	140.968	ug/l #	5

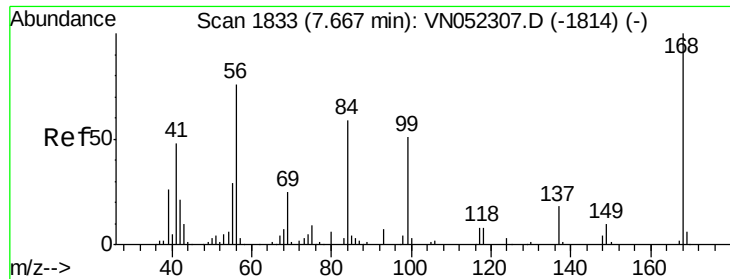
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 15 03:02:37 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

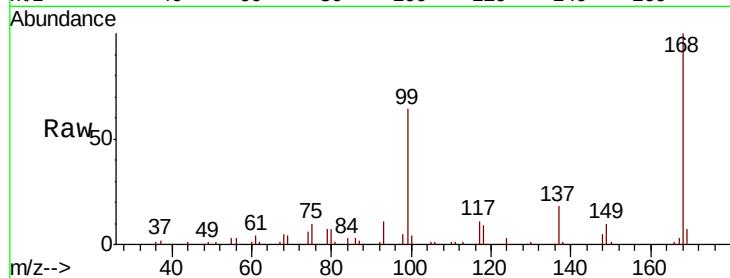
ClientSampled :

Tot Ion:168 Resp: 289622

Ion Ratio Lower Upper

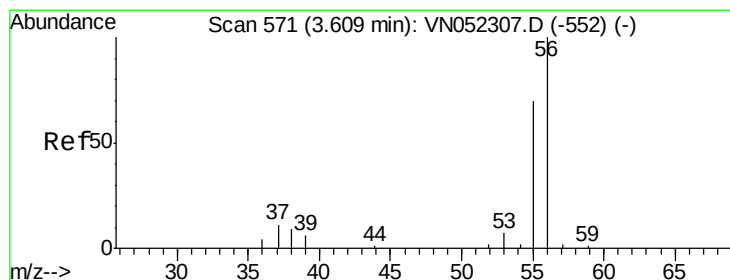
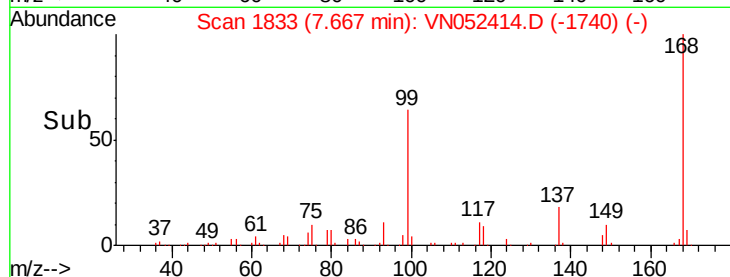
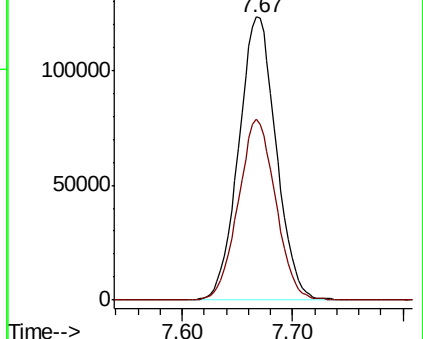
168 100

99 64.1 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 21.947 ug/l

RT: 3.65 min Scan# 583

Delta R.T. 0.04 min

Lab File: VN052414.D

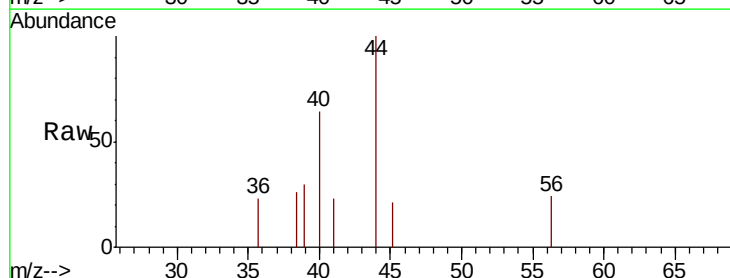
Acq: 20 Nov 2018 18:12

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

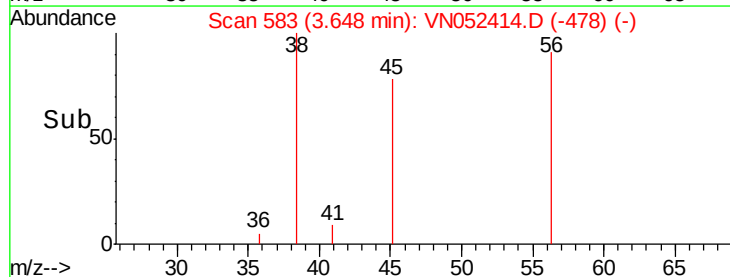
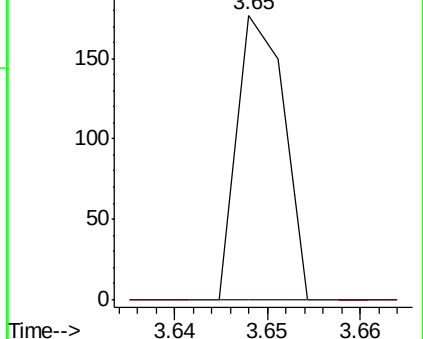
56 100

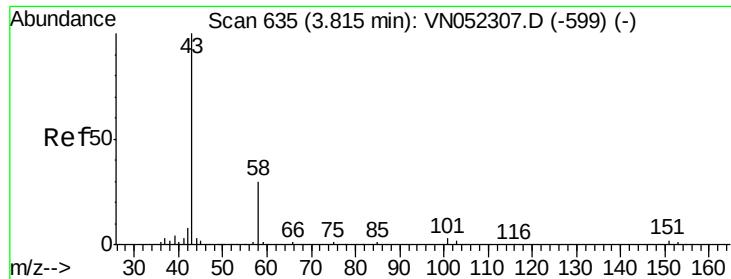
55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO





#16

Acetone

Concen: 3.823 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

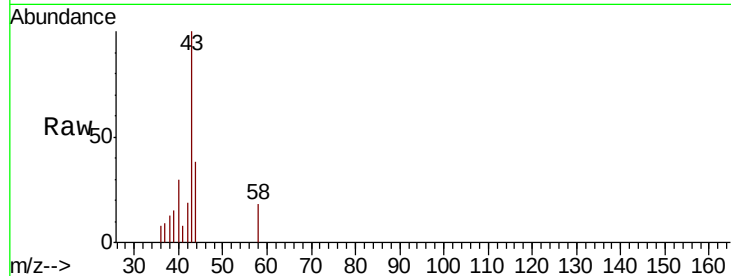
ClientSampled :

Tot Ion: 43 Resp: 4306

Ion Ratio Lower Upper

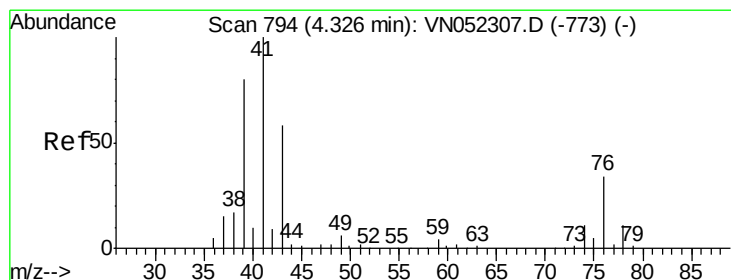
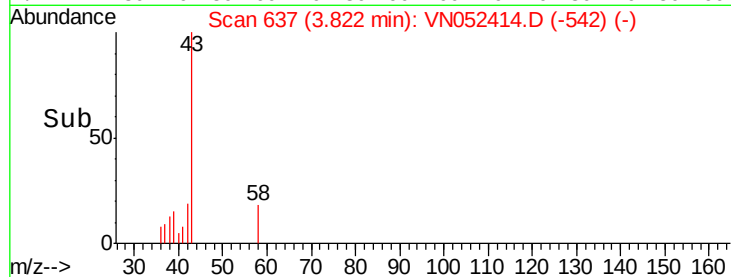
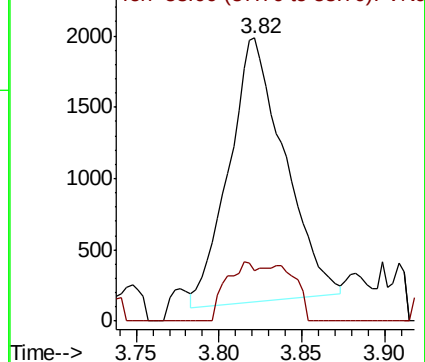
43 100

58 19.9 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.692 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052414.D

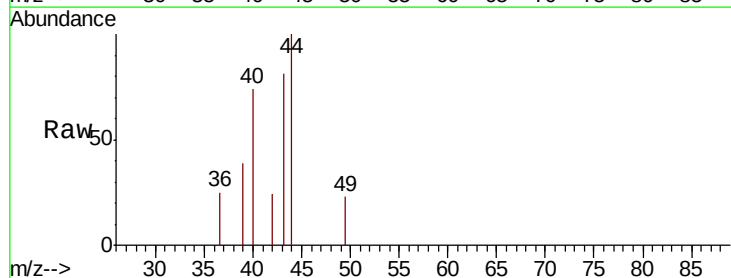
Acq: 20 Nov 2018 18:12

Tgt Ion: 43 Resp: 829

Ion Ratio Lower Upper

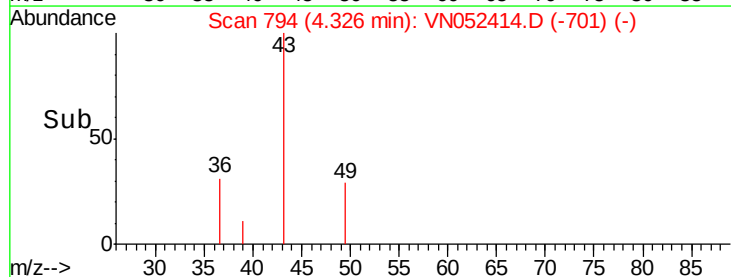
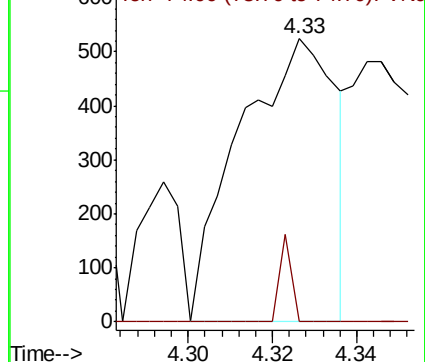
43 100

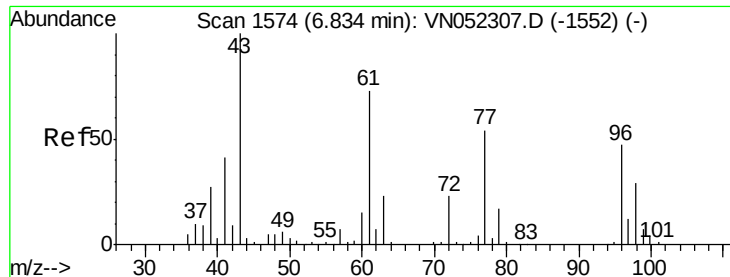
74 3.7 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.452 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

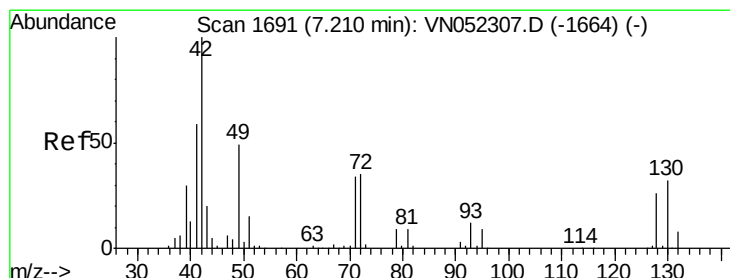
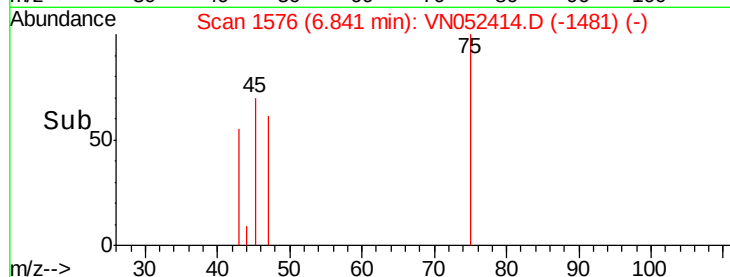
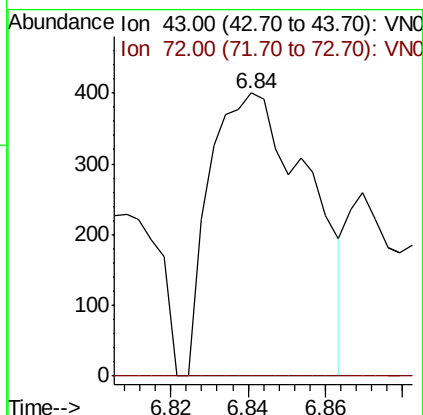
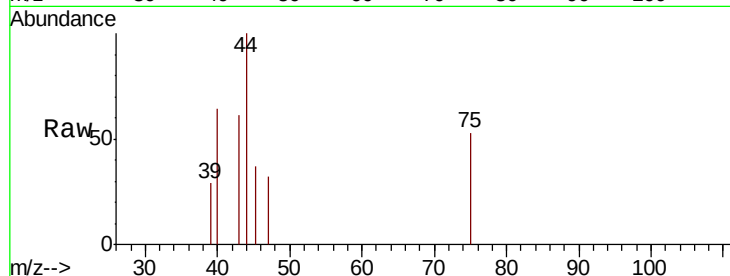
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 716

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



#29

Tetrahydrofuran

Concen: 0.704 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

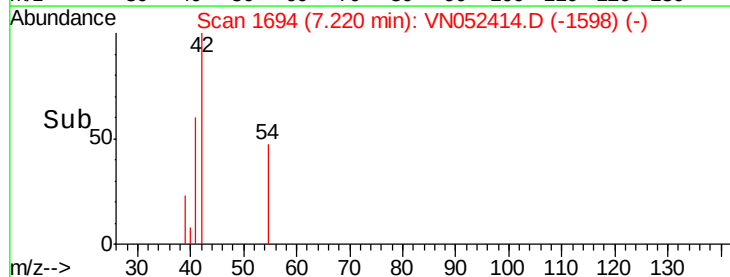
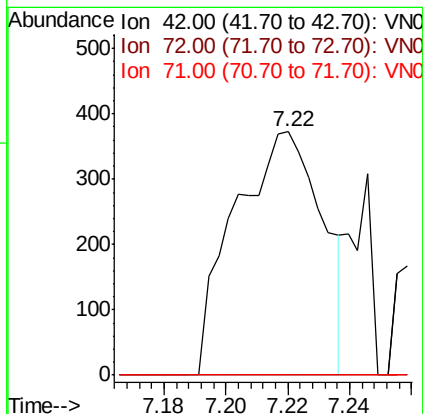
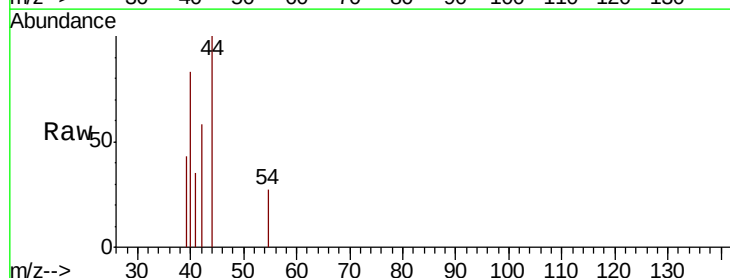
Tgt Ion: 42 Resp: 733

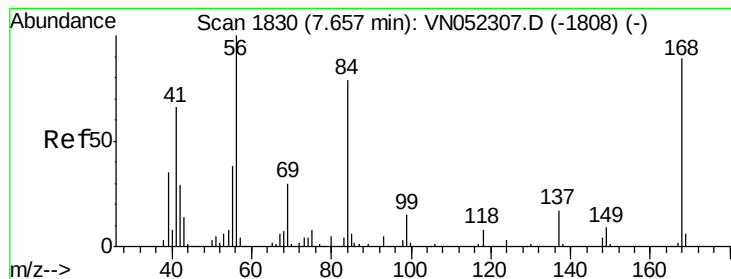
Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

71 0.0 26.7 40.1#





#31

Cyclohexane

Concen: 0.438 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

ClientSampled :

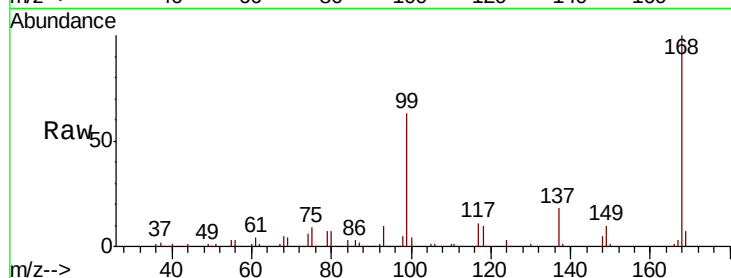
Tot Ion: 56 Resp: 9262

Ion Ratio Lower Upper

56 100

69 127.7 23.8 35.8#

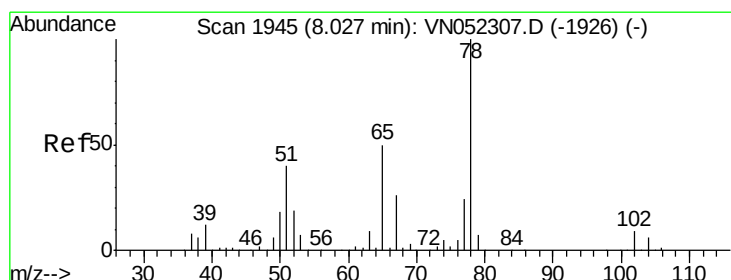
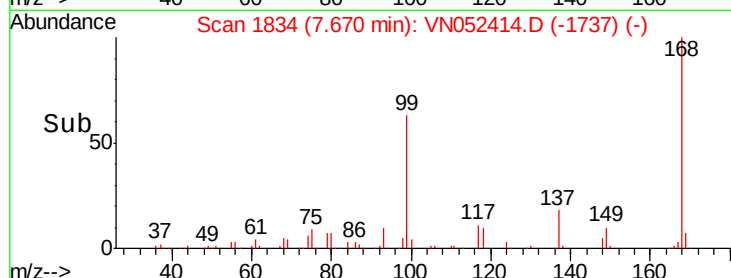
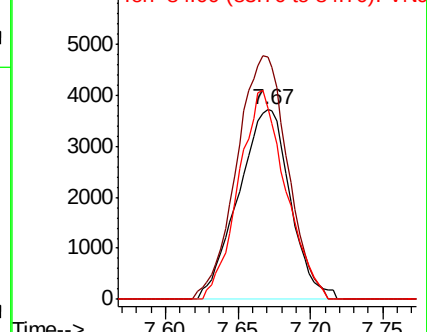
84 101.2 63.0 94.6#



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: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052414.D

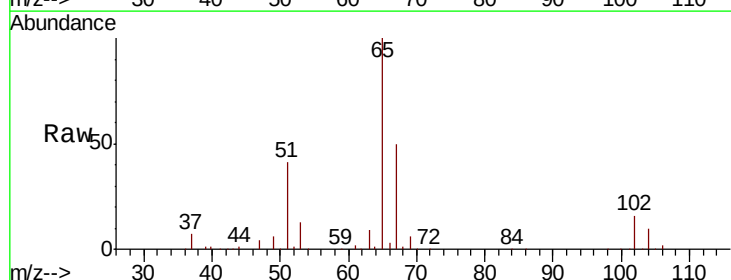
Acq: 20 Nov 2018 18:12

Tgt Ion: 65 Resp: 220267

Ion Ratio Lower Upper

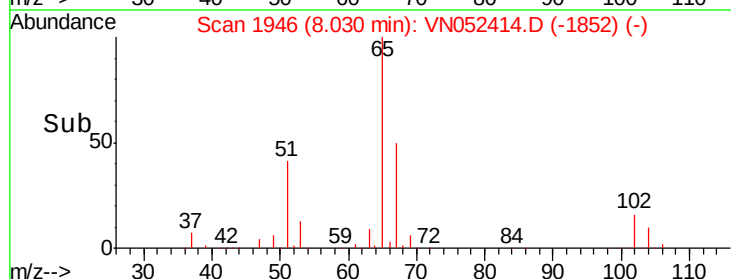
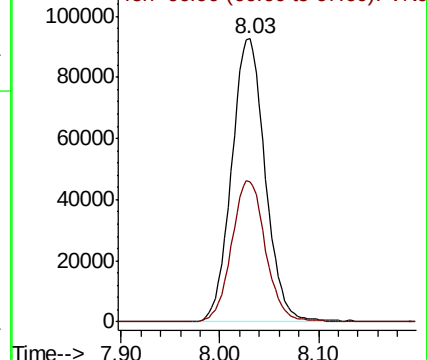
65 100

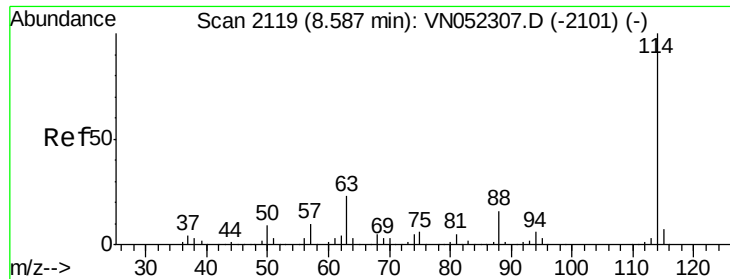
67 50.2 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

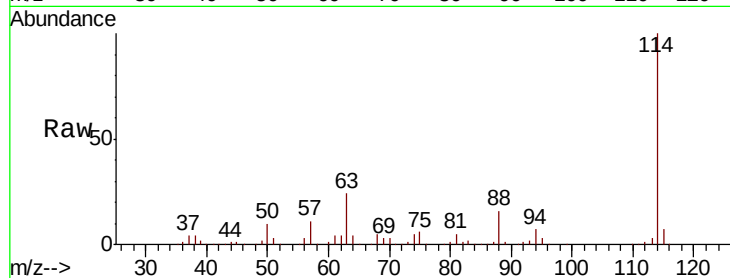




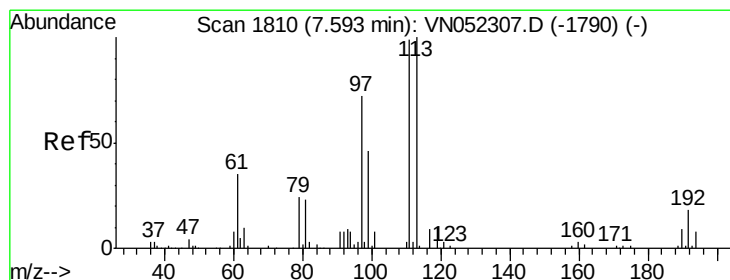
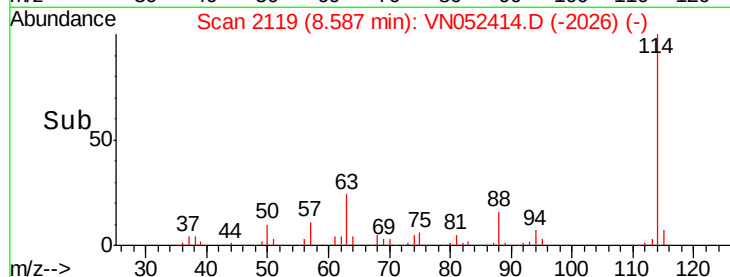
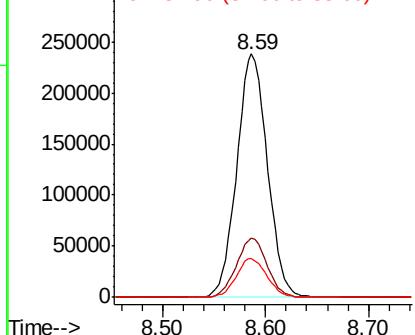
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052414.D
 Acq: 20 Nov 2018 18:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 491508
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 45.4
 88 16.0 0.0 31.2

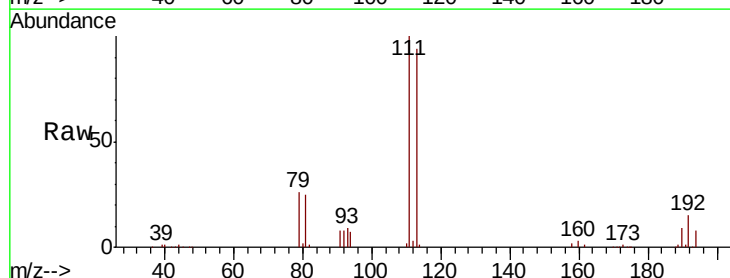


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

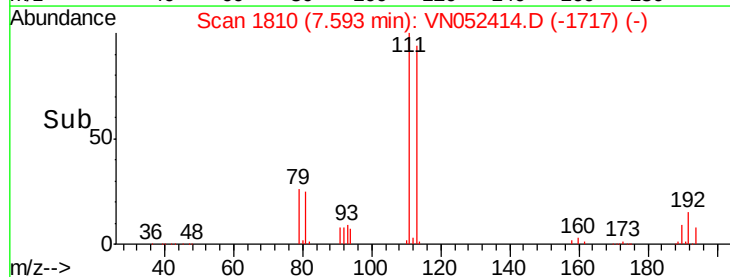
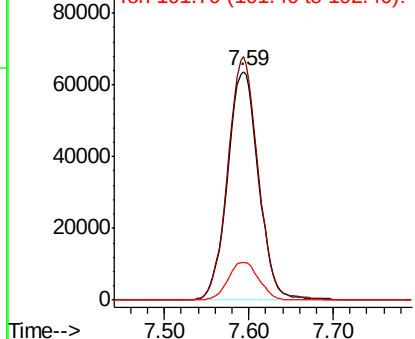


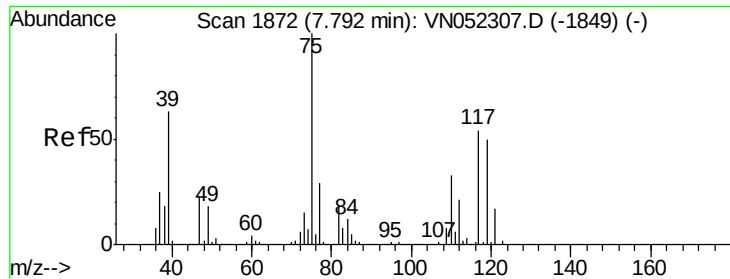
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052414.D
 Acq: 20 Nov 2018 18:12

Tgt Ion:113 Resp: 163288
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.0 121.6
 192 16.4 13.8 20.6



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

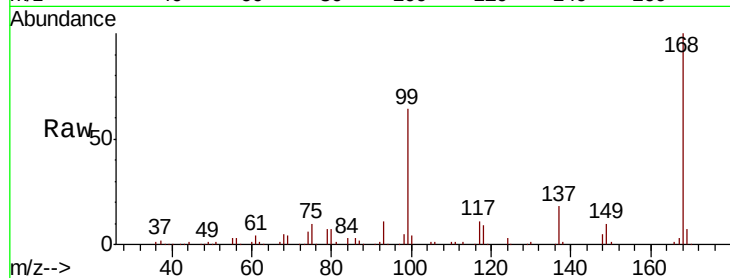




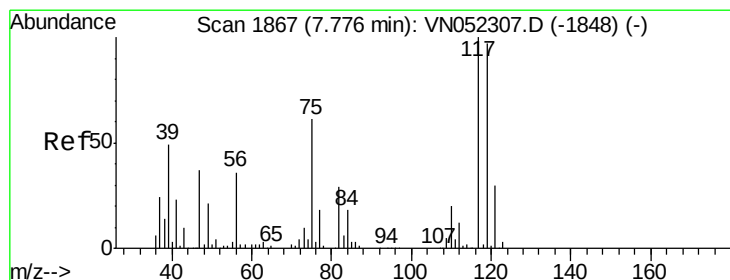
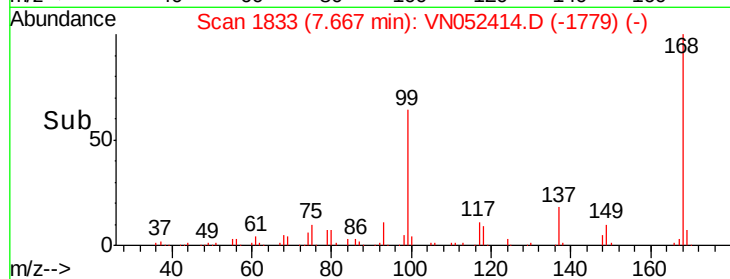
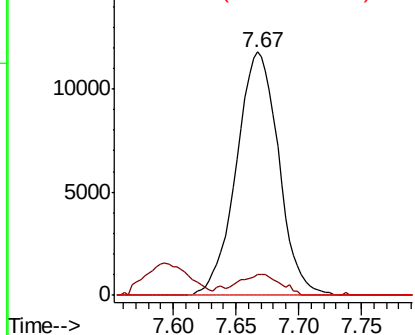
#36
 1,1-Dichloropropene
 Concen: 5.626 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052414.D
 Acq: 20 Nov 2018 18:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.5	49.5#
77	0.0	24.2	36.2#

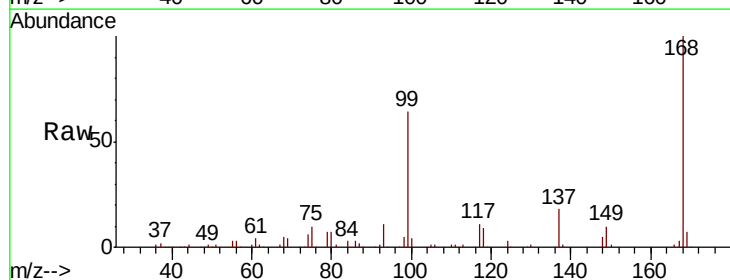


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052307.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052307.D (-1849) (-)

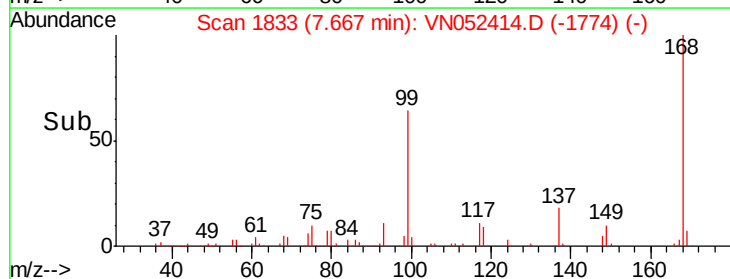
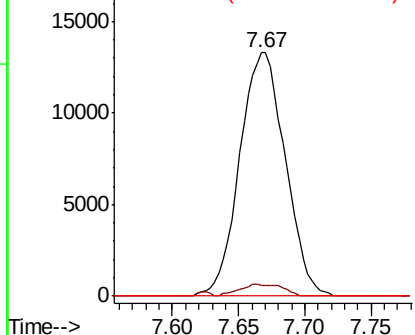


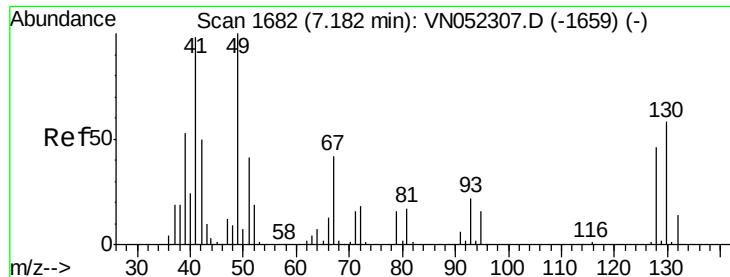
#38
 Carbon Tetrachloride
 Concen: 7.037 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052414.D
 Acq: 20 Nov 2018 18:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	77.4	116.0#
121	0.0	24.0	36.0#



Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN052307.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN052307.D (-1848) (-)

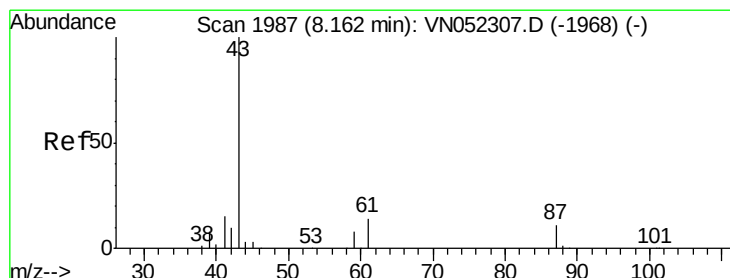
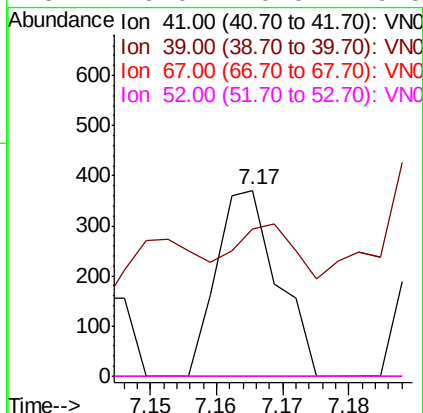
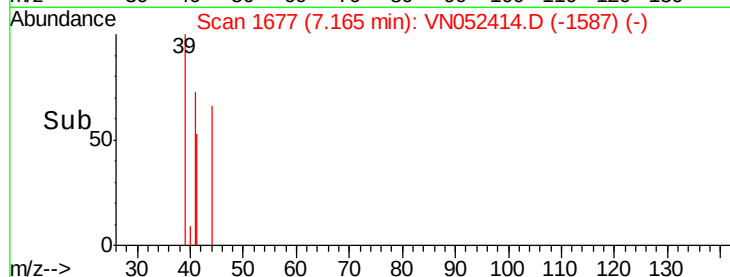
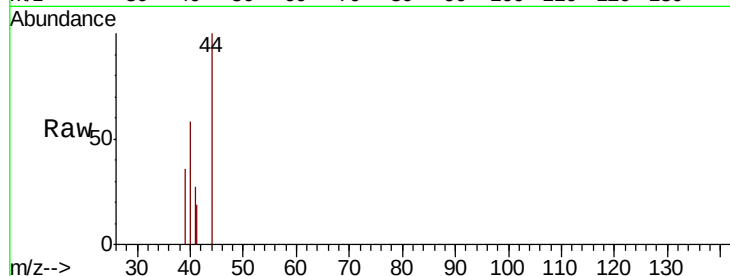




#41
Methacrylonitrile
Concen: 3.806 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.01 min
Lab File: VN052414.D
Acq: 20 Nov 2018 18:12

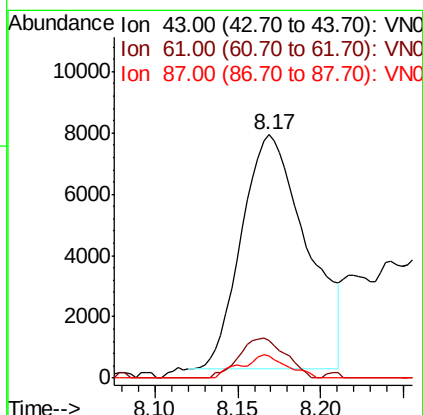
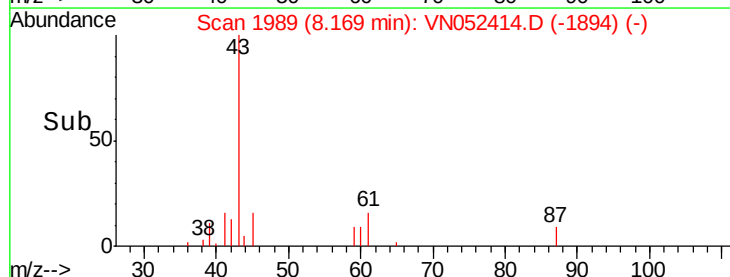
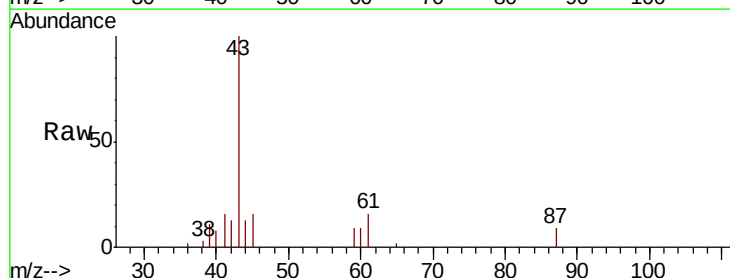
Instrument :
MSVOA_N
ClientSampled :

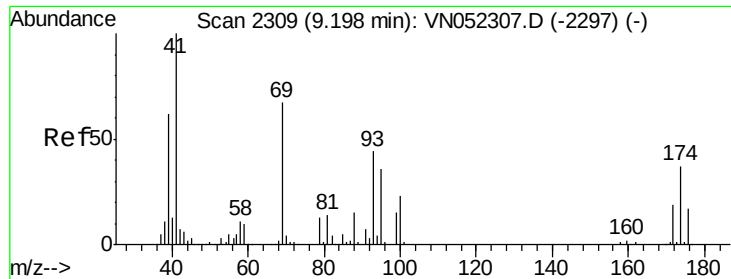
Tot Ion:	41	Resp:	238
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 3.038 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN052414.D
Acq: 20 Nov 2018 18:12

Tgt Ion:	43	Resp:	20959
Ion	Ratio	Lower	Upper
43	100		
61	12.2	12.0	18.0
87	7.0	8.3	12.5#

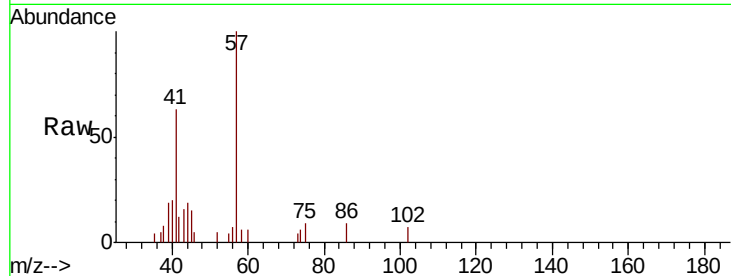




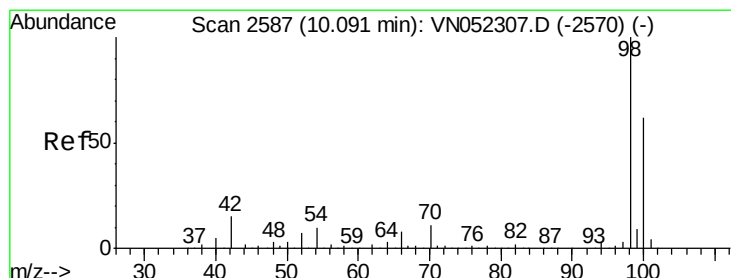
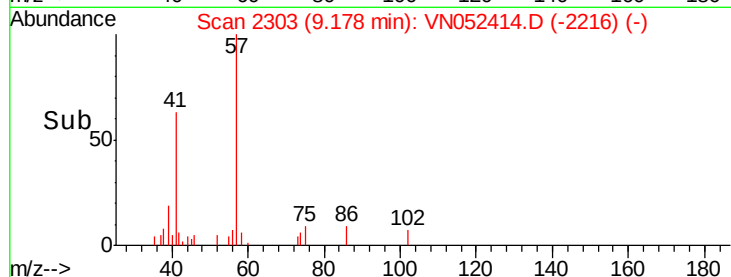
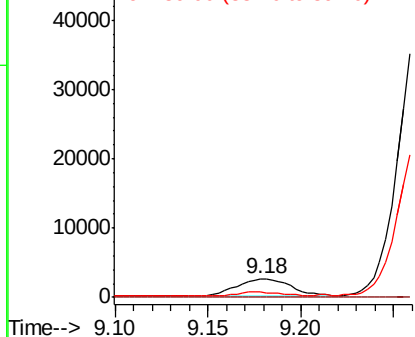
#48
Methvl methacrylate
Concen: 1.455 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052414.D
Acq: 20 Nov 2018 18:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 5094
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#

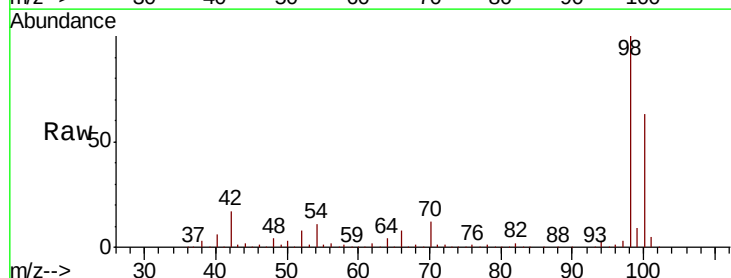


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

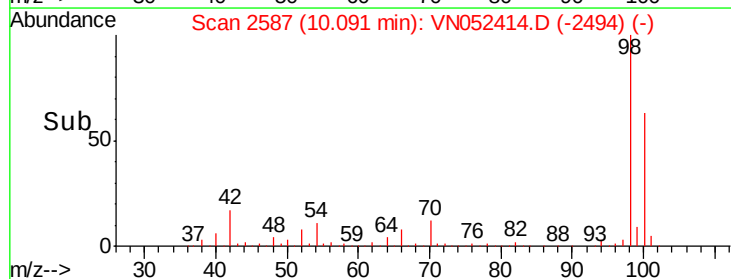
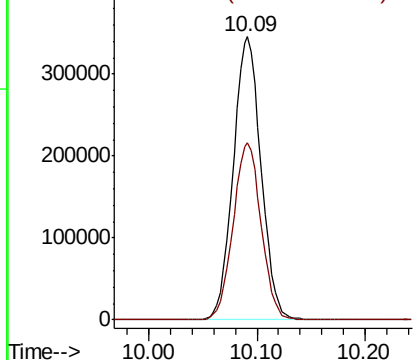


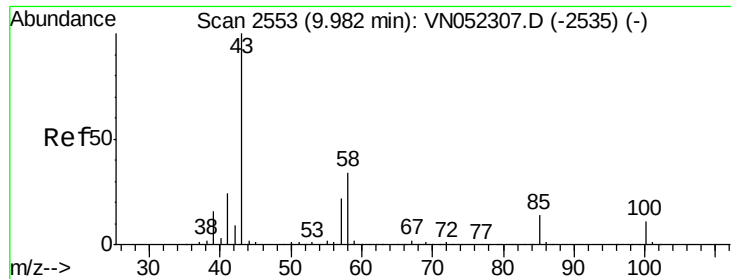
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052414.D
Acq: 20 Nov 2018 18:12

Tgt Ion: 98 Resp: 619984
Ion Ratio Lower Upper
98 100
100 62.9 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.773 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

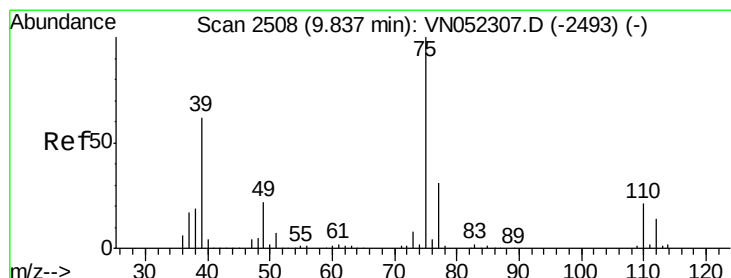
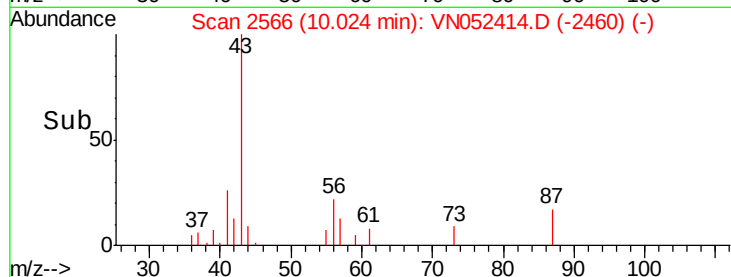
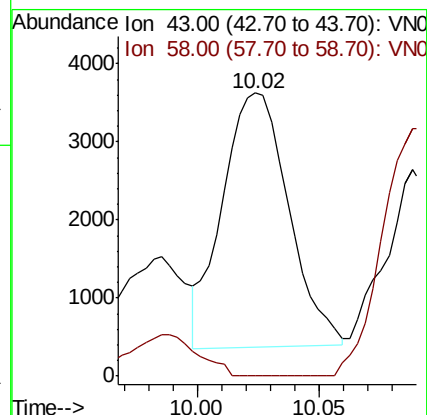
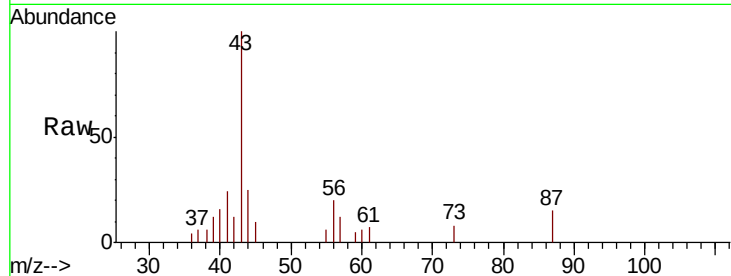
ClientSampled :

Tot Ion: 43 Resp: 6159

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.672 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

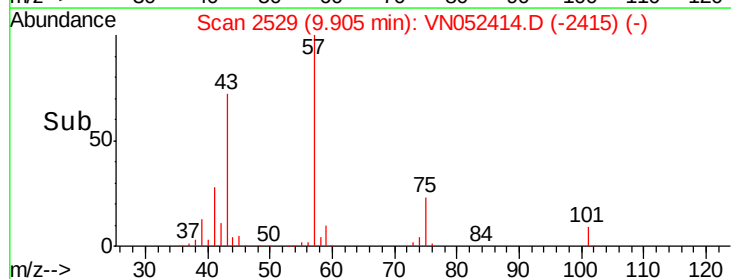
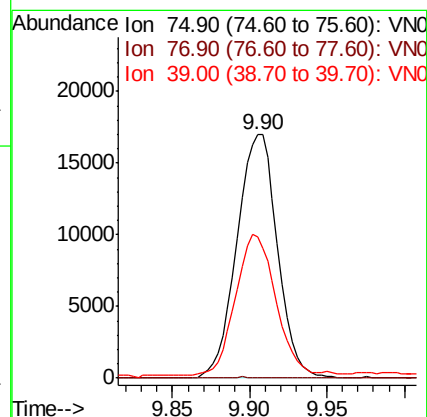
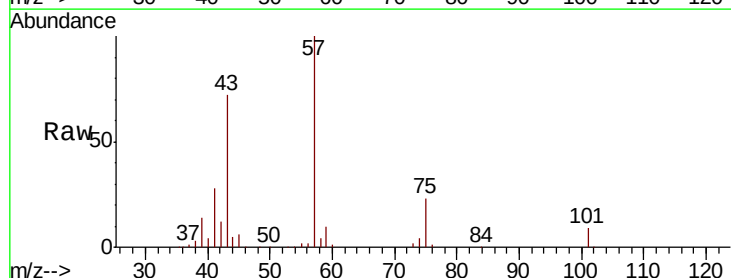
Tgt Ion: 75 Resp: 30942

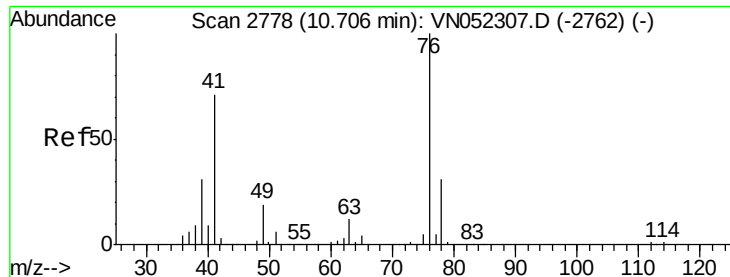
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 56.6 49.9 74.9





#57

1,3-Dichloropropane

Concen: 1.192 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

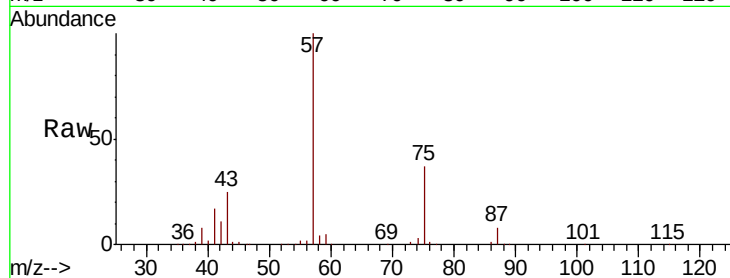
ClientSampled :

Tot Ion: 76 Resp: 6444

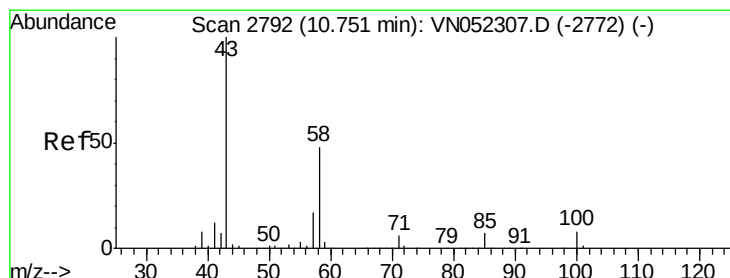
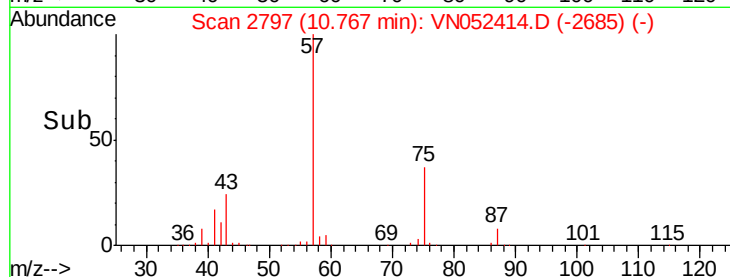
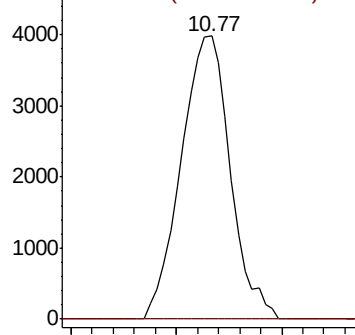
Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#59

2-Hexanone

Concen: 51.726 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052414.D

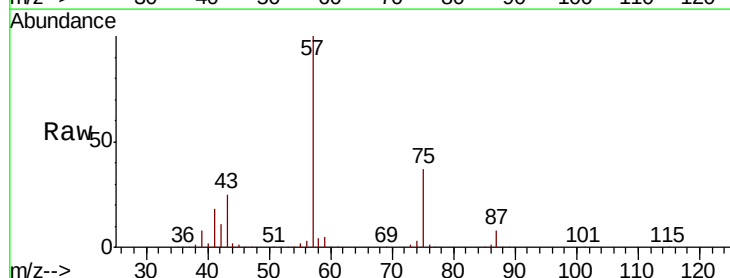
Acq: 20 Nov 2018 18:12

Tgt Ion: 43 Resp: 123558

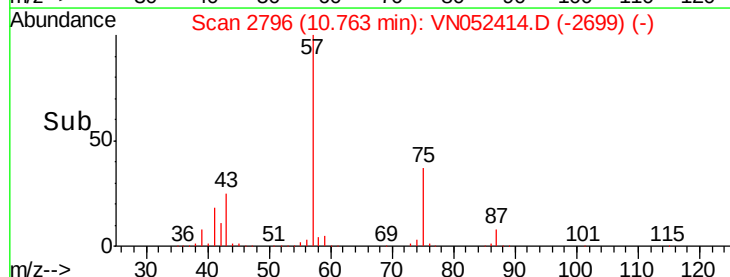
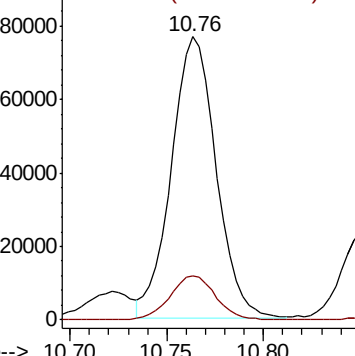
Ion Ratio Lower Upper

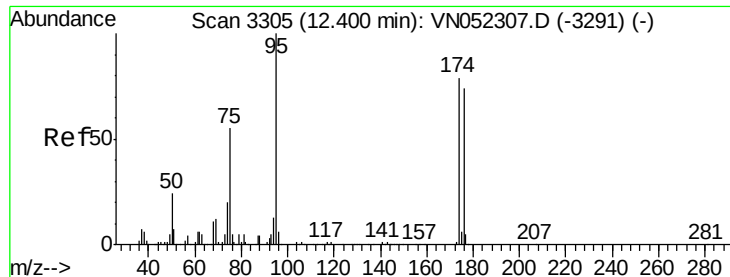
43 100

58 16.0 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

ClientSampled :

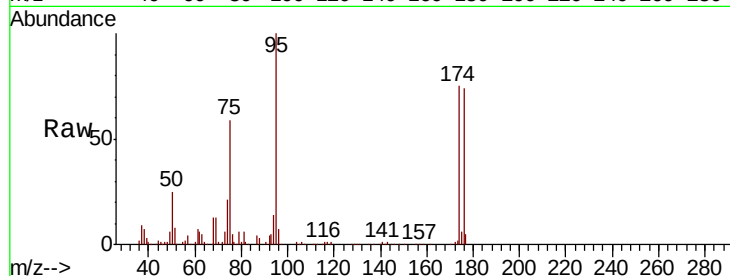
Tot Ion: 95 Resp: 183875

Ion Ratio Lower Upper

95 100

174 75.3 0.0 156.0

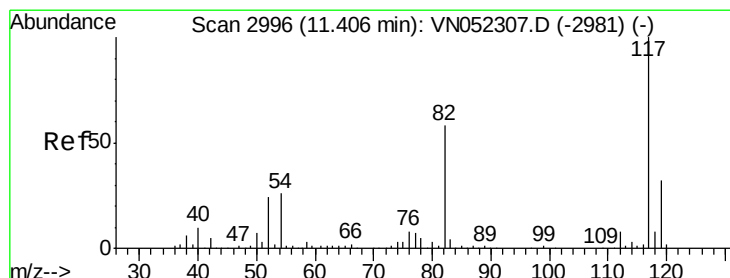
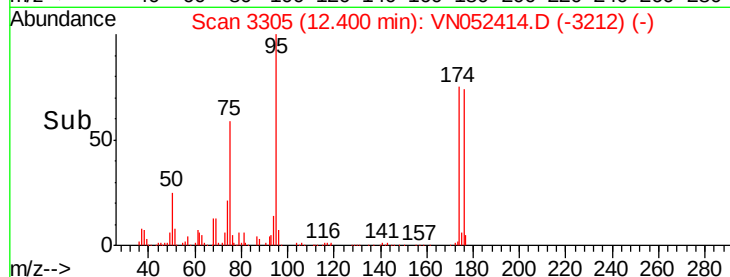
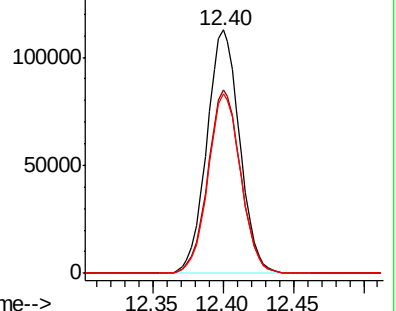
176 73.4 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052414.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052414.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052414.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

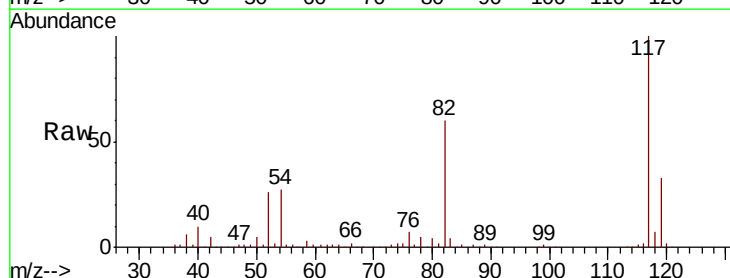
Tgt Ion: 117 Resp: 423767

Ion Ratio Lower Upper

117 100

82 60.2 46.5 69.7

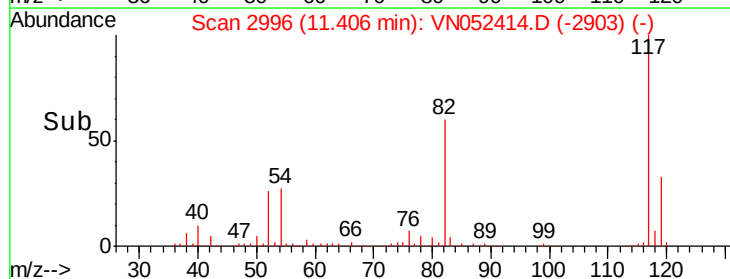
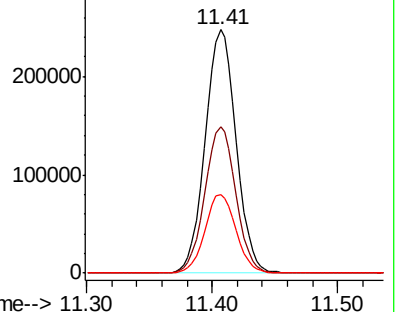
119 32.5 25.7 38.5

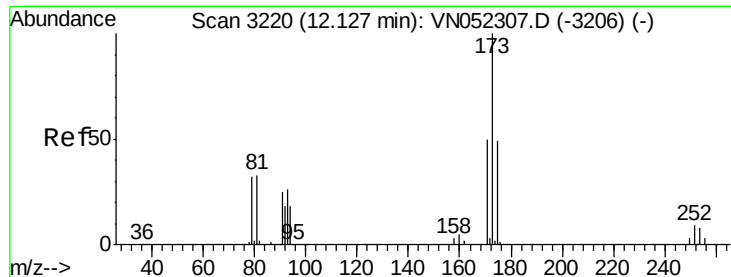


Abundance Ion 116.90 (116.60 to 117.60): VN052414.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052414.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052414.D (-2903) (-)





#71

Bromoform

Concen: 0.374 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

ClientSampled :

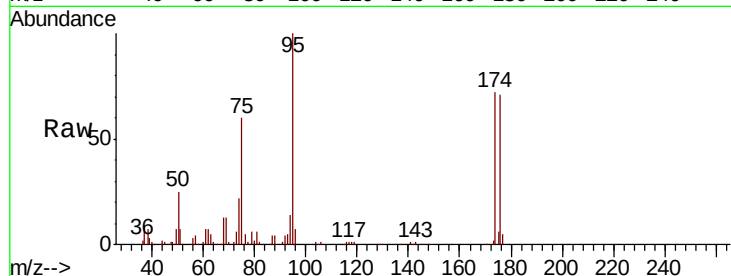
Tot Ion:173 Resp: 675

Ion Ratio Lower Upper

173 100

175 0.0 25.0 75.0#

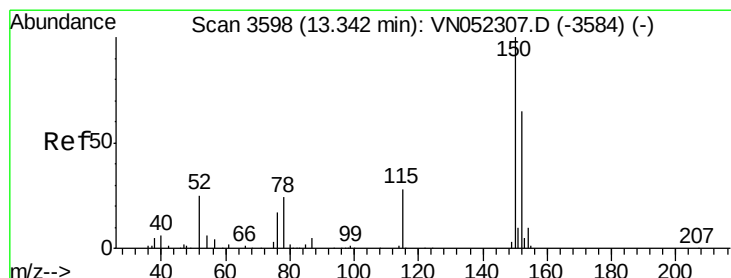
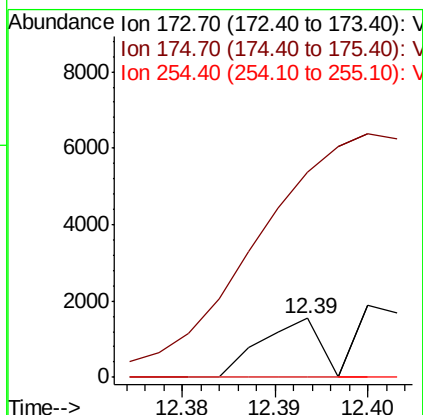
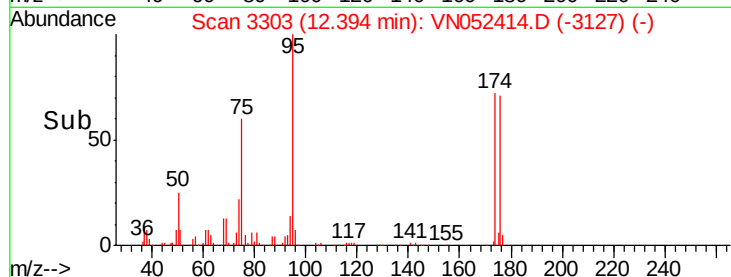
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

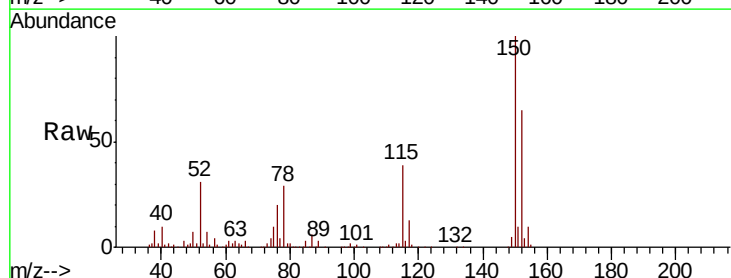
Tgt Ion:152 Resp: 147365

Ion Ratio Lower Upper

152 100

115 60.4 30.3 91.0

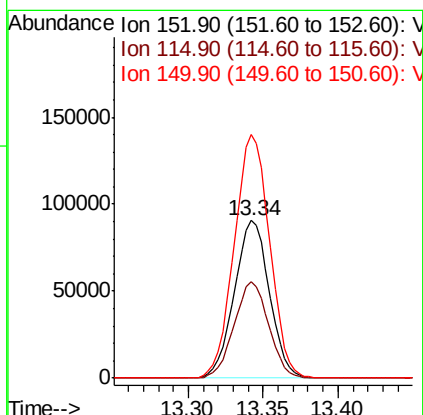
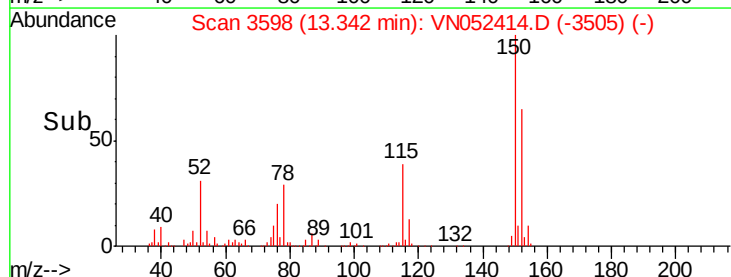
150 156.4 0.0 348.2

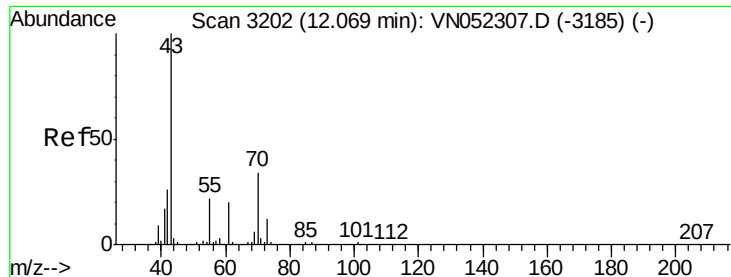


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.258 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 13747

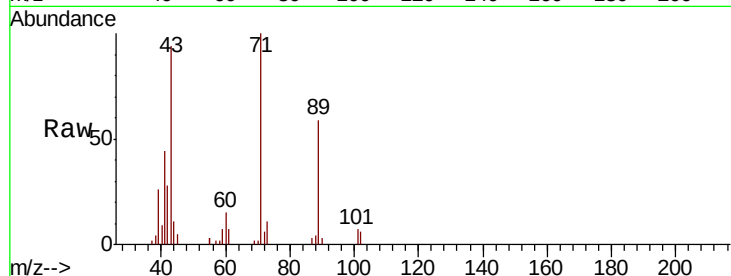
Ion Ratio Lower Upper

43 100

70 2.5 27.1 40.7#

55 5.7 17.4 26.0#

61 8.4 16.1 24.1#

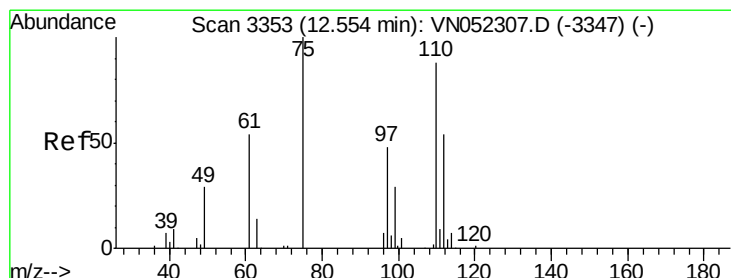
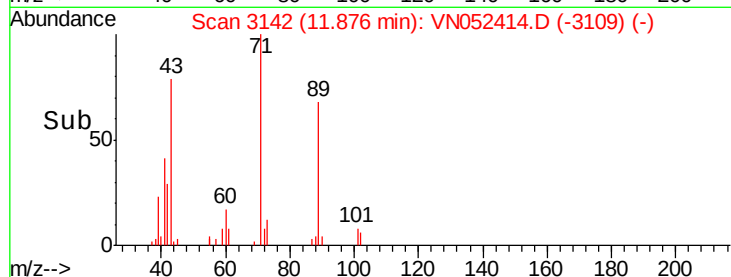
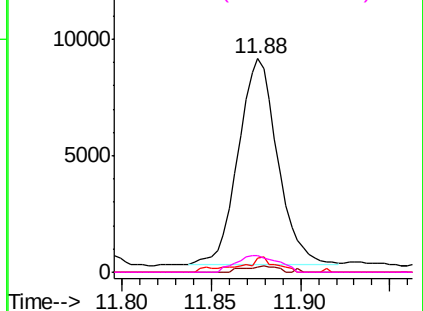


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 43.463 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052414.D

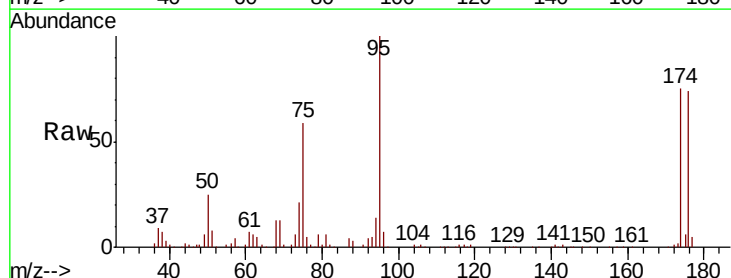
Acq: 20 Nov 2018 18:12

Tgt Ion: 75 Resp: 108680

Ion Ratio Lower Upper

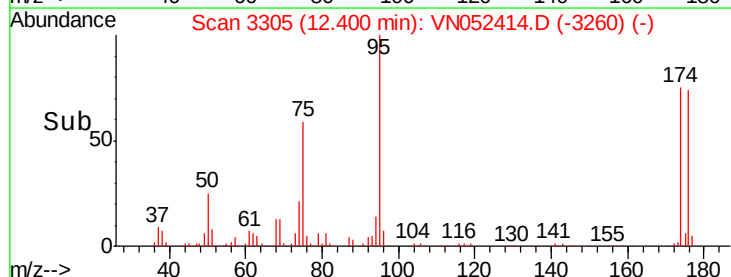
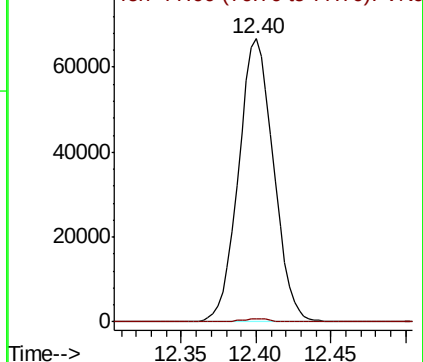
75 100

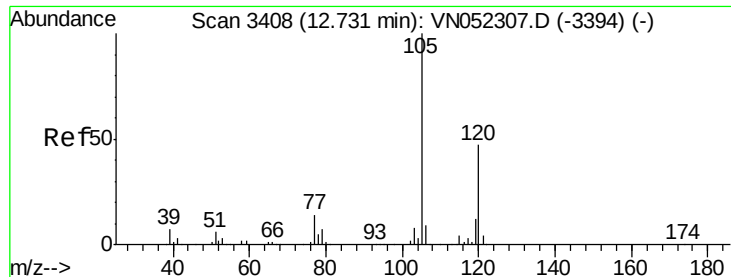
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.824 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_N

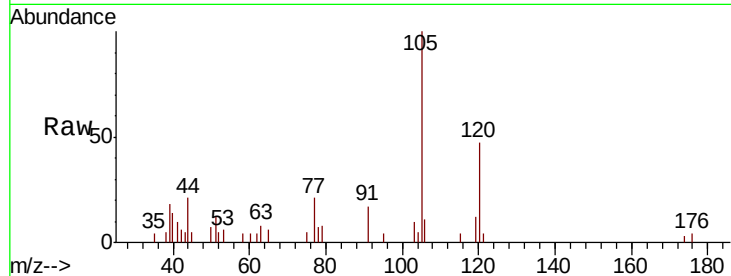
ClientSampled :

Tot Ion:105 Resp: 7766

Ion Ratio Lower Upper

105 100

120 47.3 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

5000

4000

3000

2000

1000

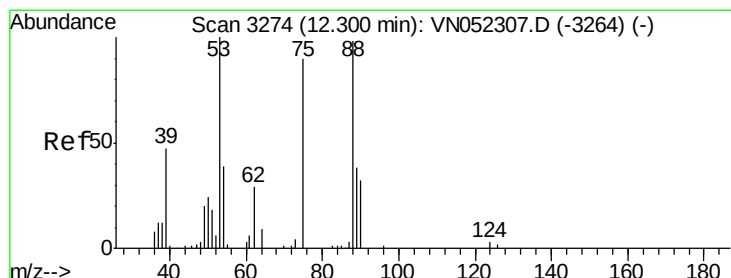
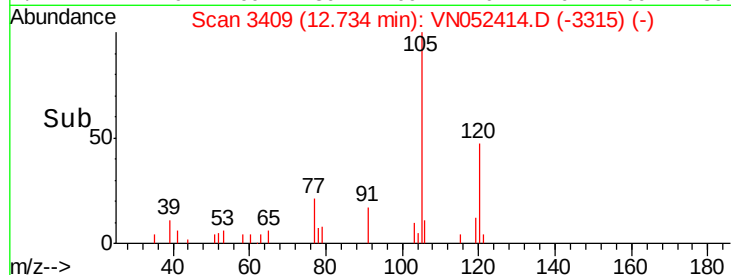
0

Time-->

12.70

12.73

12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 140.968 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052414.D

Acq: 20 Nov 2018 18:12

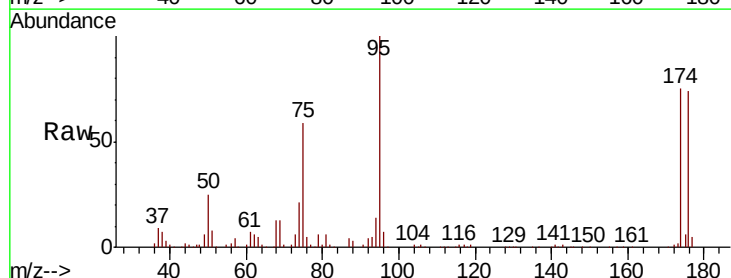
Tgt Ion: 75 Resp: 108680

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.1 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

80000

60000

40000

20000

0

Time-->

12.35

12.40

12.45

