

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051750.D
 Acq On : 9 Oct 2018 14:31
 Operator : MD\SY
 Sample : J5360-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-22

Quant Time: Oct 10 03:29:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	113609	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	627580	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	506533	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	224048	28.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.70%
60) 4-Bromofluorobenzene	12.40	95	184354	23.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	79.50%
63) Toluene-d8	10.09	98	722127	32.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.03%

Target Compounds

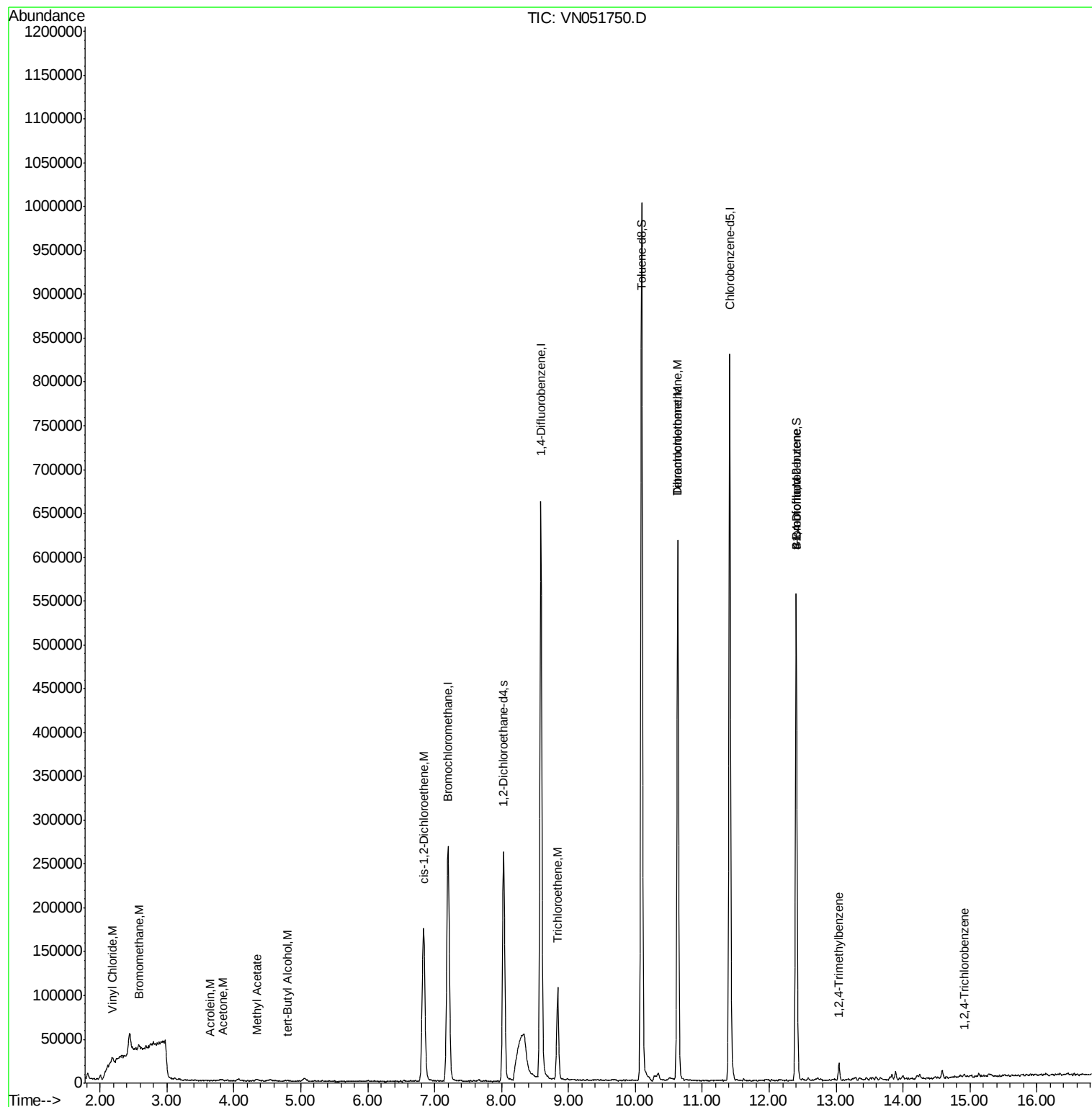
					Ovalue
4) Vinyl Chloride	2.18	62	3019	0.305 ug/l #	73
5) Bromomethane	2.57	94	2797	0.364 ug/l	93
12) Methyl Acetate	4.34	43	2703	0.646 ug/l	97
13) Acrolein	3.64	56	135	0.439 ug/l	97
15) Acetone	3.83	58	212	0.519 ug/l #	1
22) cis-1,2-Dichloroethene	6.83	96	124879	17.705 ug/l #	74
23) tert-Butyl Alcohol	4.80	59	161	0.365 ug/l #	100
37) Trichloroethene	8.84	130	38853	5.538 ug/l	97
53) Dibromochloromethane	10.63	129	130482	16.475 ug/l #	9
56) Bromoform	12.41	173	1708	0.301 ug/l #	1
61) Tetrachloroethene	10.63	164	144582	24.229 ug/l	96
77) t-1,4-Dichloro-2-butene	12.40	75	98755	51.965 ug/l #	12
80) 1,2,4-Trimethylbenzene	13.04	105	11207	0.434 ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	627	6.911 ug/l #	78

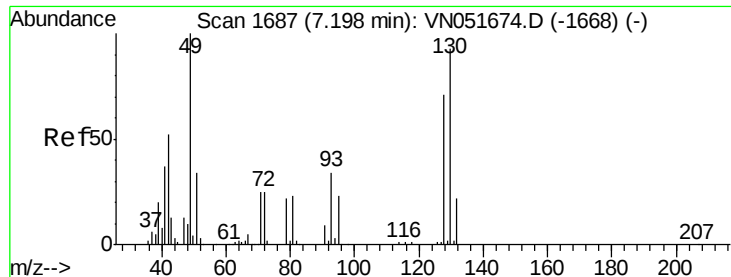
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
Data File : VN051750.D
Acq On : 9 Oct 2018 14:31
Operator : MD\SY
Sample : J5360-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
2-AVE-22

Quant Time: Oct 10 03:29:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 05 11:11:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-22

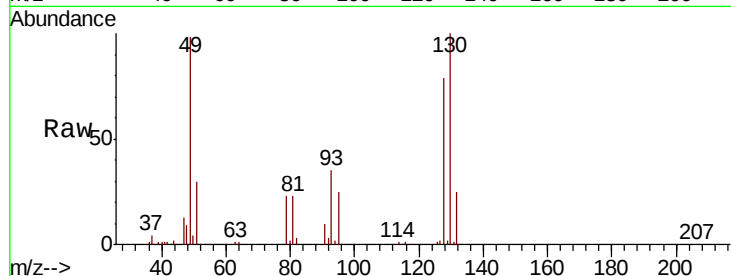
Tot Ion:128 Resp: 113609

Ion Ratio Lower Upper

128 100

49 126.5 0.0 403.3

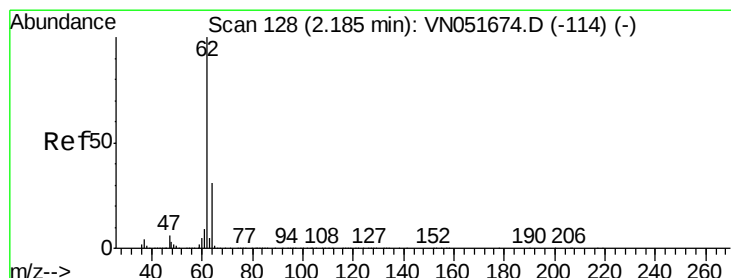
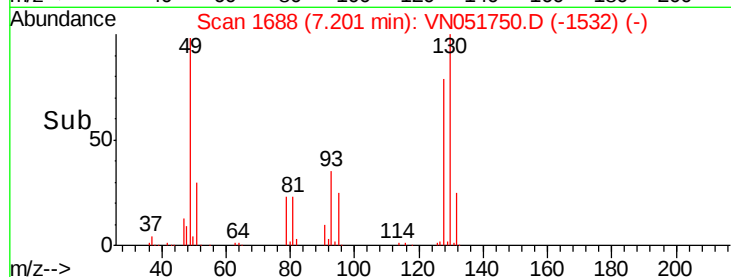
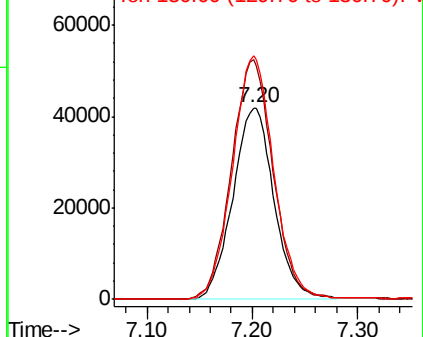
130 127.5 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#4

Vinyl Chloride

Concen: 0.305 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN051750.D

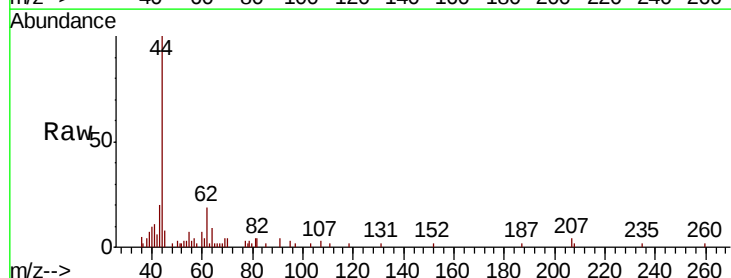
Acq: 9 Oct 2018 14:31

Tgt Ion: 62 Resp: 3019

Ion Ratio Lower Upper

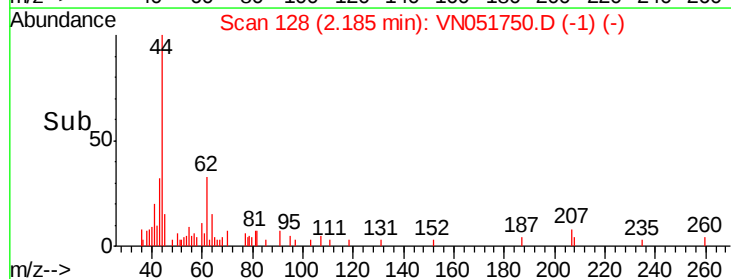
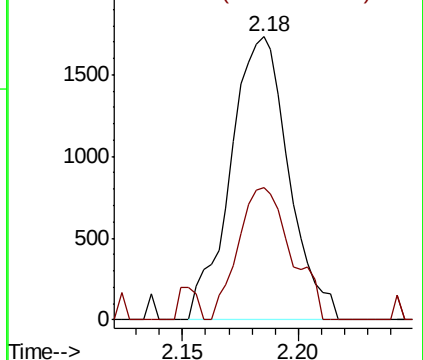
62 100

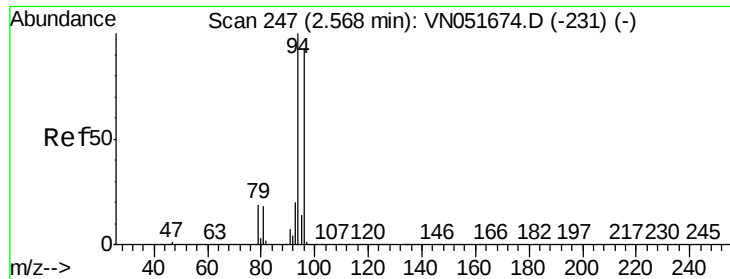
64 46.6 25.4 38.2#



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 0.364 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

Instrument :

MSVOA_N

ClientSampleId :

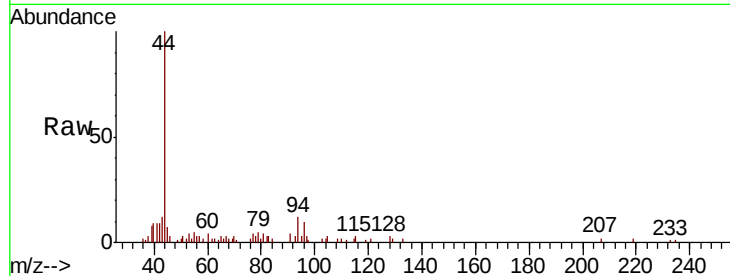
2-AVE-22

Tot Ion: 94 Resp: 2797

Ion Ratio Lower Upper

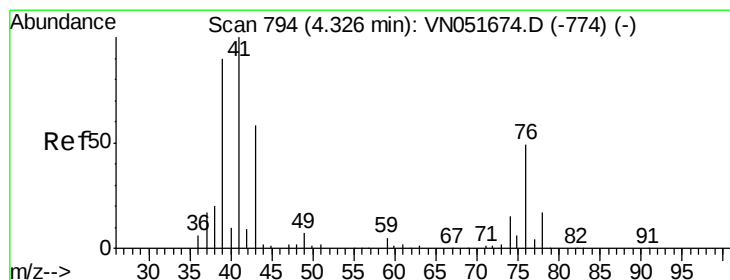
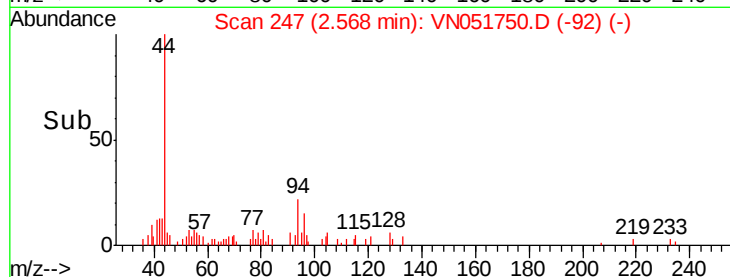
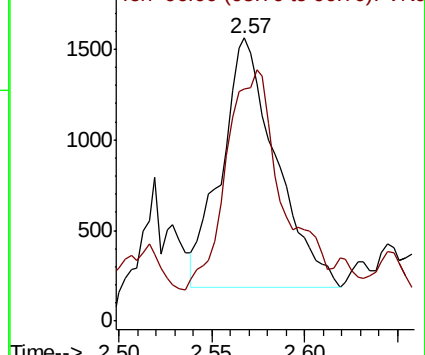
94 100

96 77.0 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 0.646 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051750.D

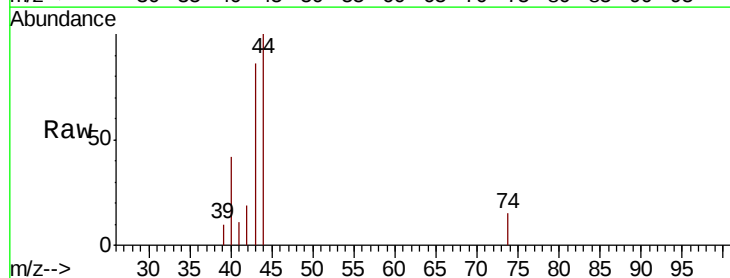
Acq: 9 Oct 2018 14:31

Tgt Ion: 43 Resp: 2703

Ion Ratio Lower Upper

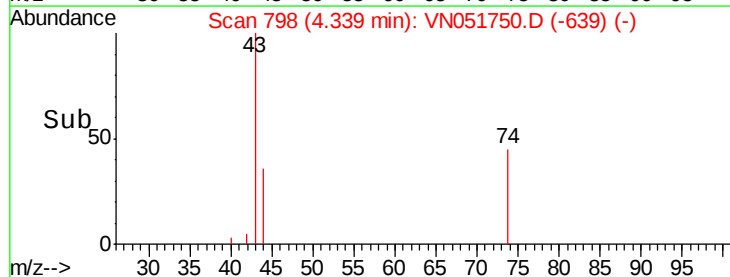
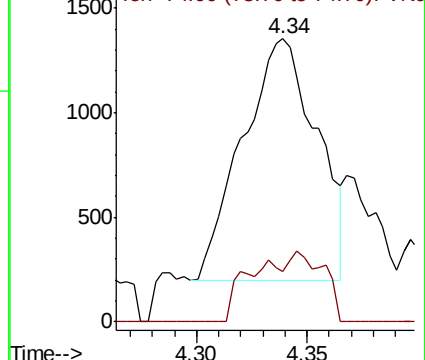
43 100

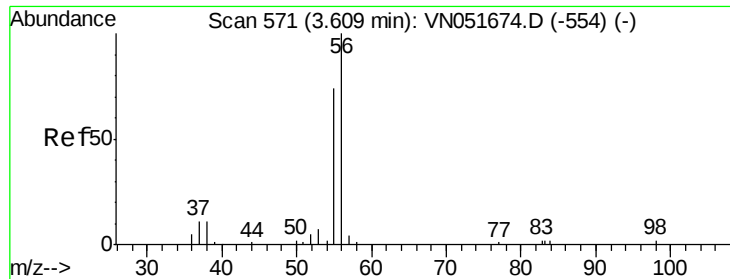
74 25.6 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.439 ug/l

RT: 3.64 min Scan# 581

Delta R.T. 0.03 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

Instrument :

MSVOA_N

ClientSampleId :

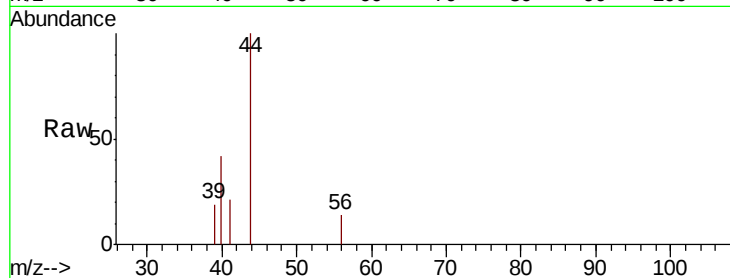
2-AVE-22

Tot Ion: 56 Resp: 135

Ion Ratio Lower Upper

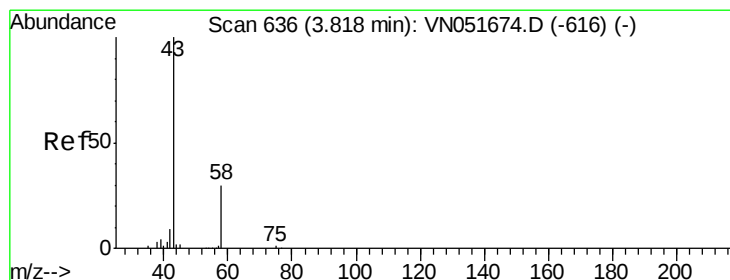
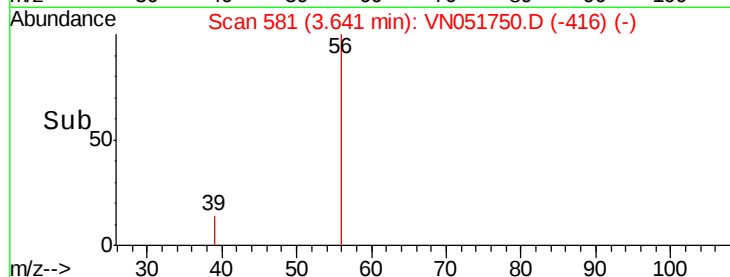
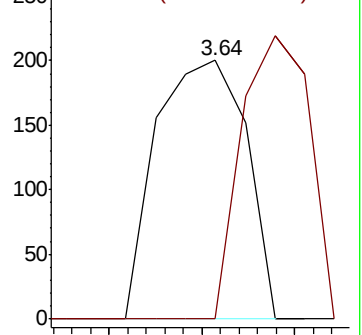
56 100

55 83.0 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 0.519 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.02 min

Lab File: VN051750.D

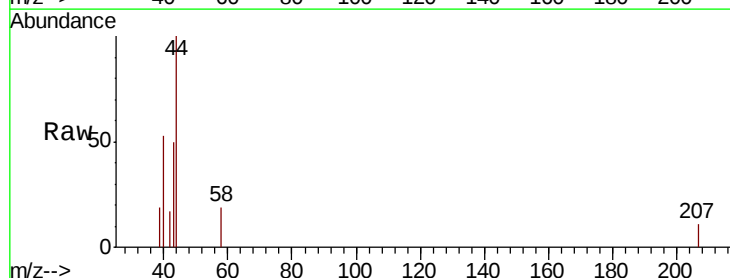
Acq: 9 Oct 2018 14:31

Tgt Ion: 58 Resp: 212

Ion Ratio Lower Upper

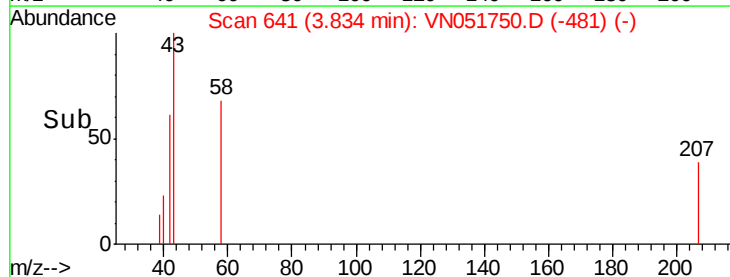
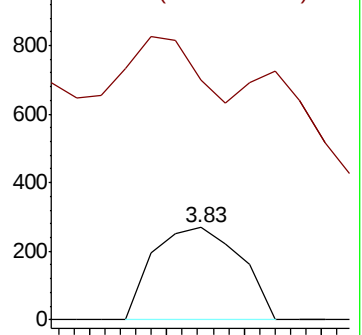
58 100

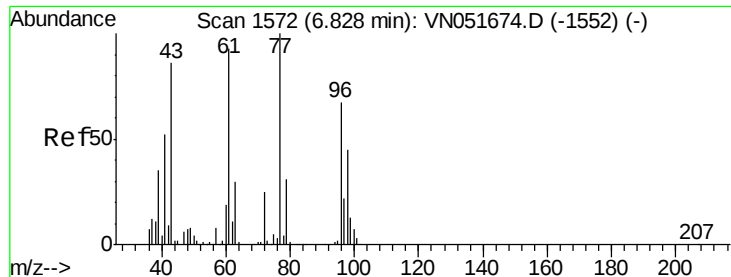
43 0.0 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#22

cis-1,2-Dichloroethene

Concen: 17.705 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-22

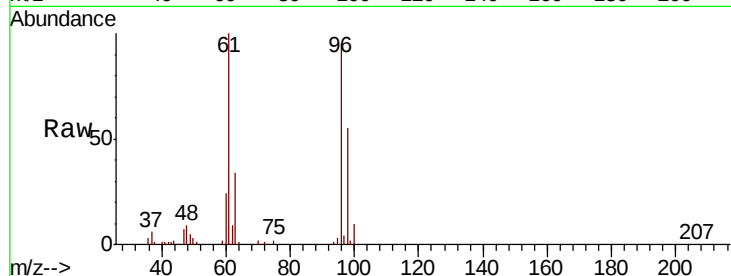
Tot Ion: 96 Resp: 124879

Ion Ratio Lower Upper

96 100

61 110.4 124.5 186.7#

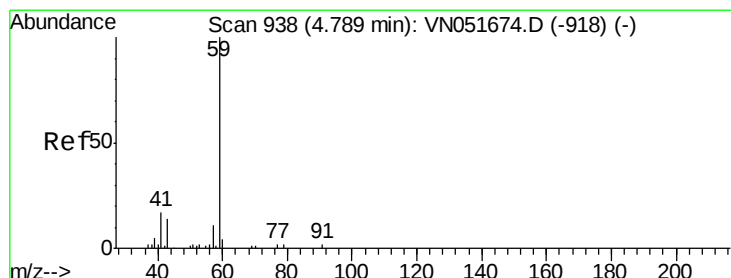
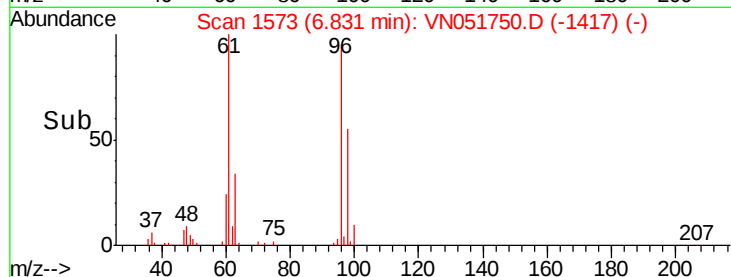
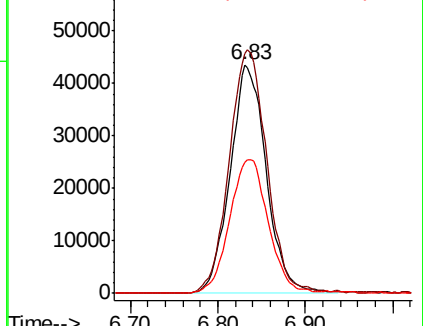
98 62.1 51.9 77.9



Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#23

tert-Butyl Alcohol

Concen: 0.365 ug/l

RT: 4.80 min Scan# 942

Delta R.T. 0.01 min

Lab File: VN051750.D

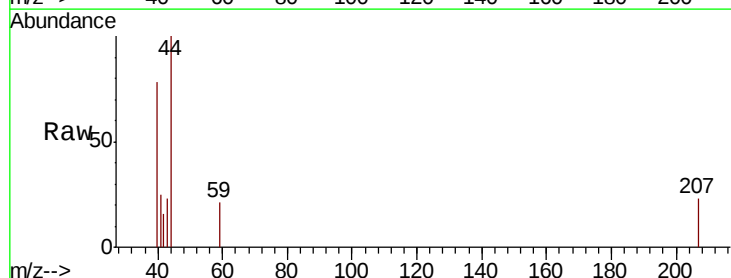
Acq: 9 Oct 2018 14:31

Tgt Ion: 59 Resp: 161

Ion Ratio Lower Upper

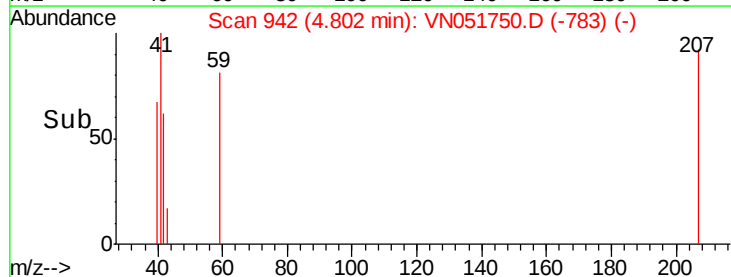
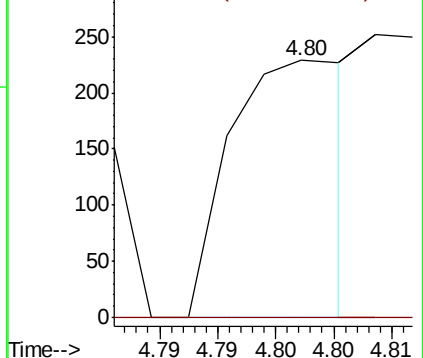
59 100

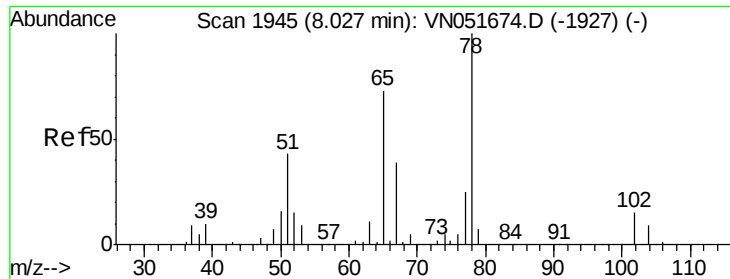
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

Instrument :

MSVOA_N

ClientSampled :

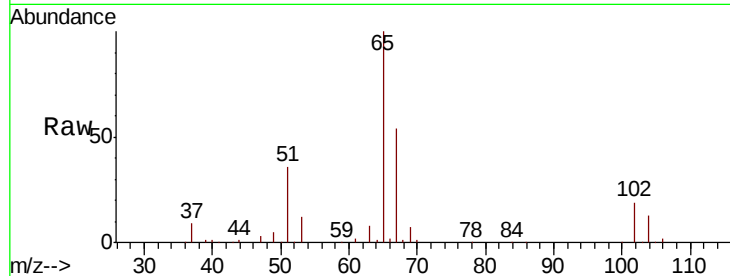
2-AVE-22

Tot Ion: 65 Resp: 224048

Ion Ratio Lower Upper

65 100

67 52.6 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051750.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN051750.D (-1927) (-)

8.03

100000

80000

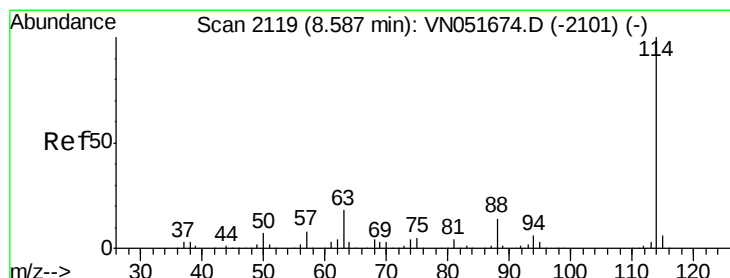
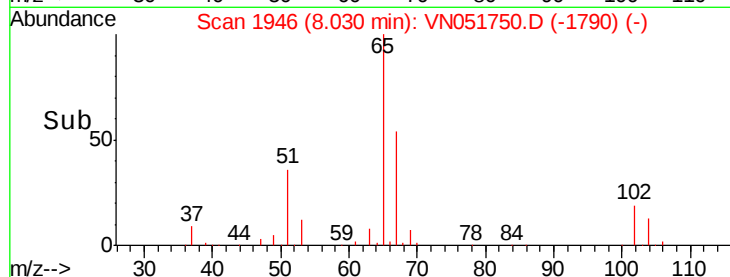
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

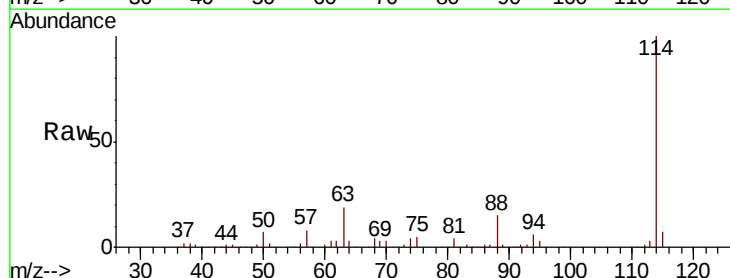
Tgt Ion:114 Resp: 627580

Ion Ratio Lower Upper

114 100

63 18.1 16.2 24.2

88 14.3 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051750.D (-1964) (-)

Ion 63.00 (62.70 to 63.70): VN051750.D (-1964) (-)

Ion 88.00 (87.70 to 88.70): VN051750.D (-1964) (-)

8.59

400000

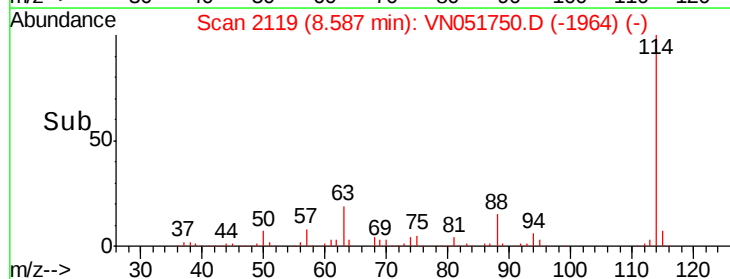
300000

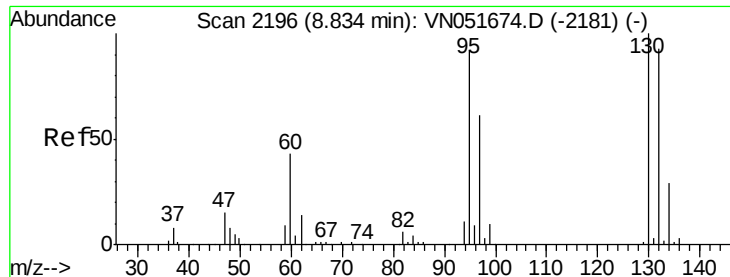
200000

100000

0

Time-->

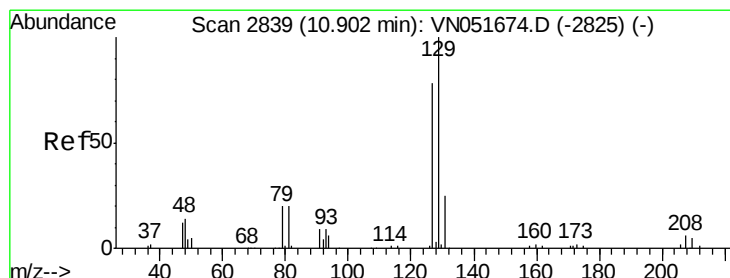
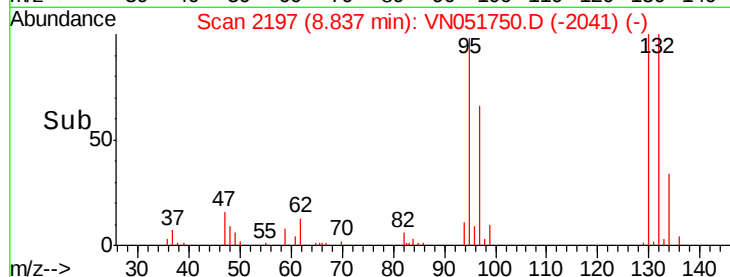
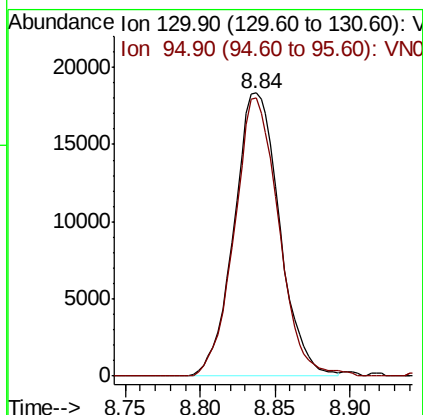
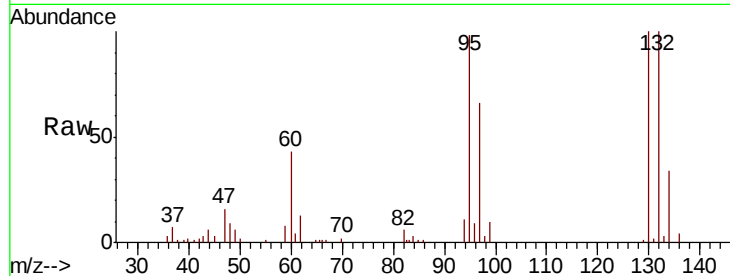




#37
 Trichloroethene
 Concen: 5.538 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN051750.D
 Acq: 9 Oct 2018 14:31

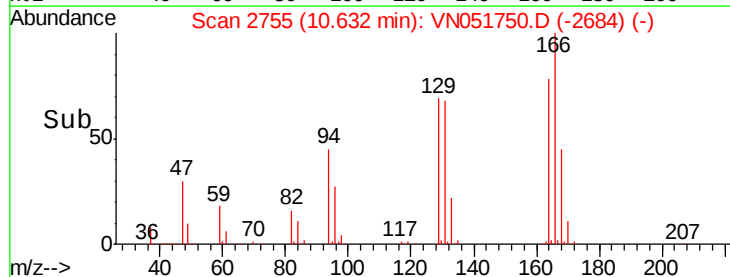
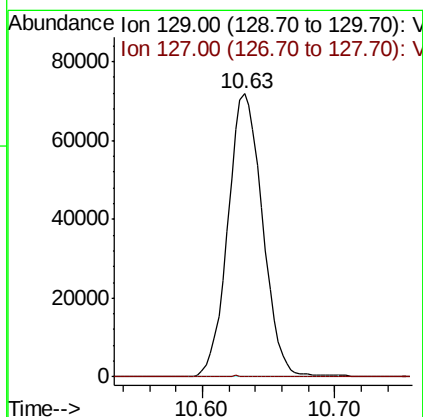
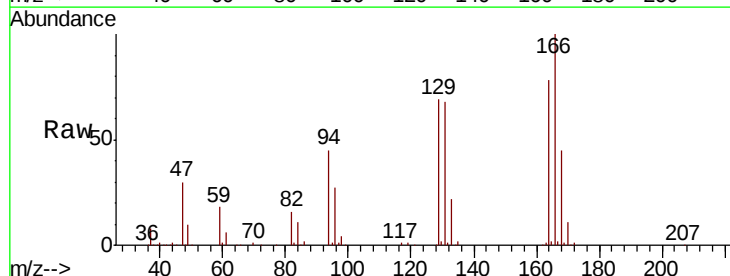
Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-22

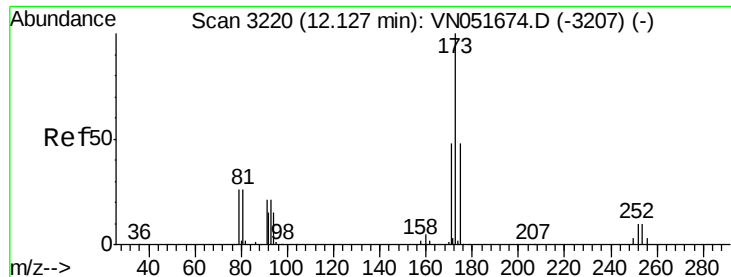
Tot Ion:130 Resp: 38853
 Ion Ratio Lower Upper
 130 100
 95 98.3 76.4 114.6



#53
 Dibromochloromethane
 Concen: 16.475 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN051750.D
 Acq: 9 Oct 2018 14:31

Tgt Ion:129 Resp: 130482
 Ion Ratio Lower Upper
 129 100
 127 0.1 40.2 120.5#





#56

Bromoform

Concen: 0.301 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

Instrument :

MSVOA_N

ClientSampled :

2-AVE-22

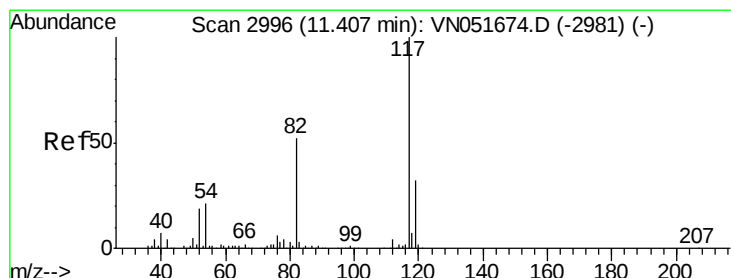
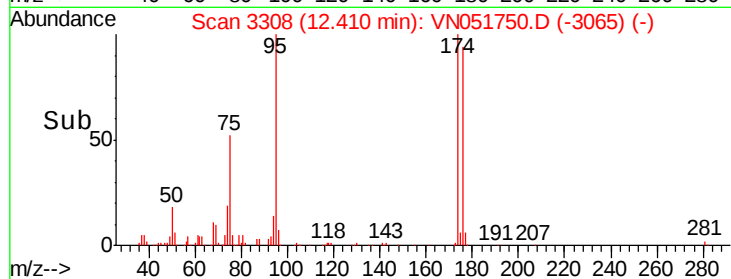
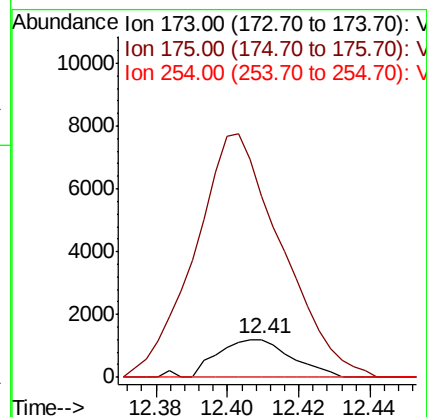
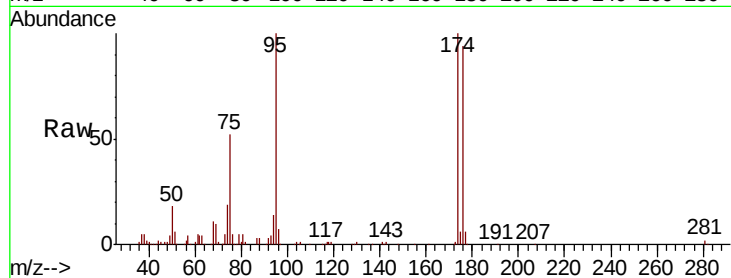
Tot Ion:173 Resp: 1708

Ion Ratio Lower Upper

173 100

175 765.3 35.8 53.8#

254 0.0 8.6 13.0#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

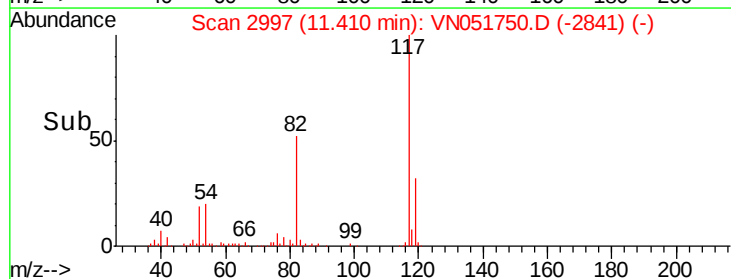
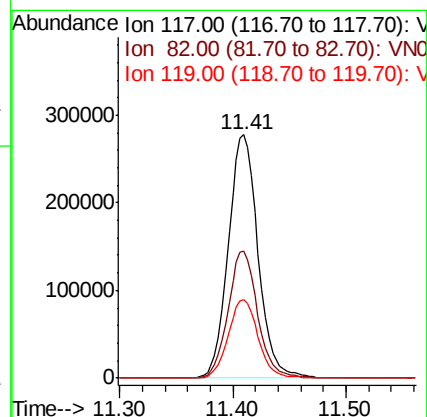
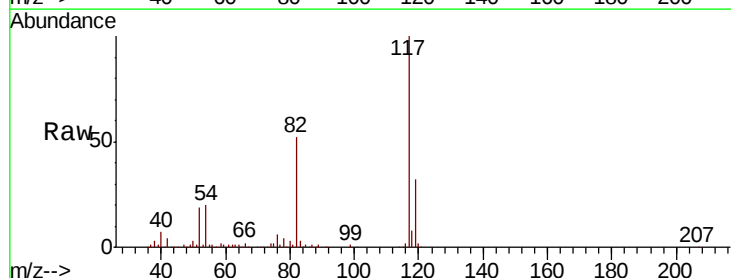
Tgt Ion:117 Resp: 506533

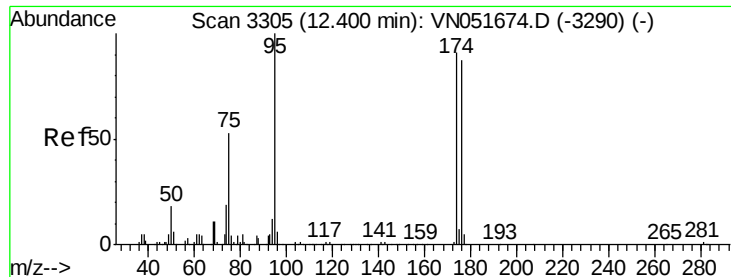
Ion Ratio Lower Upper

117 100

82 51.9 44.1 66.1

119 32.5 25.8 38.8

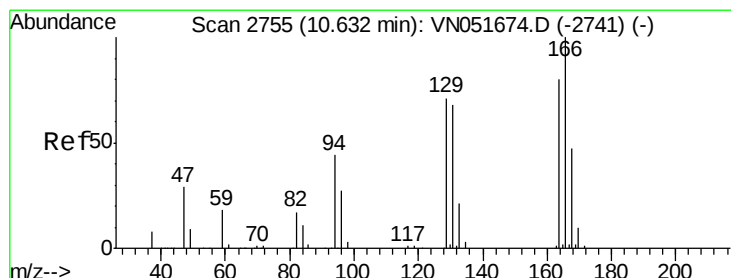
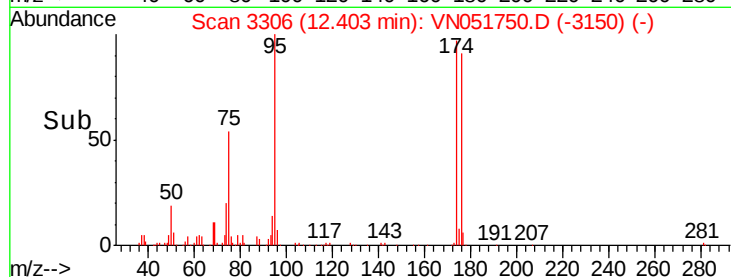
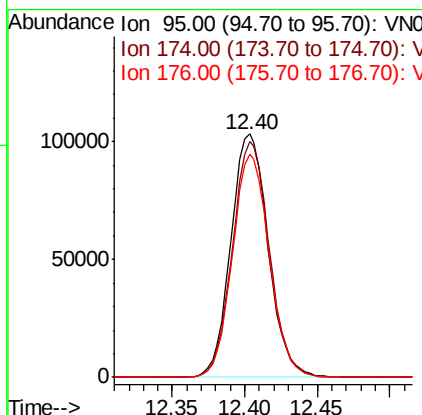
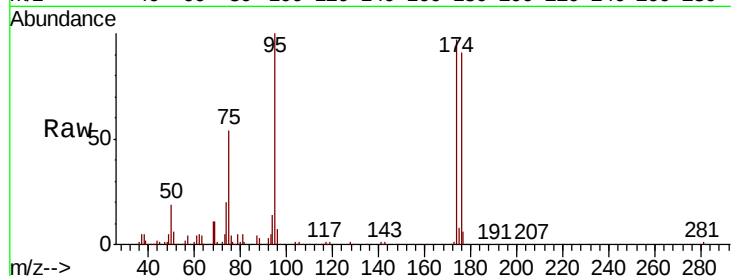




#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051750.D
Acq: 9 Oct 2018 14:31

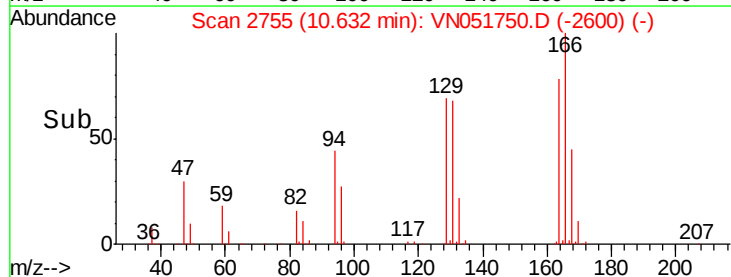
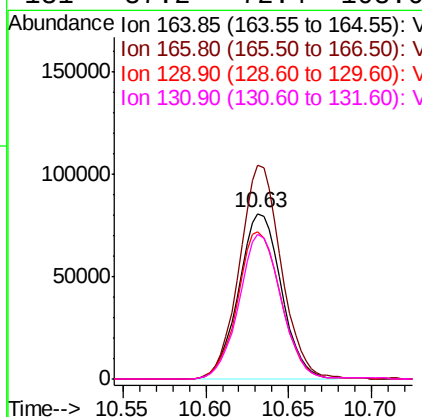
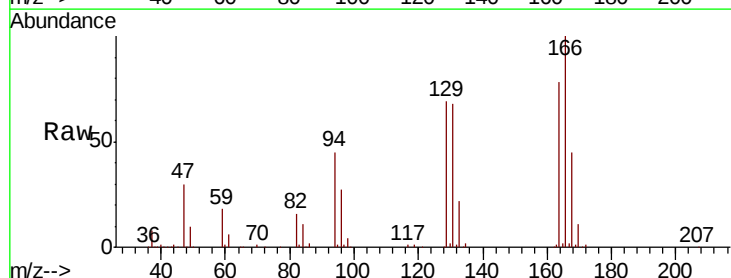
Instrument :
MSVOA_N
ClientSampled :
2-AVE-22

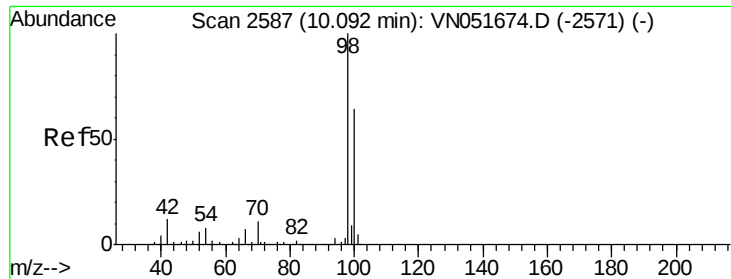
Tot Ion: 95 Resp: 184354
Ion Ratio Lower Upper
95 100
174 95.9 73.5 110.3
176 90.6 70.2 105.2



#61
Tetrachloroethene
Concen: 24.229 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051750.D
Acq: 9 Oct 2018 14:31

Tgt Ion: 164 Resp: 144582
Ion Ratio Lower Upper
164 100
166 128.9 98.7 148.1
129 88.9 69.6 104.4
131 87.2 72.4 108.6





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

Instrument :

MSVOA_N

ClientSampleId :

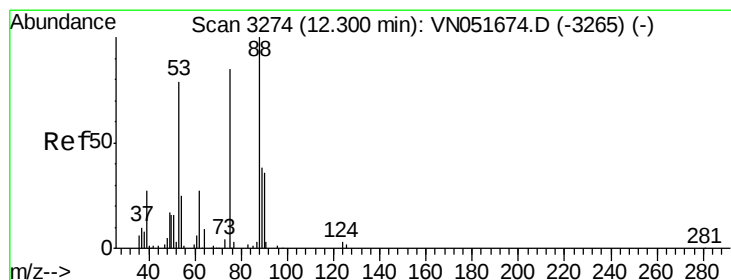
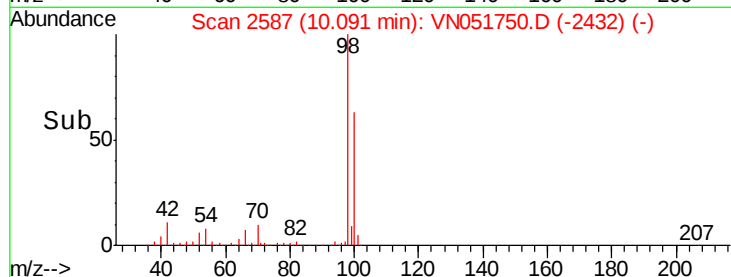
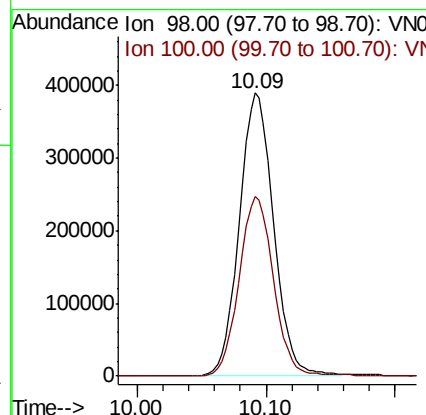
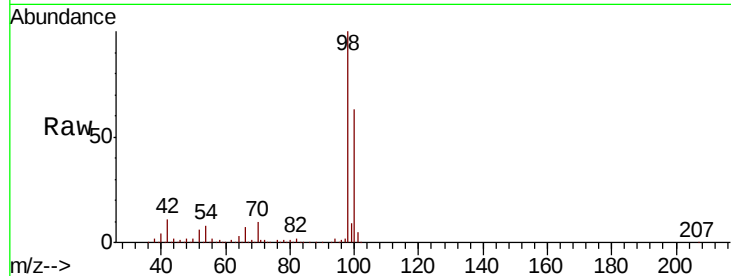
2-AVE-22

Tot Ion: 98 Resp: 722127

Ion Ratio Lower Upper

98 100

100 63.3 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 51.965 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051750.D

Acq: 9 Oct 2018 14:31

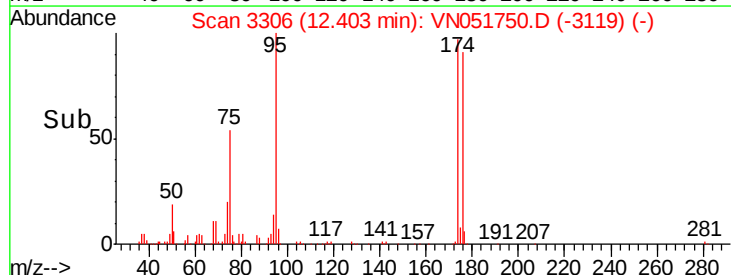
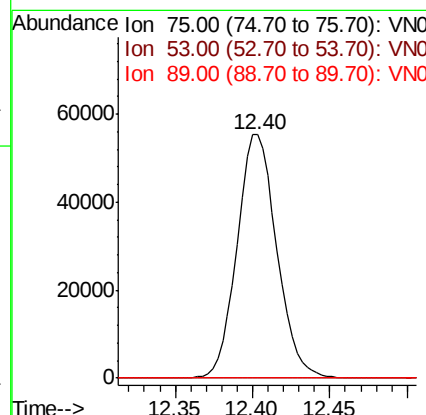
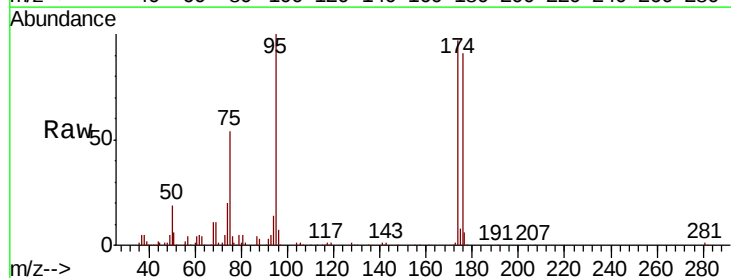
Tgt Ion: 75 Resp: 98755

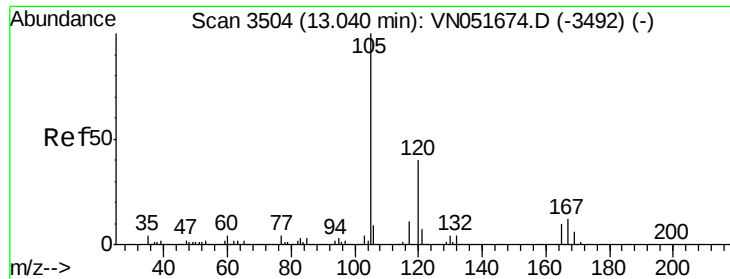
Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#

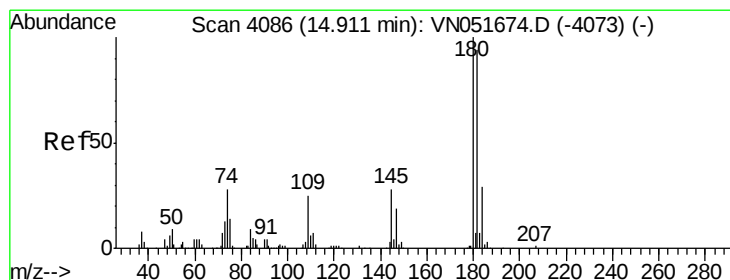
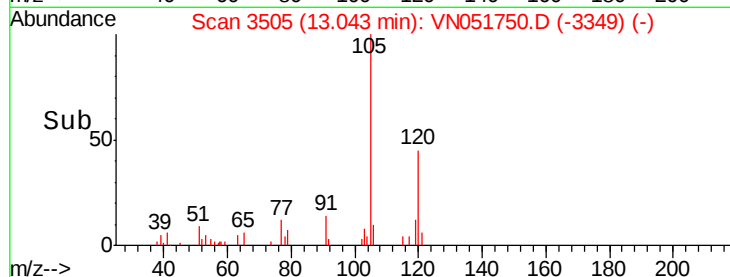
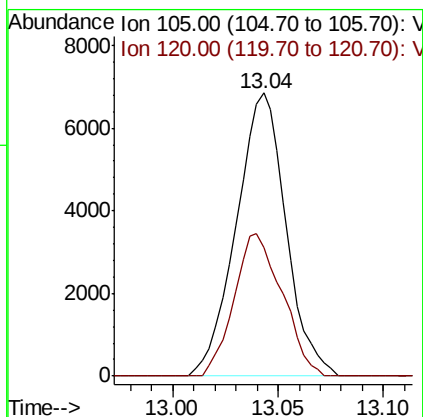
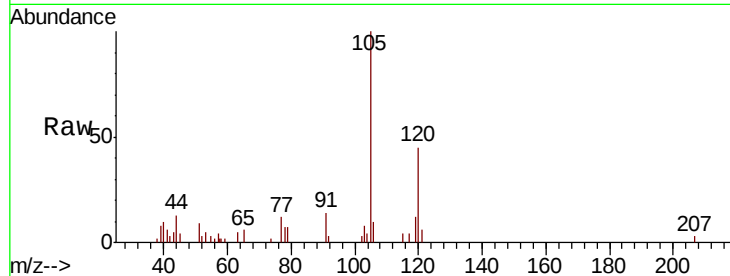




#80
 1,2,4-Trimethylbenzene
 Concen: 0.434 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN051750.D
 Acq: 9 Oct 2018 14:31

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-22

Tot Ion:105 Resp: 11207
 Ion Ratio Lower Upper
 105 100
 120 48.7 0.0 89.6



#89
 1,2,4-Trichlorobenzene
 Concen: 6.911 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051750.D
 Acq: 9 Oct 2018 14:31

Tgt Ion:180 Resp: 627
 Ion Ratio Lower Upper
 180 100
 182 73.5 77.7 116.5#
 145 21.5 23.4 35.2#

