

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050732.D
 Acq On : 17 Aug 2018 16:02
 Operator : MD\SY
 Sample : J4548-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:19:59 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	113568	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	595830	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	508719	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	229350	29.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.03%
60) 4-Bromofluorobenzene	12.40	95	207532	26.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.50%
63) Toluene-d8	10.09	98	686501	28.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.17%

Target Compounds

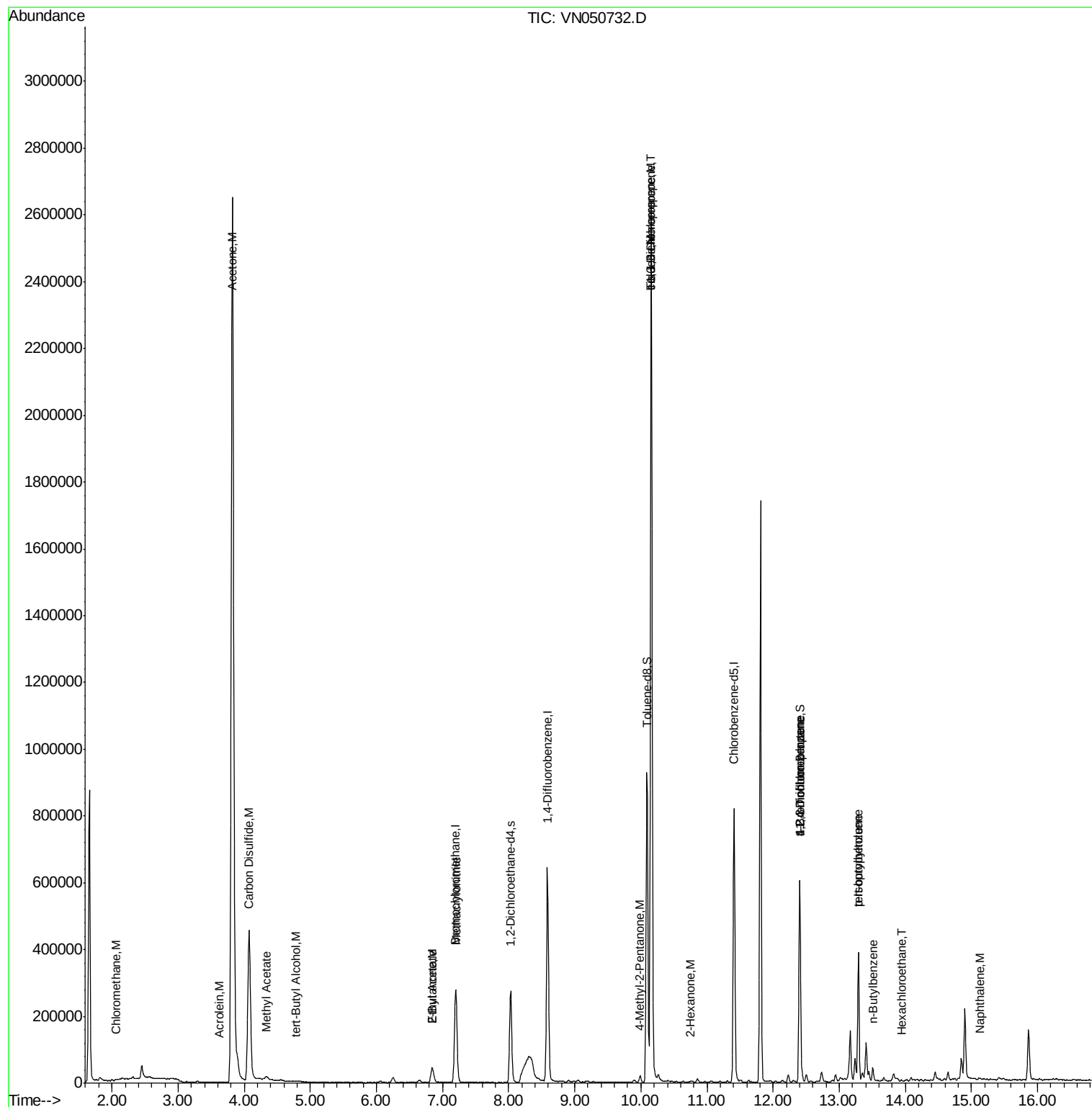
						Ovalue
3) Chloromethane	2.06	50	2076	0.26	ug/l	99
12) Methyl Acetate	4.34	43	14201	2.05	ug/l	97
13) Acrolein	3.63	56	171	0.40	ug/l #	48
15) Acetone	3.82	58	1505205	2447.08	ug/l	89
16) Carbon Disulfide	4.05	76	12737	0.69	ug/l	96
23) tert-Butyl Alcohol	4.80	59	182	0.35	ug/l #	100
30) 2-Butanone	6.84	43	72039	24.83	ug/l #	94
35) Methacrylonitrile	7.21	41	1308	0.40	ug/l #	53
43) Ethyl Acetate	6.84	43	72039	11.89	ug/l #	68
48) t-1,3-Dichloropropene	10.16	75	12928	1.41	ug/l #	1
49) cis-1,3-Dichloropropene	10.16	75	12928	1.20	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	13646	2.31	ug/l	99
59) 2-Hexanone	10.76	43	1652	0.41	ug/l #	61
62) Toluene	10.16	91	2087563	71.92	ug/l	100
72) 1,2,3-Trichloropropane	12.40	75	98669	14.55	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	98669	44.49	ug/l #	14
79) tert-butylbenzene	13.29	119	206786	10.18	ug/l	61
82) p-Isopropyltoluene	13.29	119	206786	8.78	ug/l	98
85) n-Butylbenzene	13.51	91	6191	0.32	ug/l	91
86) Hexachloroethane	13.95	117	1806	0.38	ug/l #	3
91) Naphthalene	15.13	128	1838	7.73	ug/l #	74

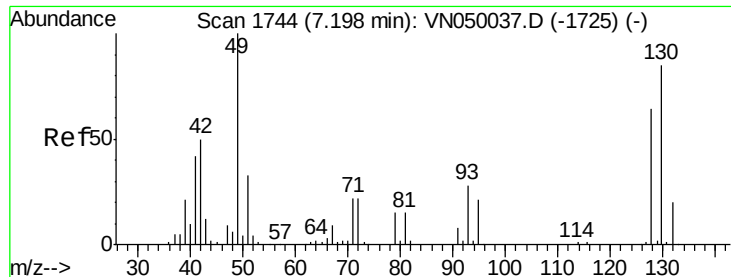
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

Instrument :

MSVOA_N

ClientSampled :

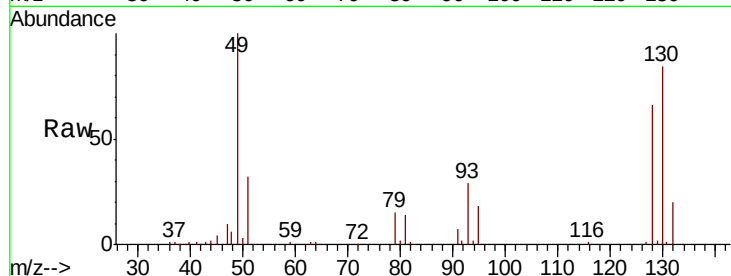
Tot Ion:128 Resp: 113568

Ion Ratio Lower Upper

128 100

49 154.7 0.0 378.3

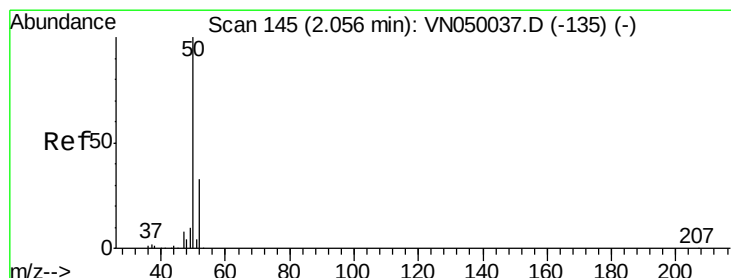
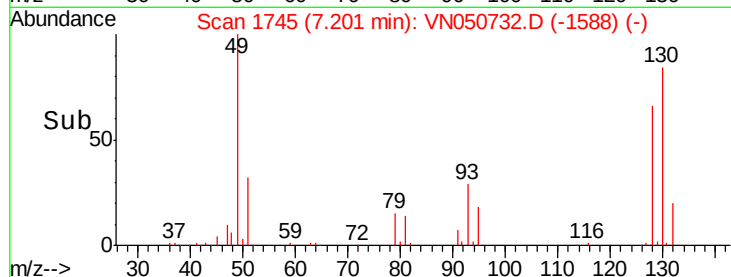
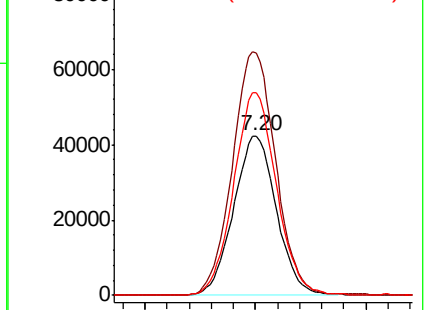
130 127.5 0.0 320.7



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



#3

Chloromethane

Concen: 0.26 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050732.D

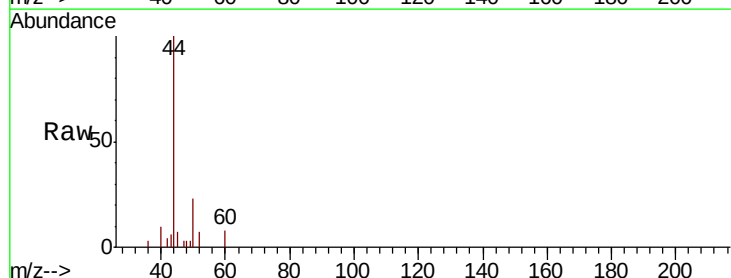
Acq: 17 Aug 2018 16:02

Tgt Ion: 50 Resp: 2076

Ion Ratio Lower Upper

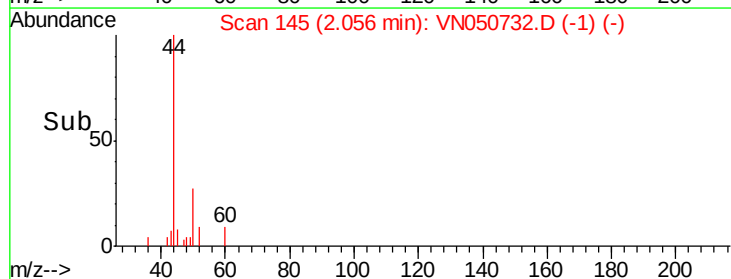
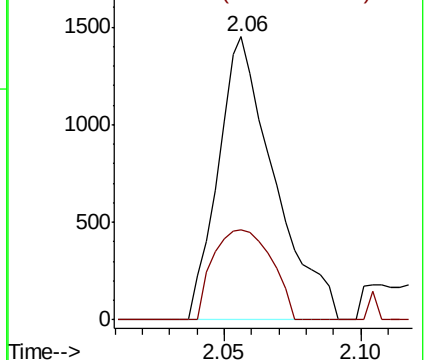
50 100

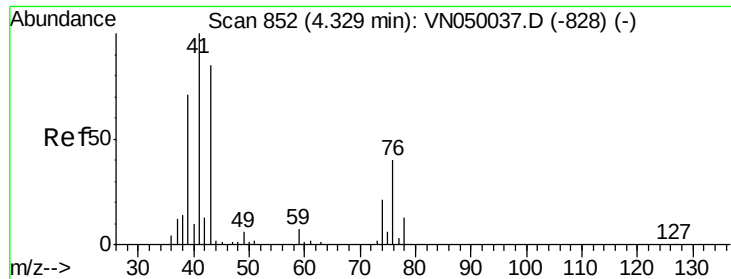
52 31.8 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

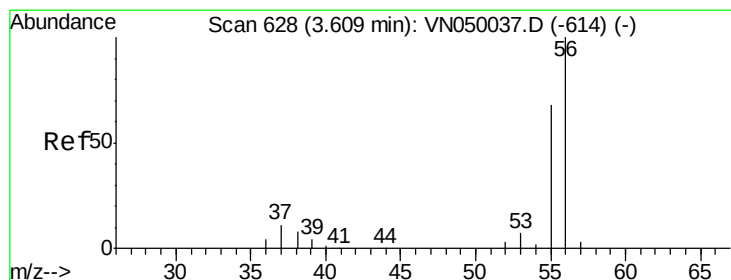
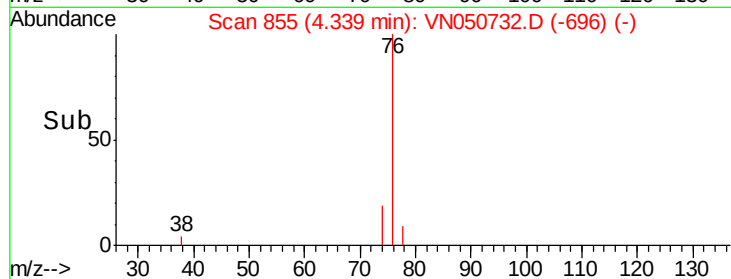
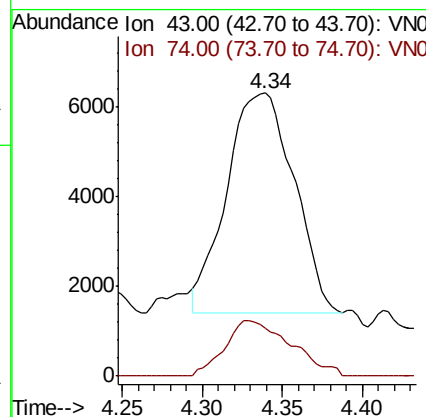
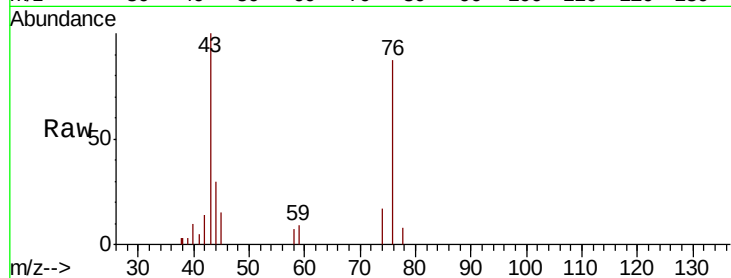




#12
Methvl Acetate
Concen: 2.05 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

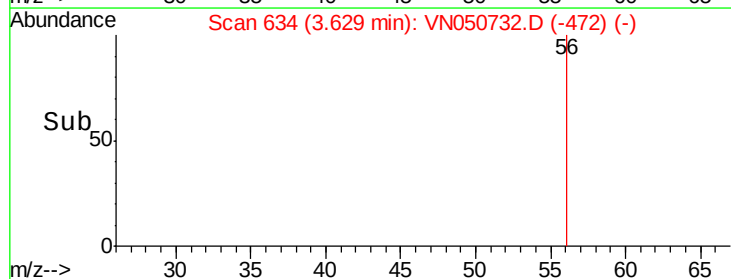
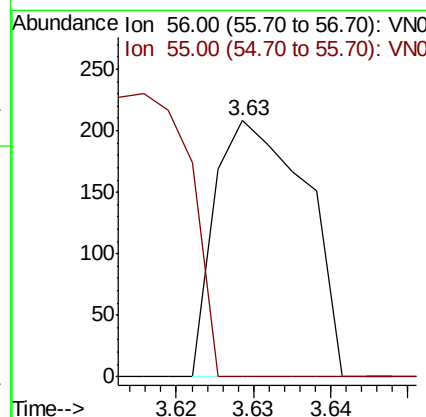
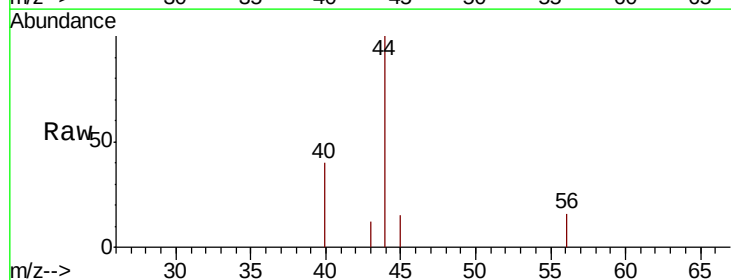
Instrument :
MSVOA_N
ClientSampled :

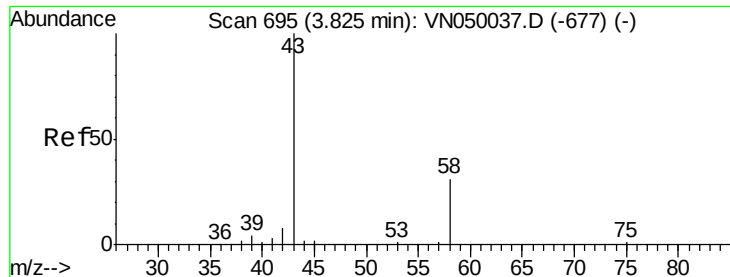
Tot Ion: 43 Resp: 14201
Ion Ratio Lower Upper
43 100
74 22.8 19.3 28.9



#13
Acrolein
Concen: 0.40 ug/l
RT: 3.63 min Scan# 634
Delta R.T. 0.02 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

Tgt Ion: 56 Resp: 171
Ion Ratio Lower Upper
56 100
55 117.0 58.6 88.0#





#15

Acetone

Concen: 2447.08 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

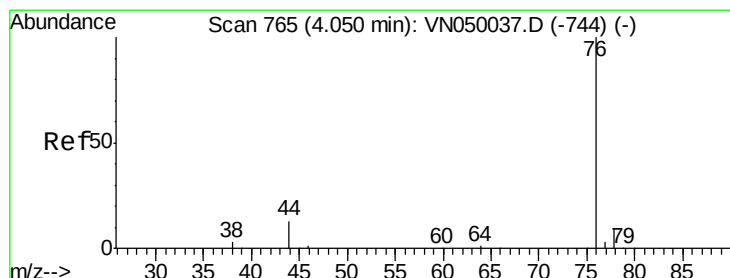
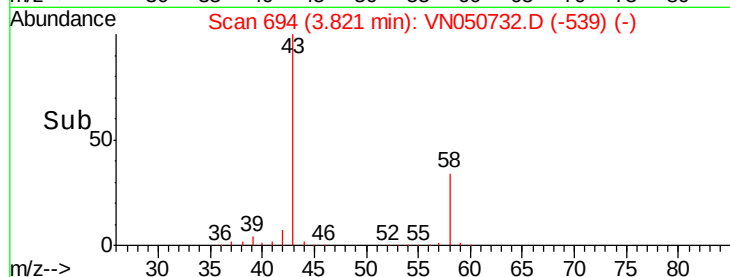
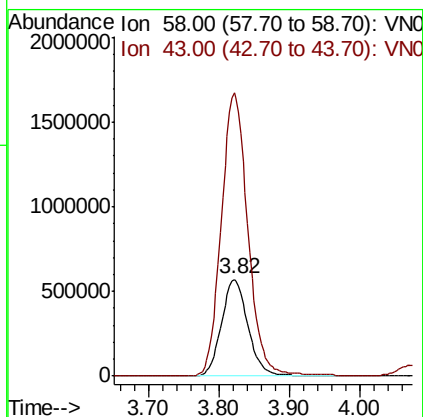
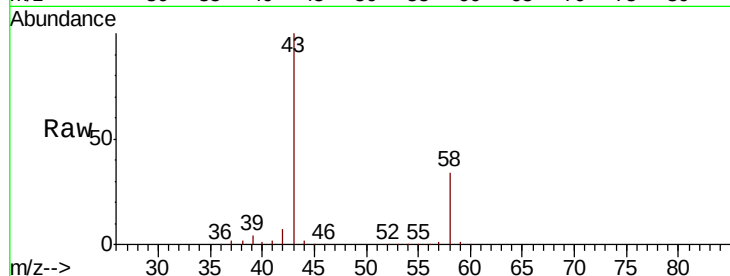
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 58 Resp: 1505205

Ion Ratio Lower Upper

58 100

43 292.5 252.0 378.0



#16

Carbon Disulfide

Concen: 0.69 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050732.D

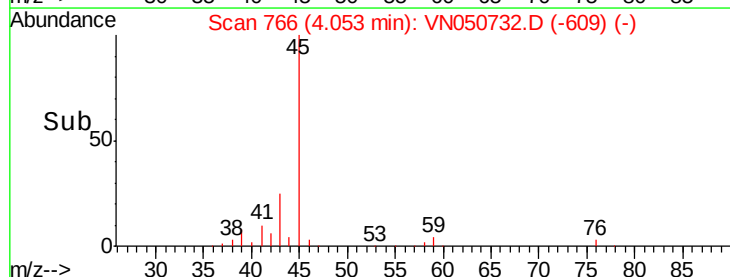
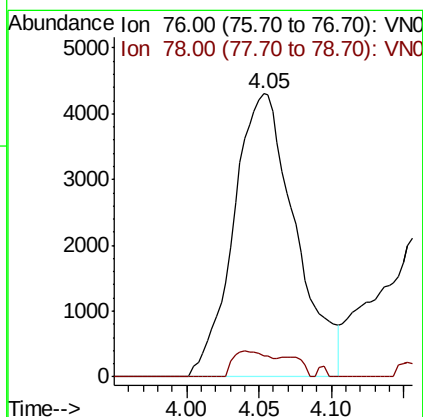
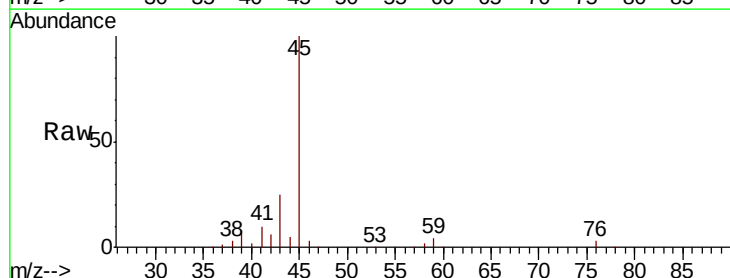
Acq: 17 Aug 2018 16:02

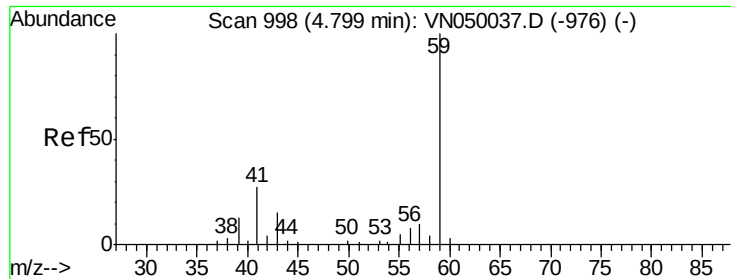
Tgt Ion: 76 Resp: 12737

Ion Ratio Lower Upper

76 100

78 7.6 7.3 10.9





#23

tert-Butyl Alcohol

Concen: 0.35 ug/l

RT: 4.80 min Scan# 997

Delta R.T. -0.00 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

Instrument :

MSVOA_N

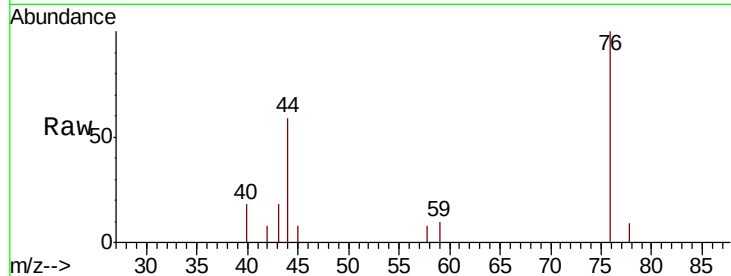
ClientSampled :

Tot Ion: 59 Resp: 182

Ion Ratio Lower Upper

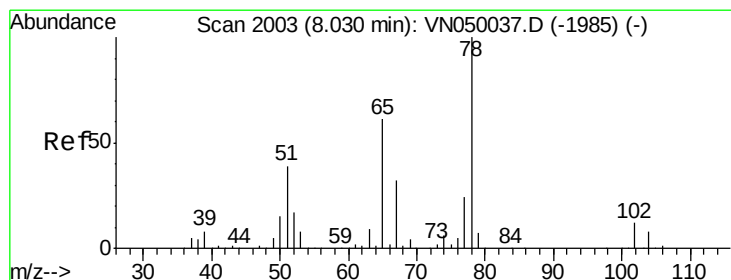
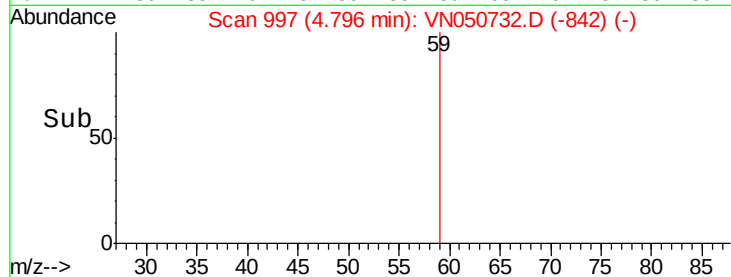
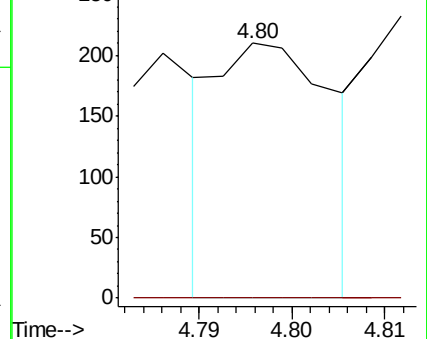
59 100

52 0.0 0.1 0.1#



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: 29.71 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050732.D

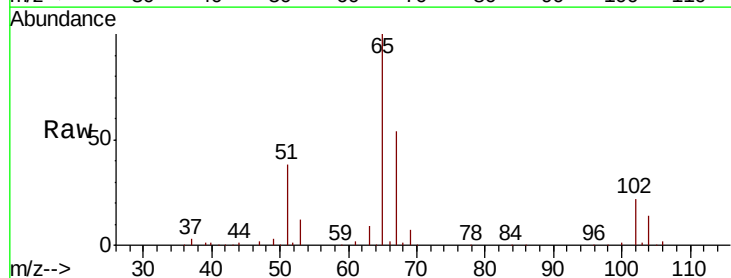
Acq: 17 Aug 2018 16:02

Tgt Ion: 65 Resp: 229350

Ion Ratio Lower Upper

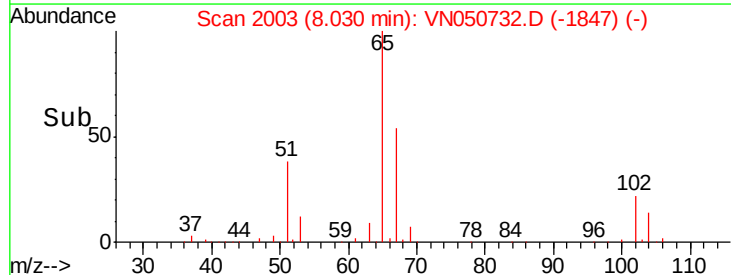
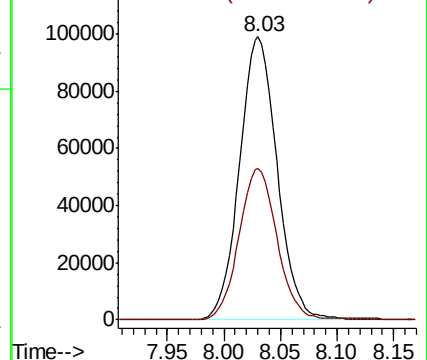
65 100

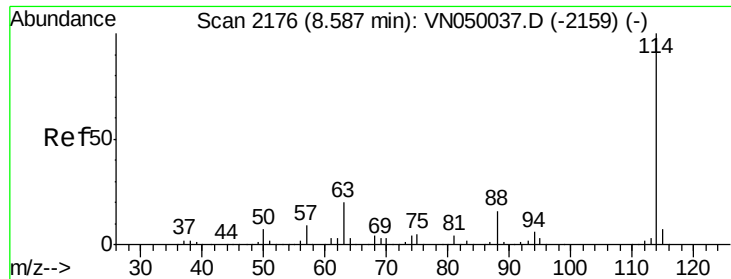
67 53.9 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

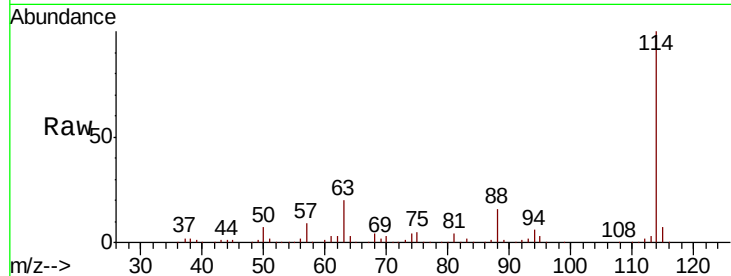




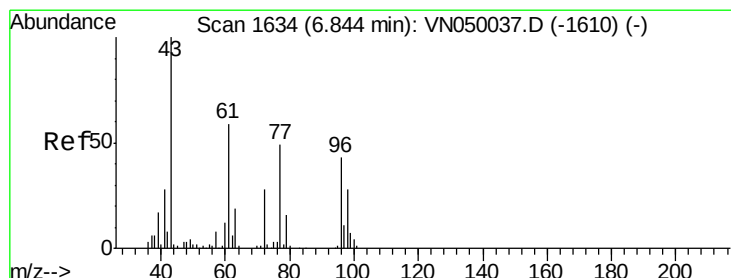
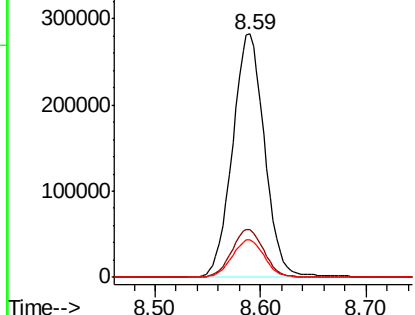
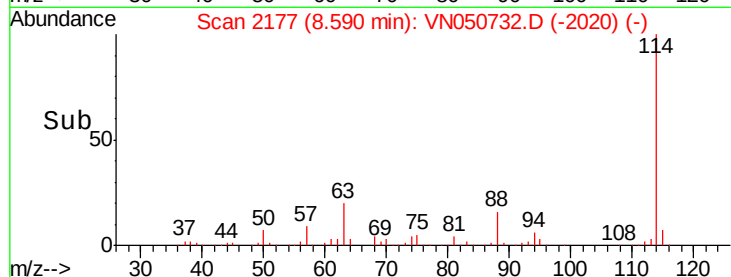
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050732.D
 Acq: 17 Aug 2018 16:02

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 595830
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.2 24.2
 88 15.6 12.3 18.5

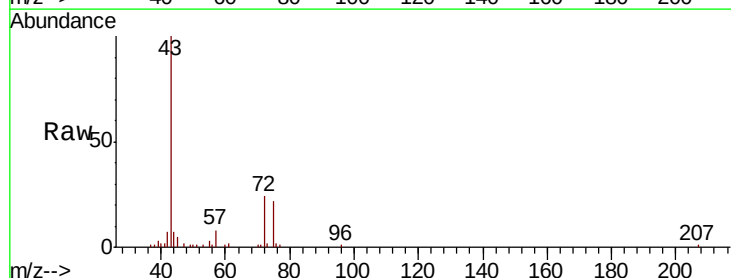


Abundance Ion 114.00 (113.70 to 114.70): VN050732.D (-2020) (-)
 Ion 63.00 (62.70 to 63.70): VN050732.D (-2020) (-)
 Ion 88.00 (87.70 to 88.70): VN050732.D (-2020) (-)

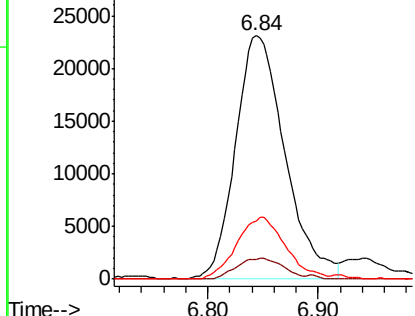
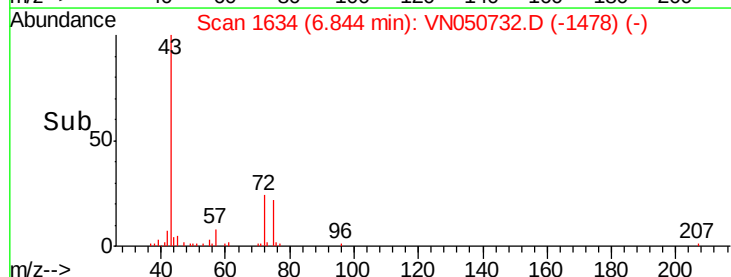


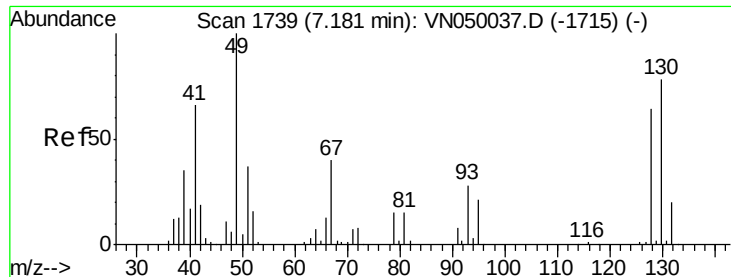
#30
 2-Butanone
 Concen: 24.83 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: VN050732.D
 Acq: 17 Aug 2018 16:02

Tgt Ion: 43 Resp: 72039
 Ion Ratio Lower Upper
 43 100
 57 3.7 6.8 10.2#
 72 25.1 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN050732.D (-1478) (-)
 Ion 57.00 (56.70 to 57.70): VN050732.D (-1478) (-)
 Ion 72.00 (71.70 to 72.70): VN050732.D (-1478) (-)

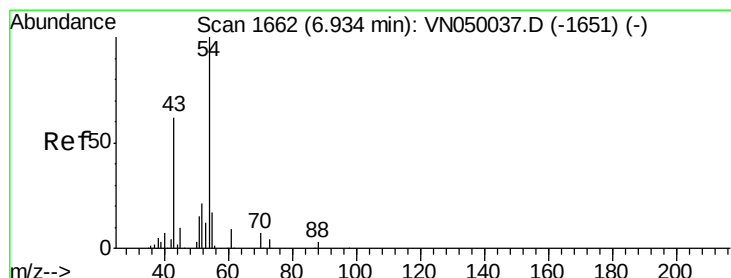
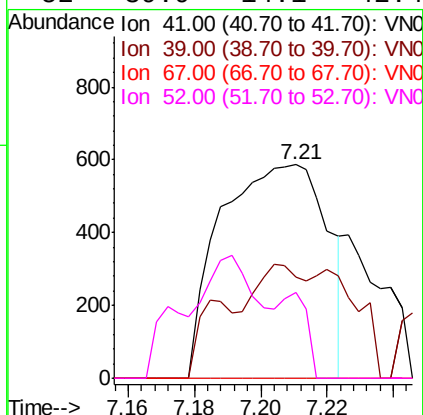
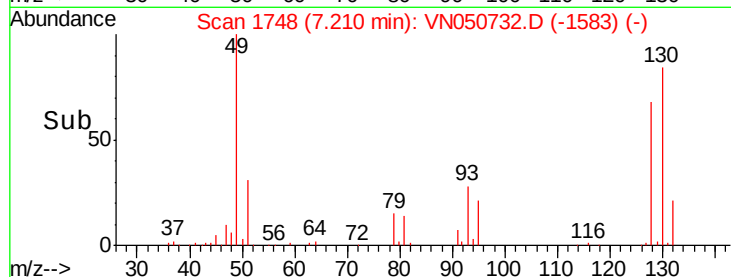
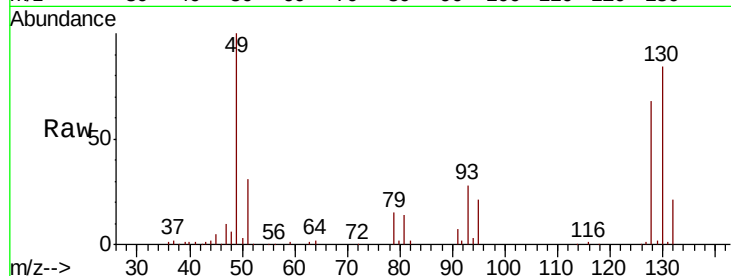




#35
Methacrylonitrile
Concen: 0.40 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. 0.03 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

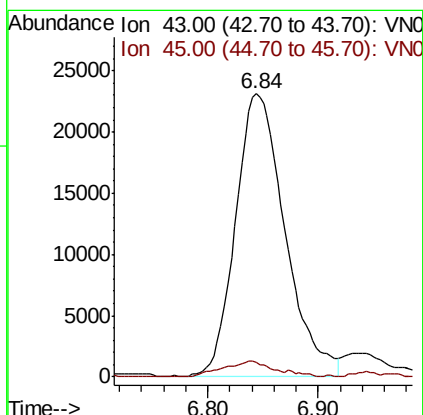
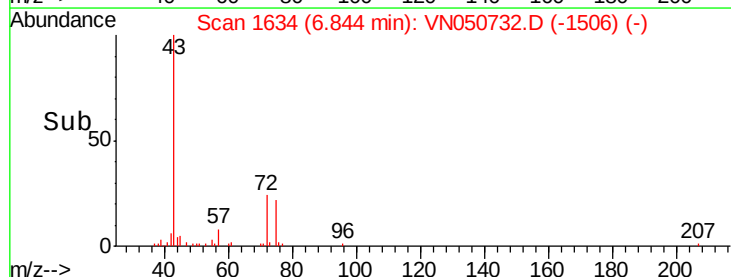
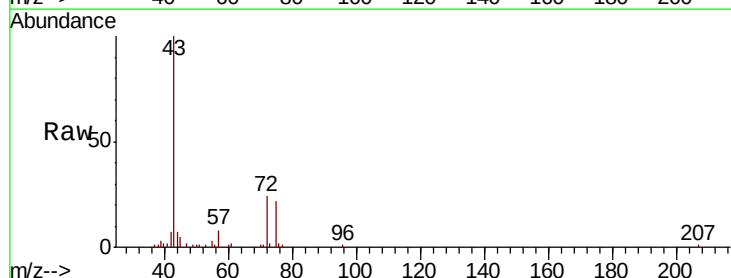
Instrument :
MSVOA_N
ClientSampled :

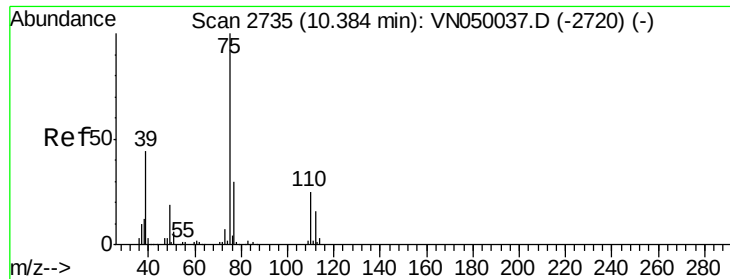
Tot Ion: 41 Resp: 1308
Ion Ratio Lower Upper
41 100
39 47.5 27.6 82.7
67 0.0 35.1 105.5#
52 39.9 14.1 42.4



#43
Ethyl Acetate
Concen: 11.89 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. -0.09 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

Tgt Ion: 43 Resp: 72039
Ion Ratio Lower Upper
43 100
45 2.8 13.0 19.6#





#48

t-1,3-Dichloropropene

Concen: 1.41 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.23 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

Instrument :

MSVOA_N

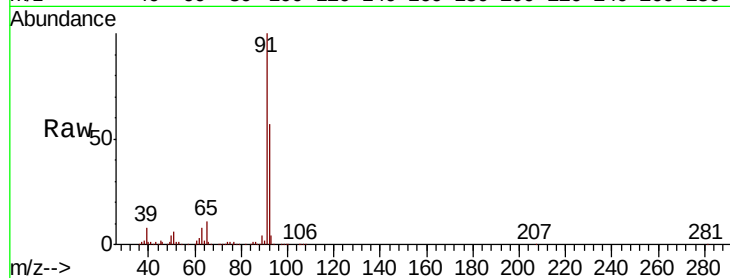
ClientSampled :

Tot Ion: 75 Resp: 12928

Ion Ratio Lower Upper

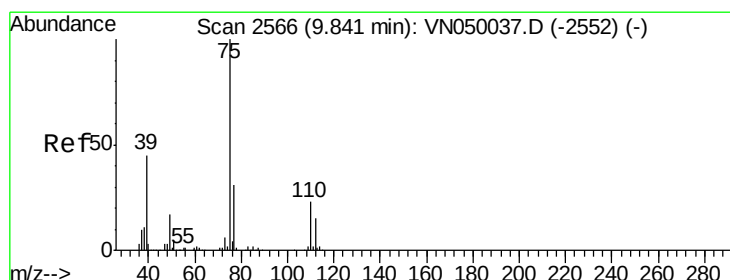
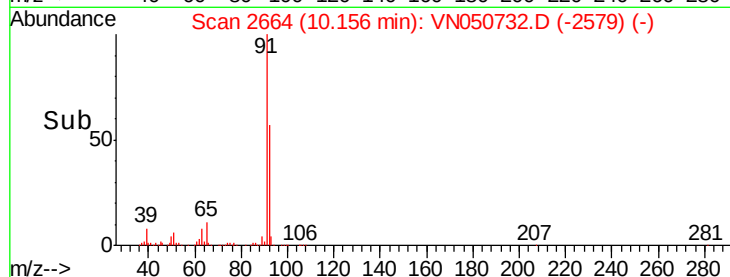
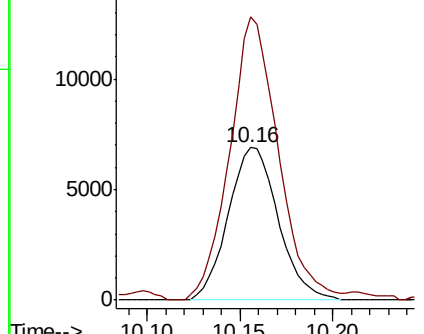
75 100

77 182.0 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#49

cis-1,3-Dichloropropene

Concen: 1.20 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.32 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

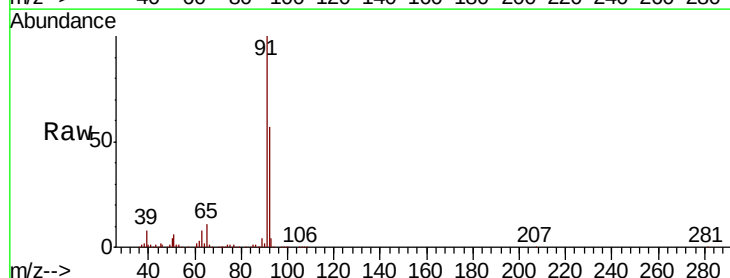
Tgt Ion: 75 Resp: 12928

Ion Ratio Lower Upper

75 100

77 182.0 25.7 38.5#

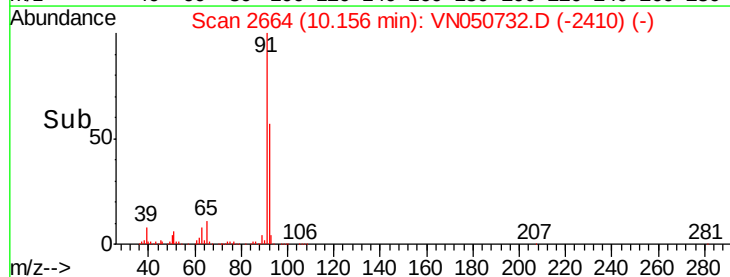
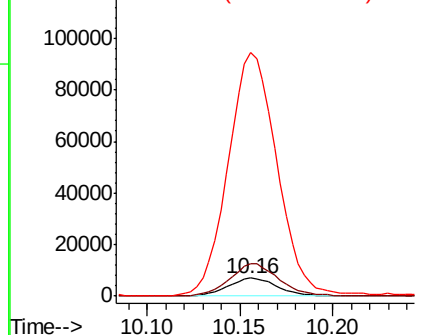
39 1351.6 36.3 54.5#

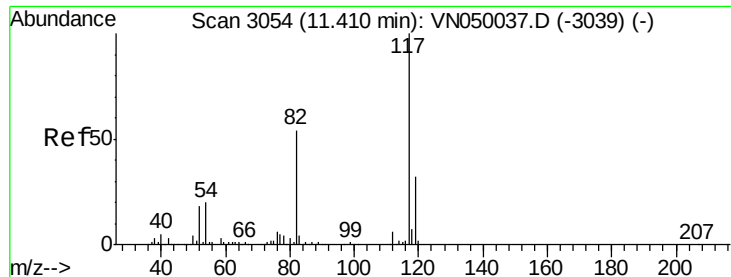


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

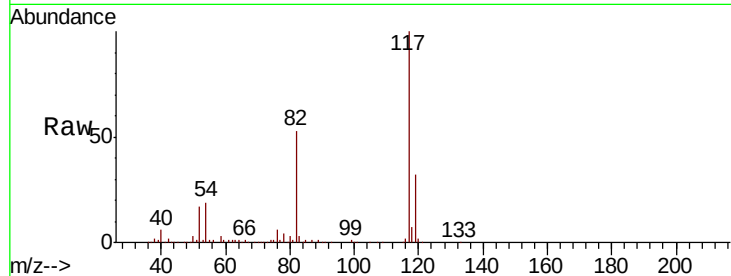




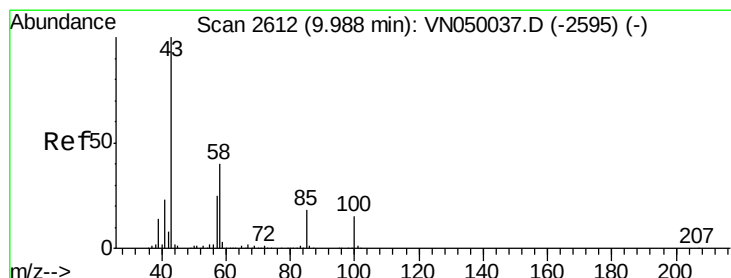
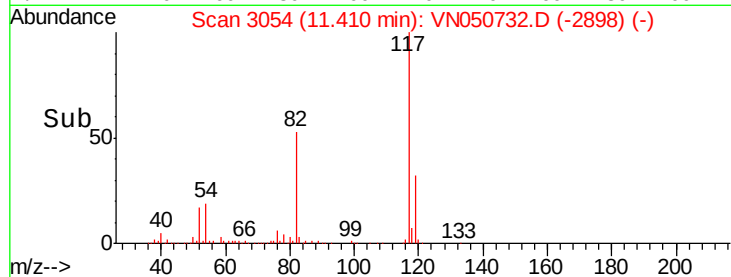
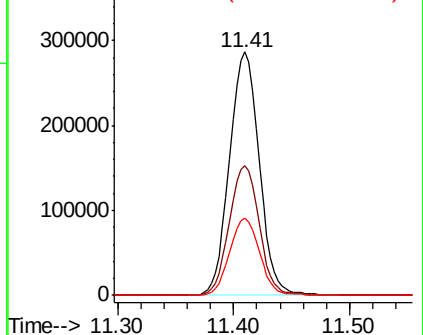
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.4	63.6
119	32.0	25.4	38.0

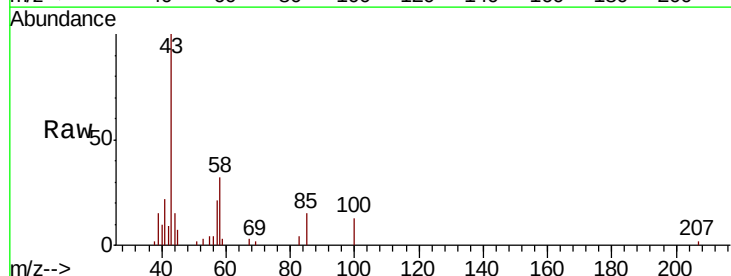


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

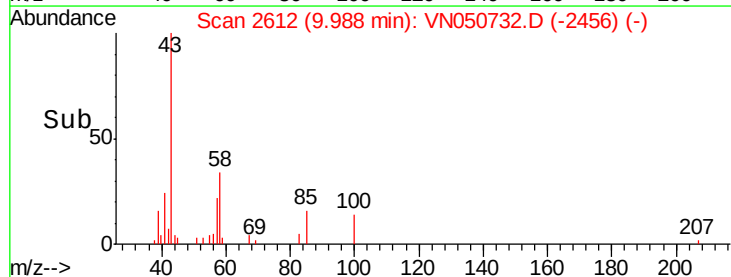
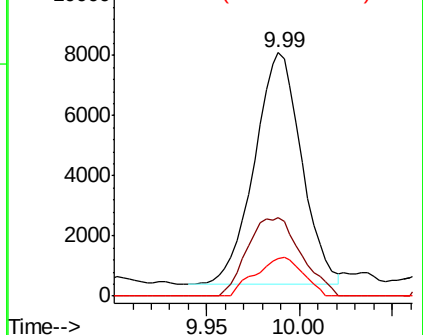


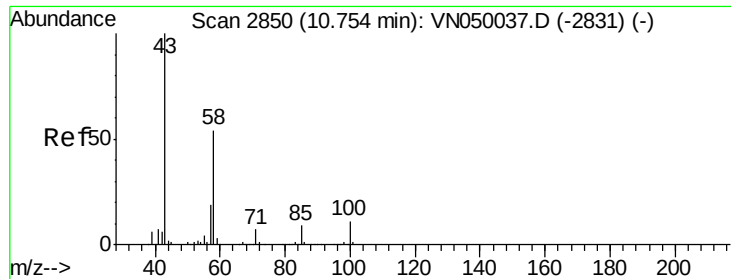
#58
4-Methyl-2-Pentanone
Concen: 2.31 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.6	31.2	46.8
85	16.7	14.4	21.6



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V

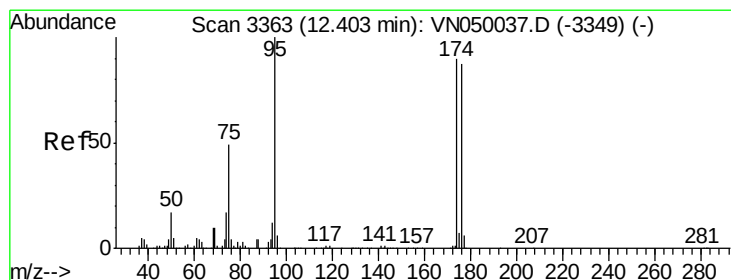
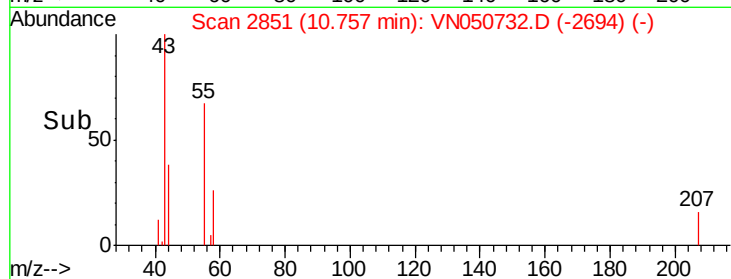
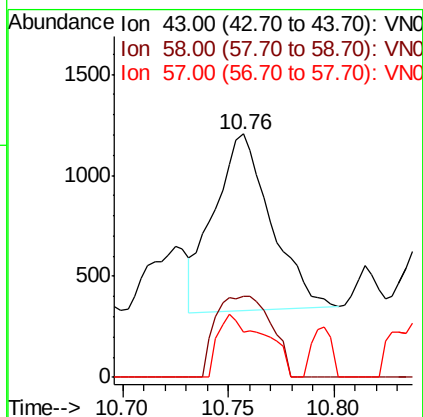
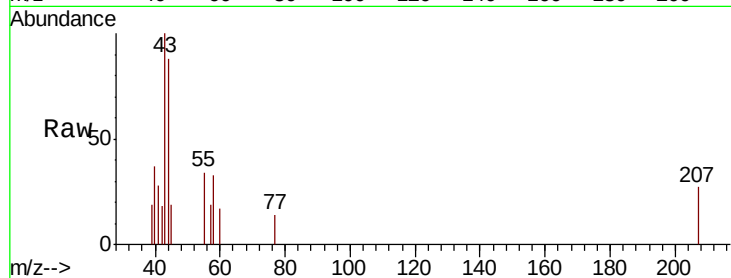




#59
2-Hexanone
Concen: 0.41 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

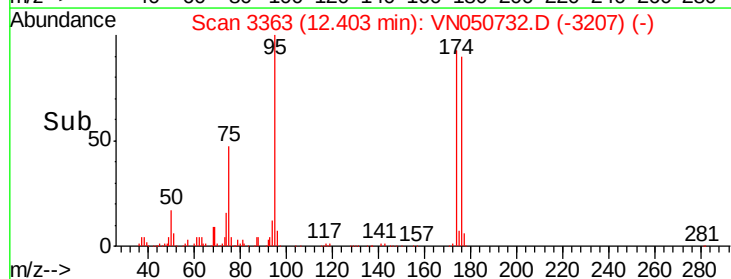
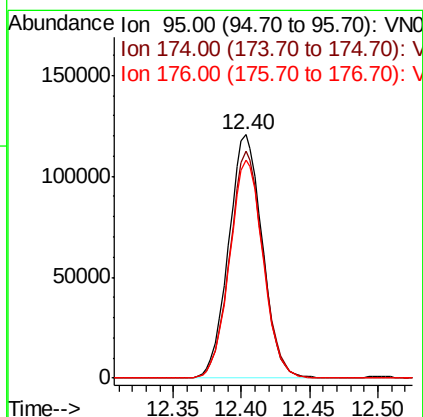
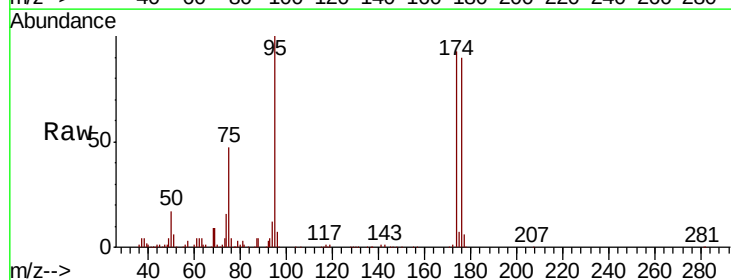
Instrument :
MSVOA_N
ClientSampleId :

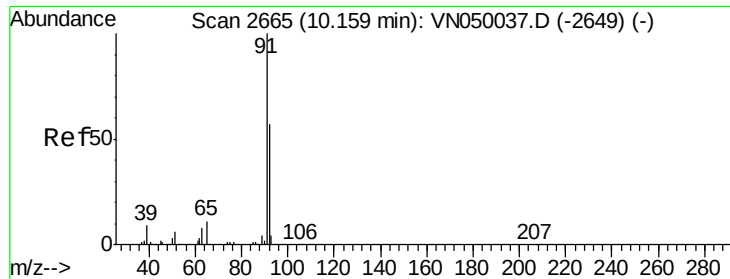
Tot Ion: 43 Resp: 1652
Ion Ratio Lower Upper
43 100
58 19.2 43.8 65.8#
57 15.0 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 26.55 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

Tgt Ion: 95 Resp: 207532
Ion Ratio Lower Upper
95 100
174 91.9 72.3 108.5
176 88.7 70.0 105.0





#62

Toluene

Concen: 71.92 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

Instrument :

MSVOA_N

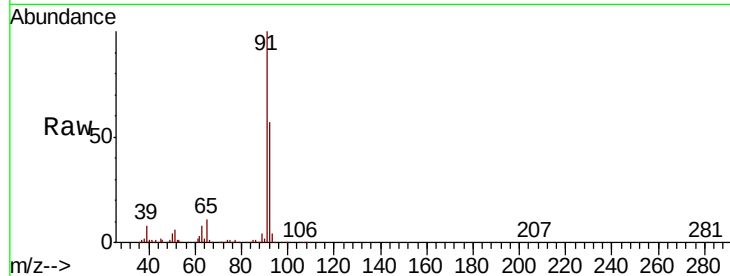
ClientSampled :

Tot Ion: 91 Resp: 2087563

Ion Ratio Lower Upper

91 100

92 56.8 45.7 68.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

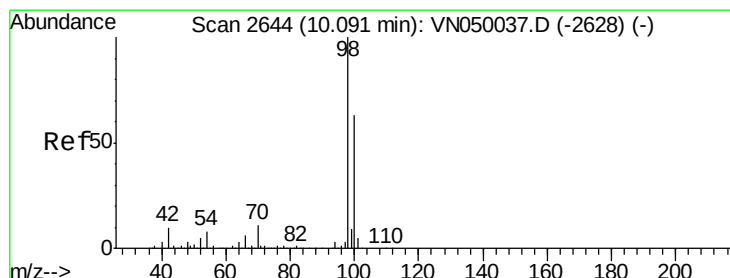
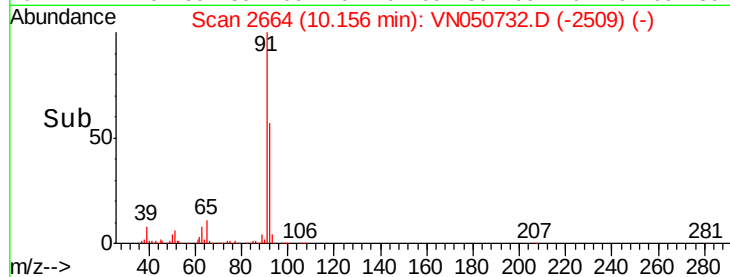
10.16

1000000

500000

0

Time-->



#63

Toluene-d8

Concen: 28.25 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050732.D

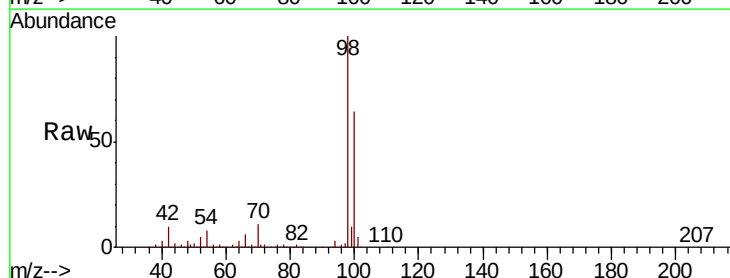
Acq: 17 Aug 2018 16:02

Tgt Ion: 98 Resp: 686501

Ion Ratio Lower Upper

98 100

100 63.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

10.09

400000

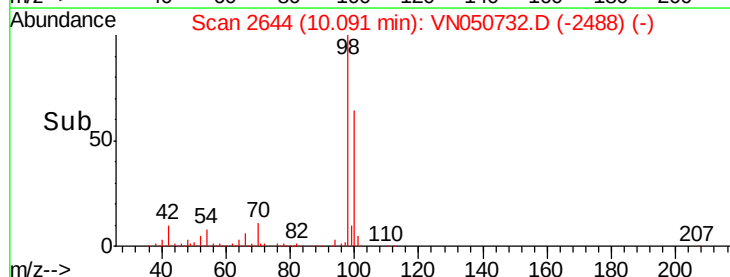
300000

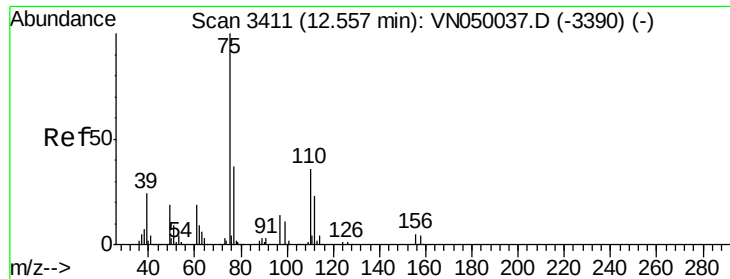
200000

100000

0

Time-->





#72

1,2,3-Trichloropropane

Concen: 14.55 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

Instrument :

MSVOA_N

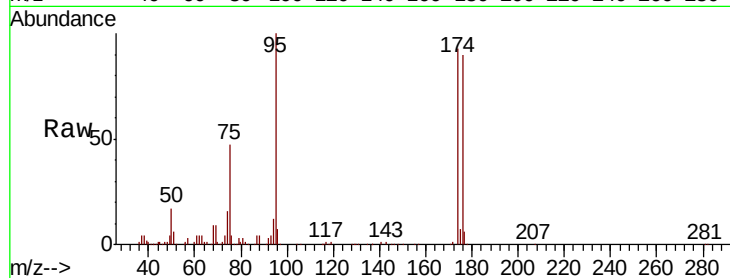
ClientSampleId :

Tot Ion: 75 Resp: 98669

Ion Ratio Lower Upper

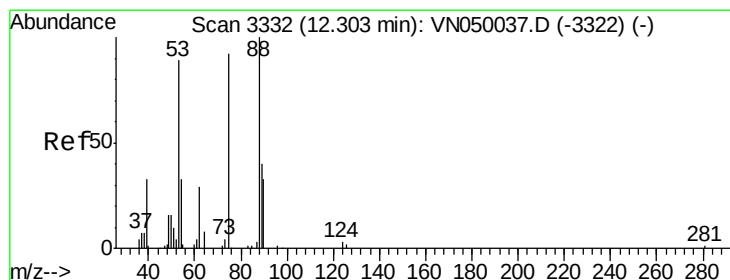
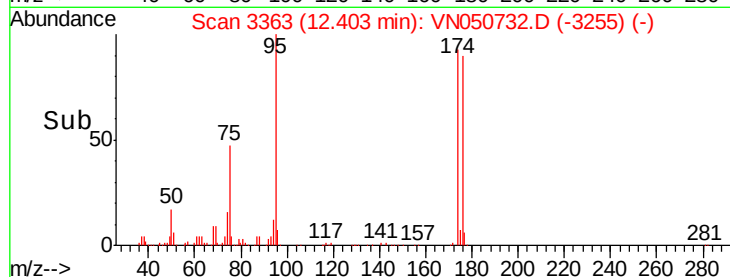
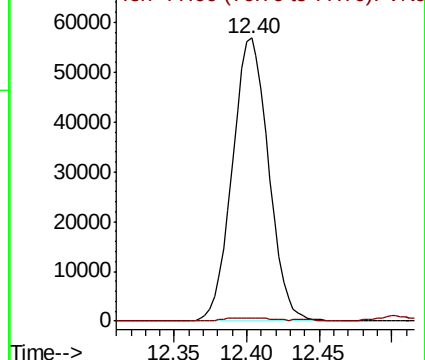
75 100

77 0.9 0.0 454.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 44.49 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

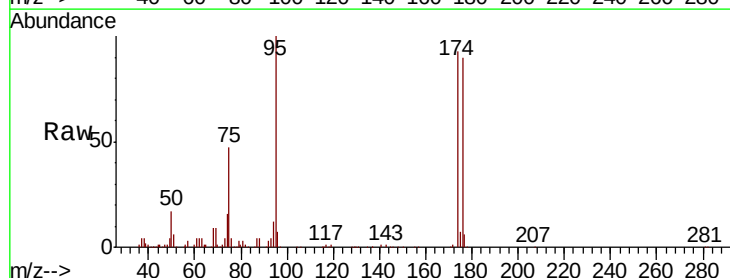
Tgt Ion: 75 Resp: 98669

Ion Ratio Lower Upper

75 100

53 0.0 44.6 134.0#

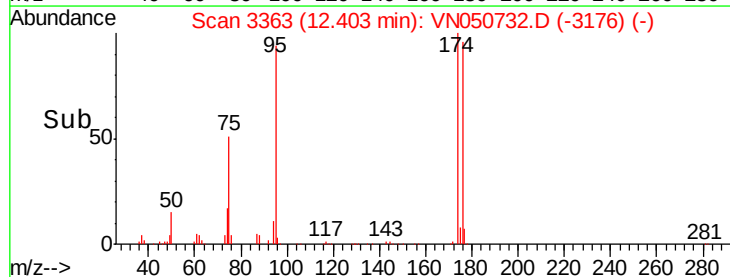
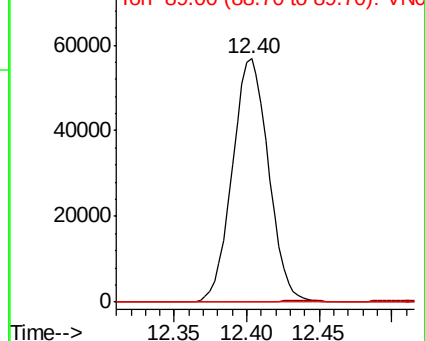
89 0.0 20.7 62.1#

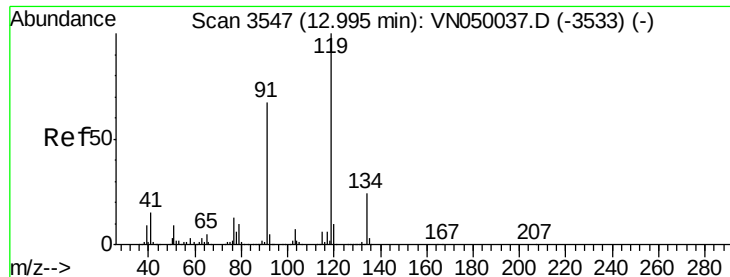


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

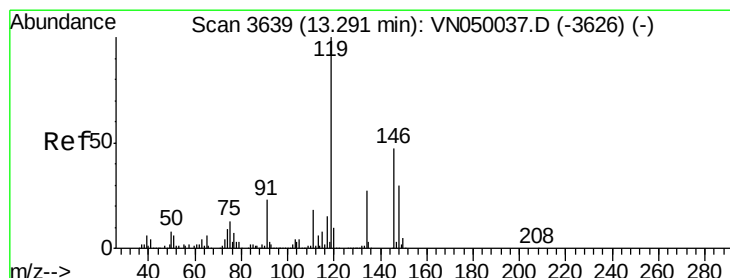
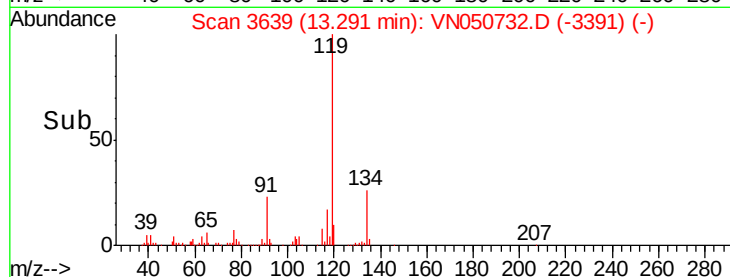
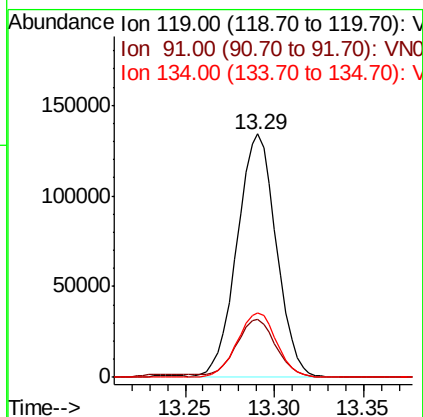
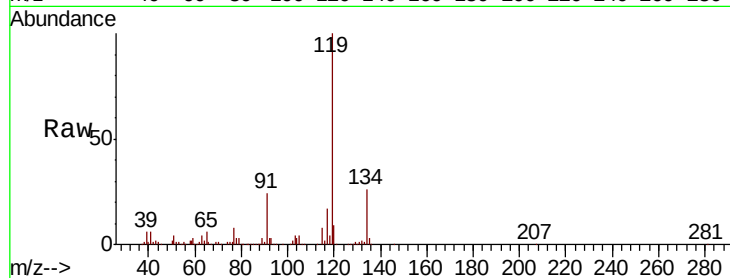




#79
tert-butylbenzene
Concen: 10.18 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.30 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

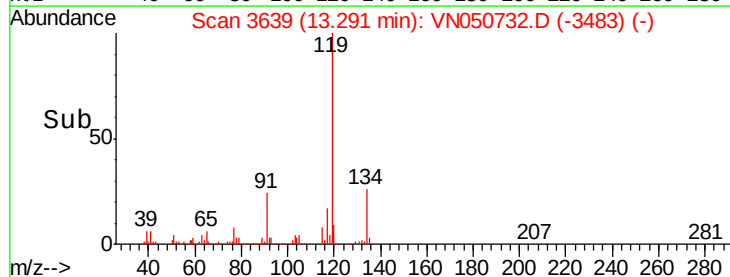
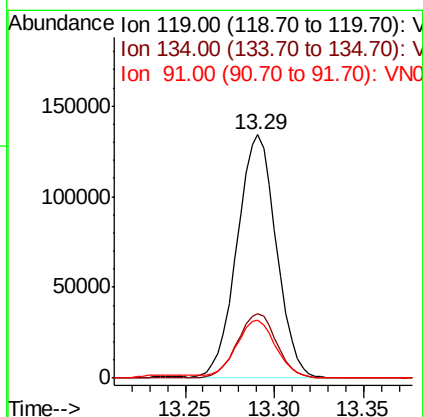
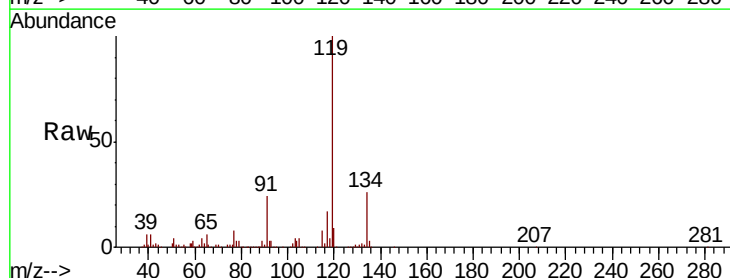
Instrument :
MSVOA_N
ClientSampleId :

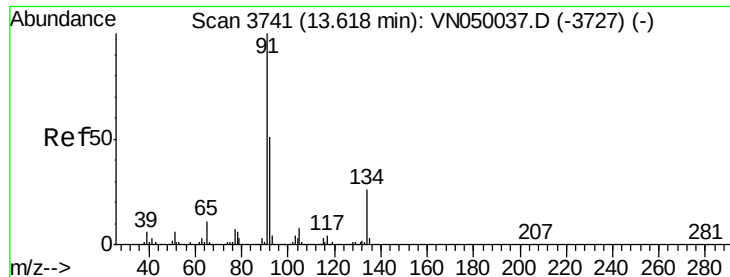
Tot Ion	Ratio	Lower	Upper
119	100		
91	23.8	0.0	126.8
134	26.7	0.0	47.4



#82
p-Isopropyltoluene
Concen: 8.78 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.00 min
Lab File: VN050732.D
Acq: 17 Aug 2018 16:02

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	0.0	52.2
91	23.8	0.0	45.6





#85

n-Butylbenzene

Concen: 0.32 ug/l

RT: 13.51 min Scan# 3706

Delta R.T. -0.11 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

Instrument :

MSVOA_N

ClientSampled :

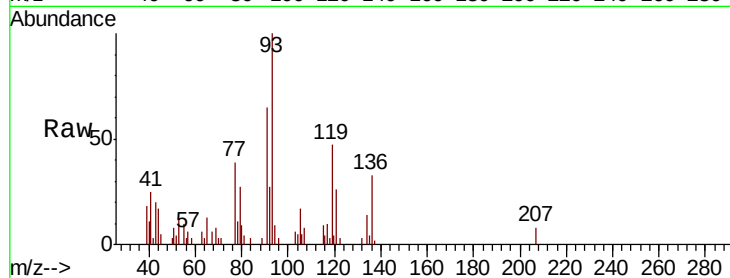
Tot Ion: 91 Resp: 6191

Ion Ratio Lower Upper

91 100

92 44.6 0.0 102.8

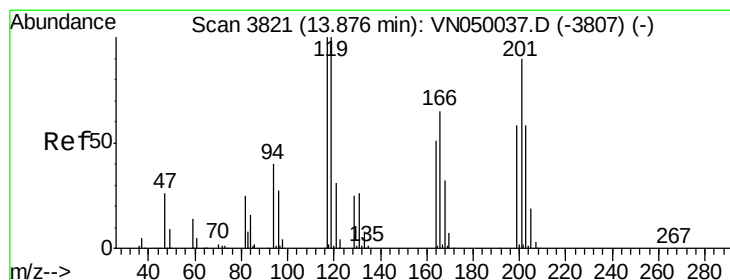
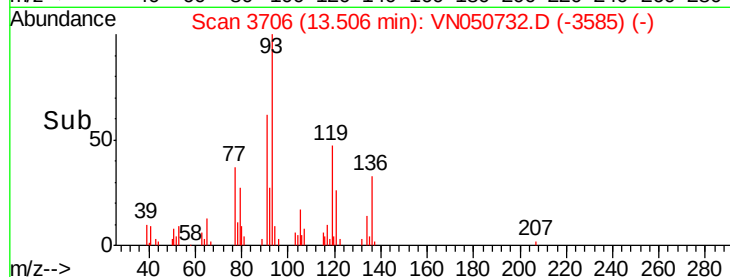
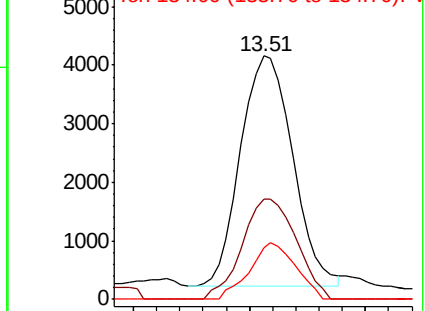
134 21.4 0.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3727) (-)

Ion 92.00 (91.70 to 92.70): VN050037.D (-3727) (-)

Ion 134.00 (133.70 to 134.70): VN050037.D (-3727) (-)



#86

Hexachloroethane

Concen: 0.38 ug/l

RT: 13.95 min Scan# 3844

Delta R.T. 0.07 min

Lab File: VN050732.D

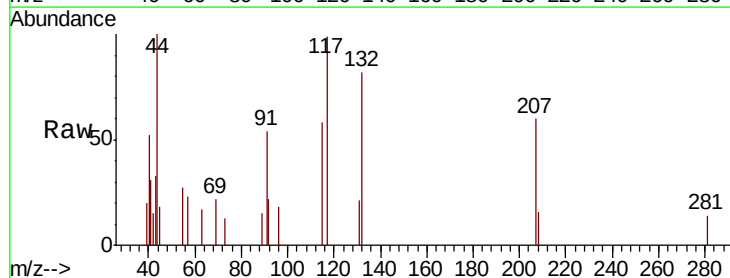
Acq: 17 Aug 2018 16:02

Tgt Ion: 117 Resp: 1806

Ion Ratio Lower Upper

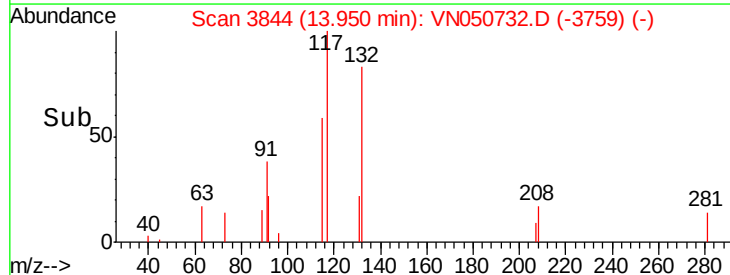
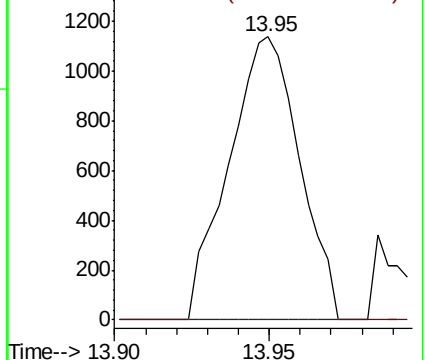
117 100

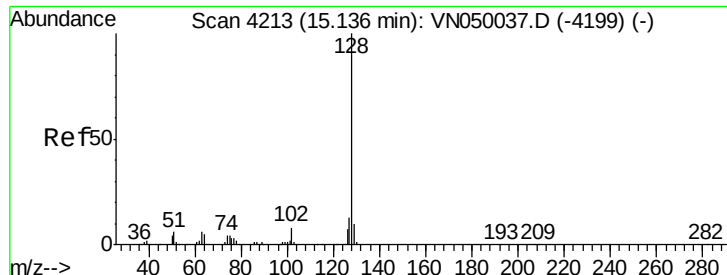
201 0.0 46.6 139.7#



Abundance Ion 117.00 (116.70 to 117.70): VN050037.D (-3807) (-)

Ion 201.00 (200.70 to 201.70): VN050037.D (-3807) (-)





#91

Naphthalene

Concen: 7.73 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050732.D

Acq: 17 Aug 2018 16:02

Instrument :

MSVOA_N

ClientSampleId :

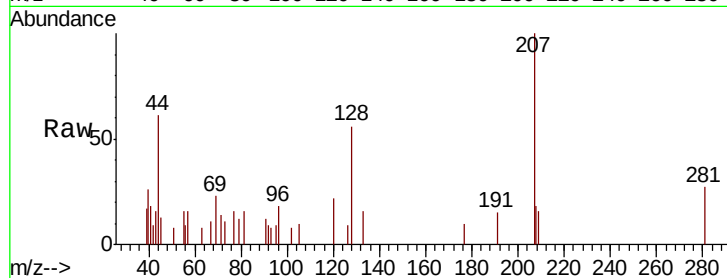
Tot Ion:128 Resp: 1838

Ion Ratio Lower Upper

128 100

127 3.4 10.2 15.4#

129 0.0 9.0 13.4#



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

