

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042719\
 Data File : VN055275.D
 Acq On : 26 Apr 2019 14:51
 Operator : JC/SP
 Sample : K2578-01 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WATER-COMP

Quant Time: Apr 27 02:01:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	376029	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	631915	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	570091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	148522	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	255423	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	7.59	113	204703	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	782800	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
62) 4-Bromofluorobenzene	12.40	95	230630	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	

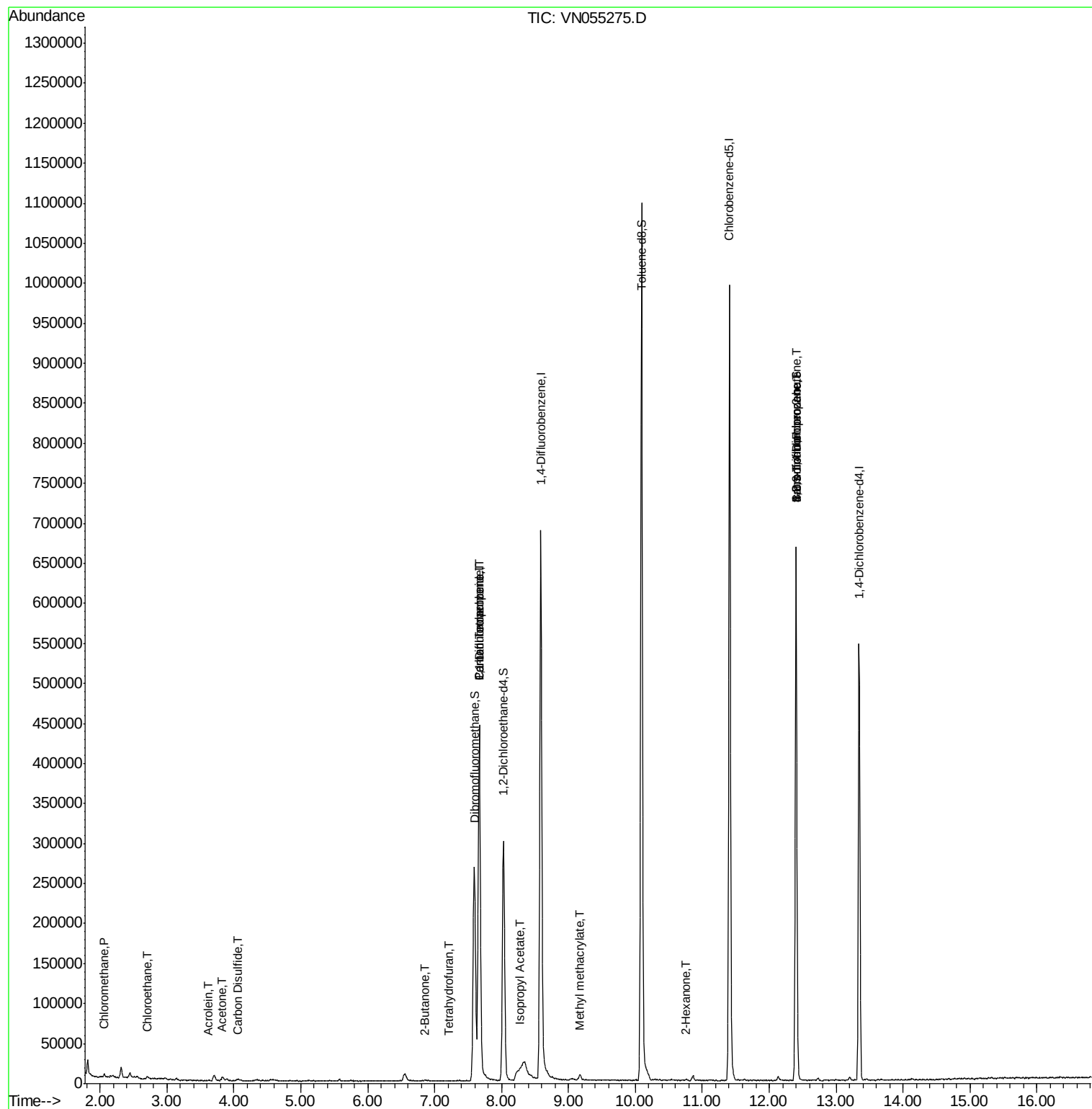
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3227	0.544	ug/l	92
6) Chloroethane	2.70	64	2418	0.965	ug/l	98
13) Acrolein	3.61	56	141	9.813	ug/l #	14
16) Acetone	3.83	43	6725	3.997	ug/l	93
17) Carbon Disulfide	4.05	76	3516	0.325	ug/l #	75
18) Methyl Acetate	4.34	43	1134	Below Cal		95
25) 2-Butanone	6.86	43	1947	0.896	ug/l #	53
29) Tetrahydrofuran	7.23	42	375	0.281	ug/l #	39
31) Cyclohexane	7.66	56	4332	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	28230	4.813	ug/l #	49
38) Carbon Tetrachloride	7.66	117	35287	6.425	ug/l #	16
43) Isopropyl Acetate	8.26	43	16192	2.112	ug/l #	56
48) Methyl methacrylate	9.17	41	2730	0.734	ug/l #	31
59) 2-Hexanone	10.76	43	1562	0.561	ug/l	76
71) Bromoform	12.40	173	1960	0.762	ug/l #	1
73) Isopropylbenzene	12.24	105	159	Below Cal	#	49
76) 1,2,3-Trichloropropane	12.40	75	118705	39.396	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	118705	149.344	ug/l #	5
83) tert-Butylbenzene	12.99	119	161	Below Cal	#	42
94) Hexachlorobutadiene	15.02	225	31	Below Cal	#	18

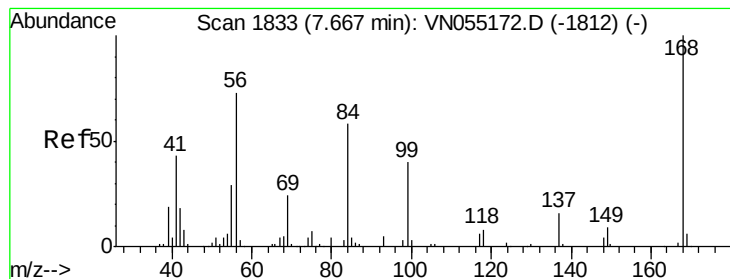
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

Instrument :

MSVOA_N

ClientSampleId :

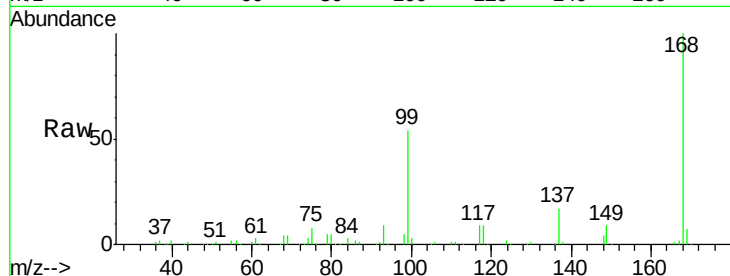
WATER-COMP

Tot Ion:168 Resp: 376029

Ion Ratio Lower Upper

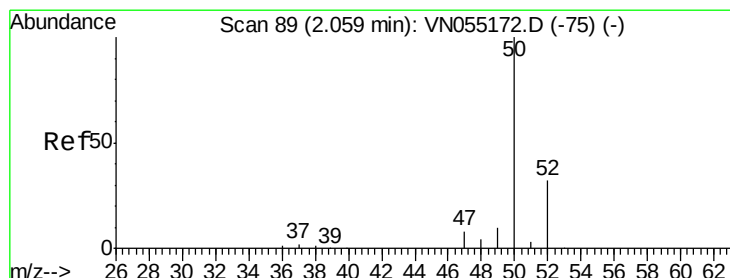
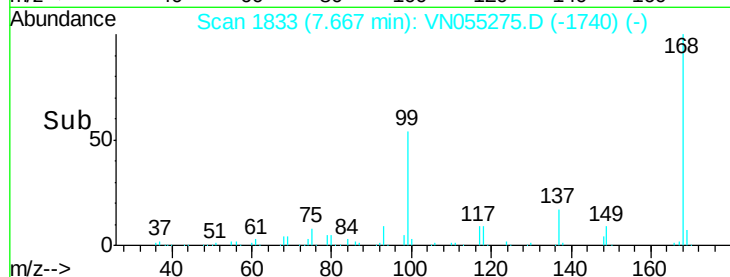
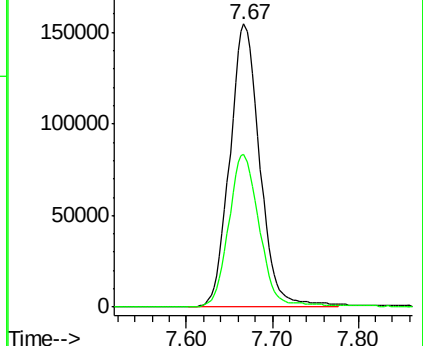
168 100

99 53.9 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.544 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055275.D

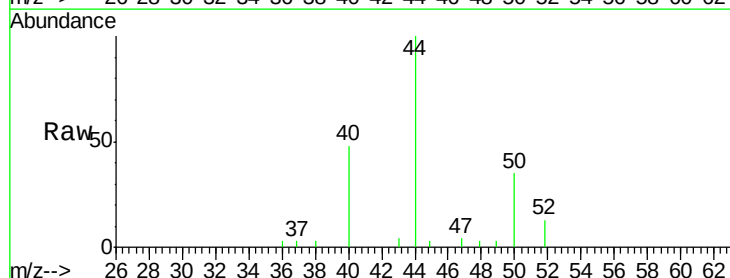
Acq: 26 Apr 2019 14:51

Tgt Ion: 50 Resp: 3227

Ion Ratio Lower Upper

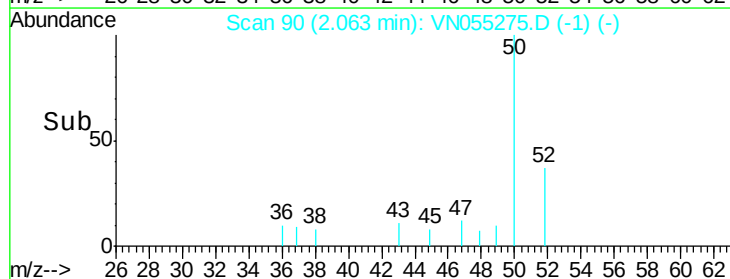
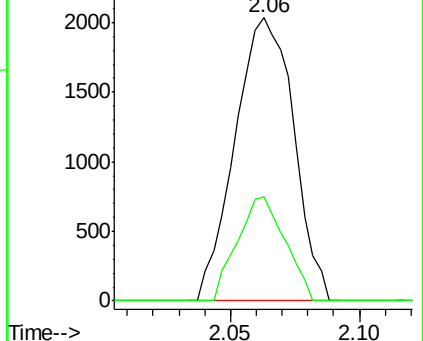
50 100

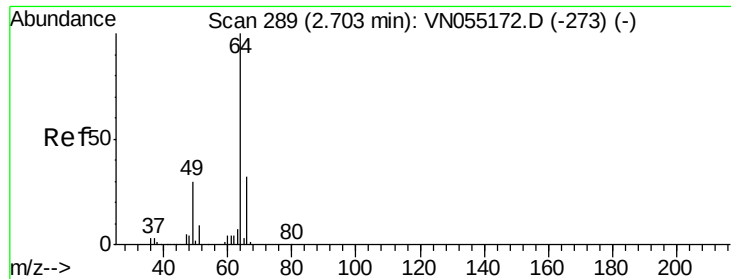
52 36.9 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#6

Chloroethane

Concen: 0.965 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

Instrument :

MSVOA_N

ClientSampleId :

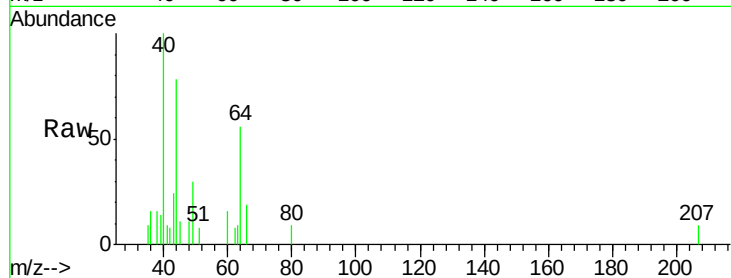
WATER-COMP

Tot Ion: 64 Resp: 2418

Ion Ratio Lower Upper

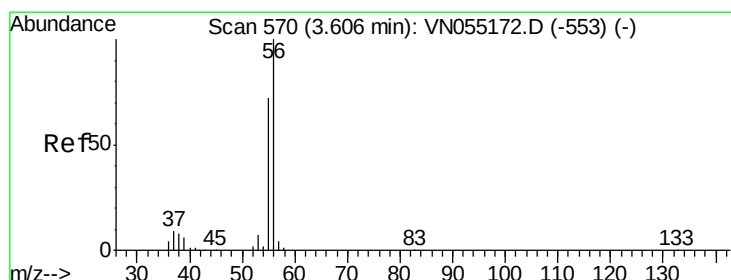
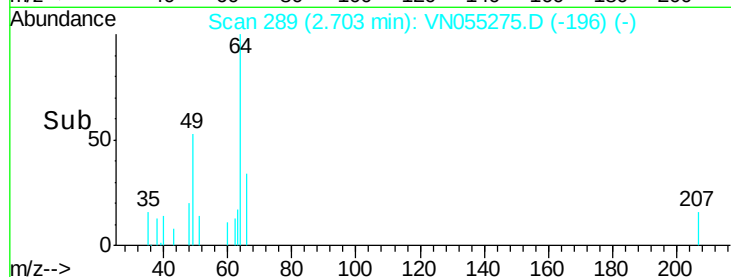
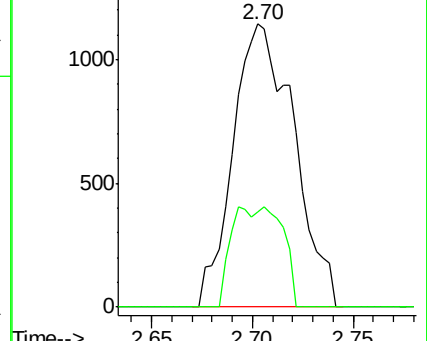
64 100

66 33.6 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#13

Acrolein

Concen: 9.813 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN055275.D

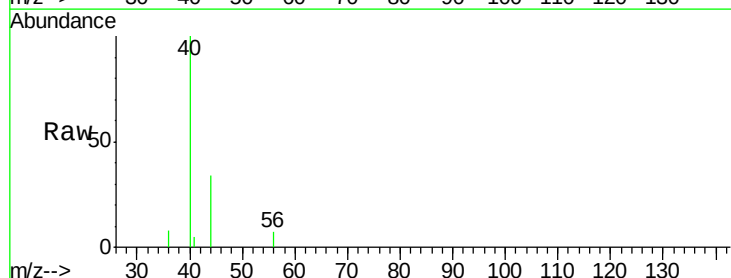
Acq: 26 Apr 2019 14:51

Tgt Ion: 56 Resp: 141

Ion Ratio Lower Upper

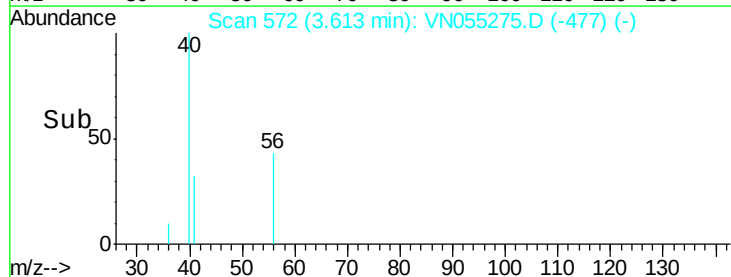
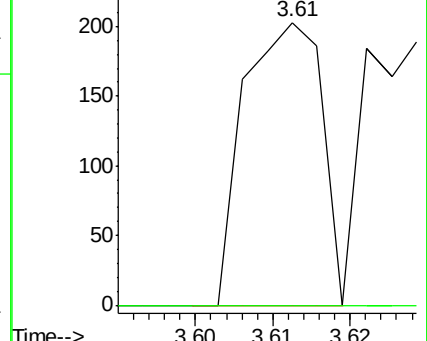
56 100

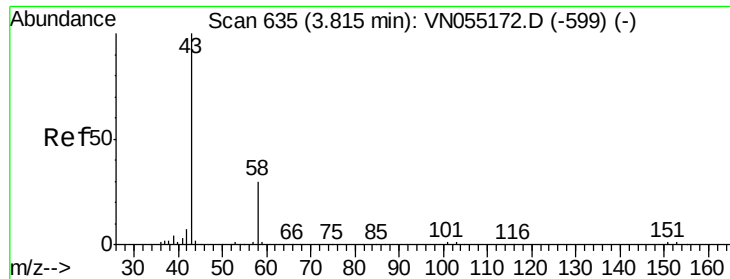
55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

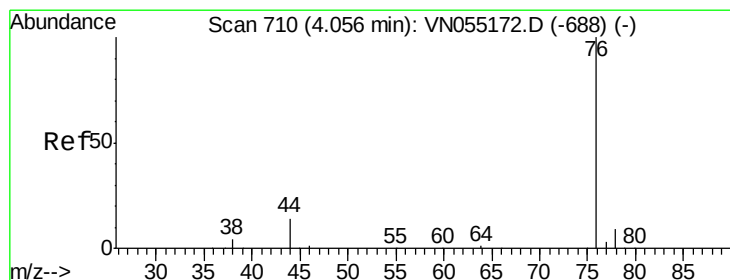
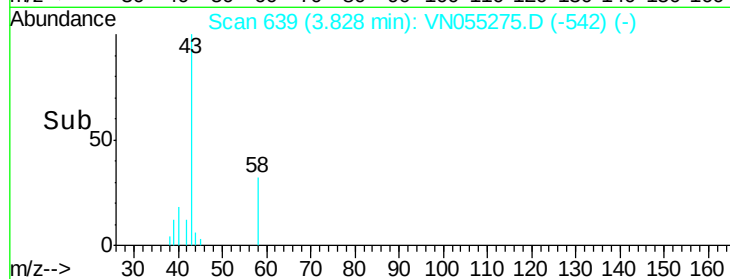
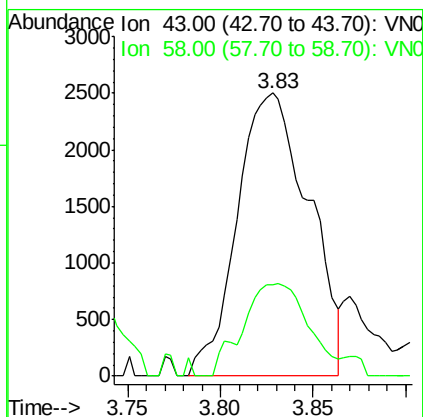
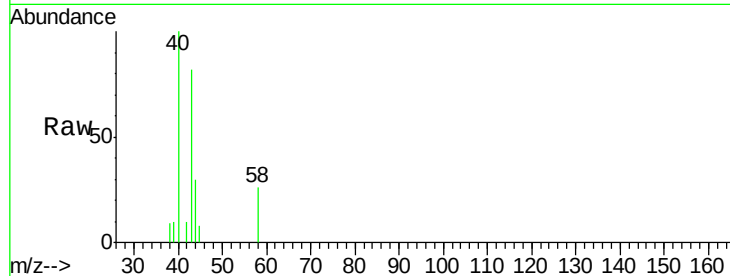




#16
Acetone
Concen: 3.997 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

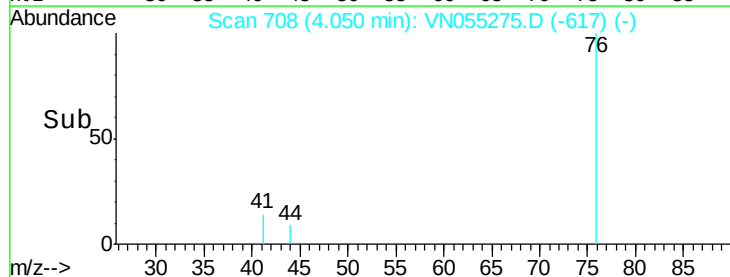
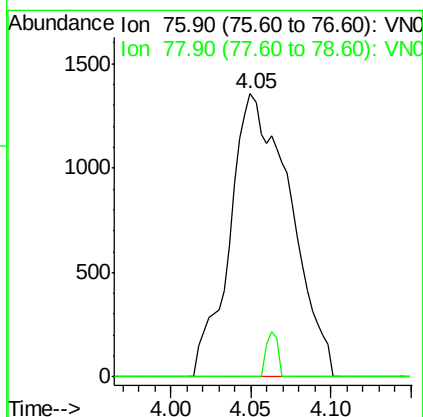
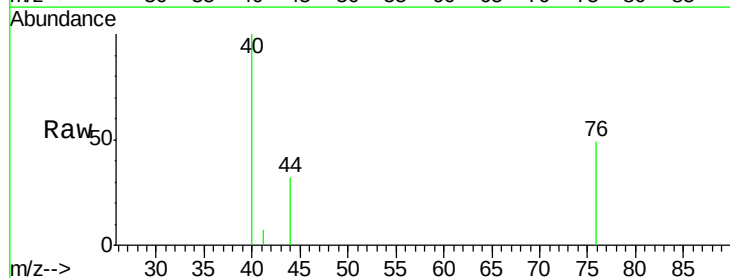
Instrument :
MSVOA_N
ClientSampled :
WATER-COMP

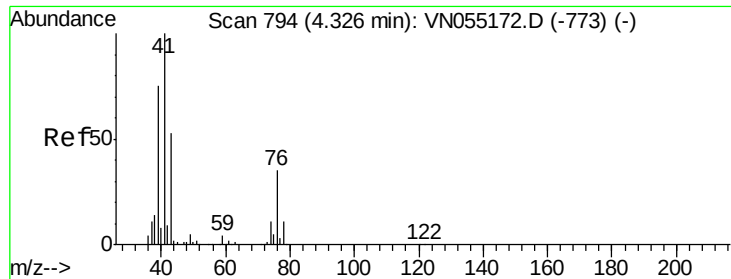
Tot Ion: 43 Resp: 6725
Ion Ratio Lower Upper
43 100
58 26.2 23.8 35.8



#17
Carbon Disulfide
Concen: 0.325 ug/l
RT: 4.05 min Scan# 708
Delta R.T. -0.01 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

Tgt Ion: 76 Resp: 3516
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#

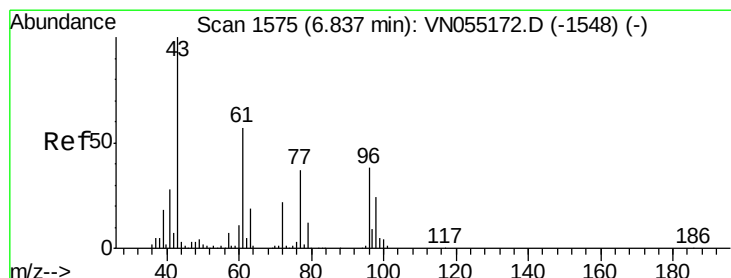
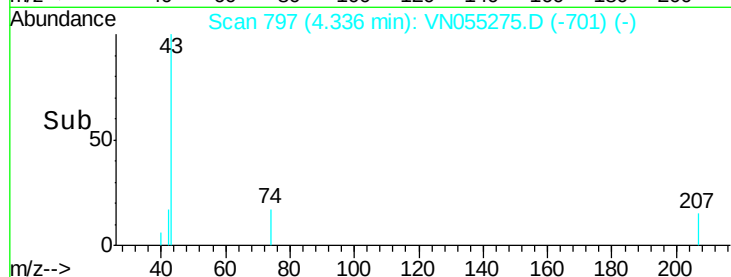
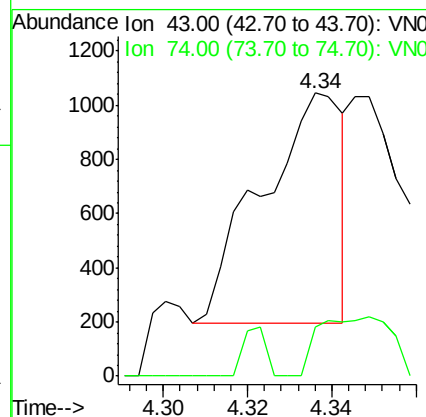
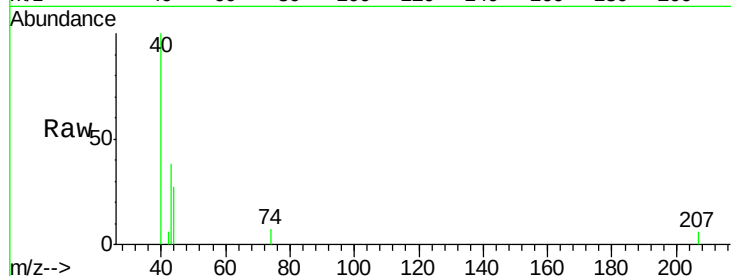




#18
Methvl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

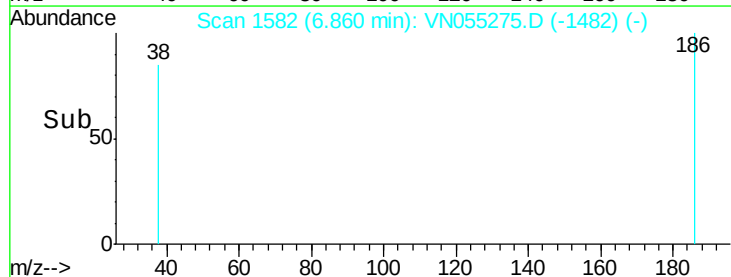
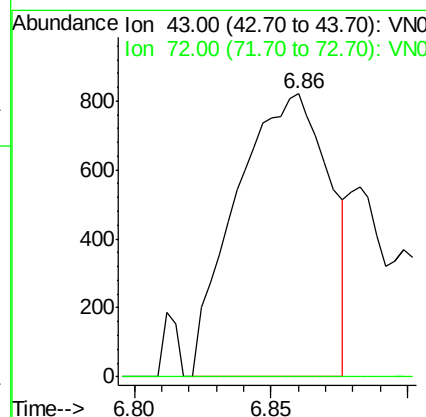
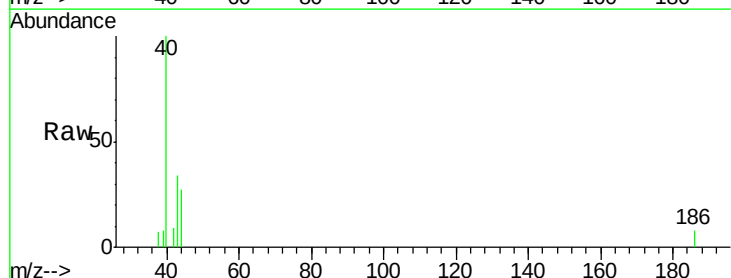
Instrument :
MSVOA_N
ClientSampleId :
WATER-COMP

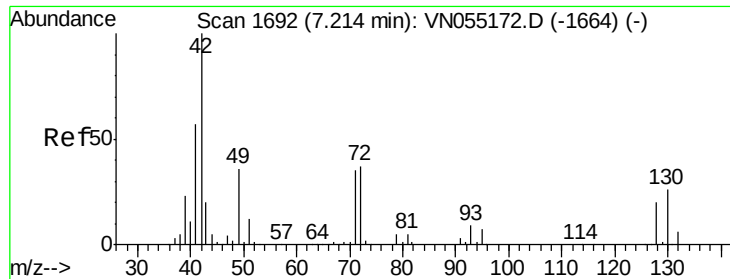
Tot Ion: 43 Resp: 1134
Ion Ratio Lower Upper
43 100
74 23.2 16.7 25.1



#25
2-Butanone
Concen: 0.896 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

Tgt Ion: 43 Resp: 1947
Ion Ratio Lower Upper
43 100
72 0.0 17.8 26.8#





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

Instrument :

MSVOA_N

ClientSampleId :

WATER-COMP

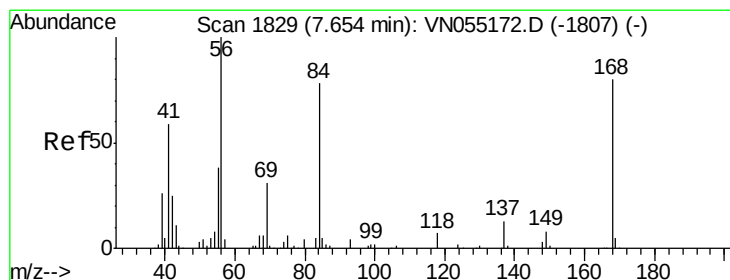
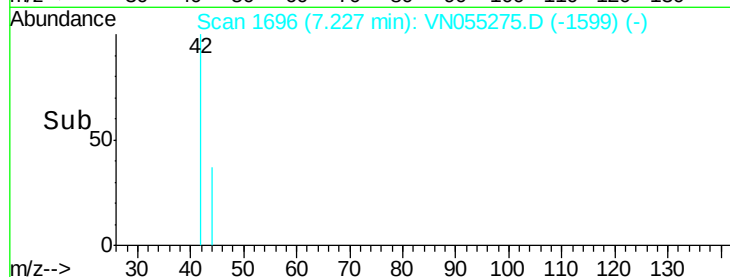
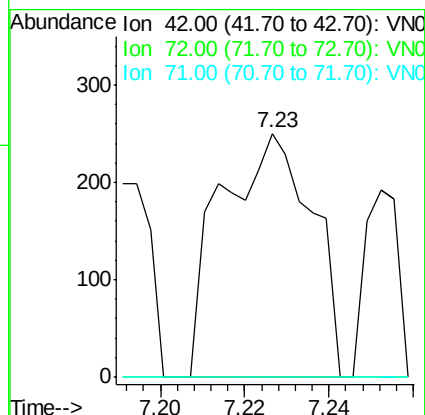
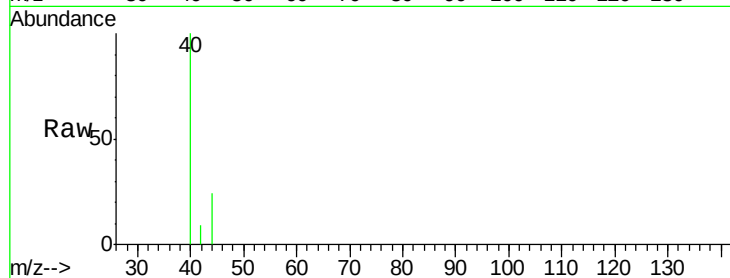
Tot Ion: 42 Resp: 375

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.2#

71 0.0 27.8 41.8#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

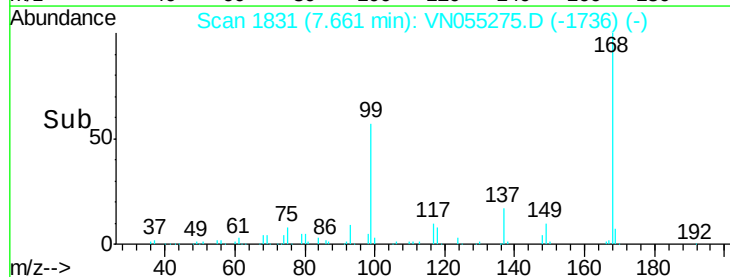
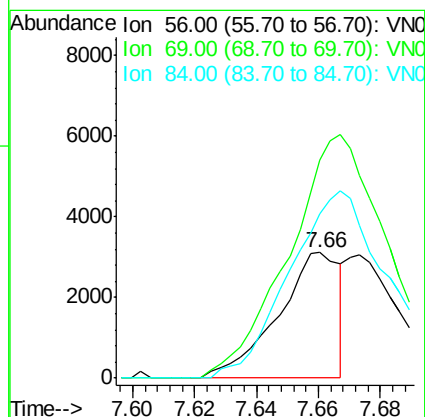
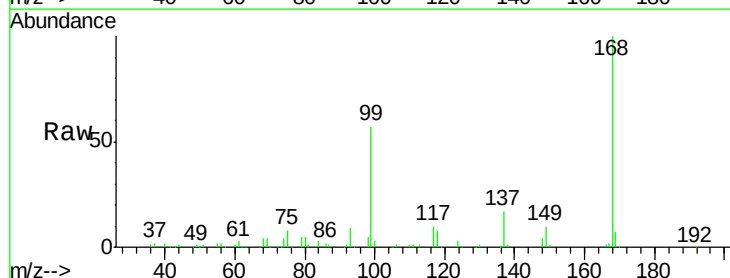
Tgt Ion: 56 Resp: 4332

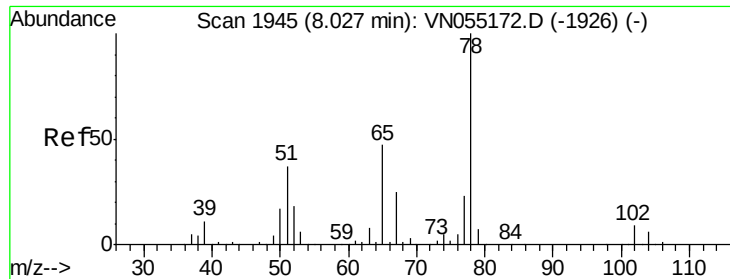
Ion Ratio Lower Upper

56 100

69 173.9 24.6 37.0#

84 130.5 61.4 92.2#

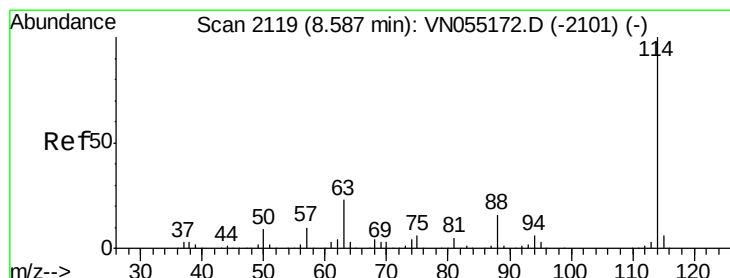
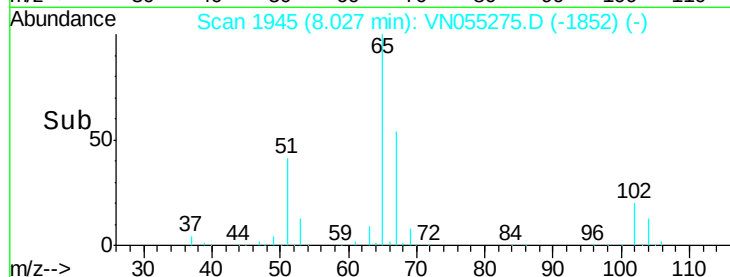
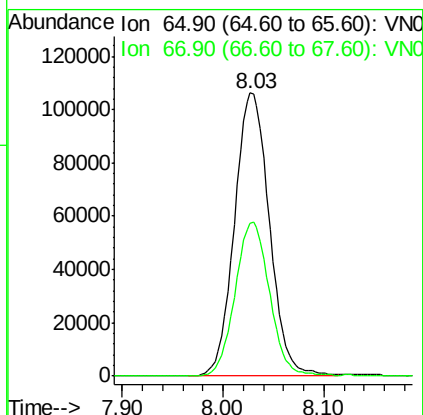
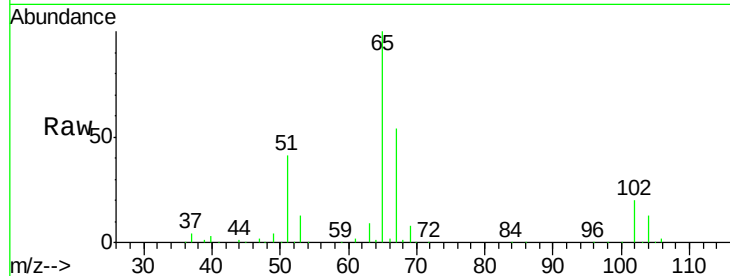




#33
 1,2-Dichloroethane-d4
 Concen: 50.185 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055275.D
 Acq: 26 Apr 2019 14:51

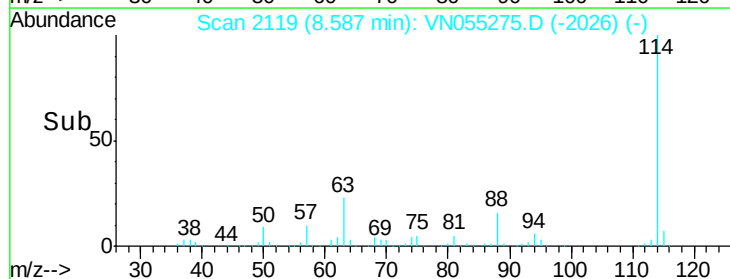
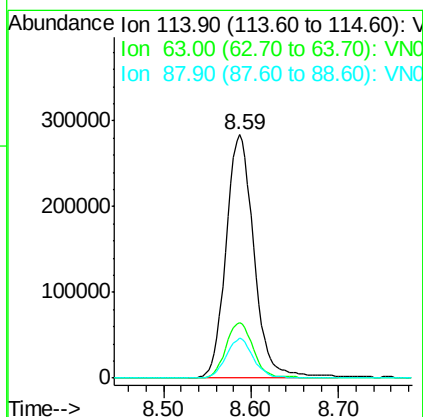
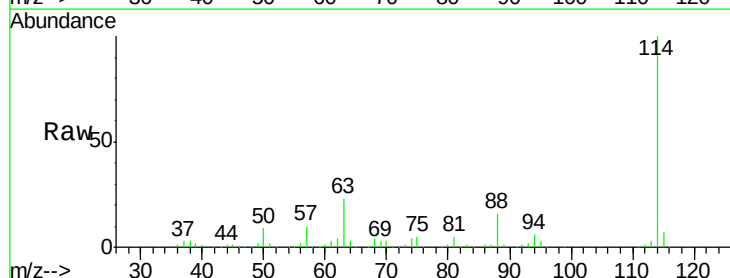
Instrument :
 MSVOA_N
 ClientSampleId :
 WATER-COMP

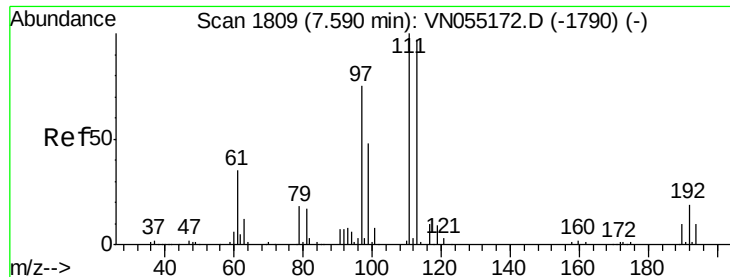
Tot Ion: 65 Resp: 255423
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055275.D
 Acq: 26 Apr 2019 14:51

Tgt Ion: 114 Resp: 631915
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.2
 88 16.4 0.0 32.8

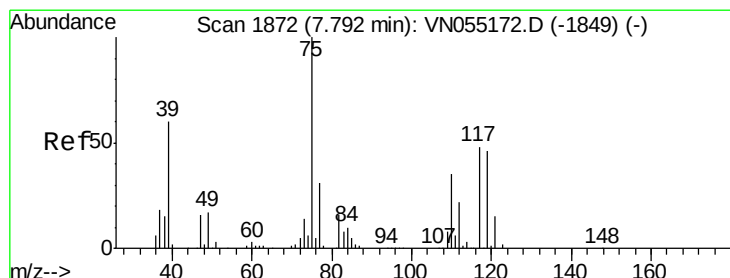
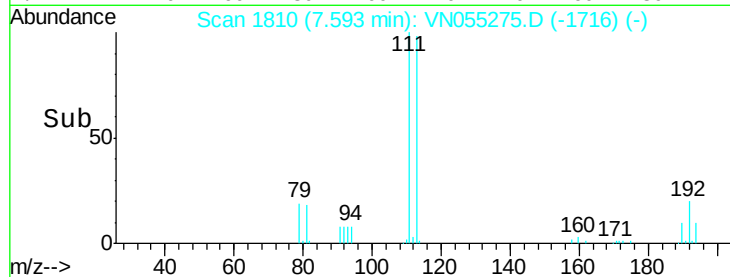
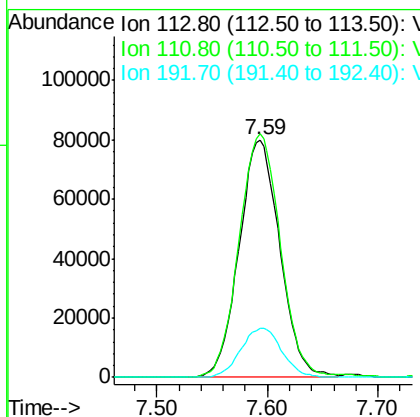
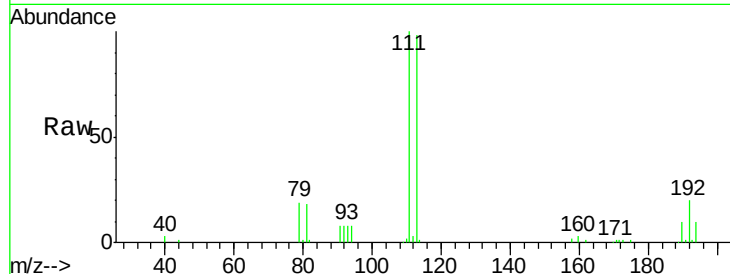




#35
 Dibromofluoromethane
 Concen: 47.684 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055275.D
 Acq: 26 Apr 2019 14:51

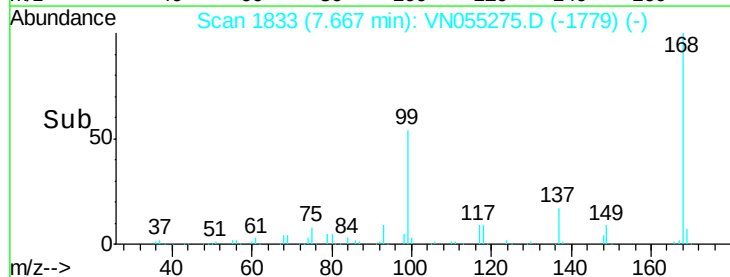
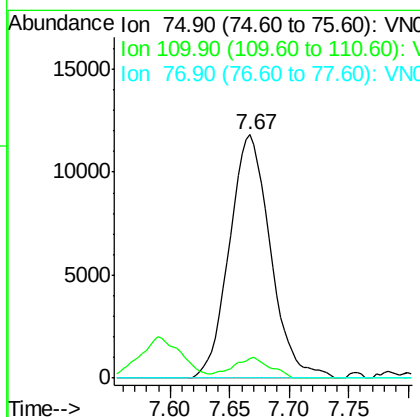
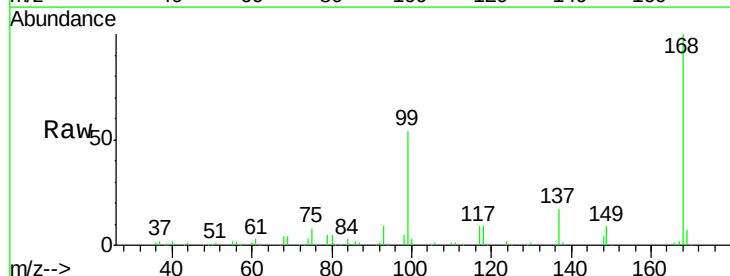
Instrument :
 MSVOA_N
 ClientSampleId :
 WATER-COMP

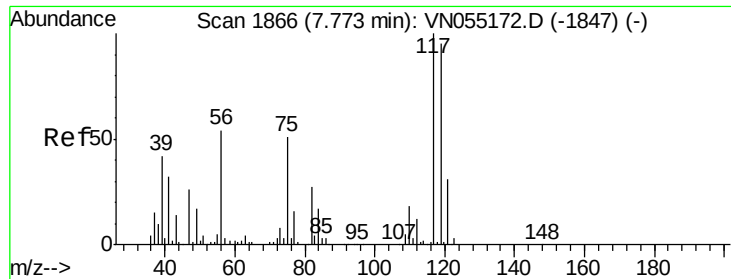
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.0	121.4
192	20.9	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.813 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055275.D
 Acq: 26 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	17.1	51.2#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.425 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

Instrument :

MSVOA_N

ClientSampleId :

WATER-COMP

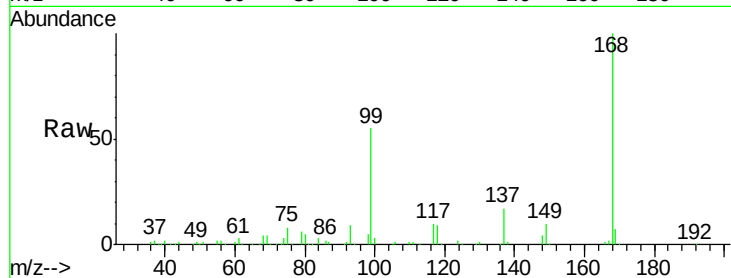
Tot Ion:117 Resp: 35287

Ion Ratio Lower Upper

117 100

119 4.4 76.0 114.0#

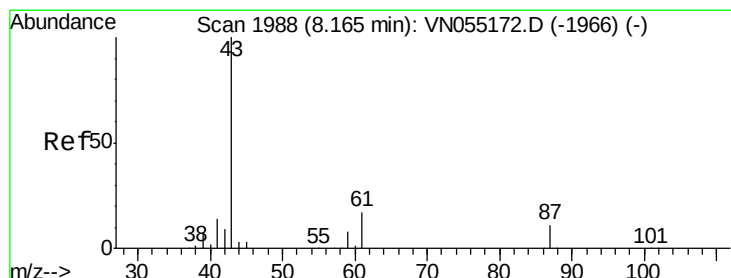
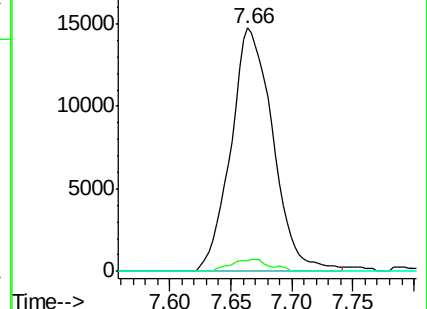
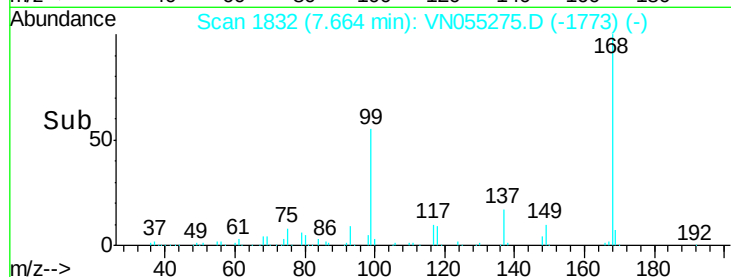
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.112 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.09 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

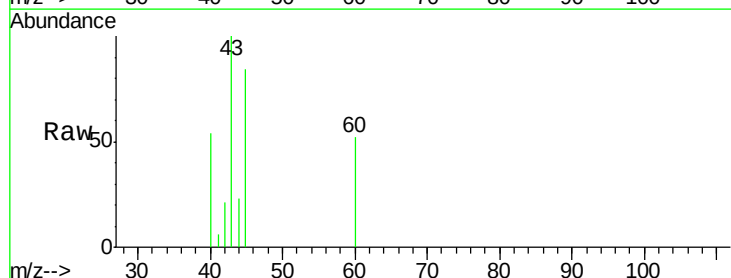
Tgt Ion: 43 Resp: 16192

Ion Ratio Lower Upper

43 100

61 0.0 20.6 30.8#

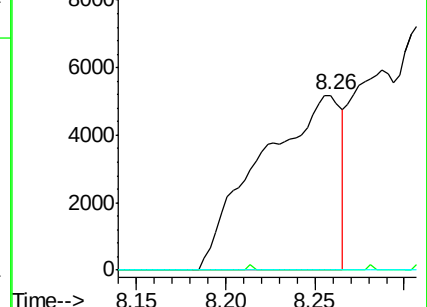
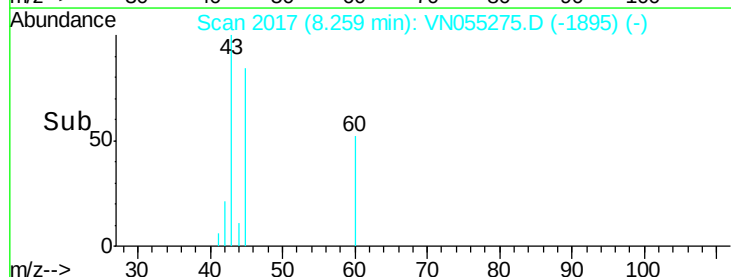
87 0.0 8.8 13.2#

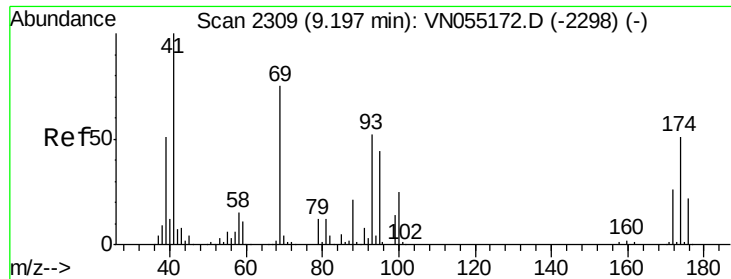


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

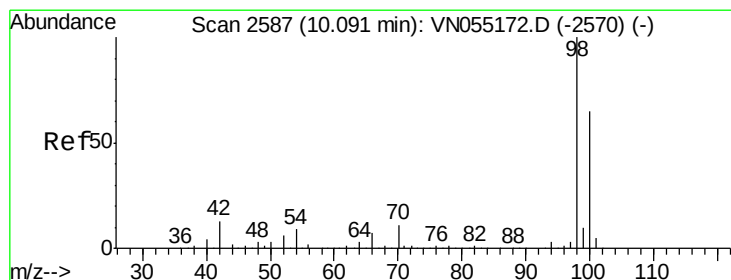
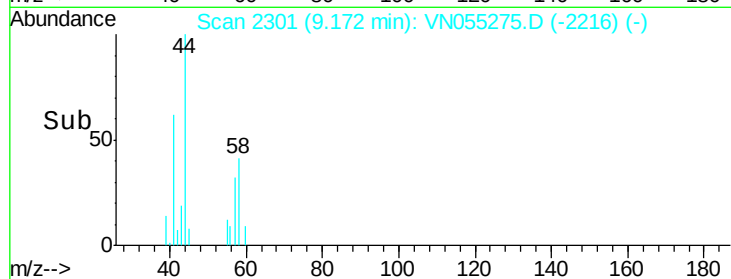
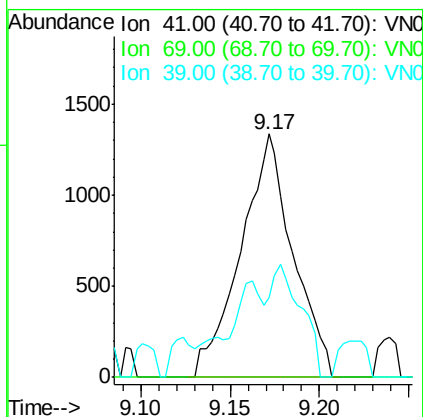
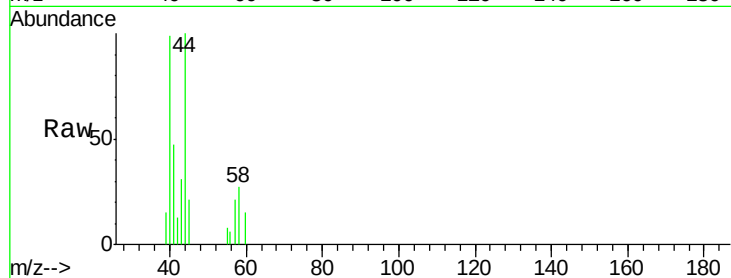




#48
Methvl methacrylate
Concen: 0.734 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.03 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

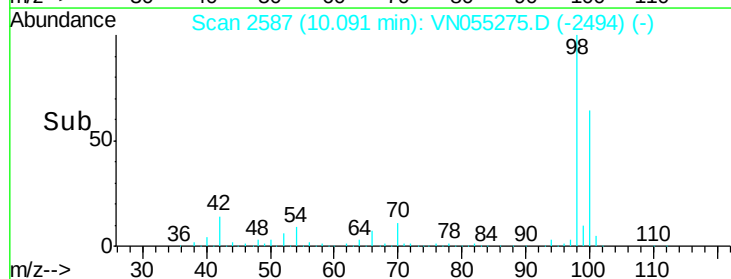
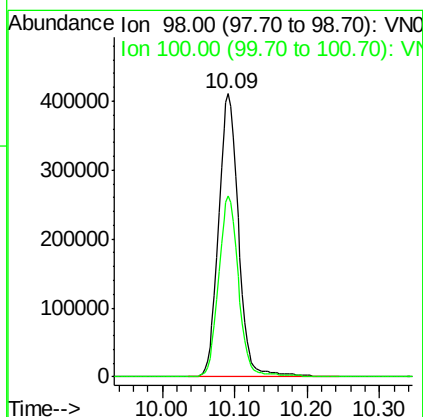
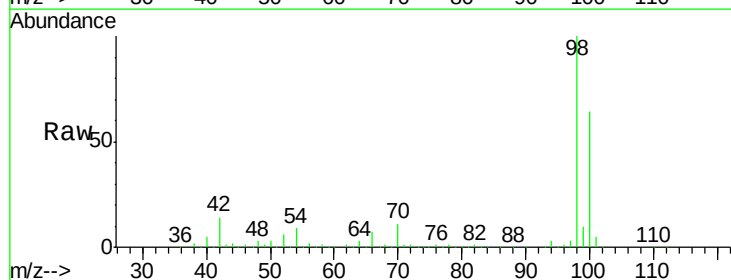
Instrument :
MSVOA_N
ClientSampleId :
WATER-COMP

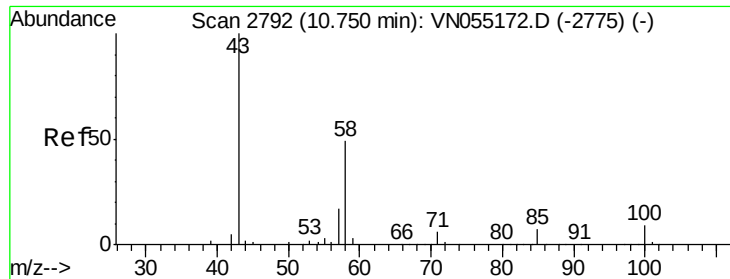
Tot Ion: 41 Resp: 2730
Ion Ratio Lower Upper
41 100
69 0.0 63.6 95.4#
39 27.9 43.8 65.8#



#50
Toluene-d8
Concen: 49.215 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

Tgt Ion: 98 Resp: 782800
Ion Ratio Lower Upper
98 100
100 63.9 51.8 77.6

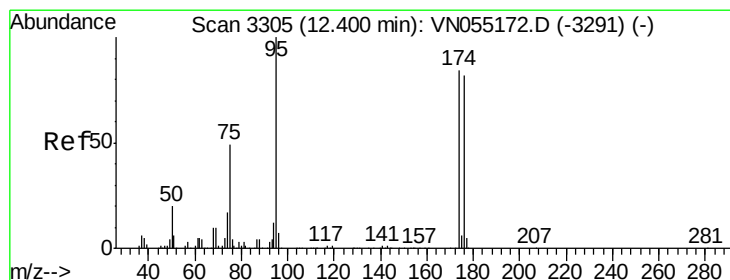
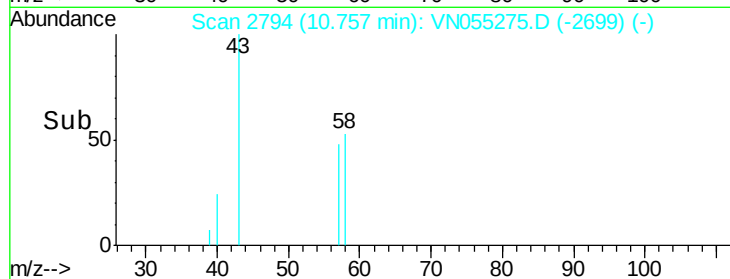
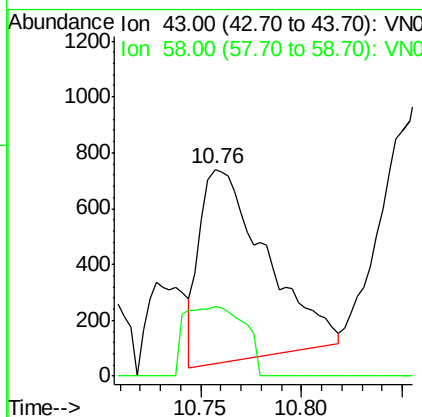
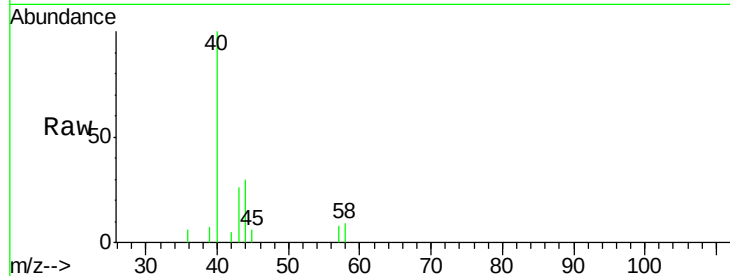




#59
2-Hexanone
Concen: 0.561 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

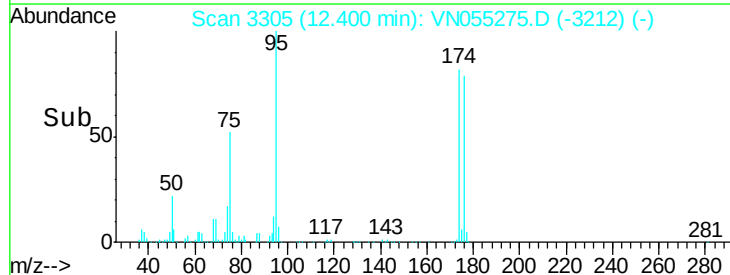
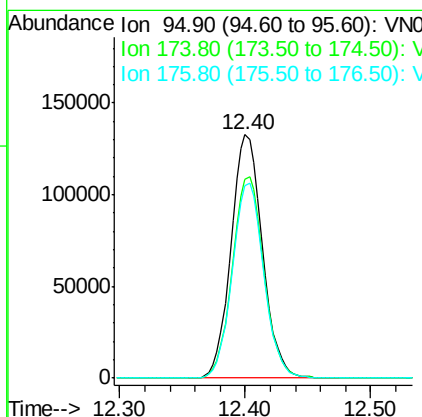
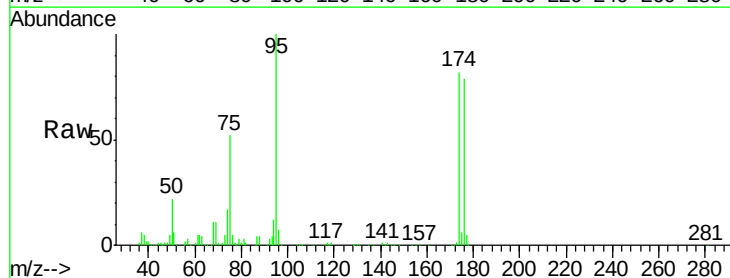
Instrument :
MSVOA_N
ClientSampleId :
WATER-COMP

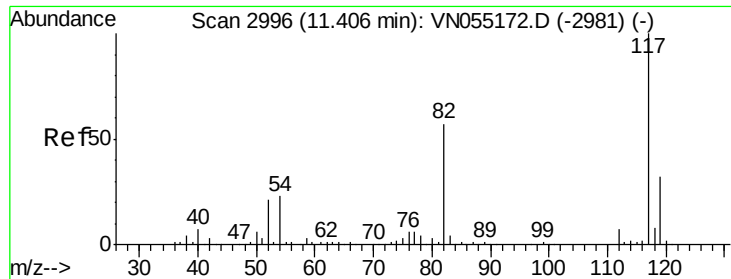
Tot Ion: 43 Resp: 1562
Ion Ratio Lower Upper
43 100
58 32.8 24.5 73.5



#62
4-Bromofluorobenzene
Concen: 45.788 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

Tgt Ion: 95 Resp: 230630
Ion Ratio Lower Upper
95 100
174 83.1 0.0 168.4
176 80.3 0.0 164.0

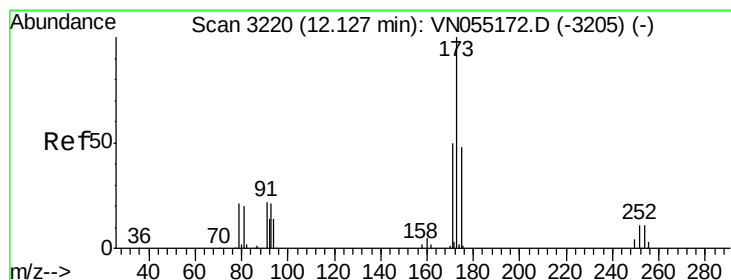
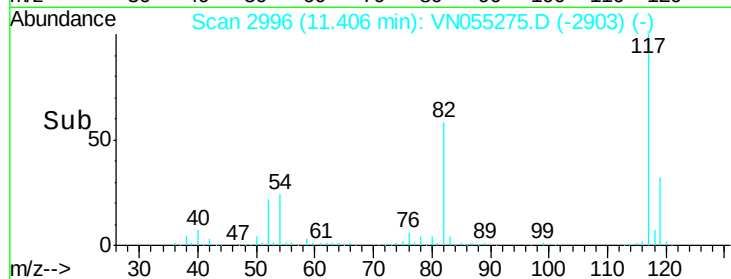
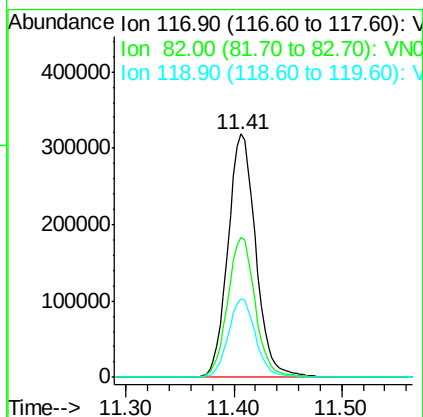
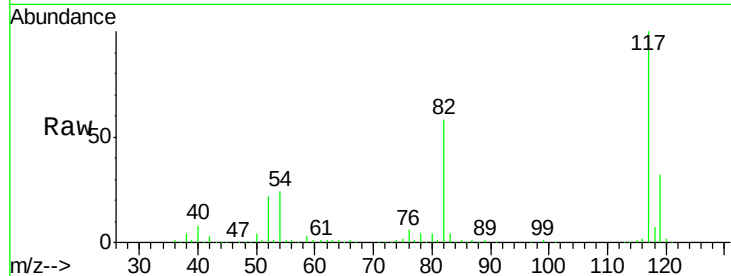




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

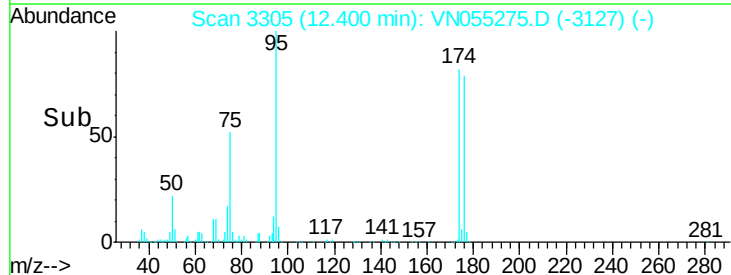
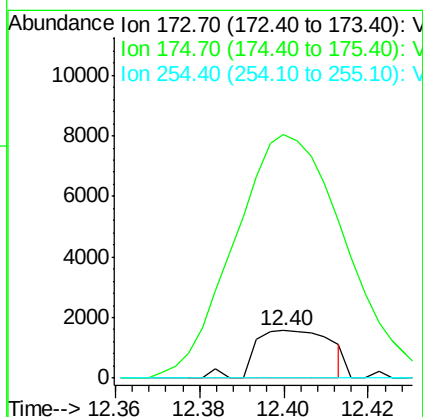
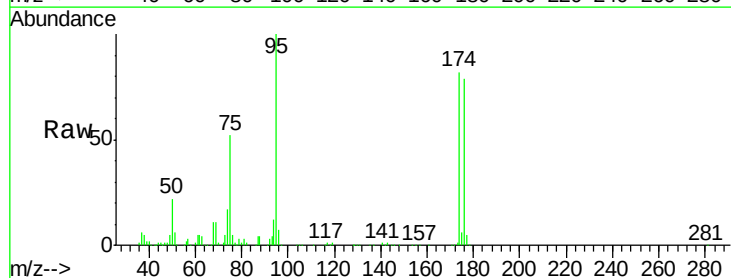
Instrument :
MSVOA_N
ClientSampleId :
WATER-COMP

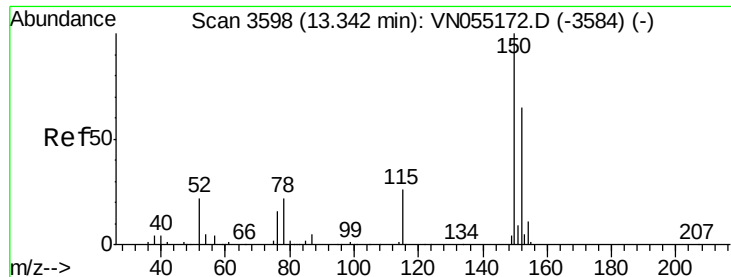
Tot Ion:117 Resp: 570091
Ion Ratio Lower Upper
117 100
82 57.5 45.7 68.5
119 32.3 25.4 38.2



#71
Bromoform
Concen: 0.762 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055275.D
Acq: 26 Apr 2019 14:51

Tgt Ion:173 Resp: 1960
Ion Ratio Lower Upper
173 100
175 636.2 23.8 71.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

Instrument :

MSVOA_N

ClientSampleId :

WATER-COMP

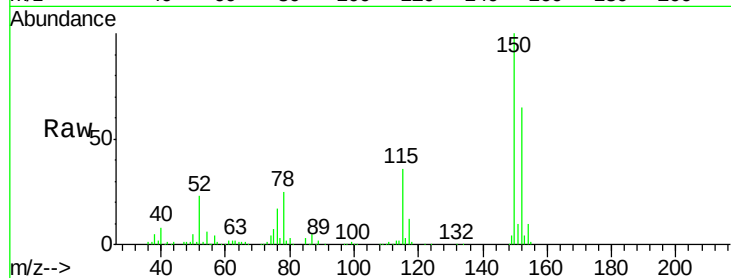
Tot Ion:152 Resp: 148522

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.7

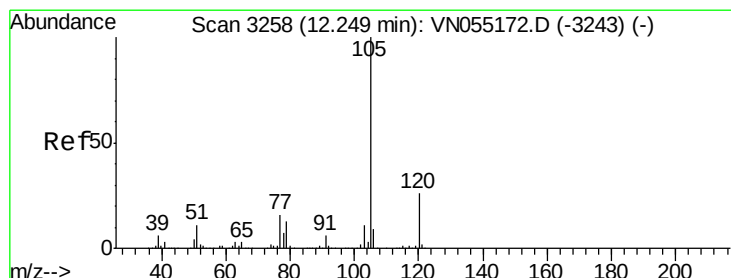
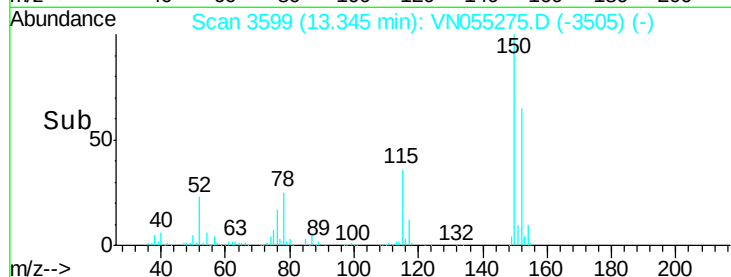
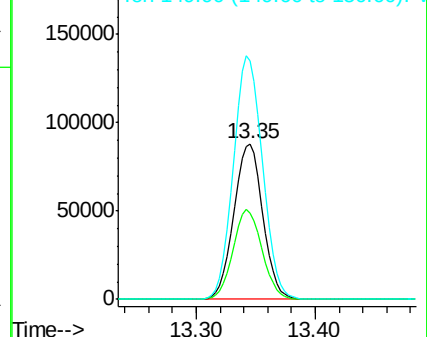
150 157.4 0.0 346.6



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3255

Delta R.T. -0.01 min

Lab File: VN055275.D

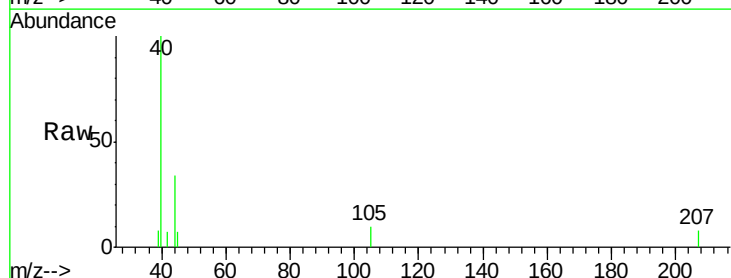
Acq: 26 Apr 2019 14:51

Tgt Ion:105 Resp: 159

Ion Ratio Lower Upper

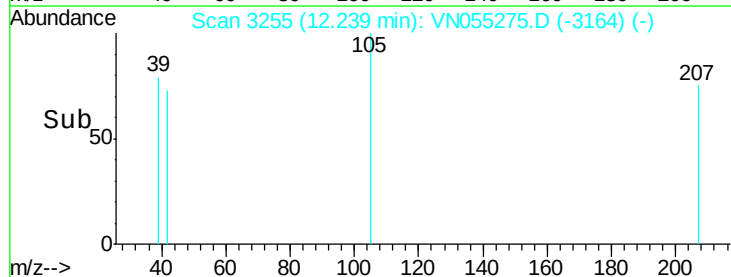
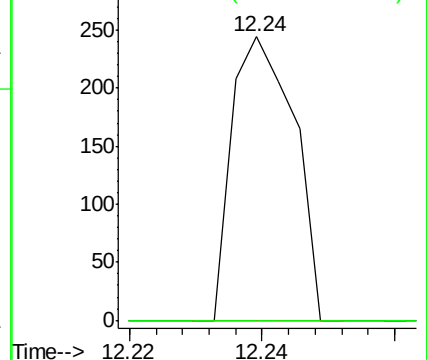
105 100

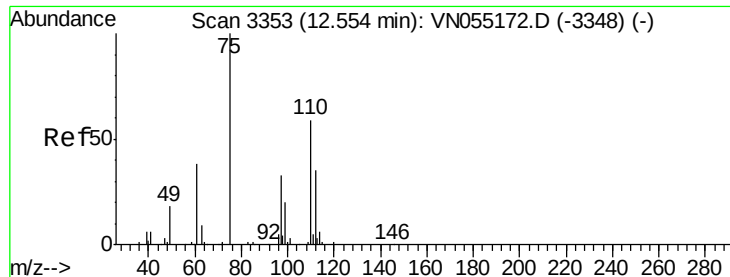
120 0.0 13.1 39.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 39.396 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

Instrument :

MSVOA_N

ClientSampleId :

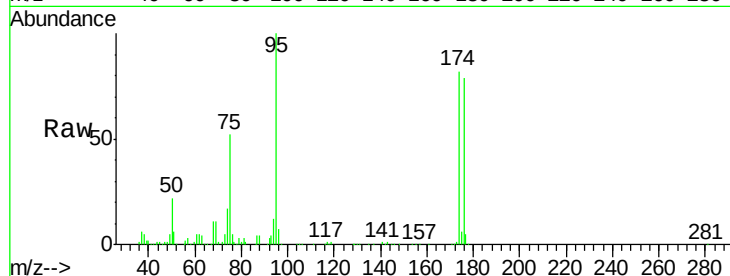
WATER-COMP

Tot Ion: 75 Resp: 118705

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

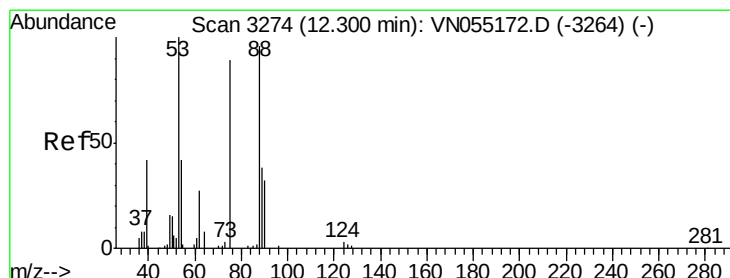
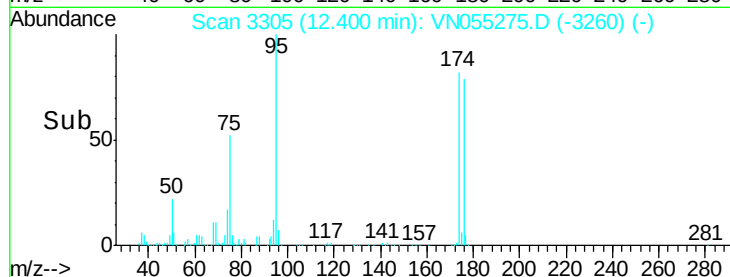
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 149.344 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055275.D

Acq: 26 Apr 2019 14:51

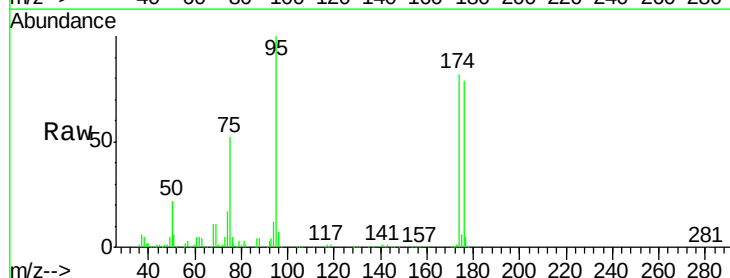
Tgt Ion: 75 Resp: 118705

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

80000

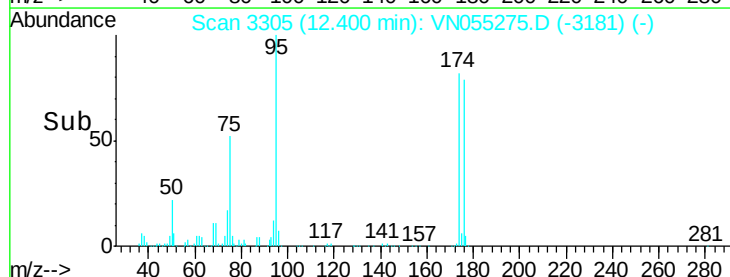
60000

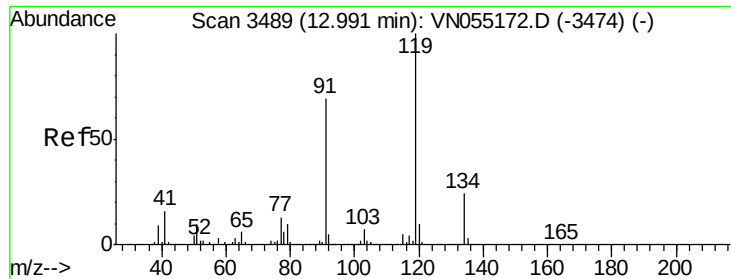
40000

20000

0

Time--> 12.30 12.40 12.50

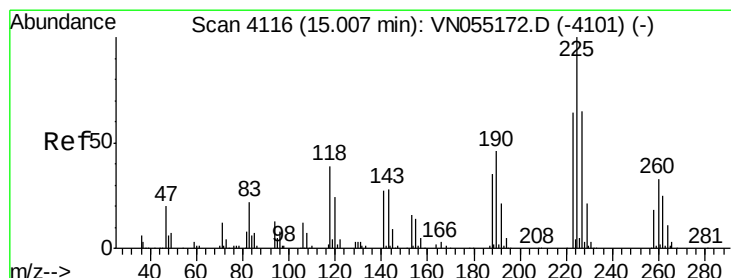
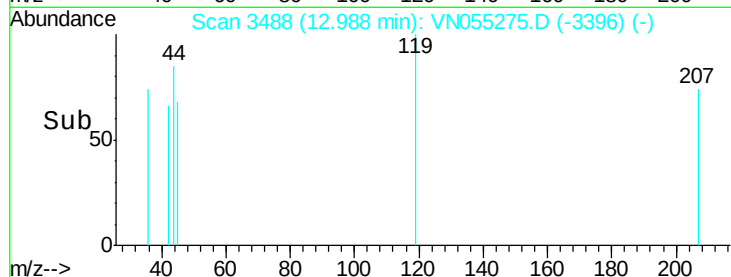
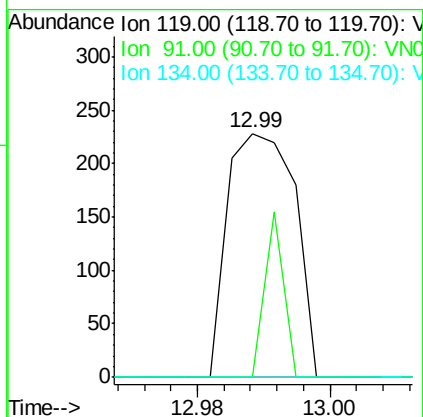
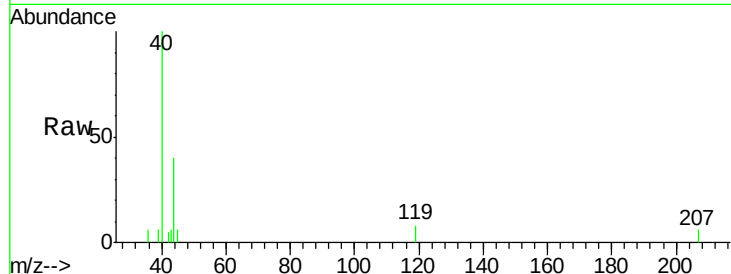




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN055275.D
 Acq: 26 Apr 2019 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 WATER-COMP

Tot Ion:119 Resp: 161
 Ion Ratio Lower Upper
 119 100
 91 18.6 33.8 101.3#
 134 0.0 13.2 39.5#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.02 min Scan# 4120
 Delta R.T. 0.01 min
 Lab File: VN055275.D
 Acq: 26 Apr 2019 14:51

Tgt Ion:225 Resp: 31
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.2 96.6#
 227 0.0 32.6 98.0#

