

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055797.D
 Acq On : 24 May 2019 15:42
 Operator : JC/SP
 Sample : K3042-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

Quant Time: May 25 04:28:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	464106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	653979	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	590693	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	209853	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	213579	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	
35) Dibromofluoromethane	7.59	113	197751	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.09	98	766717	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
62) 4-Bromofluorobenzene	12.40	95	249905	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

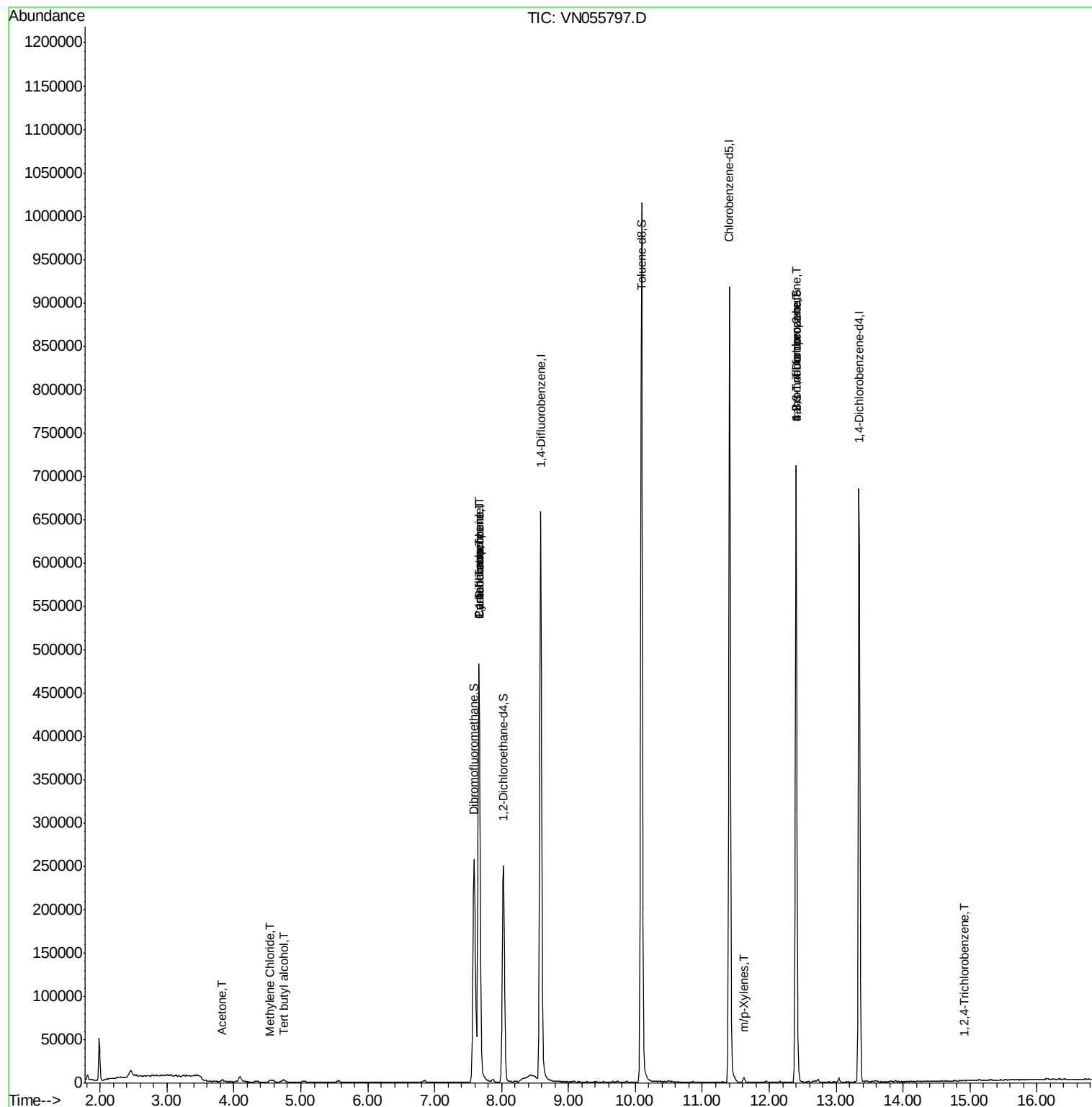
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	1658	1.811	ug/l #	74
16) Acetone	3.82	43	2280	1.082	ug/l	95
18) Methyl Acetate	4.33	43	2275	Below Cal	#	51
20) Methylene Chloride	4.54	84	1003	0.220	ug/l #	85
31) Cyclohexane	7.66	56	7064	0.982	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	26532	4.655	ug/l #	48
38) Carbon Tetrachloride	7.66	117	37346	6.291	ug/l #	14
68) m/p-Xylenes	11.62	106	1982	0.247	ug/l	82
73) Isopropylbenzene	12.25	105	477	Below Cal	#	48
74) N-amyl acetate	12.05	43	428	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	115329	30.701	ug/l #	100
79) 2-Chlorotoluene	12.68	91	293	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	1215	Below Cal		75
81) trans-1,4-Dichloro-2-buten	12.40	75	115329	73.944	ug/l #	15
83) tert-Butylbenzene	13.05	119	369	Below Cal	#	54
84) 1,2,4-Trimethylbenzene	13.04	105	3552	Below Cal		99
85) sec-Butylbenzene	13.17	105	458	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	109	3.662	ug/l #	12

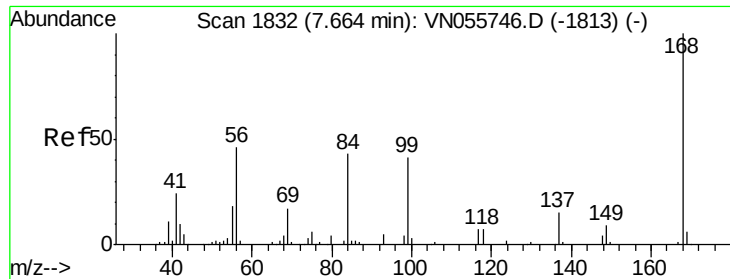
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

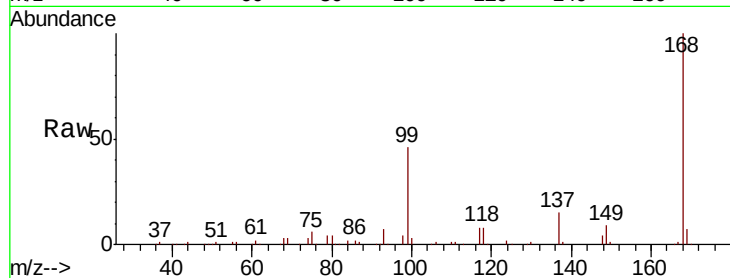
STORAGE-BLANK-WATER-REF-5

Tot Ion:168 Resp: 464106

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055797.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055797.D (-1739) (-)

7.66

200000

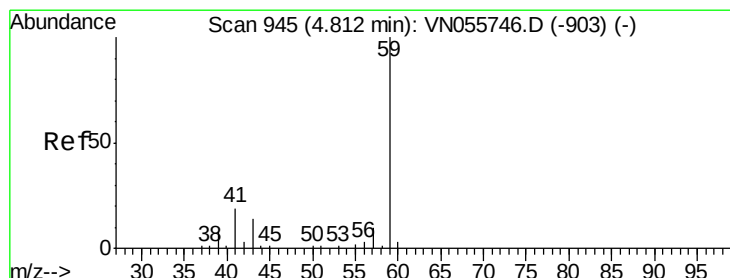
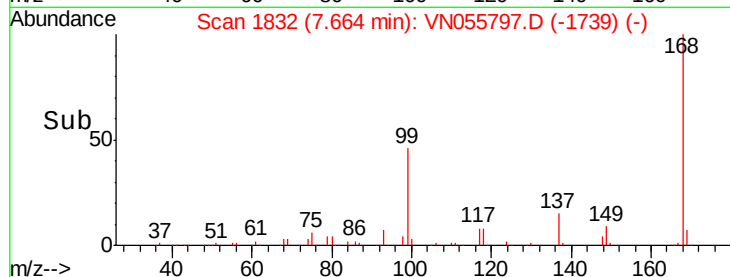
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.811 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055797.D

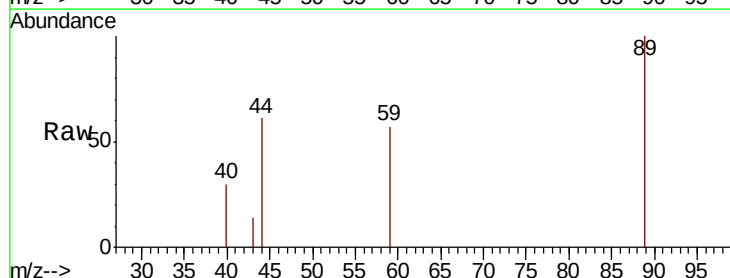
Acq: 24 May 2019 15:42

Tgt Ion: 59 Resp: 1658

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055797.D (-852) (-)

Ion 57.00 (56.70 to 57.70): VN055797.D (-852) (-)

4.74

800

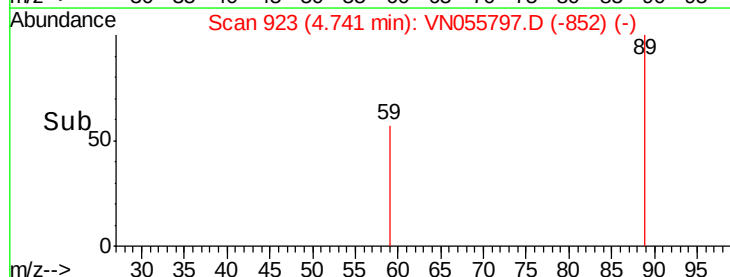
600

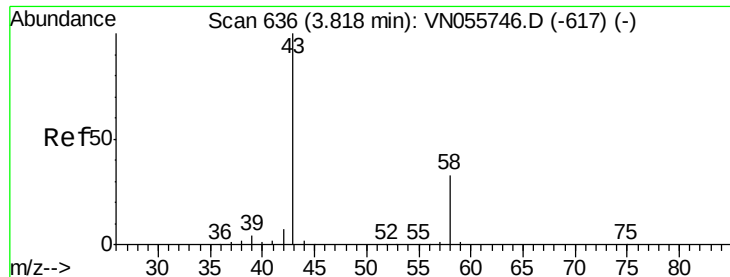
400

200

0

Time-->





#16

Acetone

Concen: 1.082 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

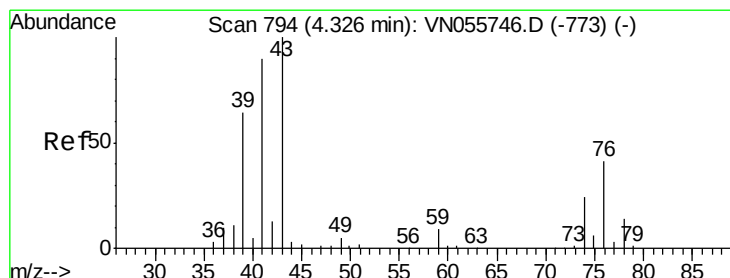
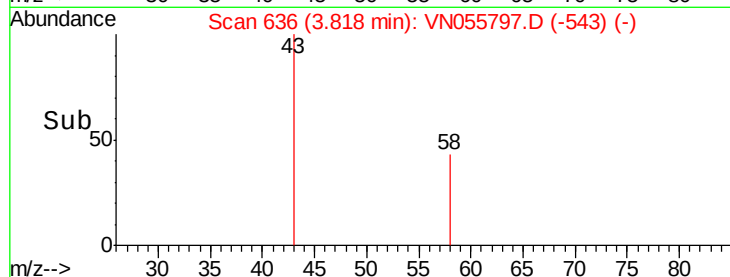
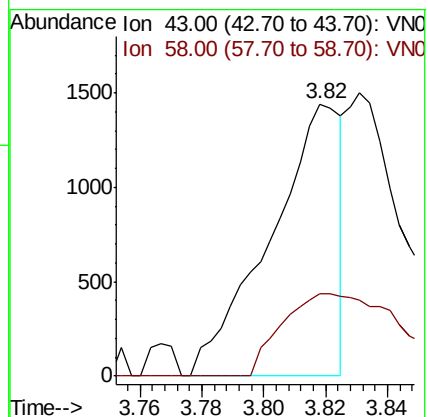
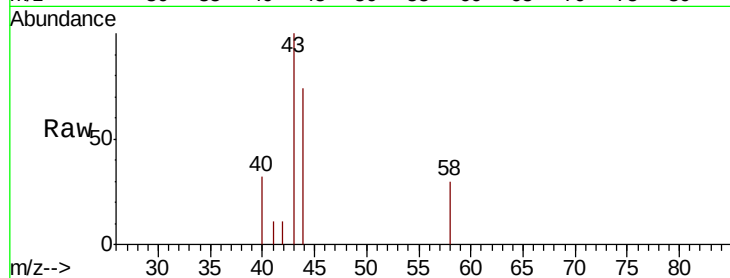
STORAGE-BLANK-WATER-REF-5

Tot Ion: 43 Resp: 2280

Ion Ratio Lower Upper

43 100

58 30.3 26.6 39.8



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055797.D

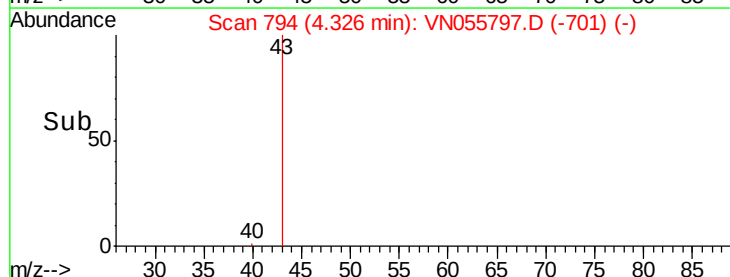
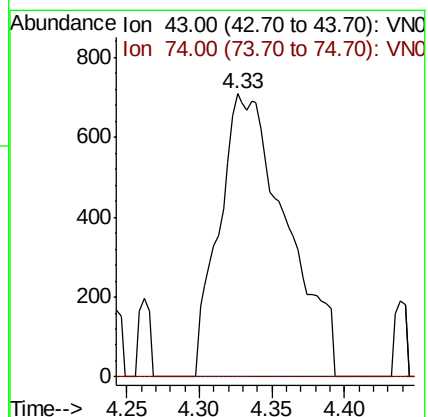
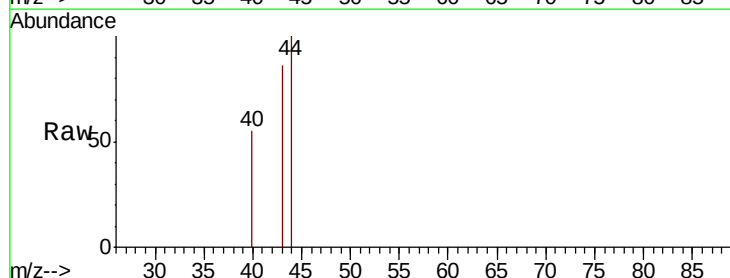
Acq: 24 May 2019 15:42

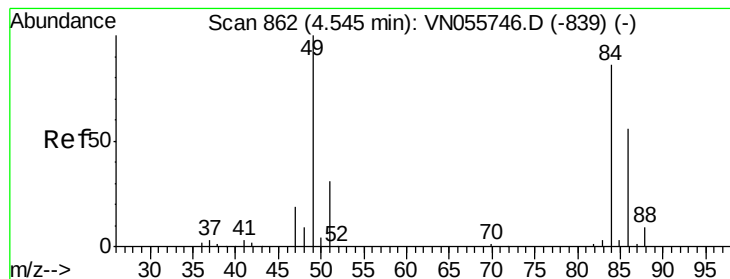
Tgt Ion: 43 Resp: 2275

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#





#20

Methvlene Chloride

Concen: 0.220 ug/l

RT: 4.54 min Scan# 860

Delta R.T. -0.01 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

Tot Ion: 84 Resp: 1003

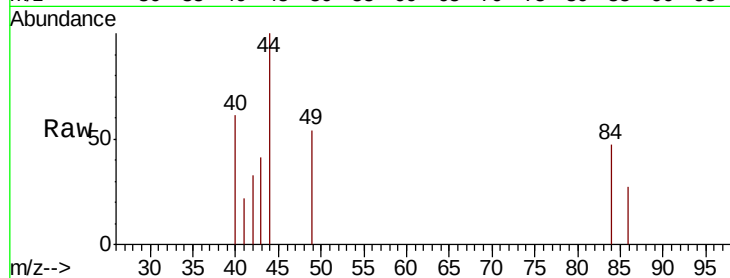
Ion Ratio Lower Upper

84 100

49 113.9 93.5 140.3

51 0.0 28.6 43.0#

86 57.4 52.6 79.0

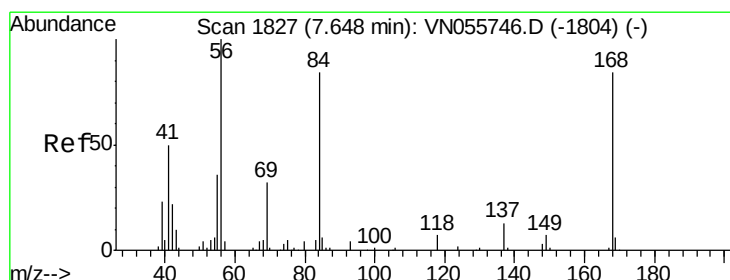
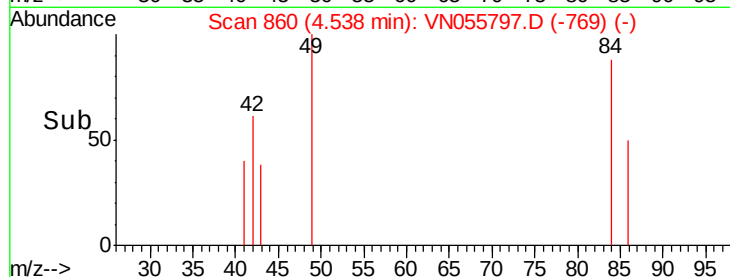
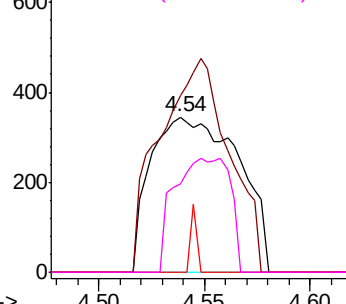


Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#31

Cyclohexane

Concen: 0.982 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

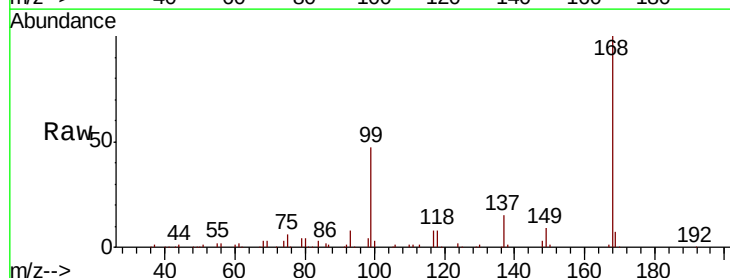
Tgt Ion: 56 Resp: 7064

Ion Ratio Lower Upper

56 100

69 193.4 25.6 38.4#

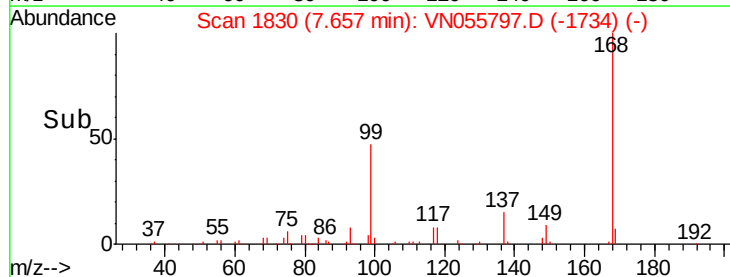
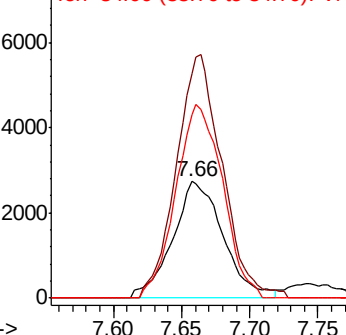
84 157.3 67.4 101.0#

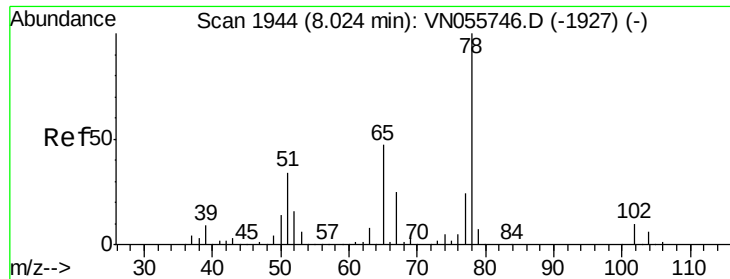


Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC

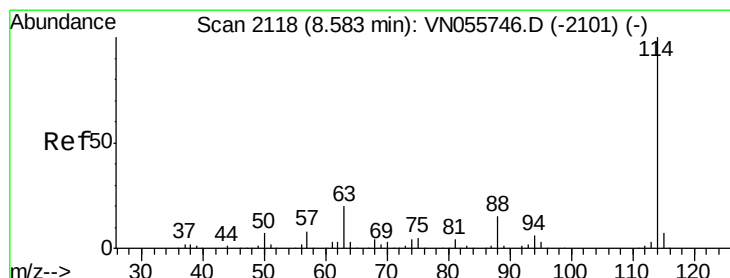
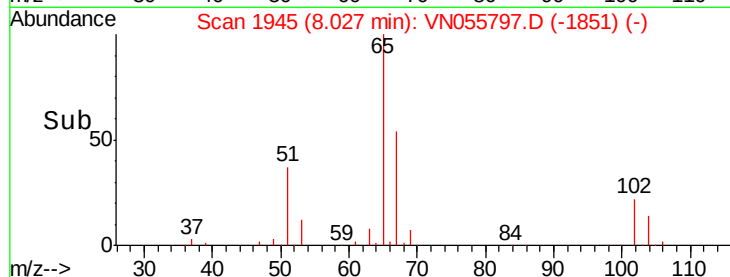
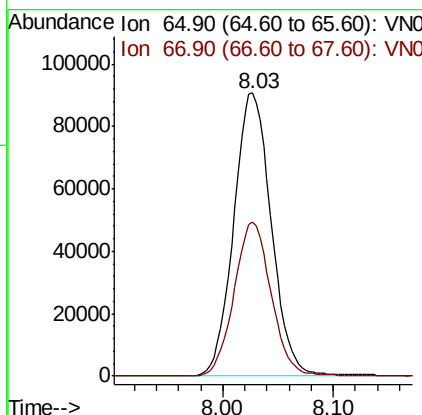
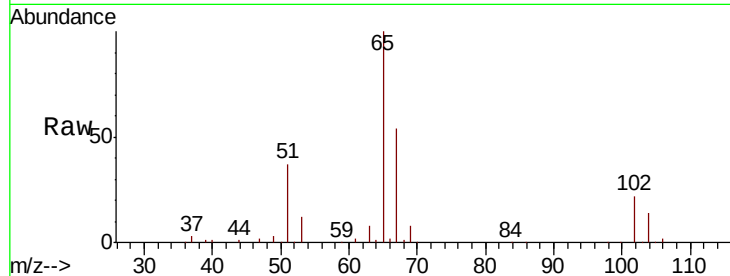




#33
 1,2-Dichloroethane-d4
 Concen: 44.561 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055797.D
 Acq: 24 May 2019 15:42

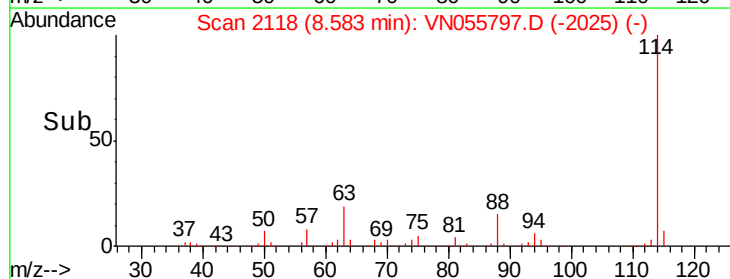
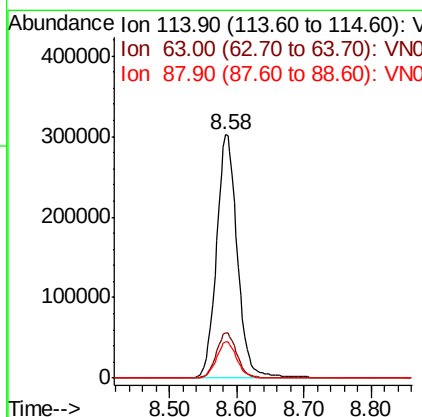
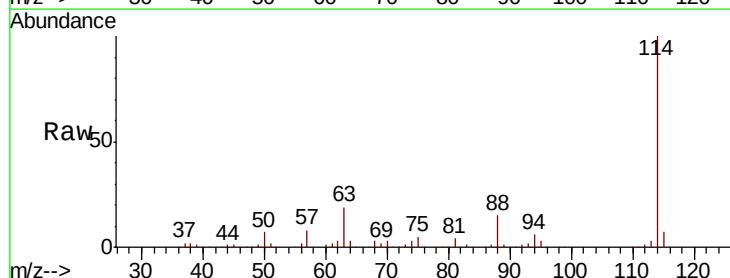
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

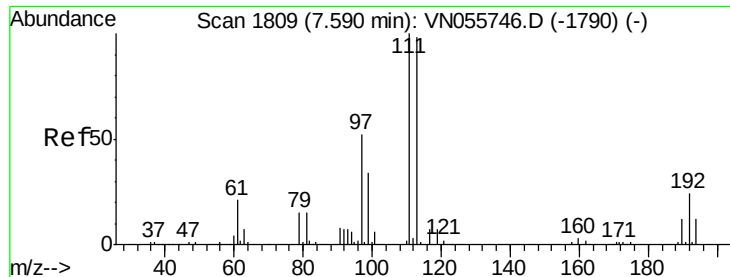
Tot Ion: 65 Resp: 213579
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055797.D
 Acq: 24 May 2019 15:42

Tgt Ion: 114 Resp: 653979
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.1 0.0 31.0

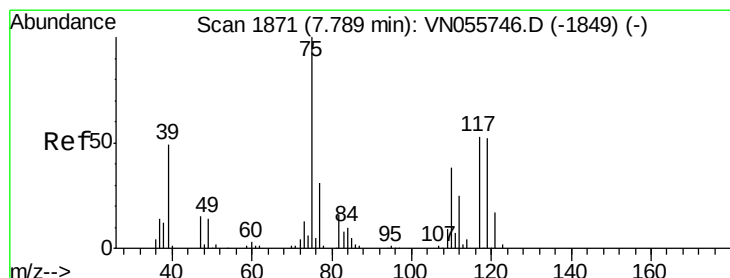
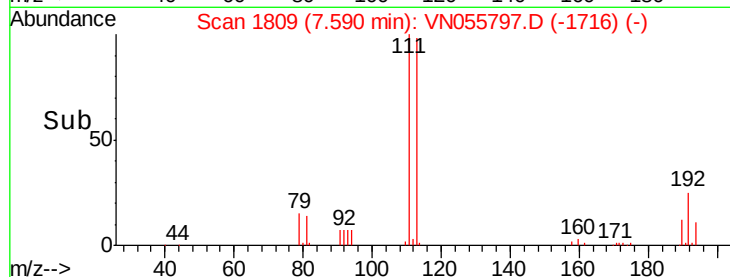
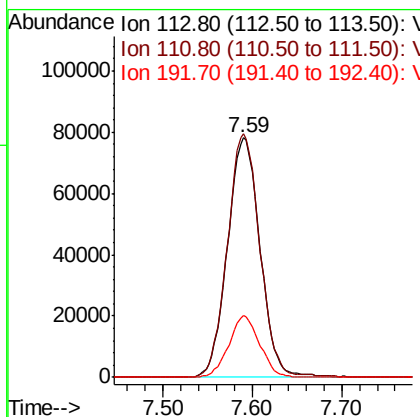
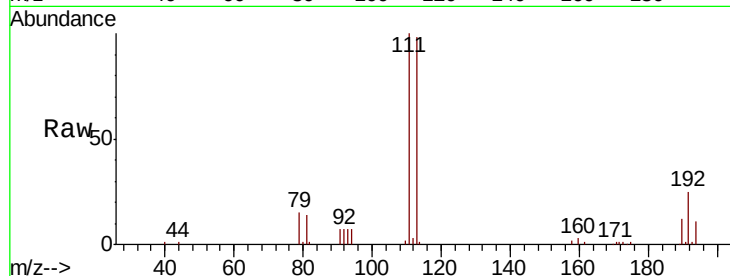




#35
 Dibromofluoromethane
 Concen: 47.827 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055797.D
 Acq: 24 May 2019 15:42

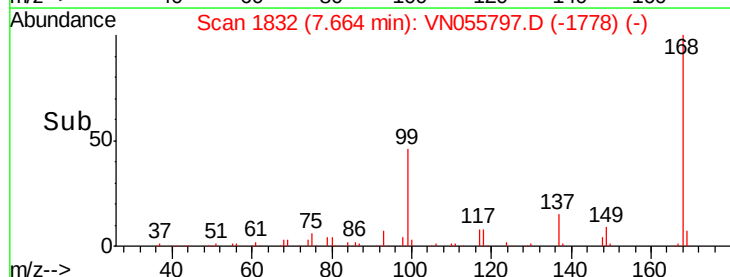
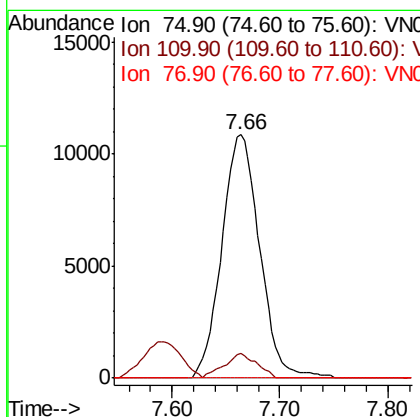
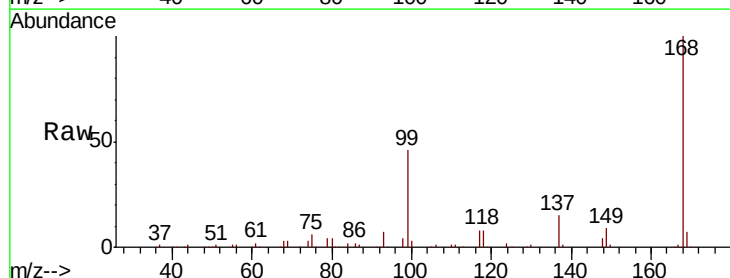
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

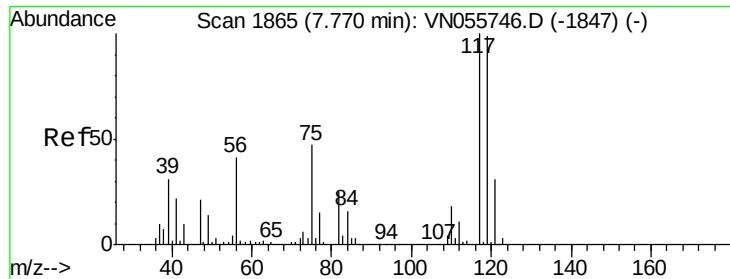
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.9	122.9
192	24.5	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.655 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055797.D
 Acq: 24 May 2019 15:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.291 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

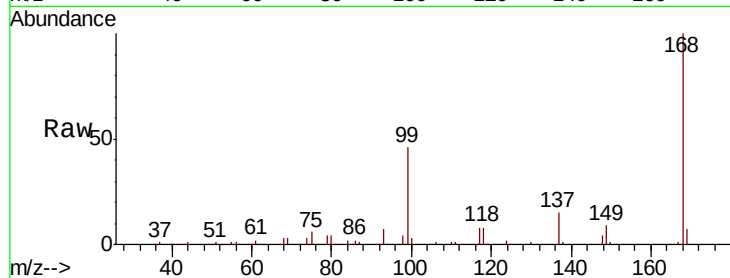
Tot Ion:117 Resp: 37346

Ion Ratio Lower Upper

117 100

119 4.7 79.0 118.6#

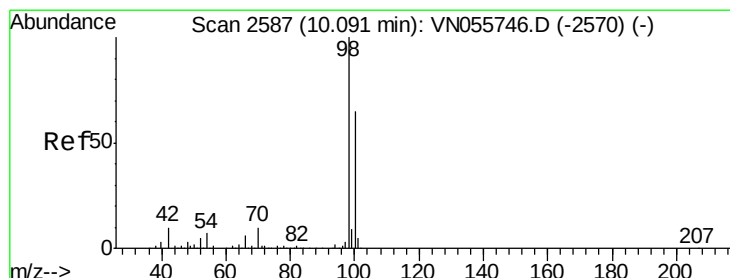
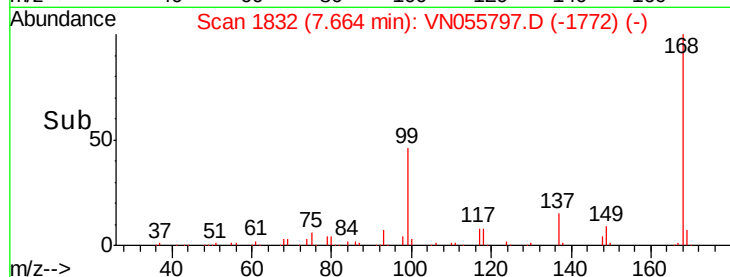
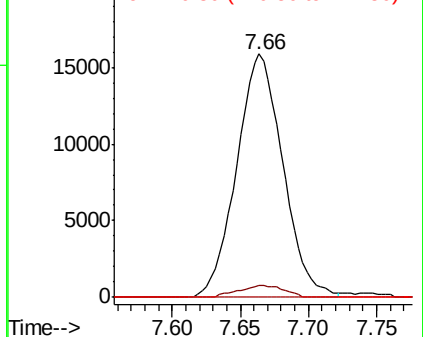
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 48.342 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055797.D

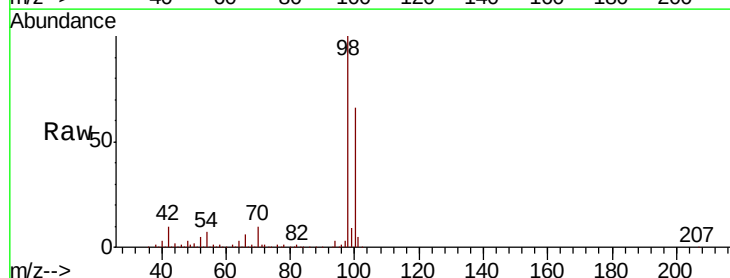
Acq: 24 May 2019 15:42

Tgt Ion: 98 Resp: 766717

Ion Ratio Lower Upper

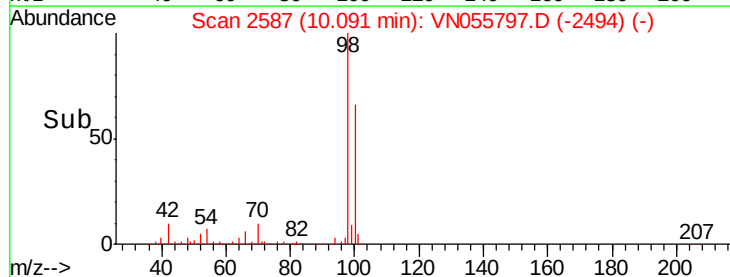
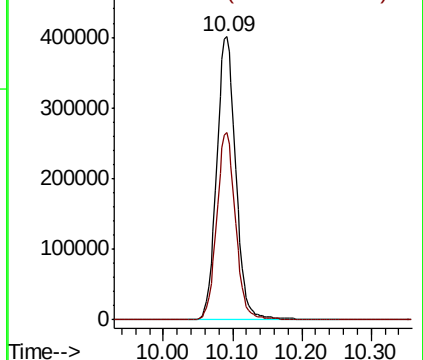
98 100

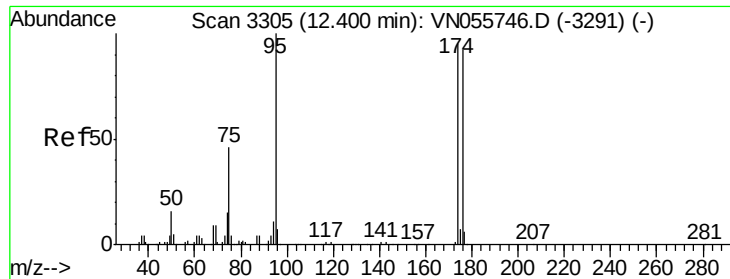
100 65.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 45.953 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

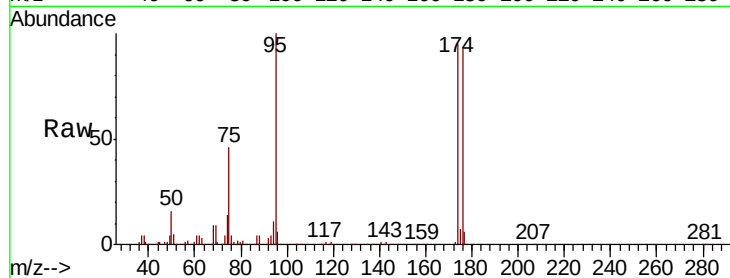
Tot Ion: 95 Resp: 249905

Ion Ratio Lower Upper

95 100

174 96.5 0.0 191.0

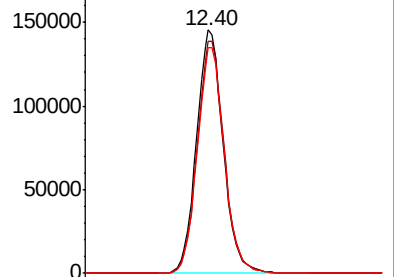
176 93.8 0.0 185.2



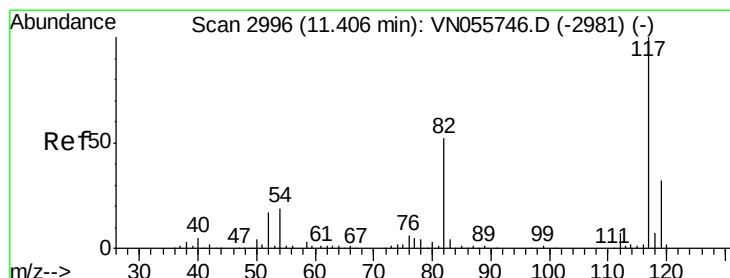
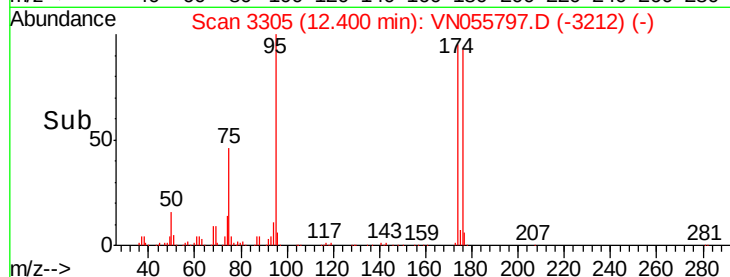
Abundance Ion 94.90 (94.60 to 95.60): VN055746.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055746.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055746.D (-3291) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

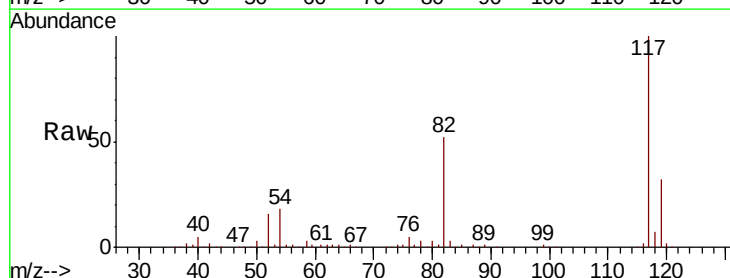
Tgt Ion: 117 Resp: 590693

Ion Ratio Lower Upper

117 100

82 52.1 41.8 62.8

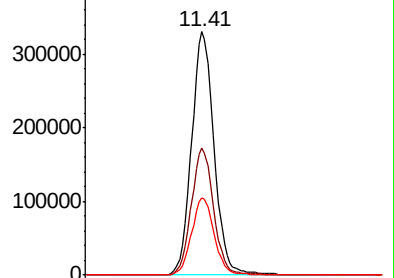
119 31.9 25.4 38.0



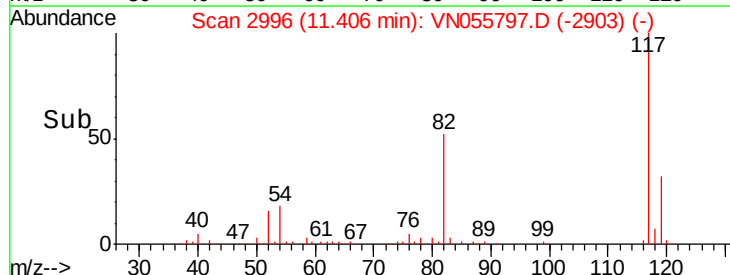
Abundance Ion 116.90 (116.60 to 117.60): VN055746.D (-2981) (-)

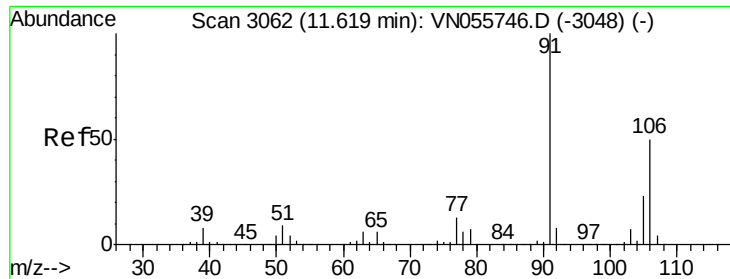
Ion 82.00 (81.70 to 82.70): VN055746.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055746.D (-2981) (-)



Time-->

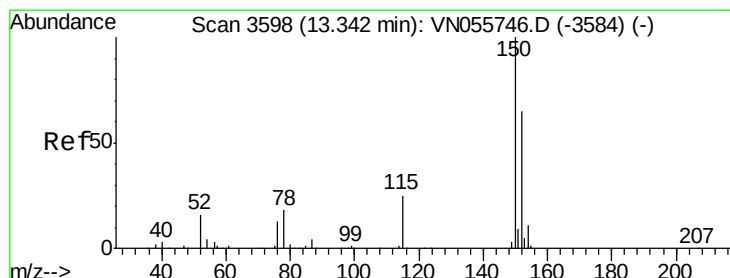
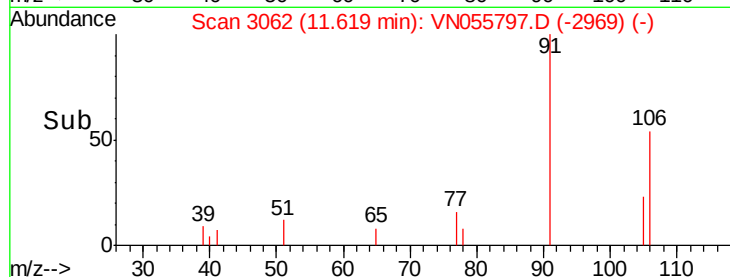
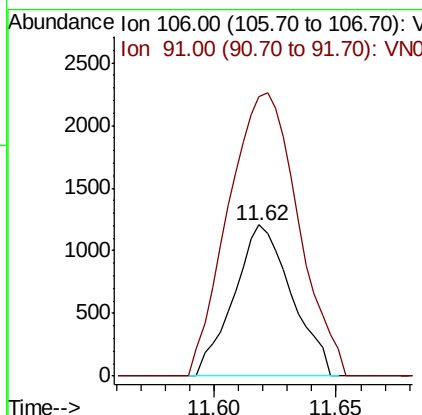
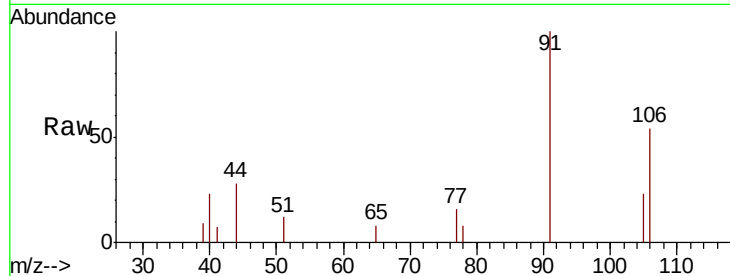




#68
m/p-Xylenes
Concen: 0.247 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055797.D
Acq: 24 May 2019 15:42

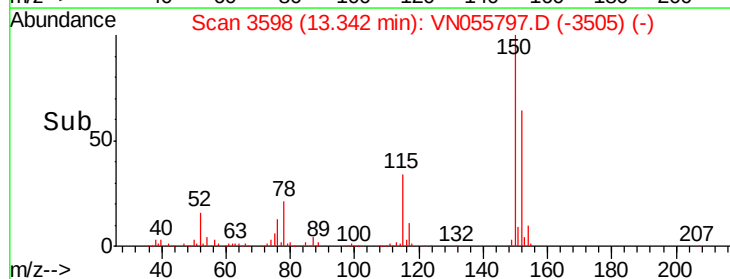
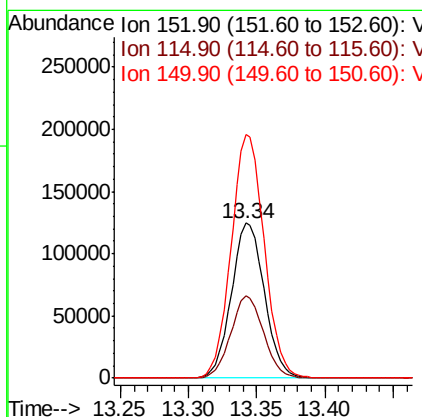
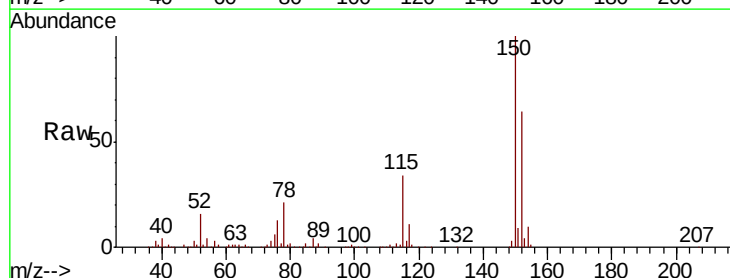
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

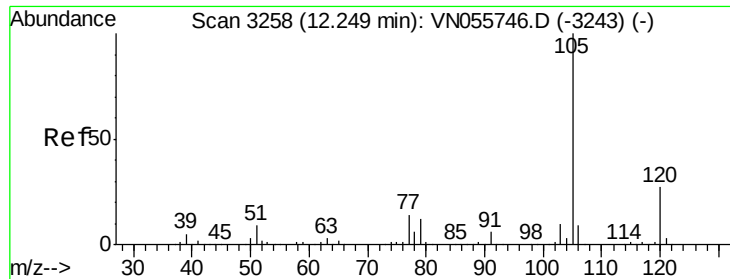
Tot Ion:106 Resp: 1982
Ion Ratio Lower Upper
106 100
91 227.0 159.3 238.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055797.D
Acq: 24 May 2019 15:42

Tgt Ion:152 Resp: 209853
Ion Ratio Lower Upper
152 100
115 52.7 27.0 81.0
150 156.6 0.0 343.2





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

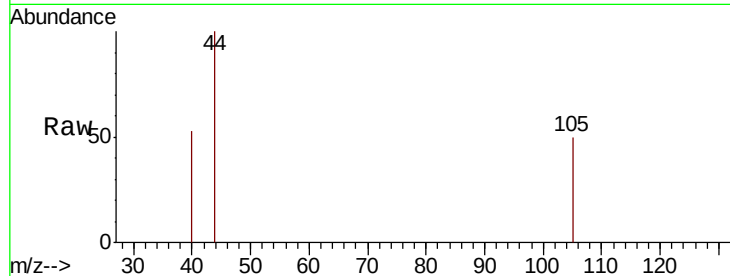
STORAGE-BLANK-WATER-REF-5

Tot Ion: 105 Resp: 477

Ion Ratio Lower Upper

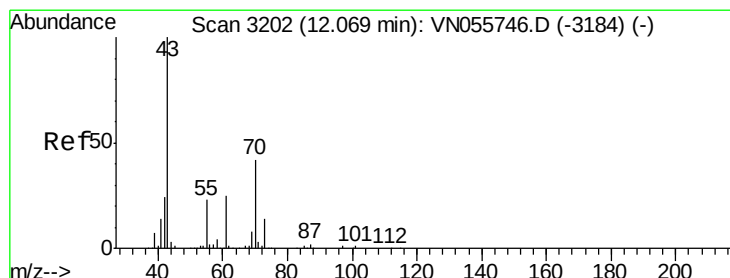
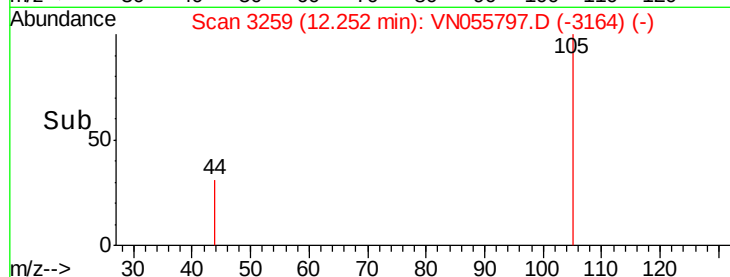
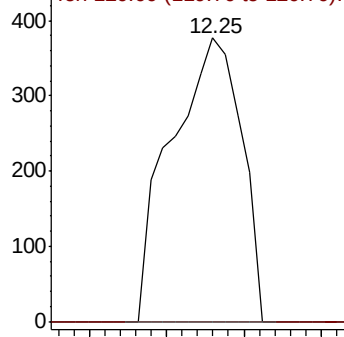
105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-amyl acetate

Concen: Below Cal

RT: 12.05 min Scan# 3196

Delta R.T. -0.02 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Tgt Ion: 43 Resp: 428

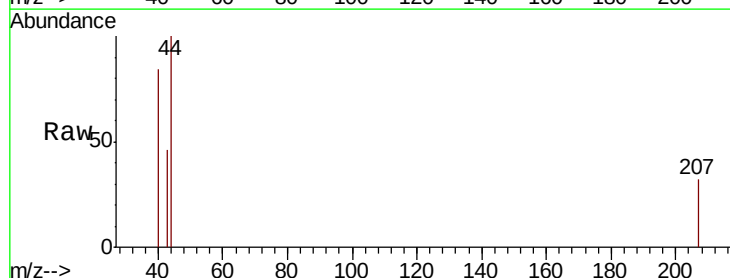
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

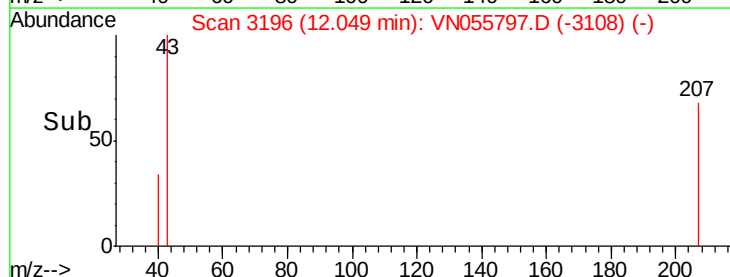
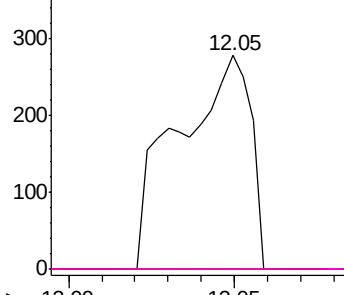


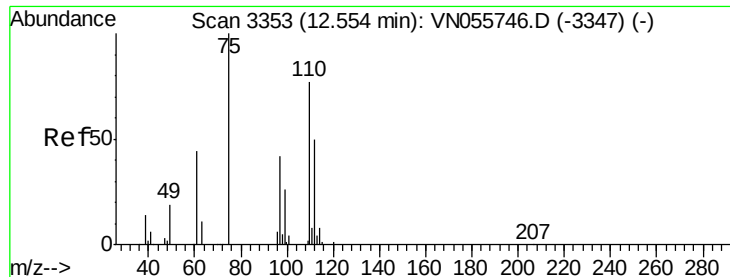
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.701 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

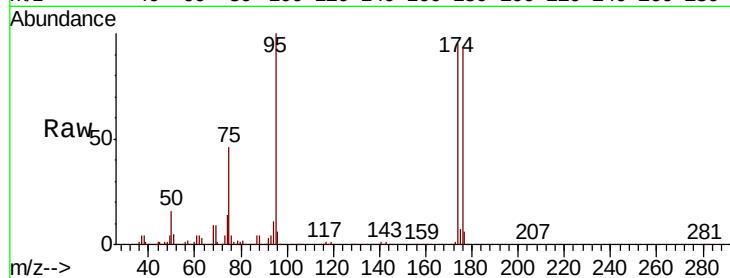
STORAGE-BLANK-WATER-REF-5

Tot Ion: 75 Resp: 115329

Ion Ratio Lower Upper

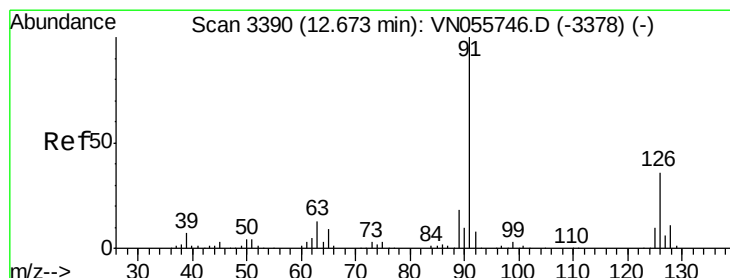
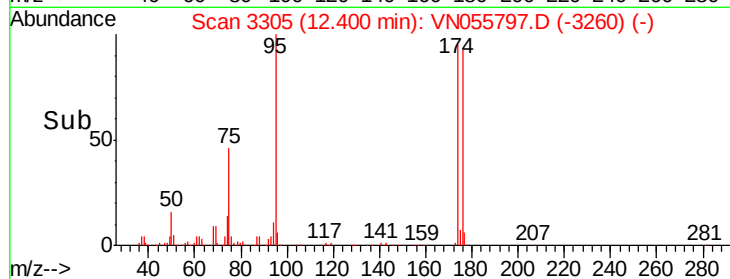
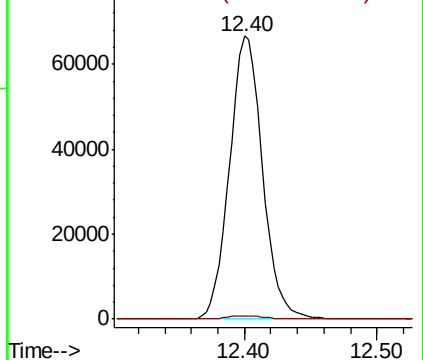
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055797.D

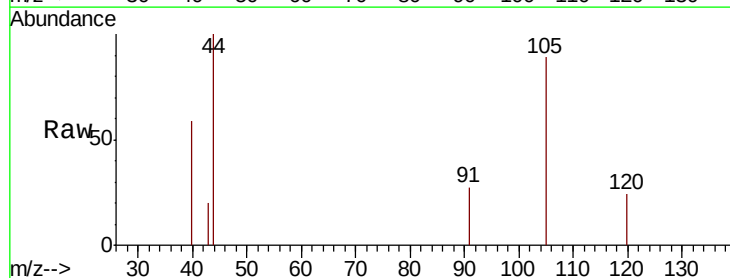
Acq: 24 May 2019 15:42

Tgt Ion: 91 Resp: 293

Ion Ratio Lower Upper

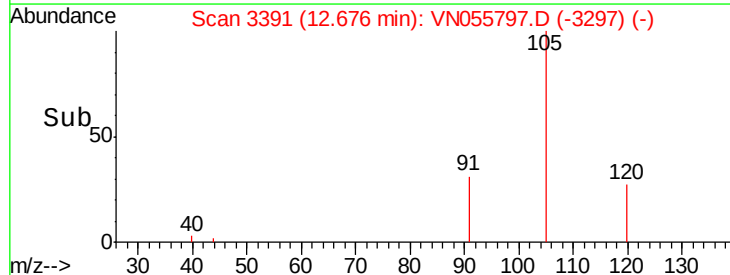
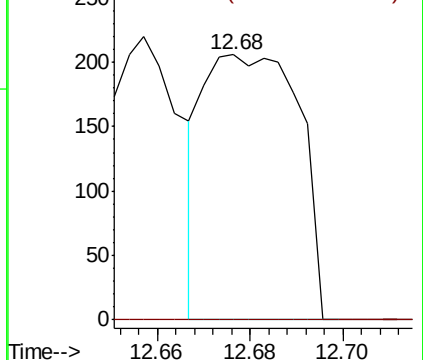
91 100

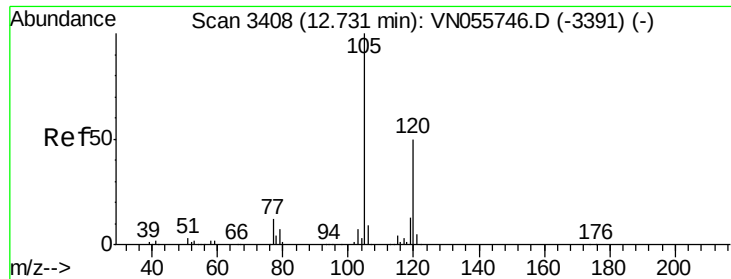
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

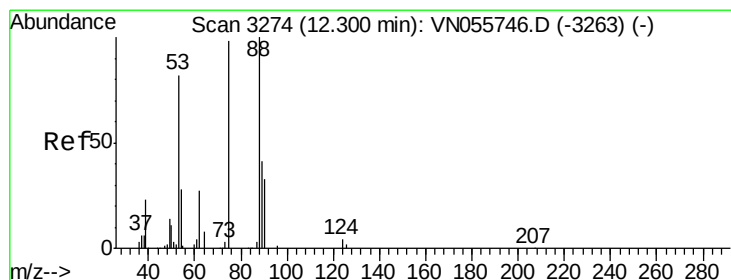
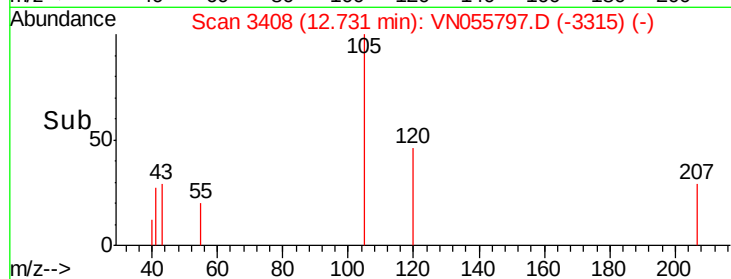
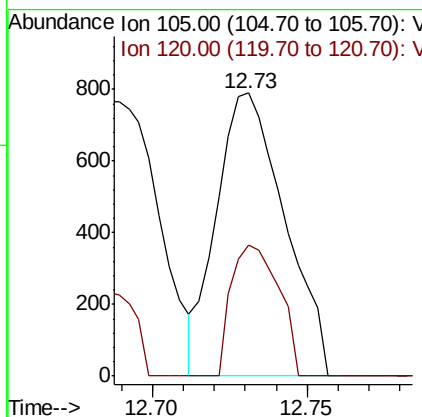
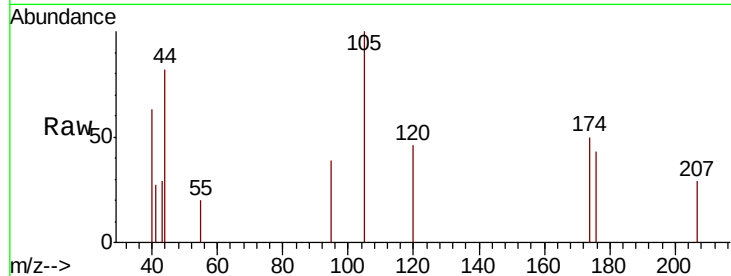




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055797.D
 Acq: 24 May 2019 15:42

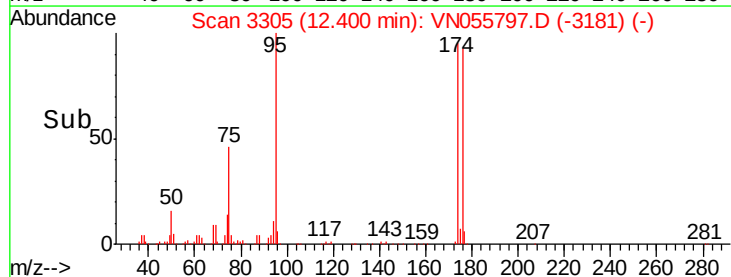
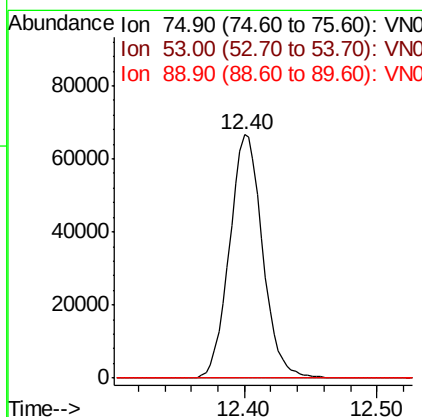
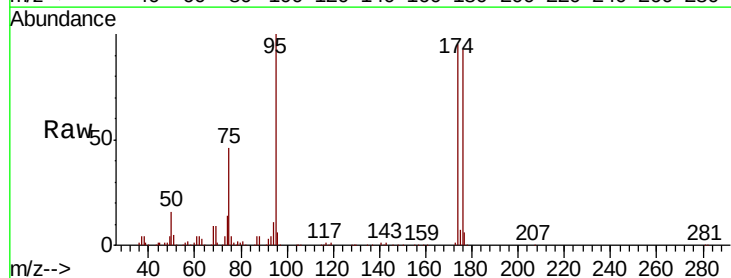
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

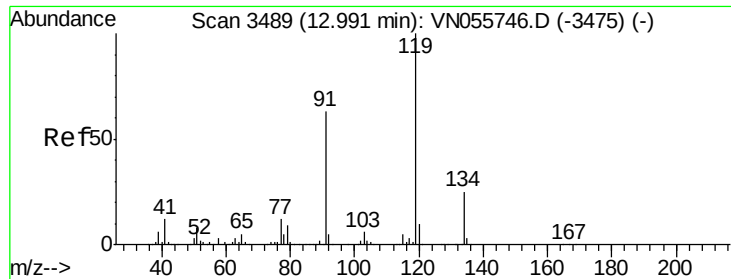
Tot Ion: 105 Resp: 1215
 Ion Ratio Lower Upper
 105 100
 120 32.2 24.7 74.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.944 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055797.D
 Acq: 24 May 2019 15:42

Tgt Ion: 75 Resp: 115329
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

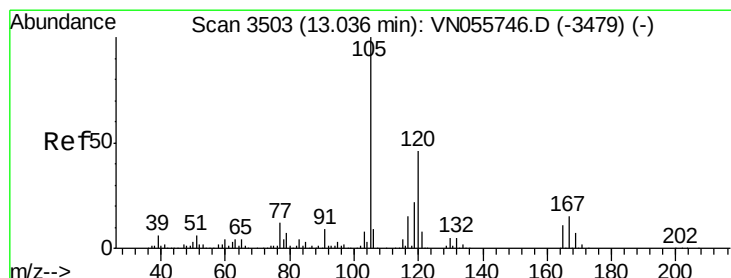
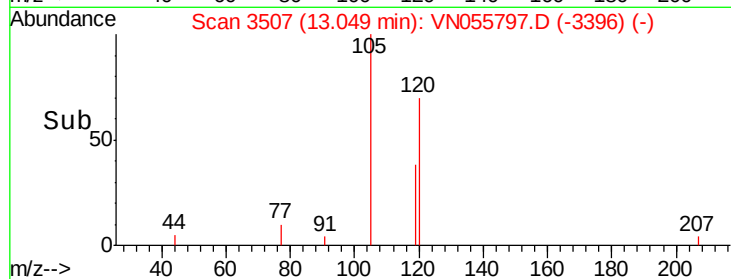
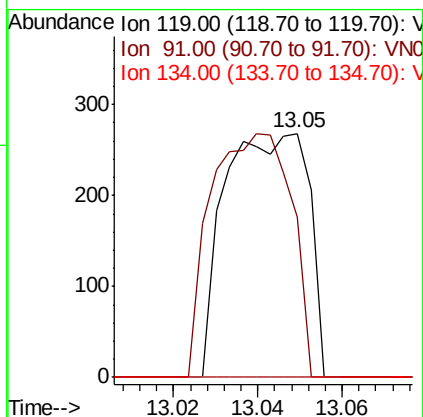
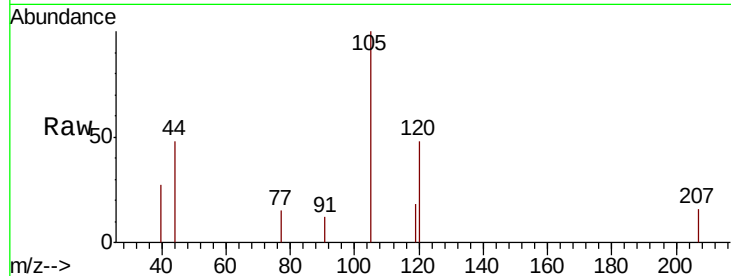




#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.05 min Scan# 3507
Delta R.T. 0.06 min
Lab File: VN055797.D
Acq: 24 May 2019 15:42

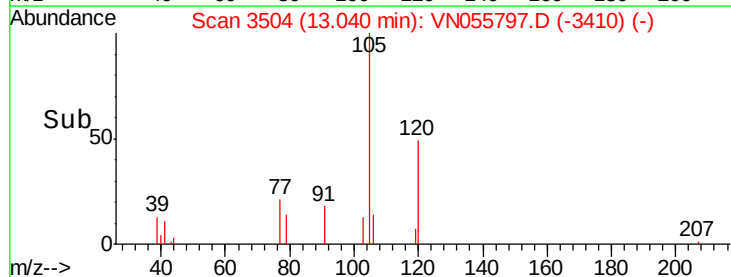
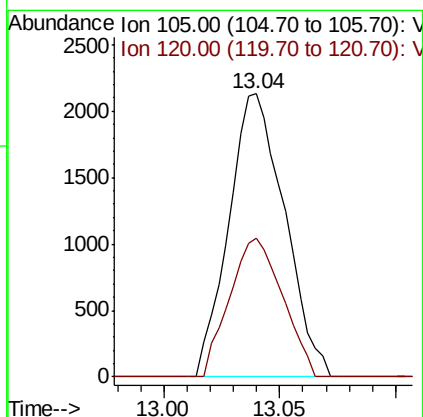
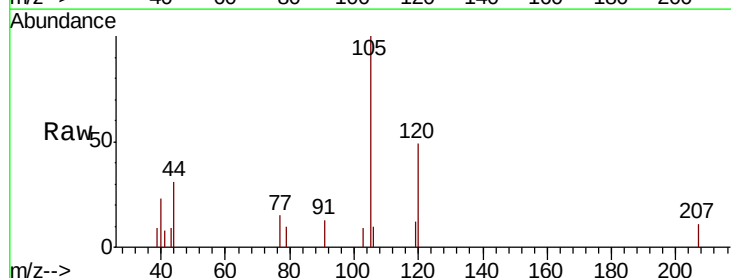
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

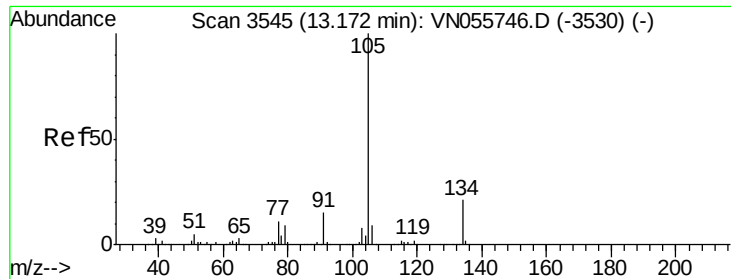
Tot Ion:119 Resp: 369
Ion Ratio Lower Upper
119 100
91 95.7 30.9 92.8#
134 0.0 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055797.D
Acq: 24 May 2019 15:42

Tgt Ion:105 Resp: 3552
Ion Ratio Lower Upper
105 100
120 46.6 23.0 69.0





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

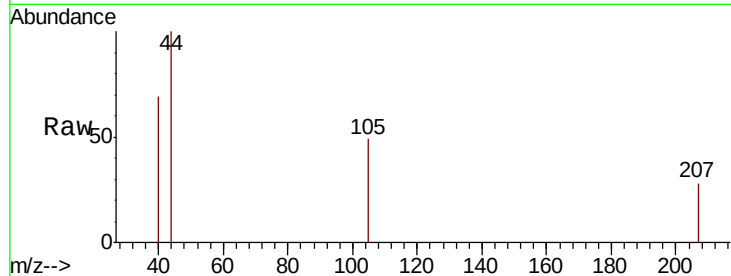
STORAGE-BLANK-WATER-REF-5

Tot Ion:105 Resp: 458

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

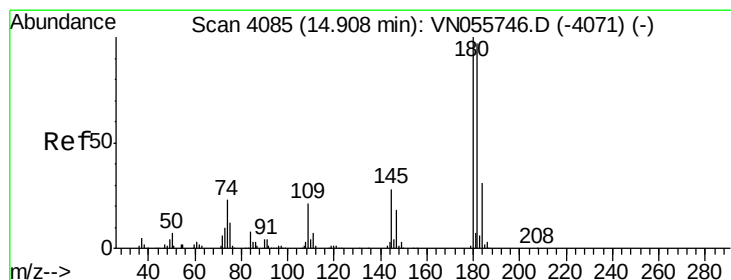
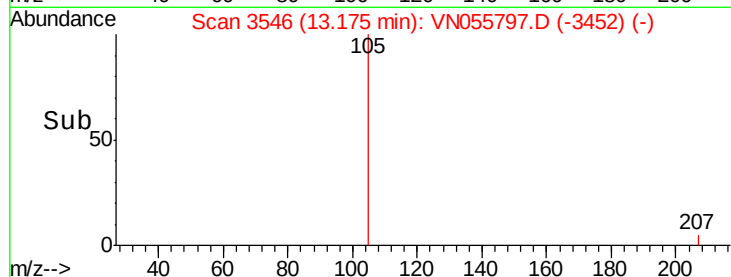
300

200

100

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.662 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055797.D

Acq: 24 May 2019 15:42

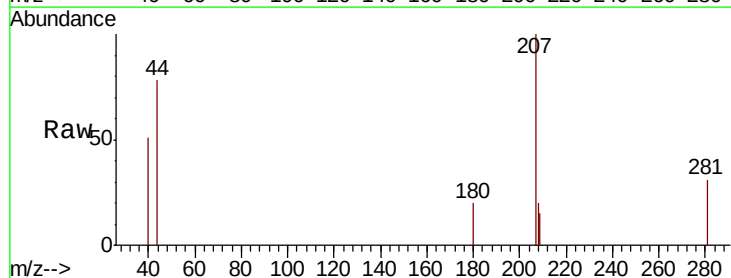
Tgt Ion:180 Resp: 109

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 0.0 14.0 41.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

14.91

250

200

150

100

50

0

Time-->

