

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054805.D
 Acq On : 30 Mar 2019 16:25
 Operator : JC/SP
 Sample : K2181-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 22:41:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	517297	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	862520	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	692457	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	239023	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	349641	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
35) Dibromofluoromethane	7.59	113	273010	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	
50) Toluene-d8	10.09	98	1008160	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	
62) 4-Bromofluorobenzene	12.40	95	296456	41.70	ug/l	0.00
Spiked Amount			Recovery	=	83.40%	

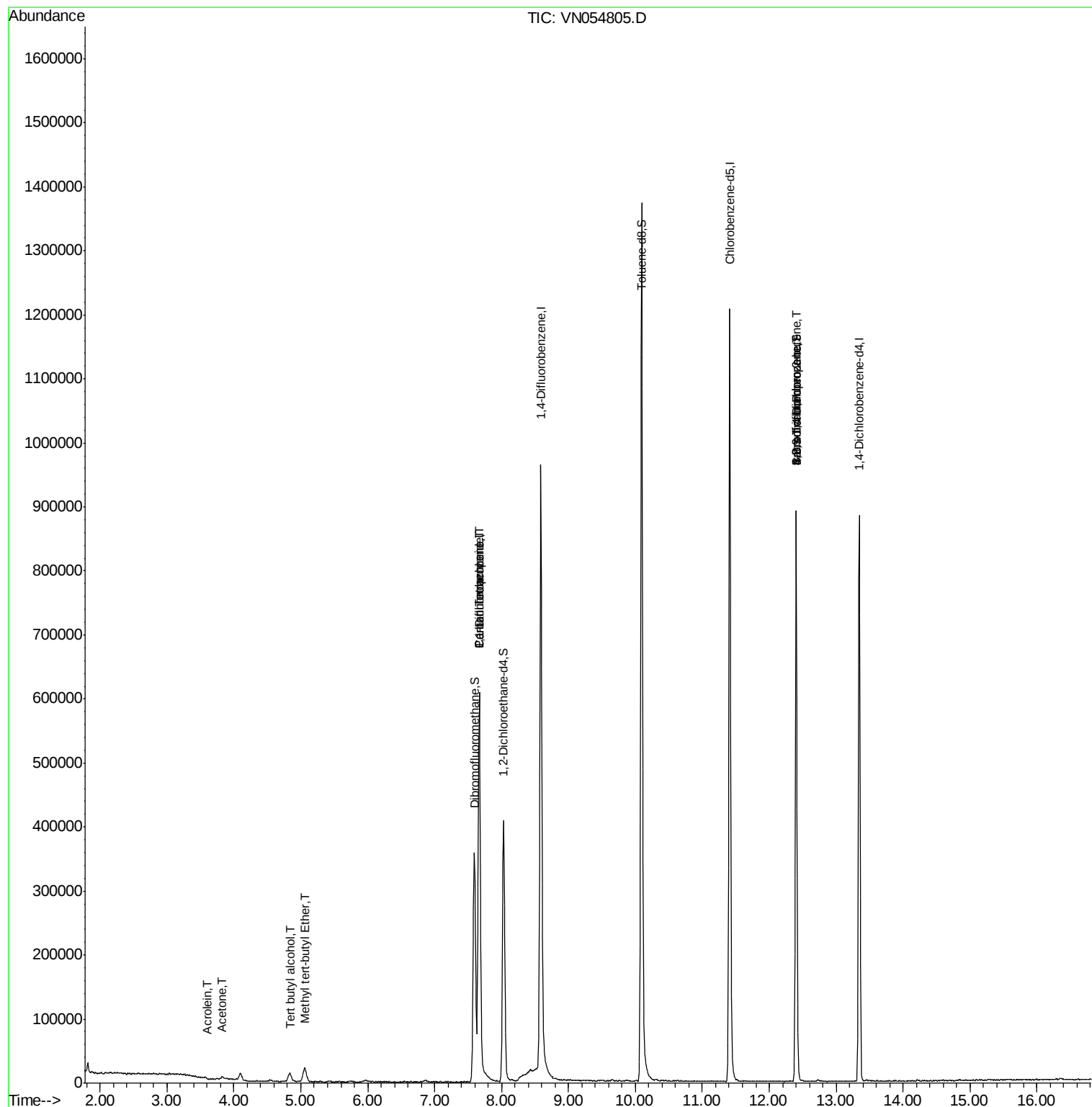
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	289	Below Cal	#	2
11) Tert butyl alcohol	4.84	59	22796	62.743	ug/l #	79
13) Acrolein	3.61	56	166	0.511	ug/l #	60
16) Acetone	3.83	43	5608	3.372	ug/l #	82
18) Methyl Acetate	4.34	43	792	Below Cal	#	69
19) Methyl tert-butyl Ether	5.06	73	33062	2.324	ug/l	97
31) Cyclohexane	7.67	56	11561	Below Cal	#	27
36) 1,1-Dichloropropene	7.67	75	39258	4.885	ug/l #	43
38) Carbon Tetrachloride	7.66	117	47838	6.128	ug/l #	15
71) Bromoform	12.40	173	1951	0.656	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.39	83	29	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	154502	37.208	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	154502	144.730	ug/l #	11

(#) = 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: VN054805.D

Acq: 30 Mar 2019 16:25

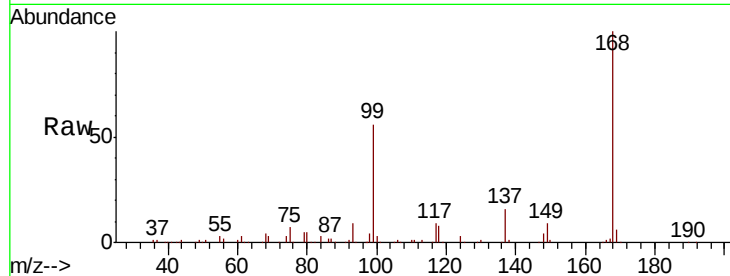
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 517297

Ion Ratio Lower Upper

168 100

99 55.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

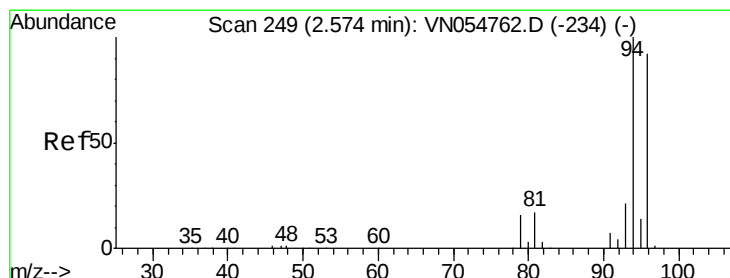
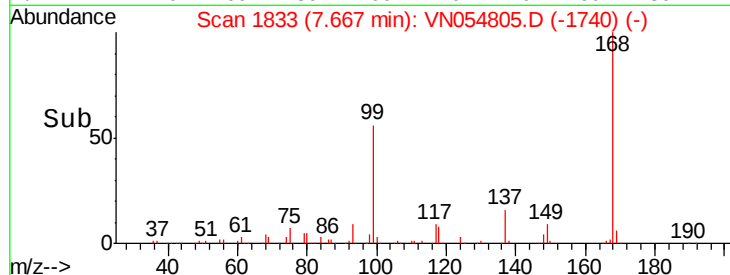
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054805.D

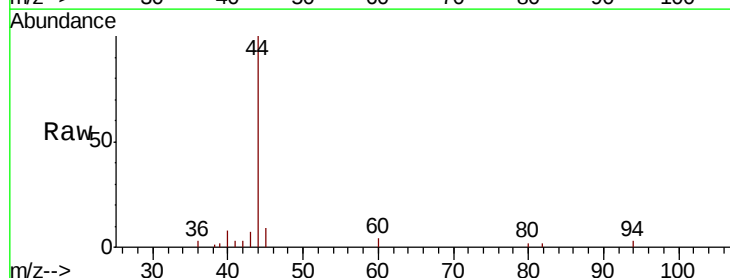
Acq: 30 Mar 2019 16:25

Tgt Ion: 94 Resp: 289

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

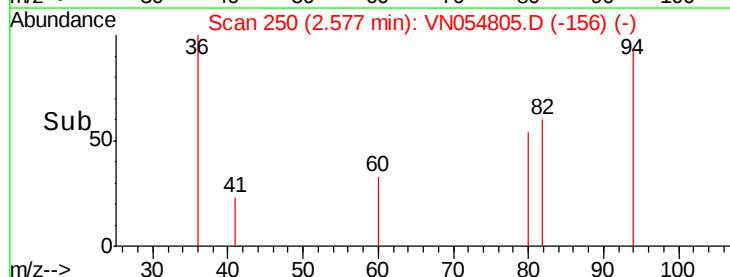
300

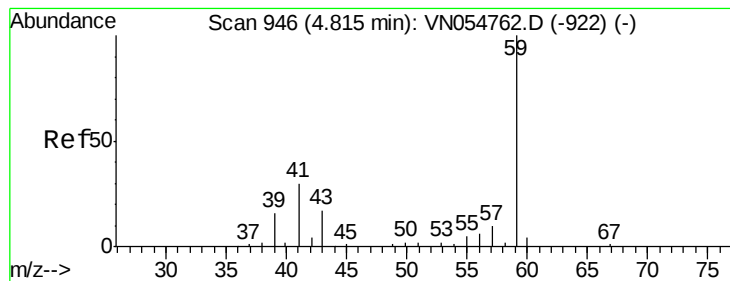
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 62.743 ug/l

RT: 4.84 min Scan# 953

Delta R.T. 0.02 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

Instrument :

MSVOA_N

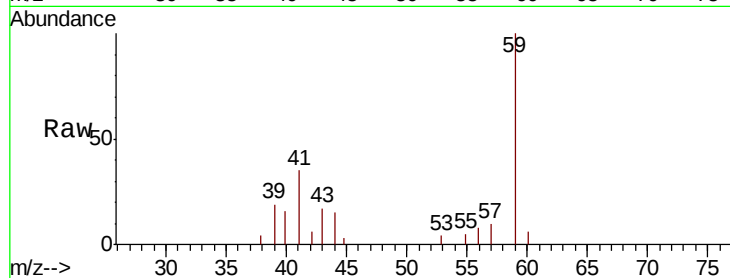
ClientSampled :

Tot Ion: 59 Resp: 22796

Ion Ratio Lower Upper

59 100

57 3.1 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN054762.D (-922) (-)

Ion 57.00 (56.70 to 57.70): VN054762.D (-922) (-)

4.84

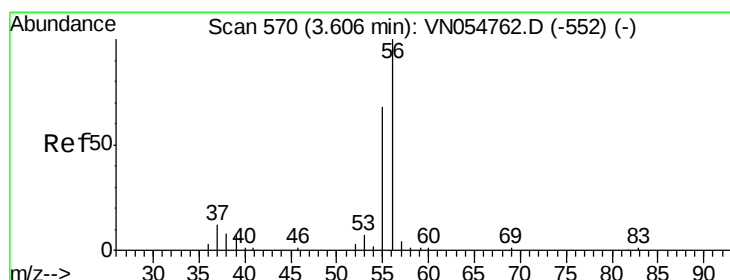
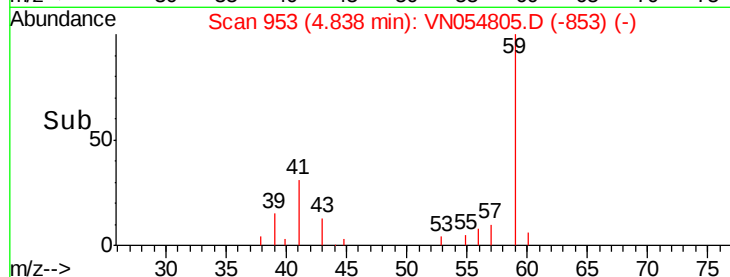
6000

4000

2000

0

Time--> 4.70 4.80 4.90



#13

Acrolein

Concen: 0.511 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054805.D

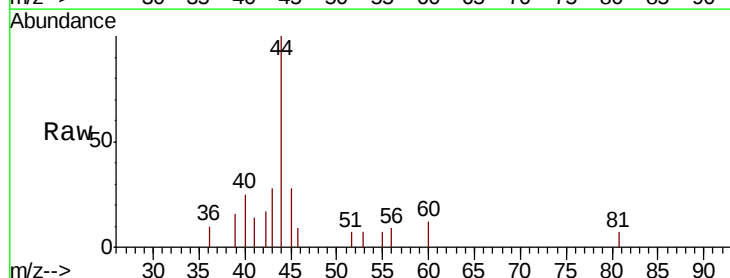
Acq: 30 Mar 2019 16:25

Tgt Ion: 56 Resp: 166

Ion Ratio Lower Upper

56 100

55 103.6 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054762.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN054762.D (-552) (-)

3.61

200

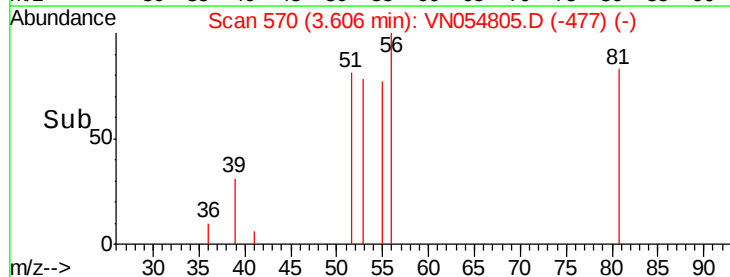
150

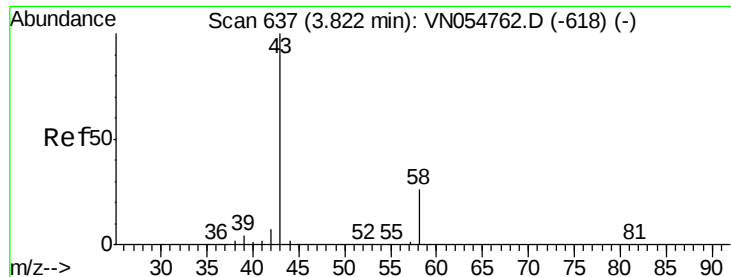
100

50

0

Time--> 3.58 3.59 3.60 3.61 3.62





#16

Acetone

Concen: 3.372 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

Instrument :

MSVOA_N

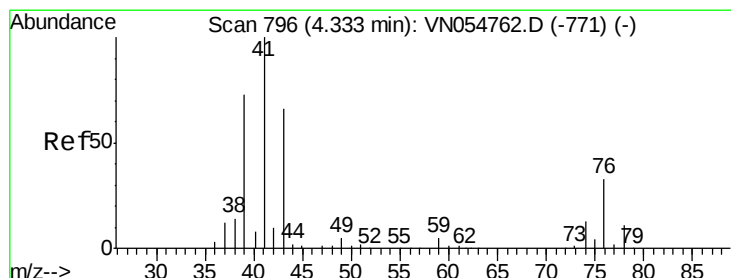
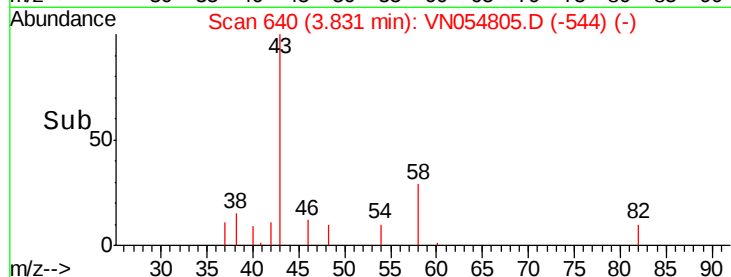
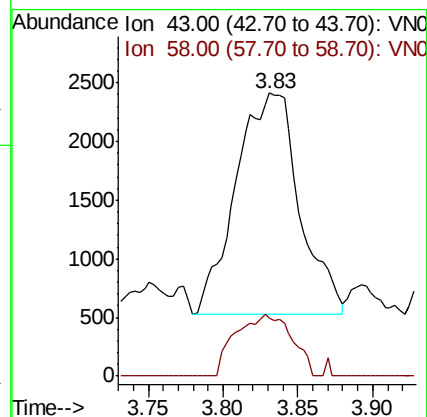
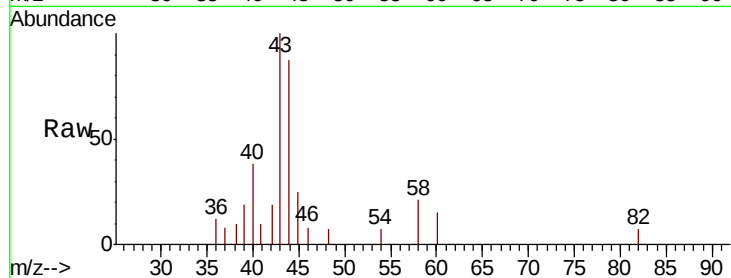
ClientSampled :

Tot Ion: 43 Resp: 5608

Ion Ratio Lower Upper

43 100

58 26.4 29.9 44.9#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN054805.D

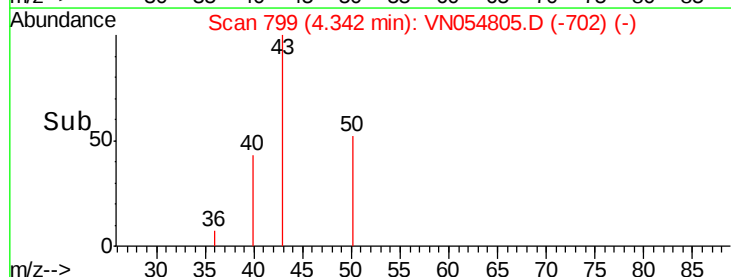
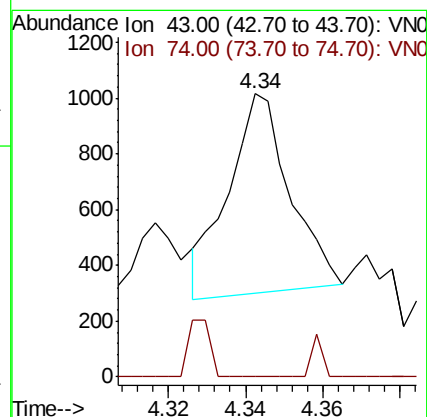
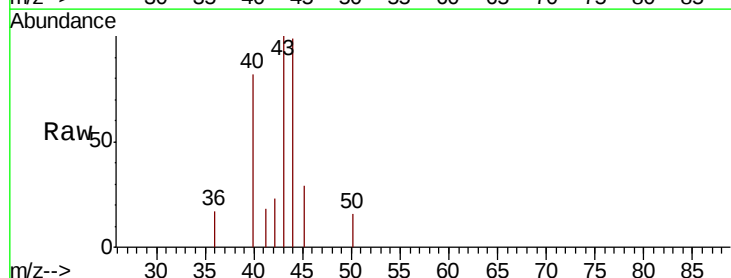
Acq: 30 Mar 2019 16:25

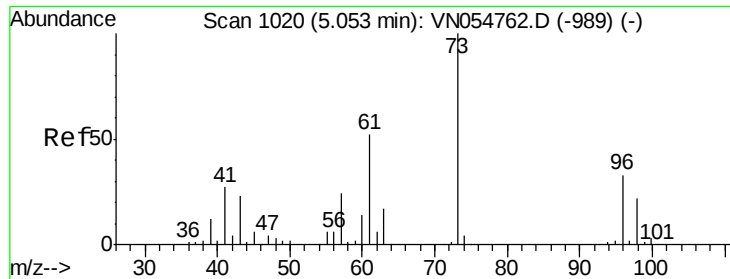
Tgt Ion: 43 Resp: 792

Ion Ratio Lower Upper

43 100

74 10.0 20.8 31.2#

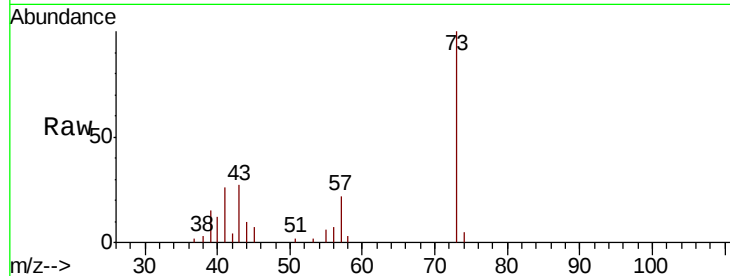




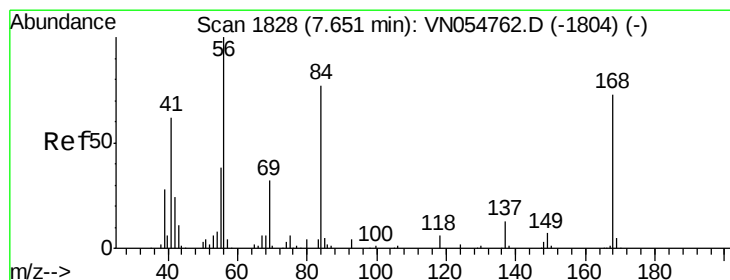
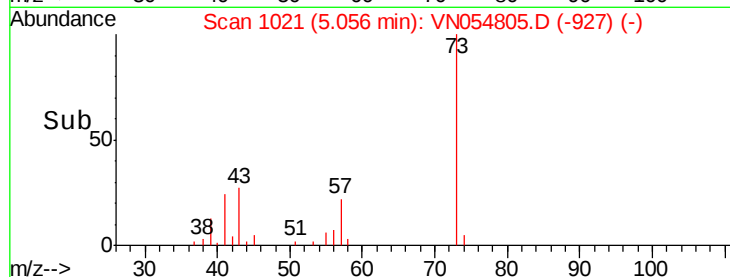
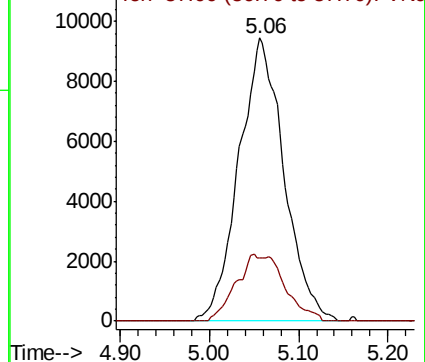
#19
Methvl tert-butvl Ether
Concen: 2.324 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054805.D
Acq: 30 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 73 Resp: 33062
Ion Ratio Lower Upper
73 100
57 22.2 16.8 25.2

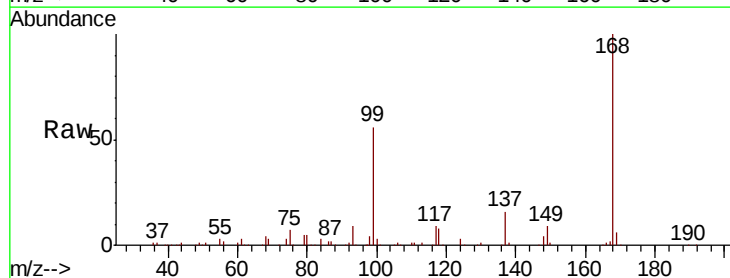


Abundance Ion 73.00 (72.70 to 73.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

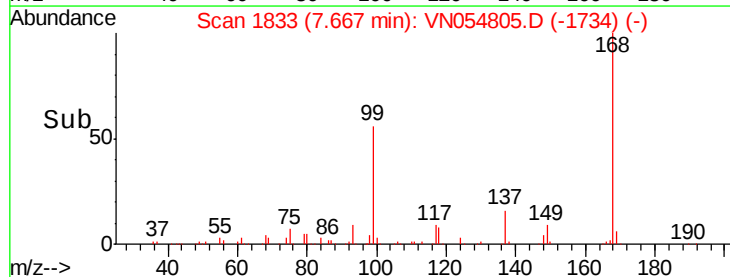
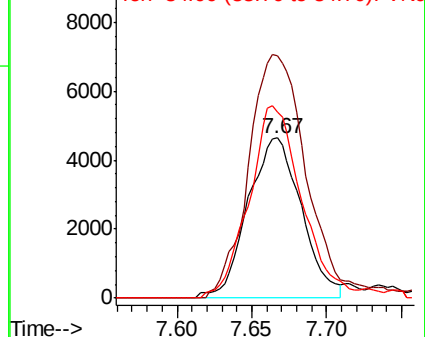


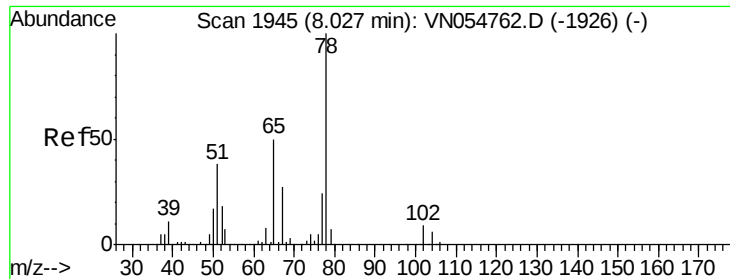
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054805.D
Acq: 30 Mar 2019 16:25

Tgt Ion: 56 Resp: 11561
Ion Ratio Lower Upper
56 100
69 151.3 27.8 41.6#
84 116.7 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

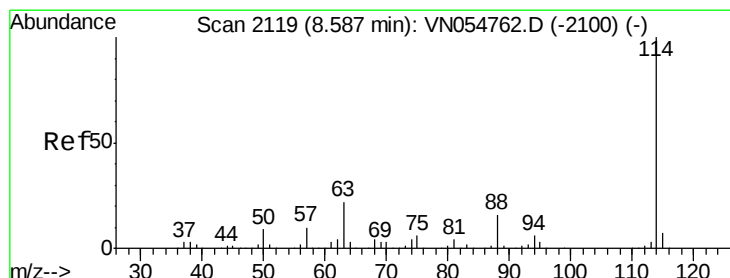
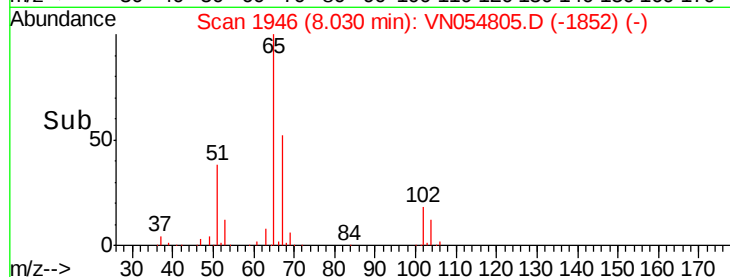
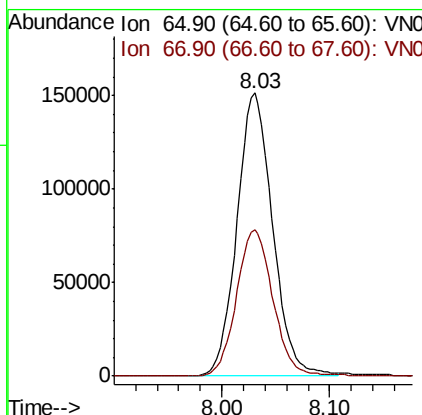
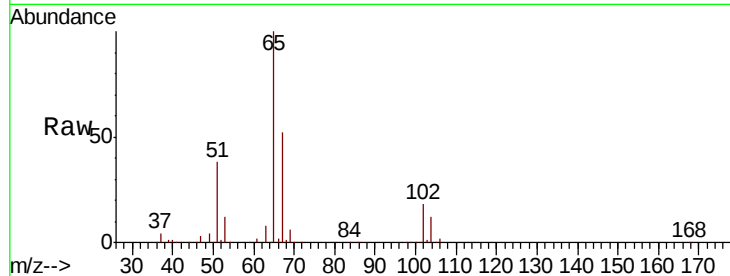




#33
 1,2-Dichloroethane-d4
 Concen: 50.140 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054805.D
 Acq: 30 Mar 2019 16:25

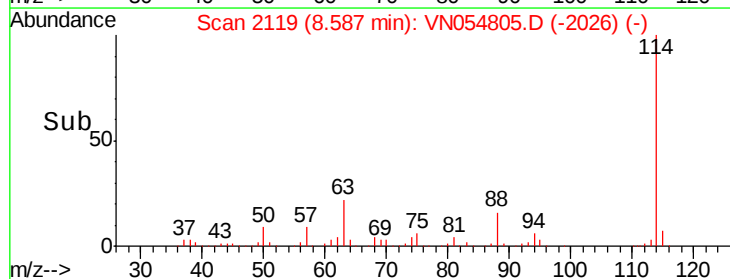
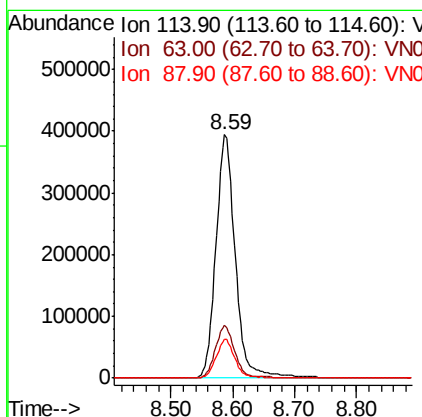
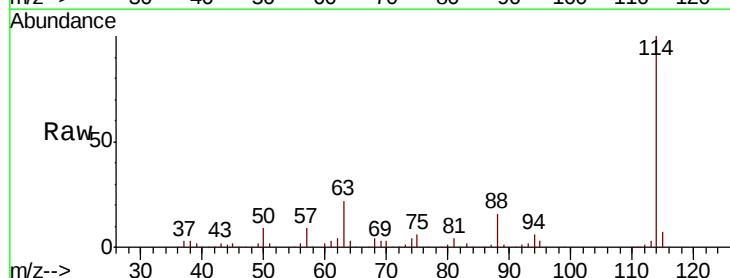
Instrument :
 MSVOA_N
 ClientSampleId :

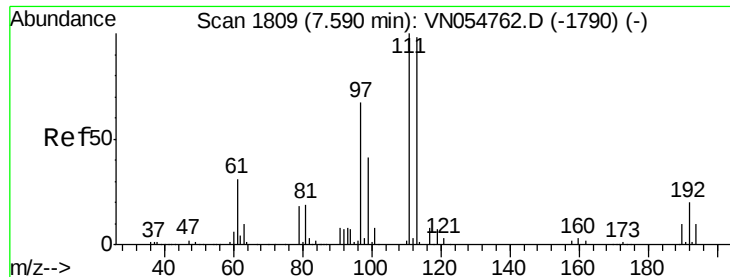
Tot Ion: 65 Resp: 349641
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054805.D
 Acq: 30 Mar 2019 16:25

Tgt Ion: 114 Resp: 862520
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 35.2
 88 15.9 0.0 30.2

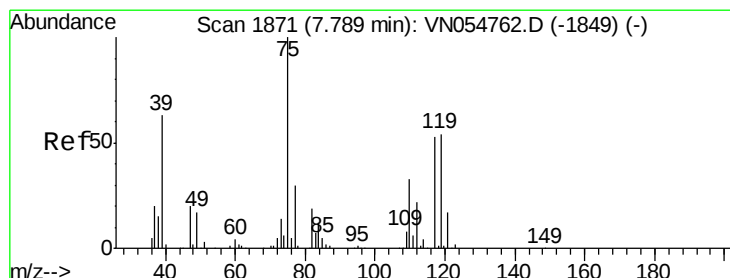
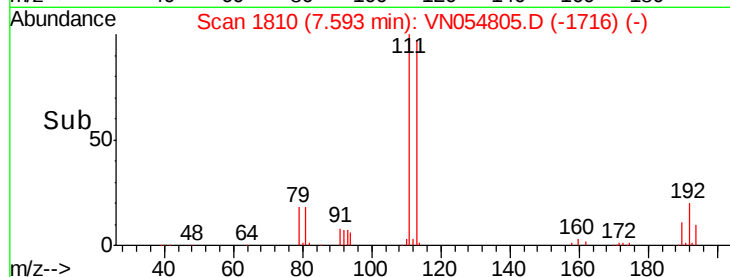
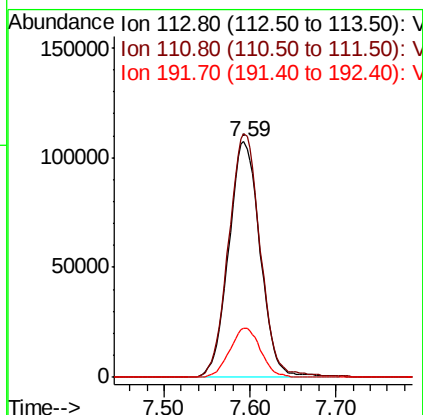
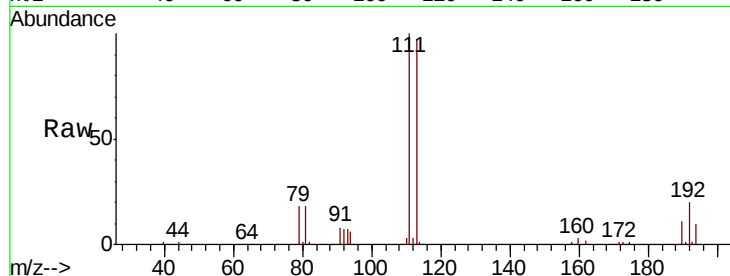




#35
 Dibromofluoromethane
 Concen: 47.477 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054805.D
 Acq: 30 Mar 2019 16:25

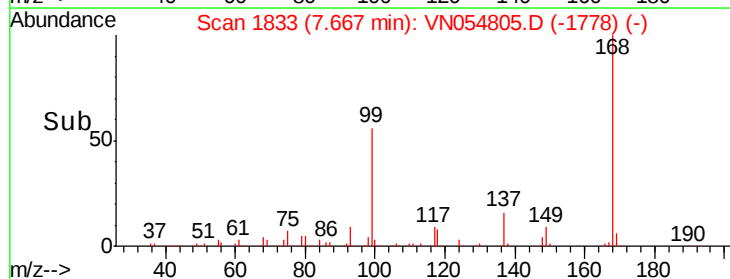
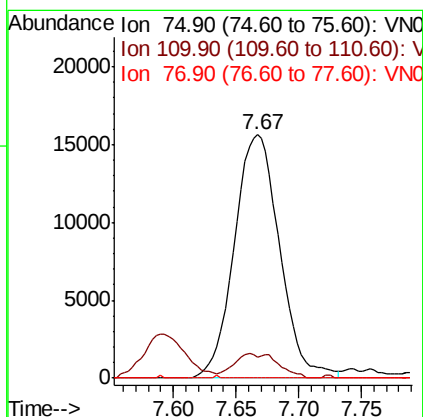
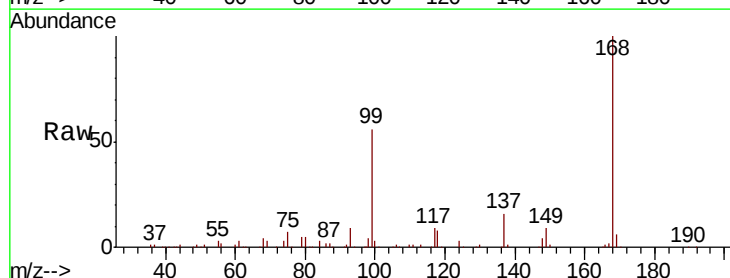
Instrument :
 MSVOA_N
 ClientSampleId :

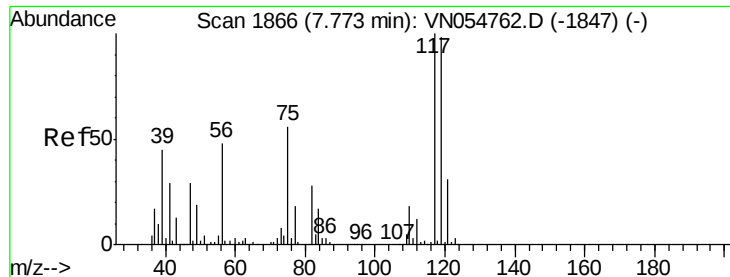
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.2	123.4
192	20.5	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.885 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054805.D
 Acq: 30 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.8	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.128 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

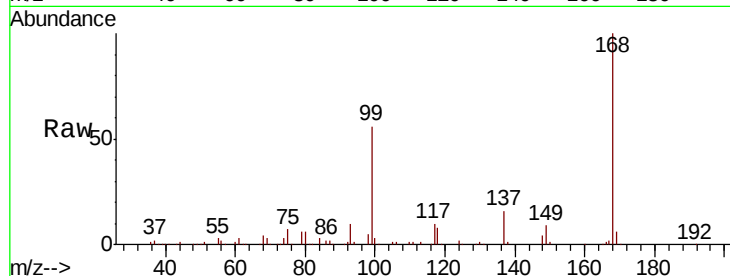
Tot Ion:117 Resp: 47838

Ion Ratio Lower Upper

117 100

119 4.1 76.3 114.5#

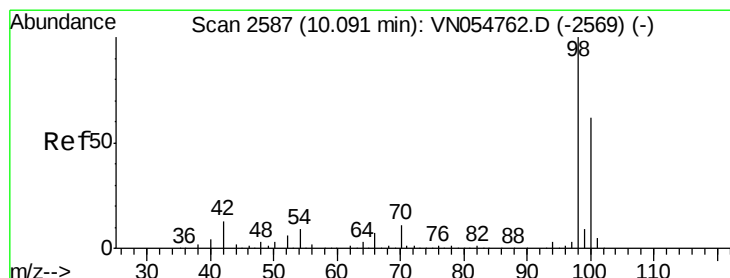
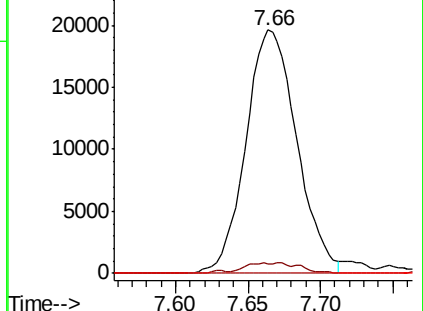
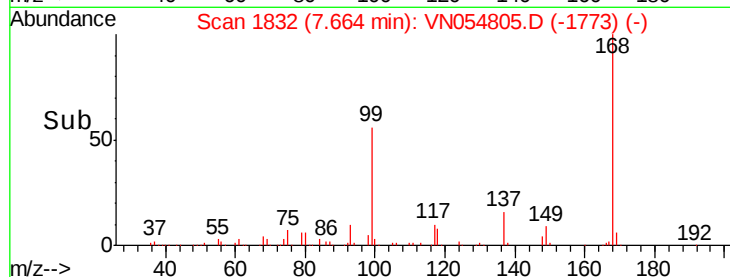
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 47.158 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054805.D

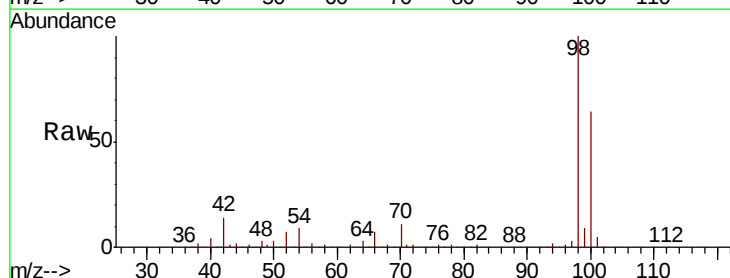
Acq: 30 Mar 2019 16:25

Tgt Ion: 98 Resp: 1008160

Ion Ratio Lower Upper

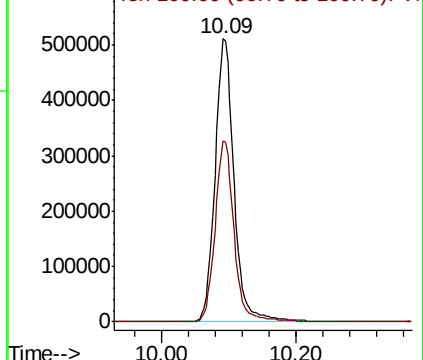
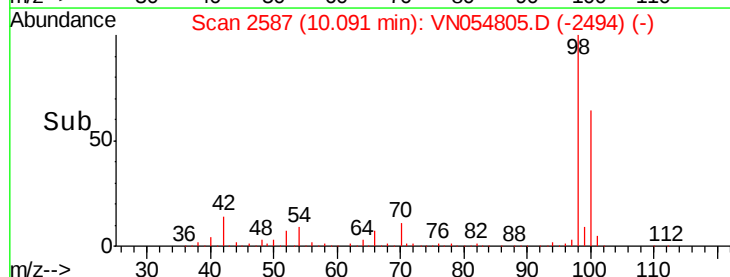
98 100

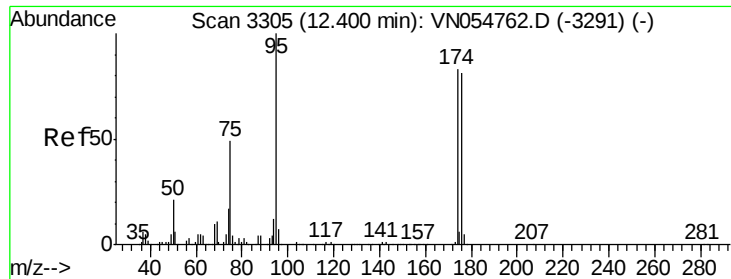
100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 41.696 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampled :

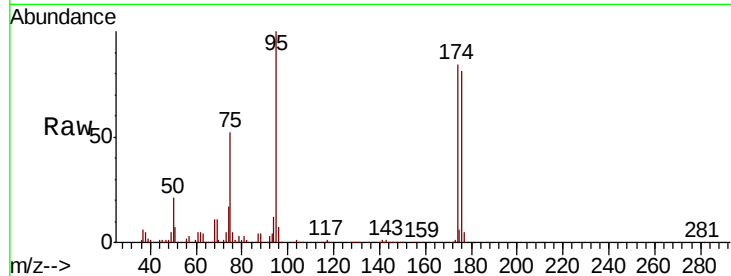
Tot Ion: 95 Resp: 296456

Ion Ratio Lower Upper

95 100

174 83.7 0.0 191.0

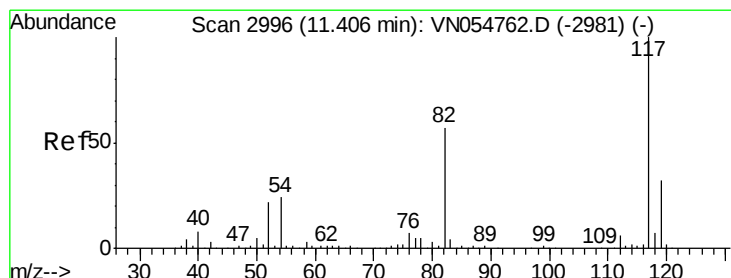
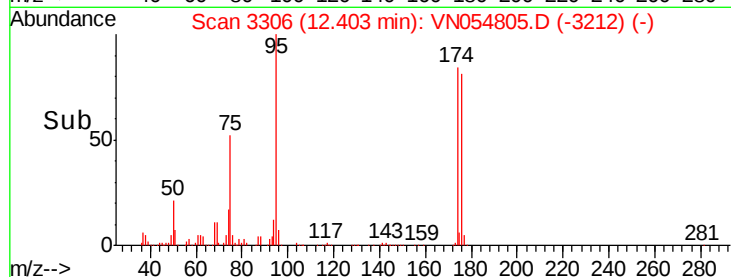
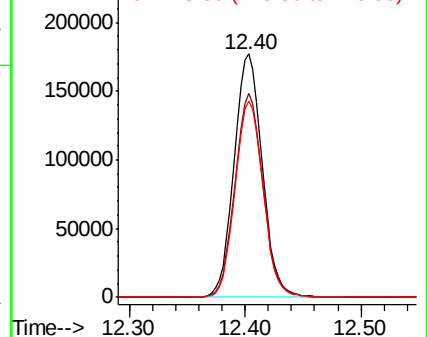
176 80.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054805.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054805.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054805.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

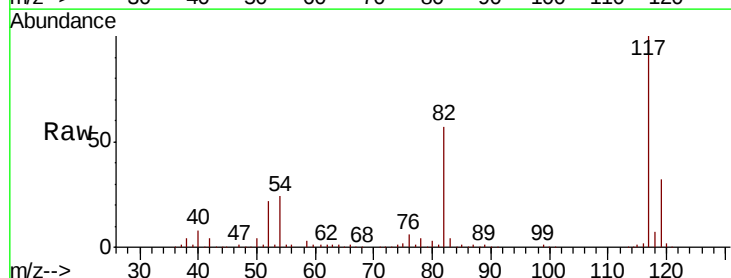
Tgt Ion: 117 Resp: 692457

Ion Ratio Lower Upper

117 100

82 56.8 40.0 60.0

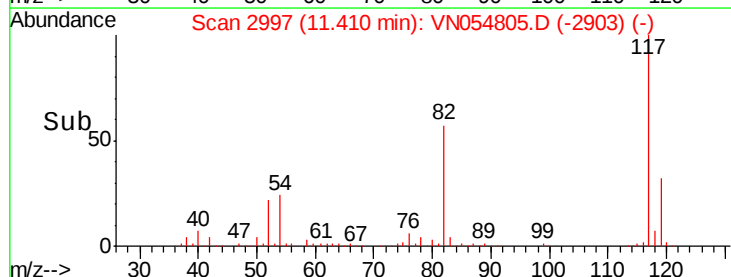
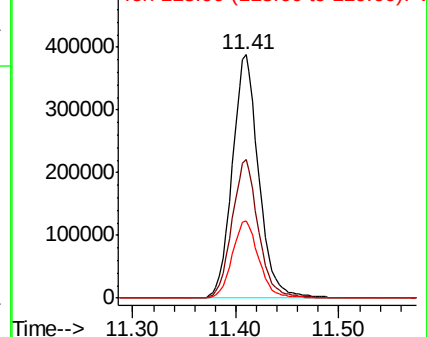
119 31.6 25.8 38.6

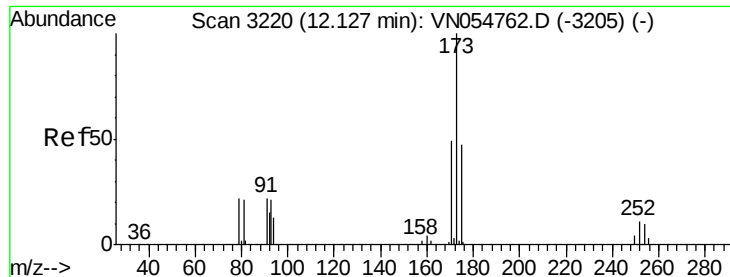


Abundance Ion 116.90 (116.60 to 117.60): VN054805.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054805.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054805.D (-2903) (-)





#71

Bromoform

Concen: 0.656 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampled :

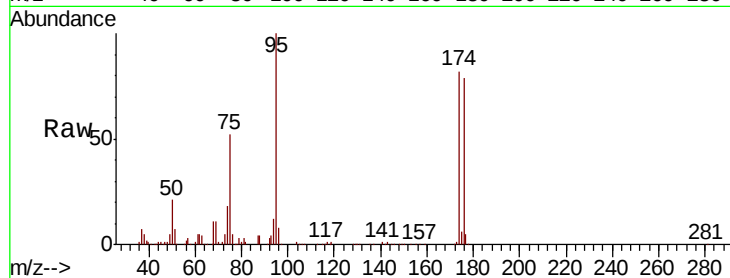
Tot Ion:173 Resp: 1951

Ion Ratio Lower Upper

173 100

175 787.1 24.4 73.2#

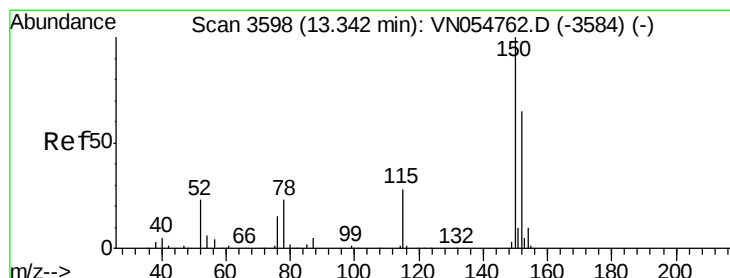
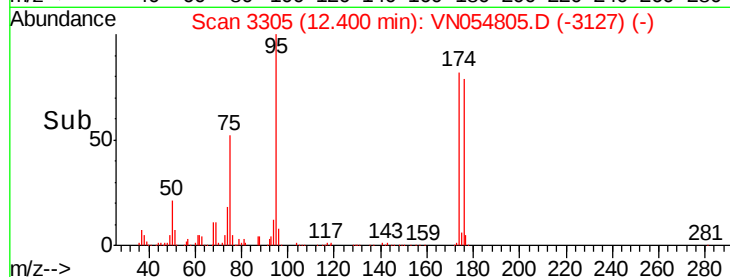
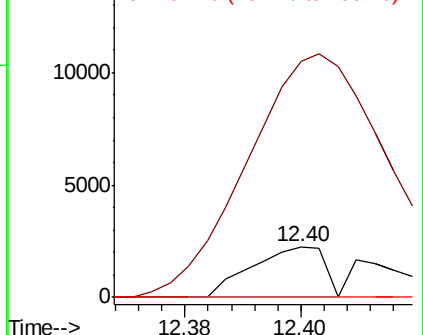
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

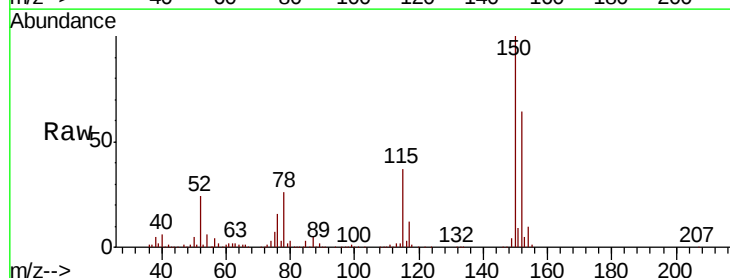
Tgt Ion:152 Resp: 239023

Ion Ratio Lower Upper

152 100

115 58.0 27.2 81.6

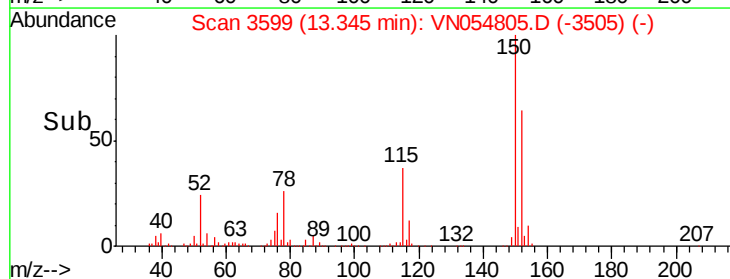
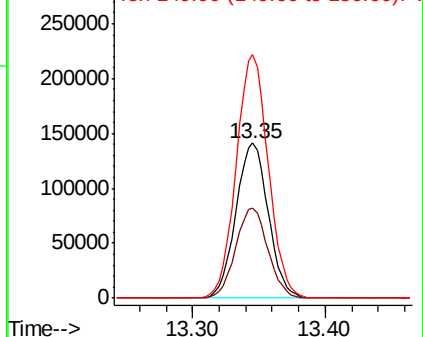
150 155.9 0.0 349.2

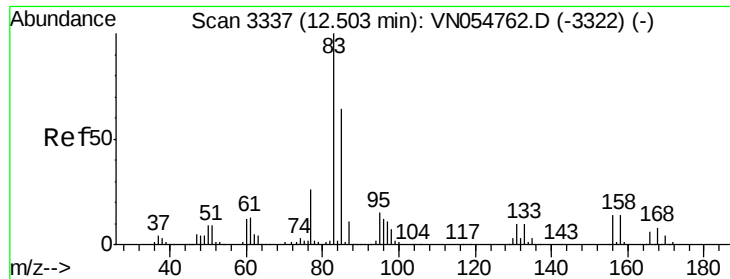


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3302

Delta R.T. -0.11 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

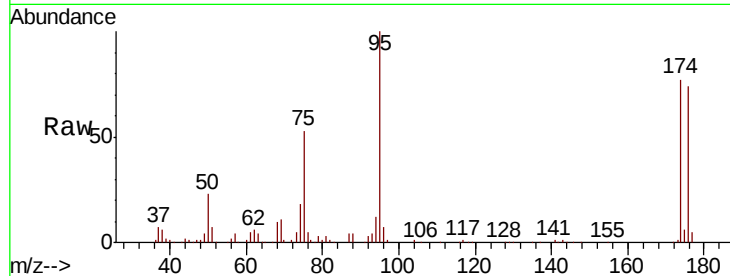
Tot Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 1369.0 5.8 17.4#

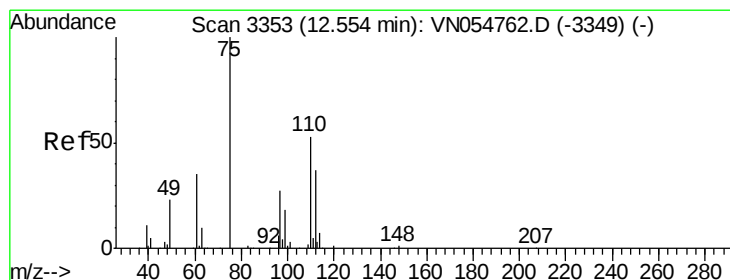
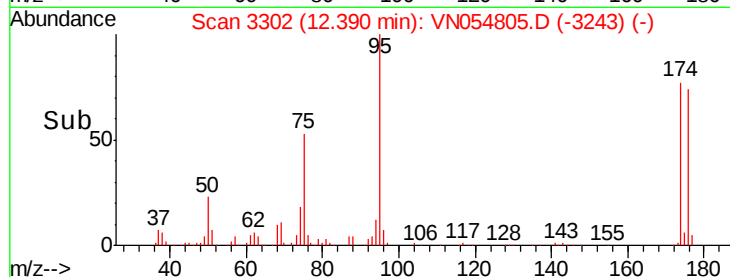
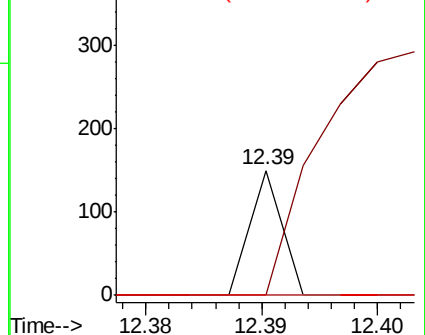
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 37.208 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054805.D

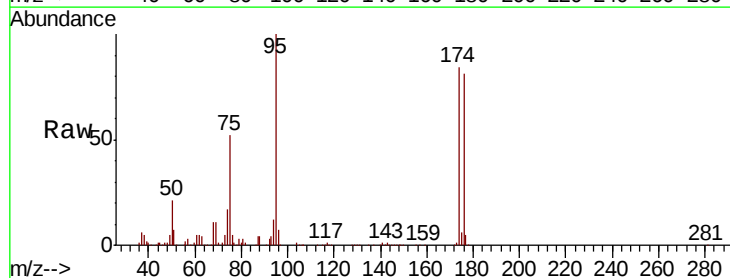
Acq: 30 Mar 2019 16:25

Tgt Ion: 75 Resp: 154502

Ion Ratio Lower Upper

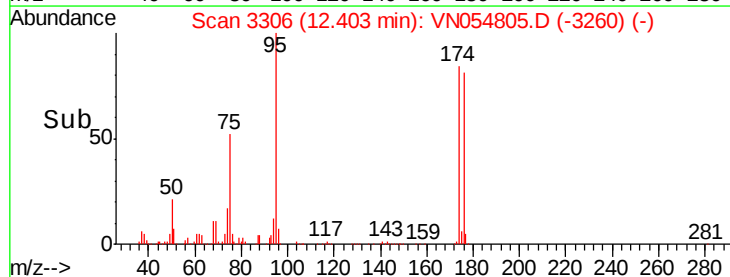
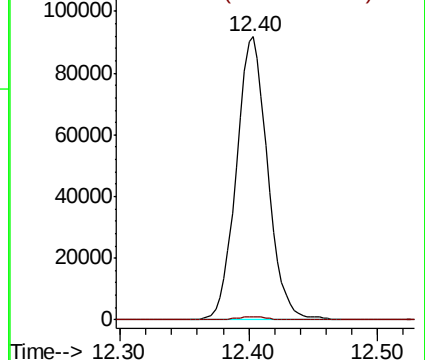
75 100

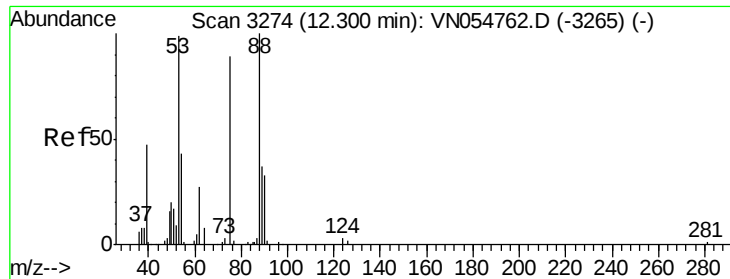
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 144.730 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054805.D

Acq: 30 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 154502

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 39.2 58.8#

