

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
 Data File : VN054778.D
 Acq On : 29 Mar 2019 18:52
 Operator : JC/SP
 Sample : K2163-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 21:46:19 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	540914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	880228	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	753383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	265663	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	358380	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
35) Dibromofluoromethane	7.59	113	281768	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	10.09	98	1061297	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
62) 4-Bromofluorobenzene	12.40	95	328790	45.31	ug/l	0.00
Spiked Amount			Recovery	=	90.62%	

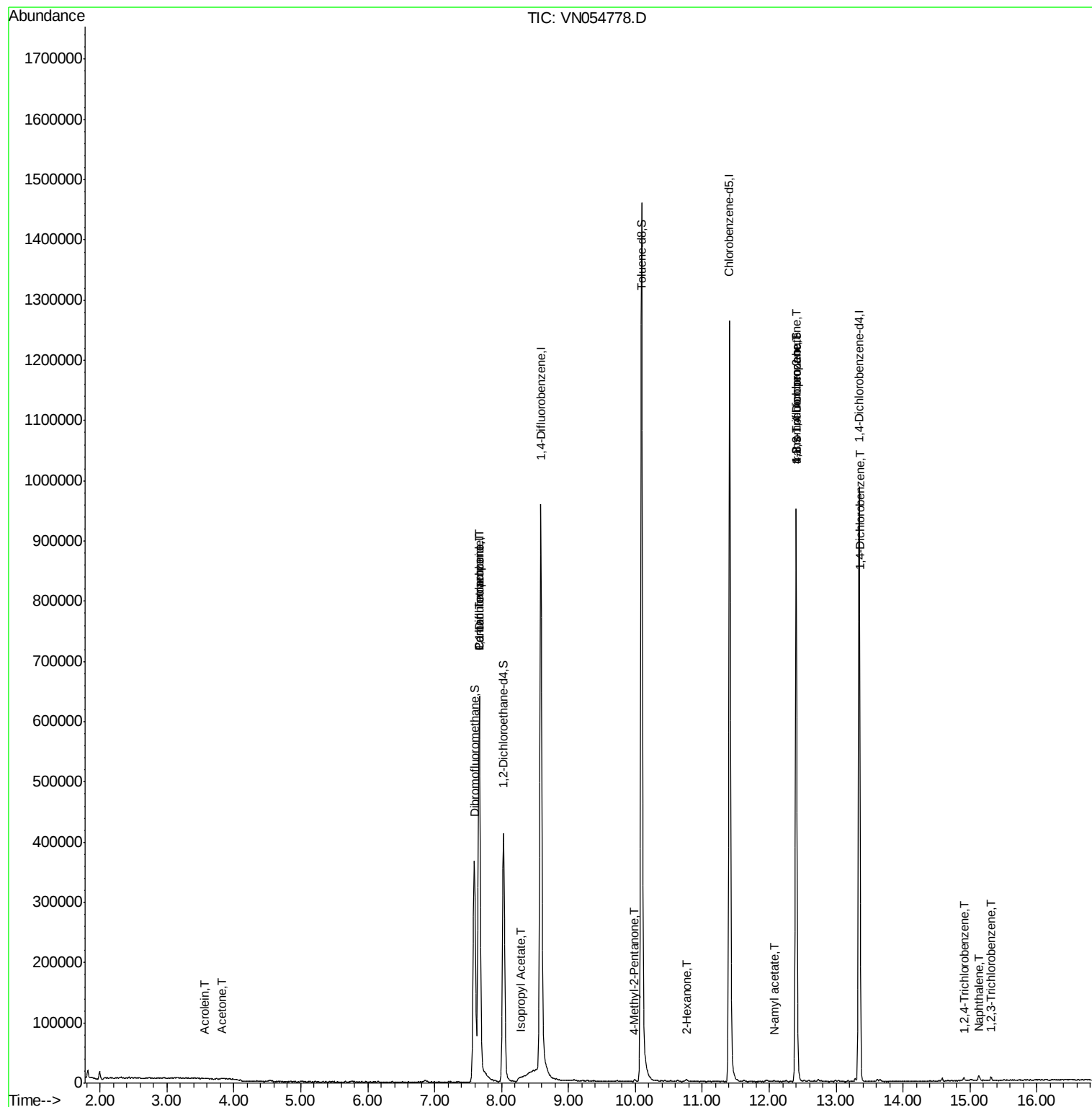
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	342	Below Cal	#	71
13) Acrolein	3.56	56	98	0.289	ug/l #	49
16) Acetone	3.82	43	2592	1.491	ug/l	100
18) Methyl Acetate	4.32	43	522	Below Cal	#	43
31) Cyclohexane	7.66	56	11974	Below Cal	#	19
36) 1,1-Dichloropropene	7.66	75	41236	5.028	ug/l #	47
38) Carbon Tetrachloride	7.66	117	51009	6.403	ug/l #	17
43) Isopropyl Acetate	8.29	43	9512	0.973	ug/l #	60
51) 4-Methyl-2-Pentanone	9.99	43	2379	0.433	ug/l #	62
59) 2-Hexanone	10.76	43	3470	0.987	ug/l	72
74) N-amyl acetate	12.07	43	1541	0.228	ug/l #	82
75) 1,1,2,2-Tetrachloroethane	12.50	83	144	Below Cal	#	40
76) 1,2,3-Trichloropropane	12.40	75	168877	36.592	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	168877	142.332	ug/l #	11
83) tert-Butylbenzene	12.99	119	924	Below Cal		86
88) 1,4-Dichlorobenzene	13.36	146	1723	0.200	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	1912	0.448	ug/l #	85
94) Hexachlorobutadiene	15.01	225	744	Below Cal		79
95) Naphthalene	15.13	128	6421	0.671	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	2253	0.523	ug/l #	86

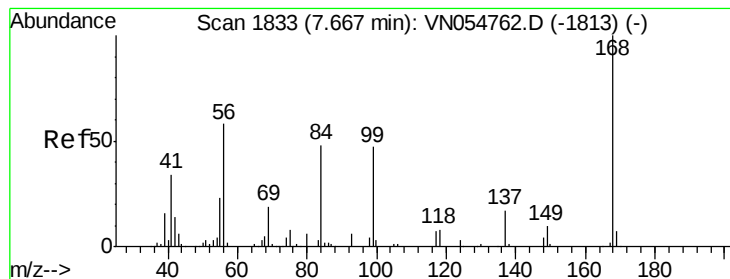
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

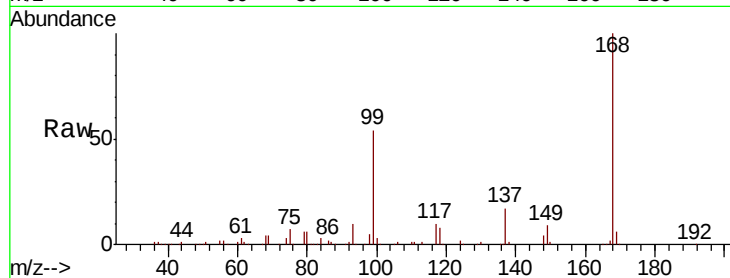
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 540914

Ion Ratio Lower Upper

168 100

99 53.5 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

250000

200000

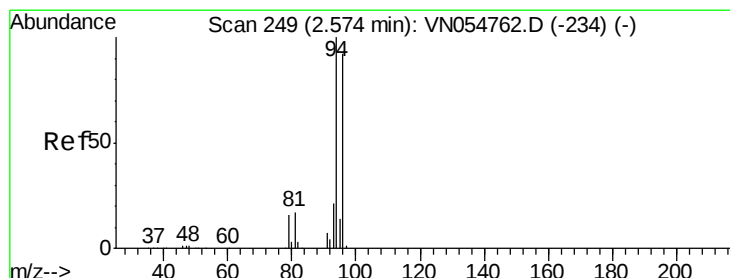
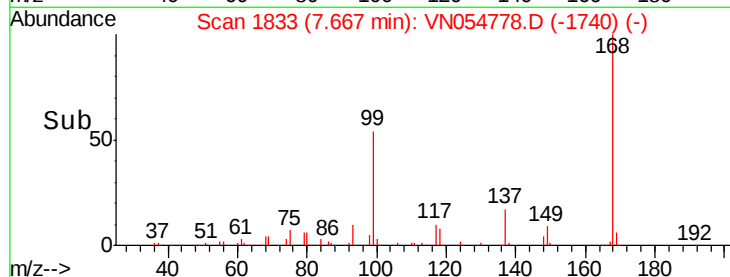
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054778.D

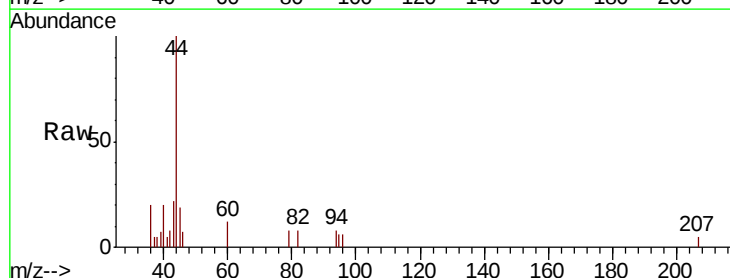
Acq: 29 Mar 2019 18:52

Tgt Ion: 94 Resp: 342

Ion Ratio Lower Upper

94 100

96 68.0 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

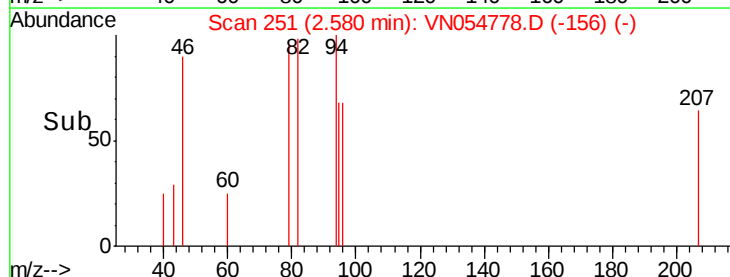
300

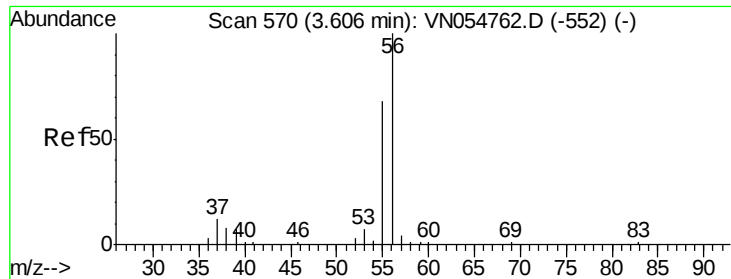
200

100

0

Time-->





#13

Acrolein

Concen: 0.289 ug/l

RT: 3.56 min Scan# 557

Delta R.T. -0.04 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_N

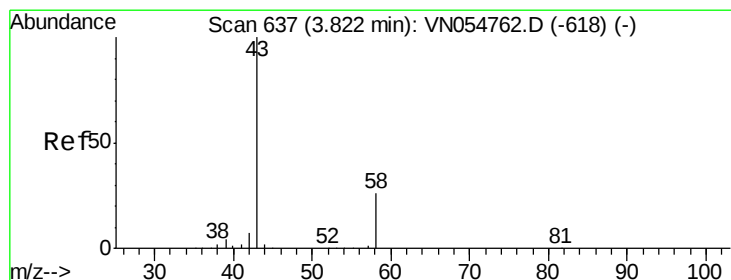
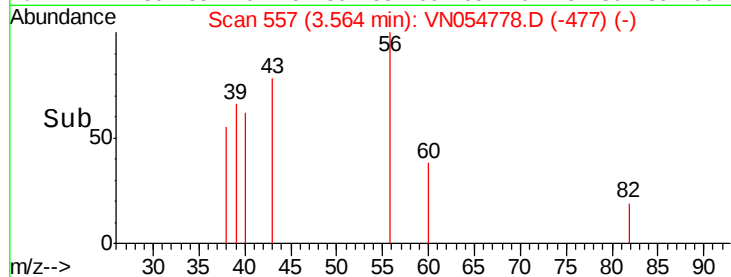
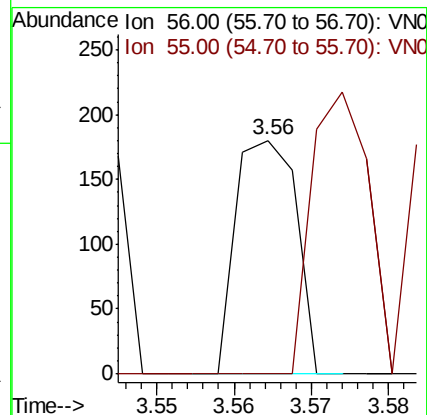
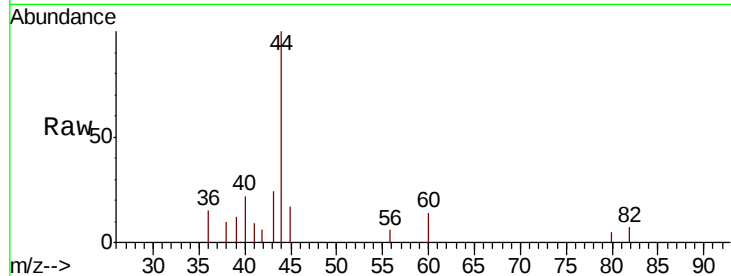
ClientSampleId :

Tot Ion: 56 Resp: 98

Ion Ratio Lower Upper

56 100

55 113.3 56.7 85.1#



#16

Acetone

Concen: 1.491 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054778.D

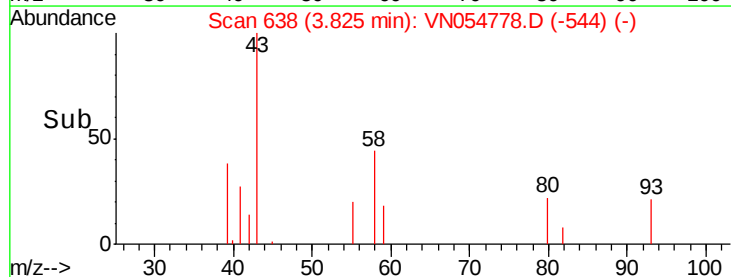
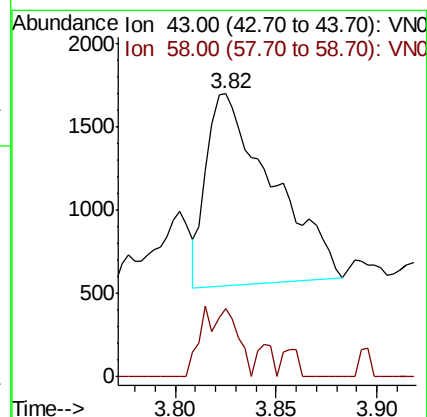
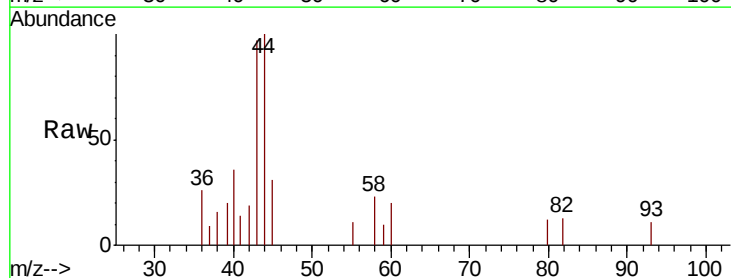
Acq: 29 Mar 2019 18:52

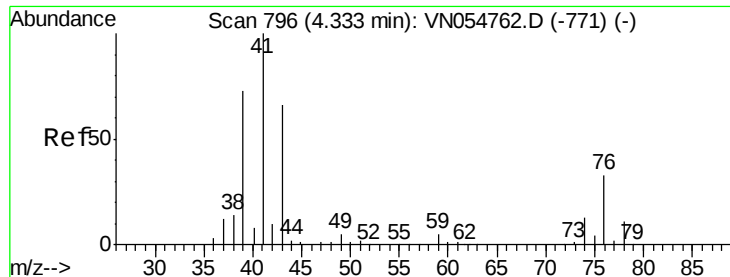
Tgt Ion: 43 Resp: 2592

Ion Ratio Lower Upper

43 100

58 37.2 29.9 44.9

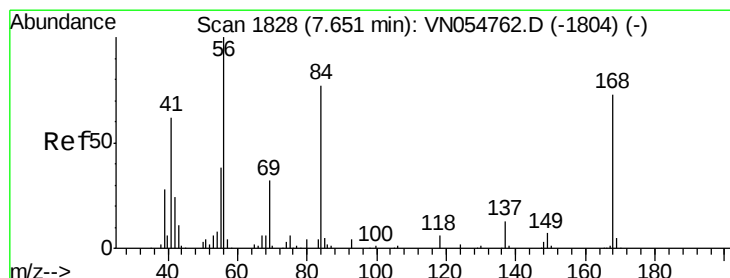
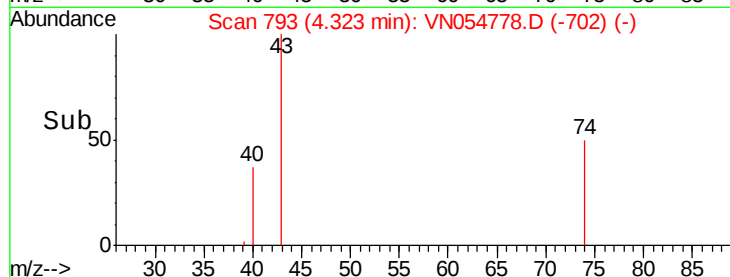
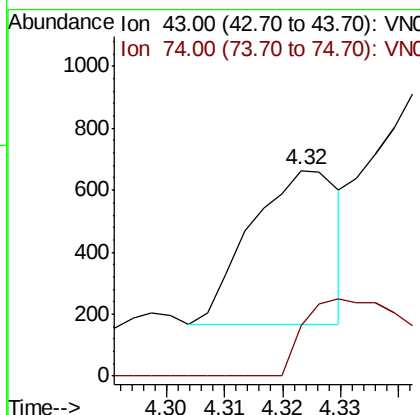
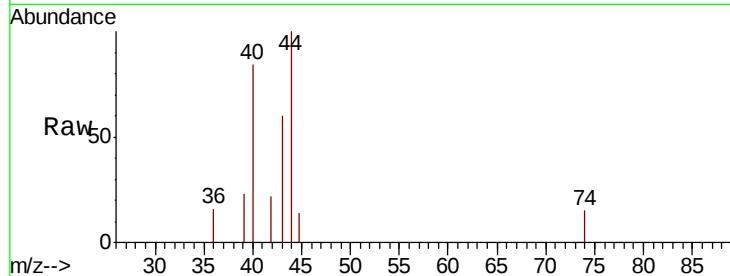




#18
Methvl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

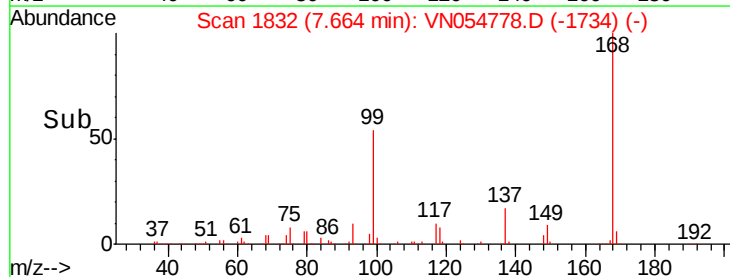
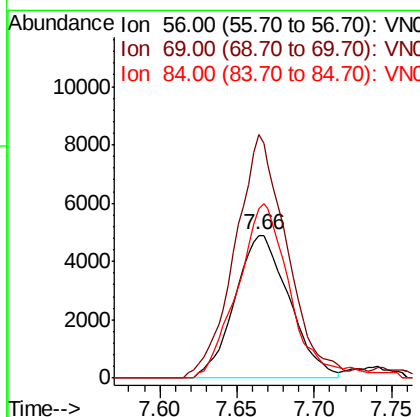
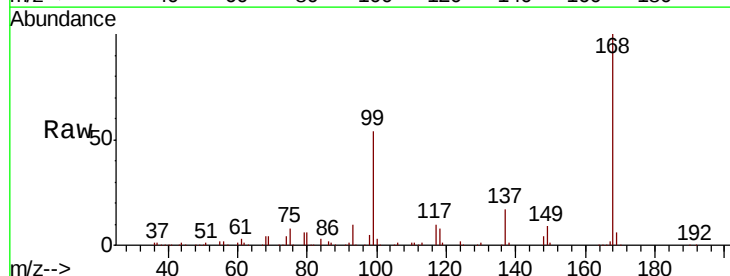
Instrument :
MSVOA_N
ClientSampled :

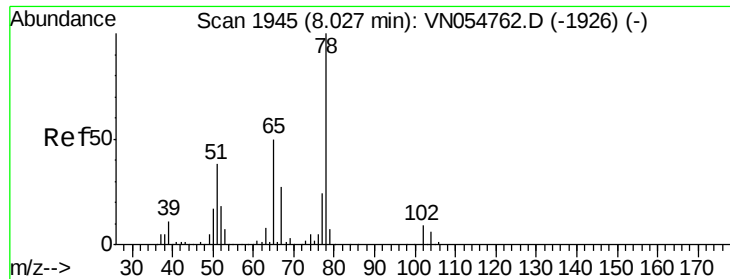
Tot Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
74 55.0 20.8 31.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 56 Resp: 11974
Ion Ratio Lower Upper
56 100
69 166.8 27.8 41.6#
84 118.5 74.6 111.8#

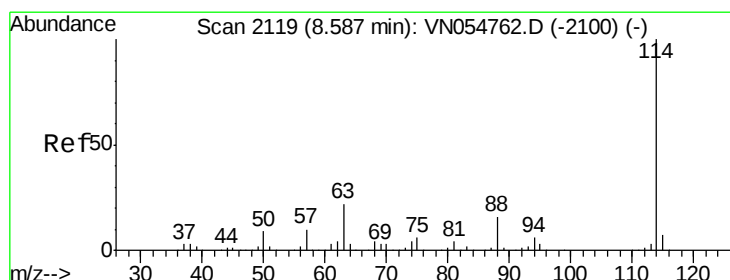
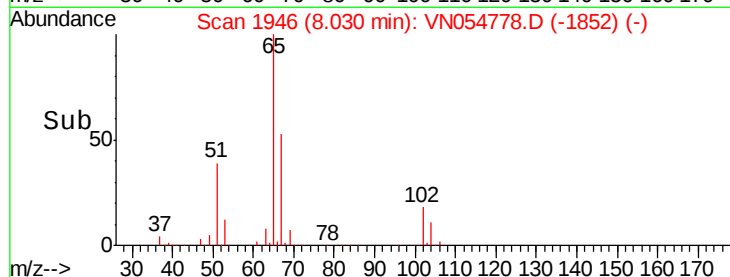
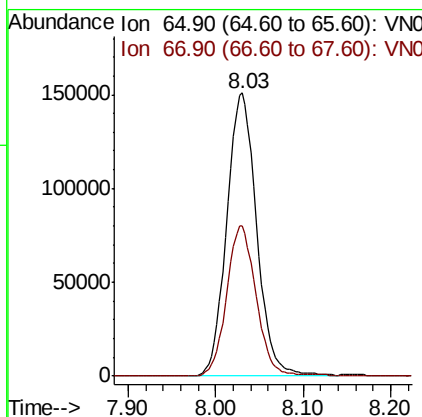
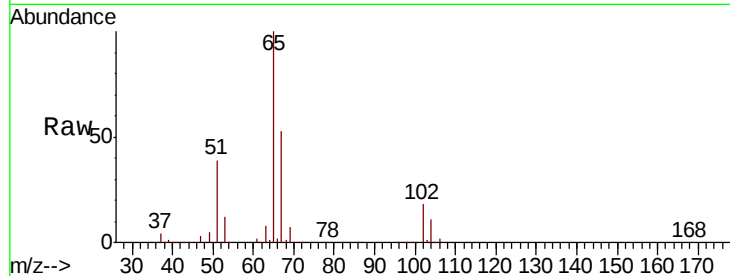




#33
 1,2-Dichloroethane-d4
 Concen: 49.149 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054778.D
 Acq: 29 Mar 2019 18:52

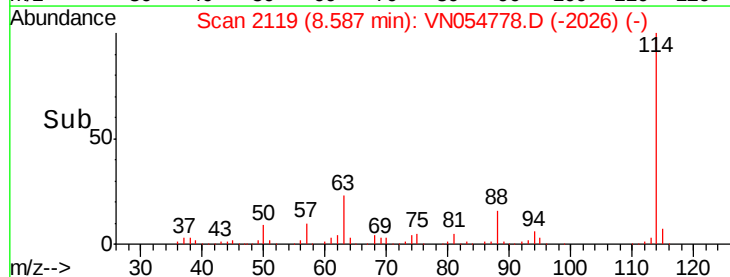
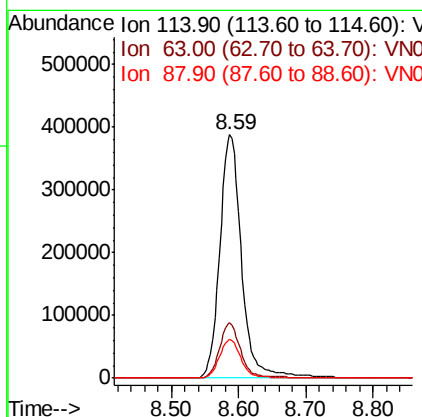
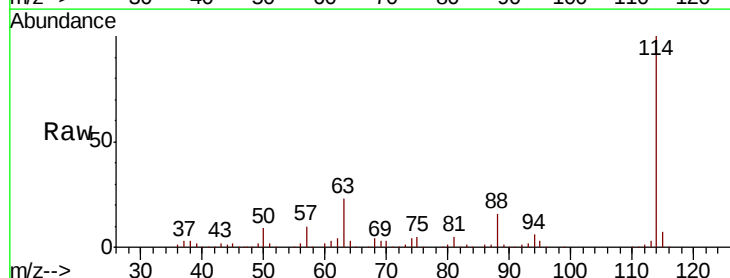
Instrument :
 MSVOA_N
 ClientSampleId :

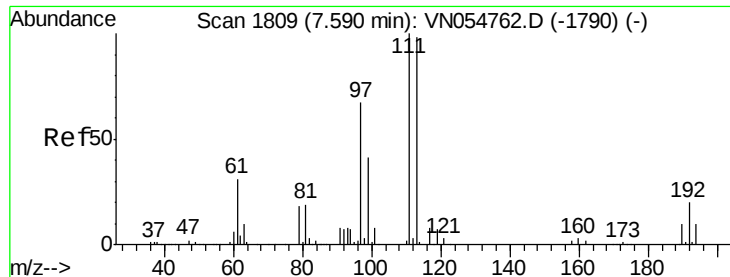
Tot Ion: 65 Resp: 358380
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054778.D
 Acq: 29 Mar 2019 18:52

Tgt Ion: 114 Resp: 880228
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.014 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

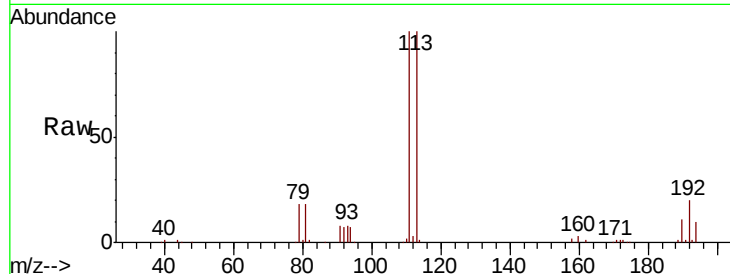
Tot Ion:113 Resp: 281768

Ion Ratio Lower Upper

113 100

111 101.4 82.2 123.4

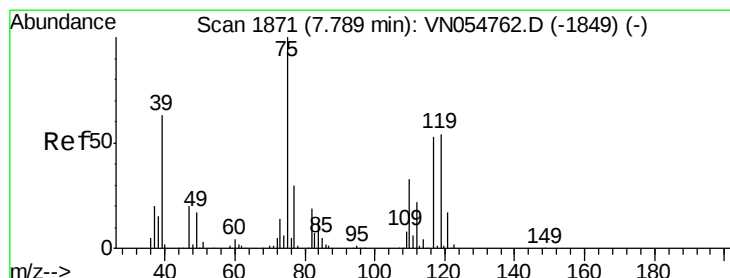
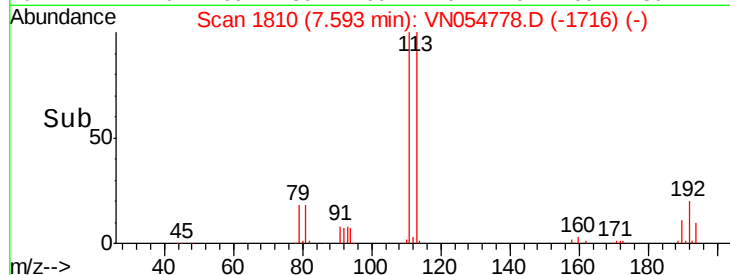
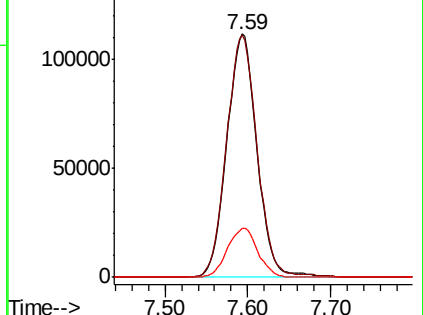
192 20.6 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.028 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

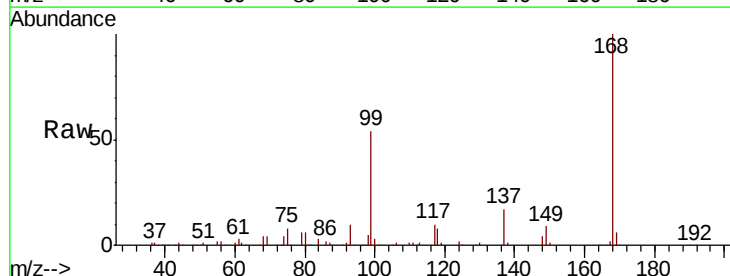
Tgt Ion: 75 Resp: 41236

Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.5#

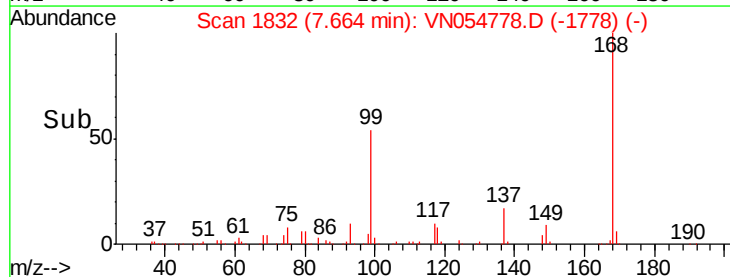
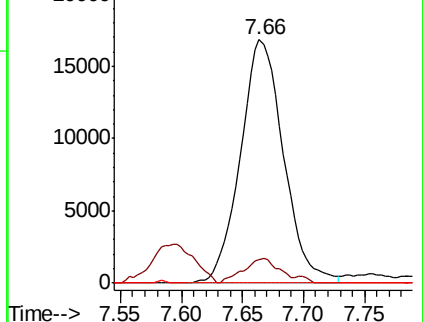
77 0.0 25.0 37.4#

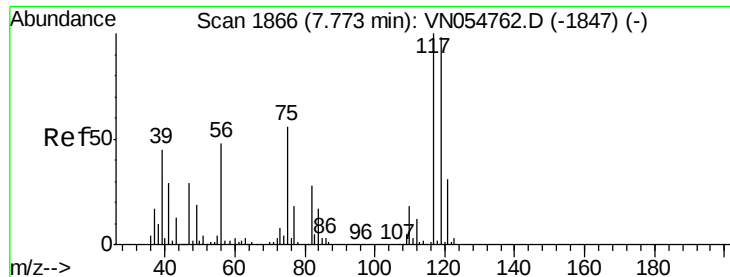


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.403 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

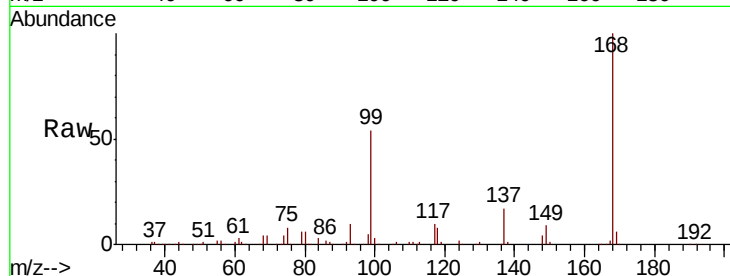
Tot Ion:117 Resp: 51009

Ion Ratio Lower Upper

117 100

119 5.5 76.3 114.5#

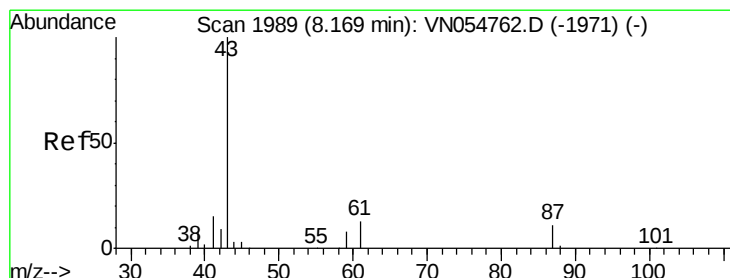
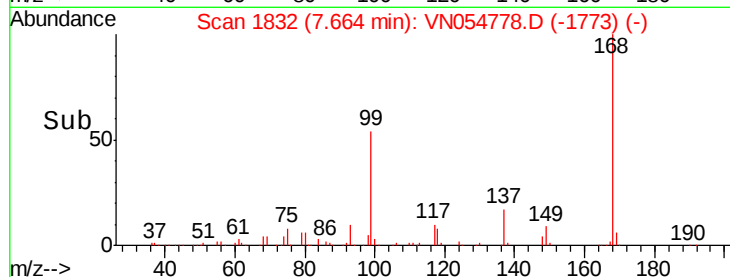
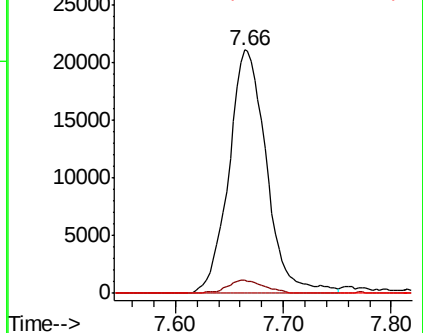
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 0.973 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

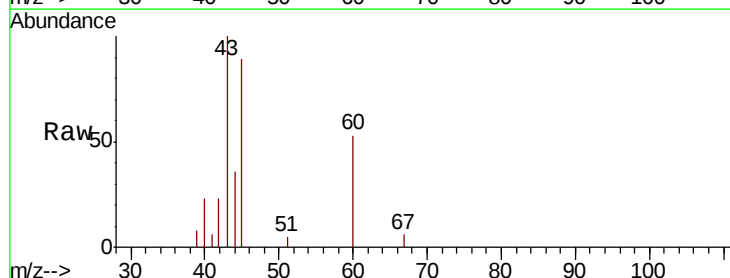
Tgt Ion: 43 Resp: 9512

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

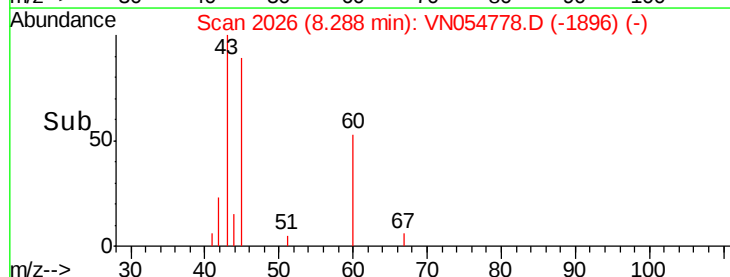
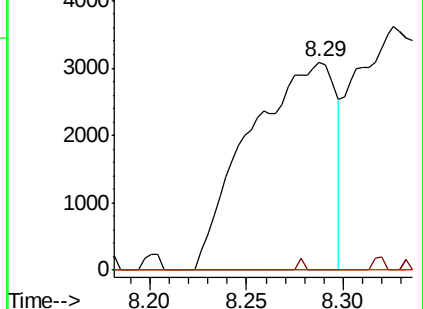
87 0.0 12.0 18.0#

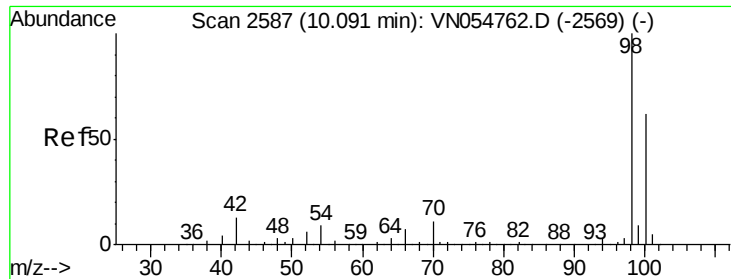


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 48.644 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_N

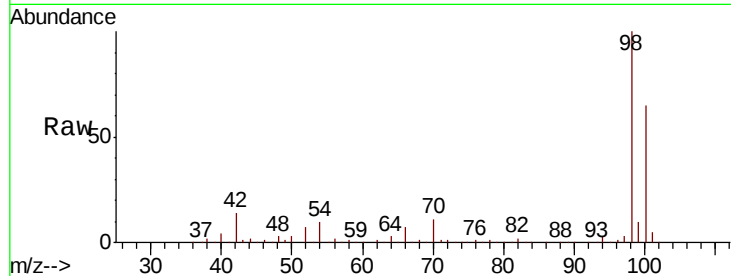
ClientSampled :

Tot Ion: 98 Resp: 1061297

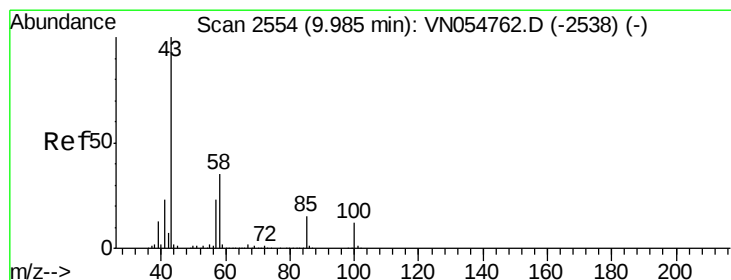
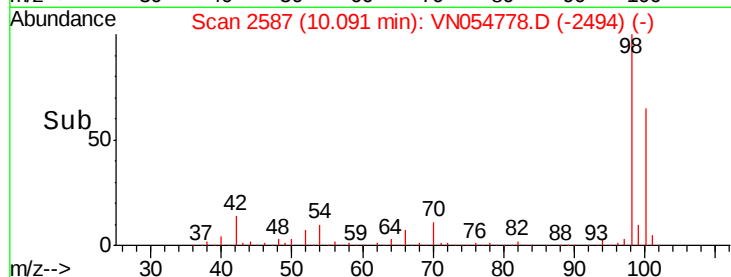
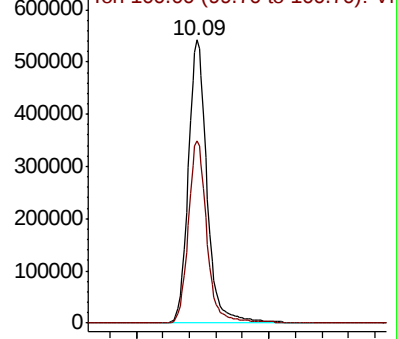
Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.433 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054778.D

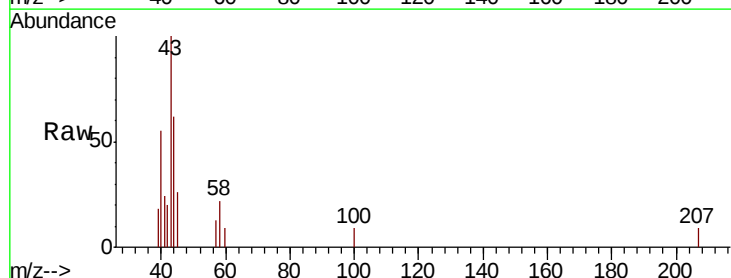
Acq: 29 Mar 2019 18:52

Tgt Ion: 43 Resp: 2379

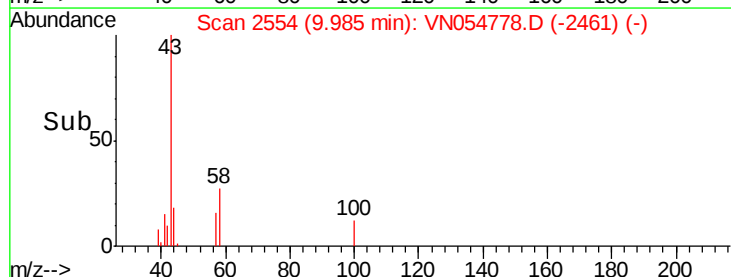
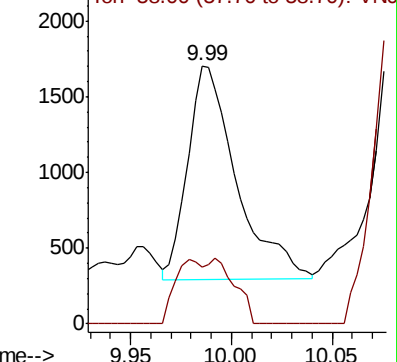
Ion Ratio Lower Upper

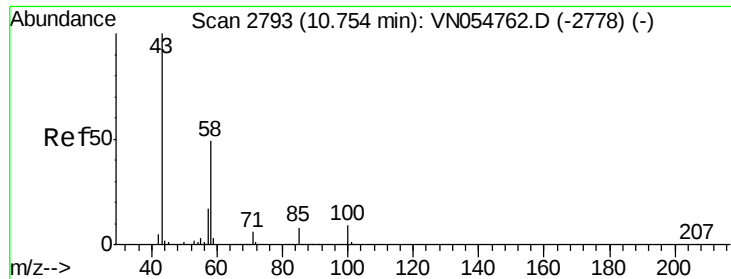
43 100

58 16.6 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

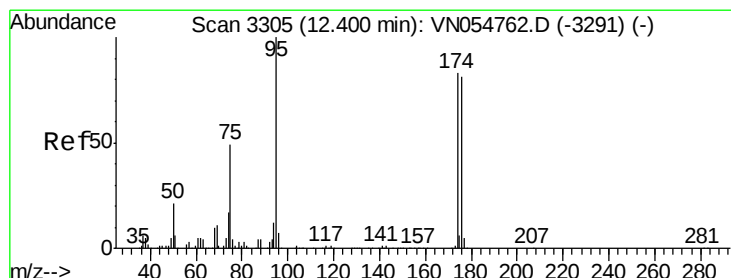
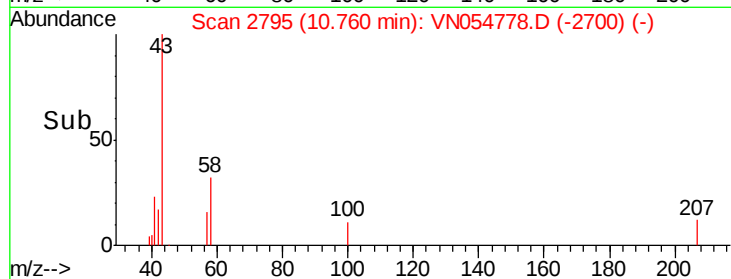
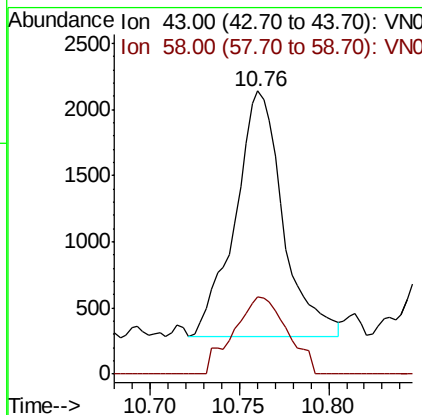
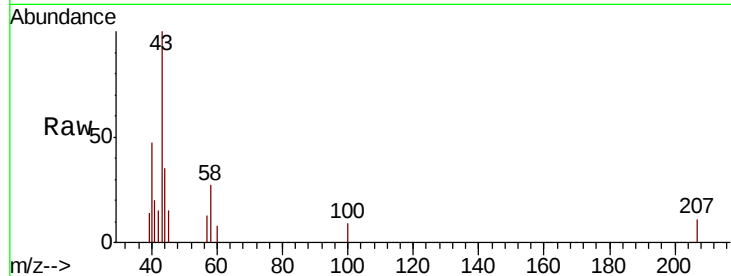




#59
2-Hexanone
Concen: 0.987 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

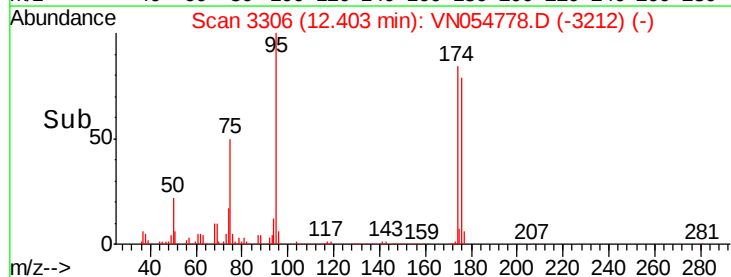
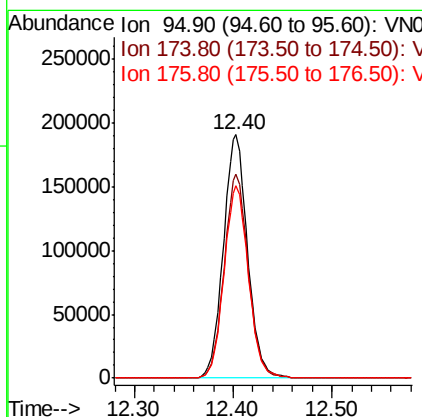
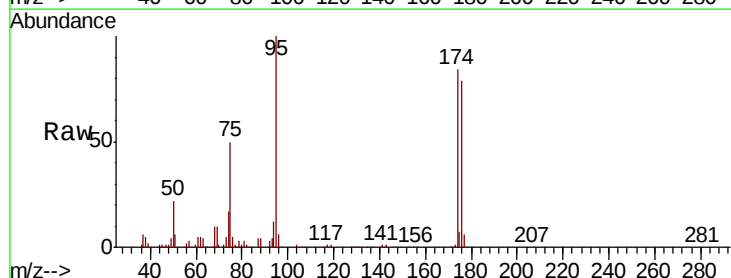
Instrument :
MSVOA_N
ClientSampled :

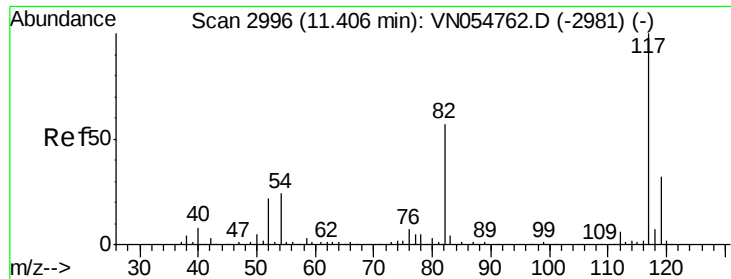
Tot Ion: 43 Resp: 3470
Ion Ratio Lower Upper
43 100
58 35.2 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 45.313 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 95 Resp: 328790
Ion Ratio Lower Upper
95 100
174 83.6 0.0 191.0
176 79.6 0.0 187.4

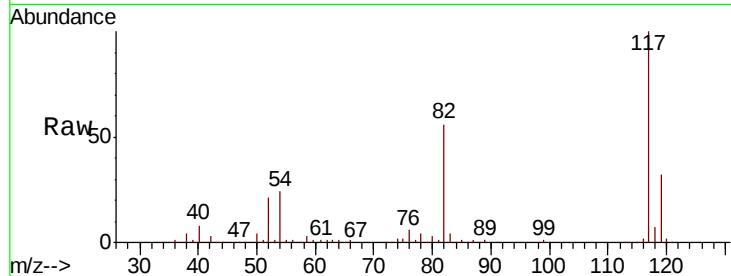




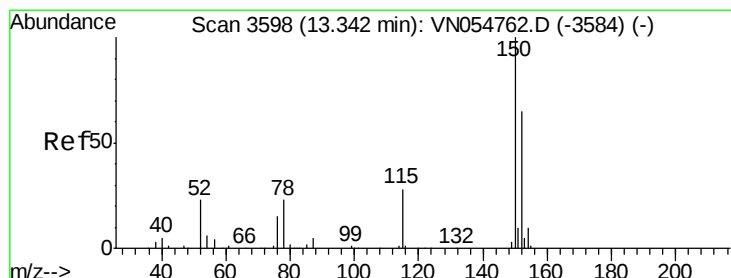
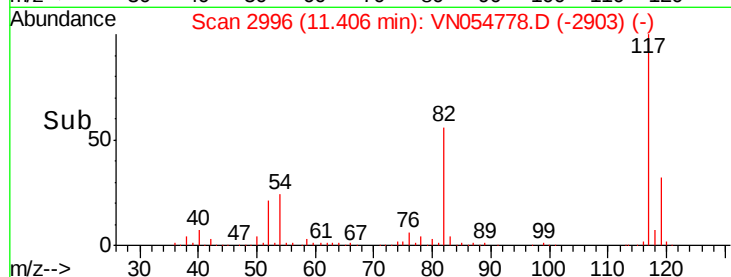
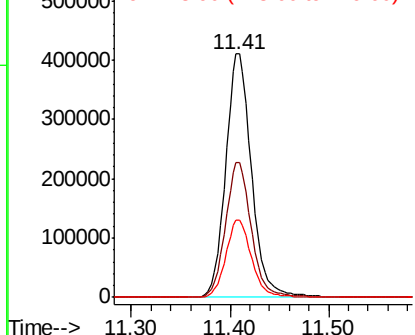
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 753383
Ion Ratio Lower Upper
117 100
82 55.6 40.0 60.0
119 31.9 25.8 38.6

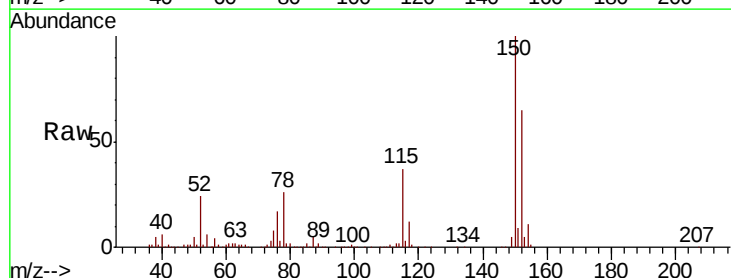


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

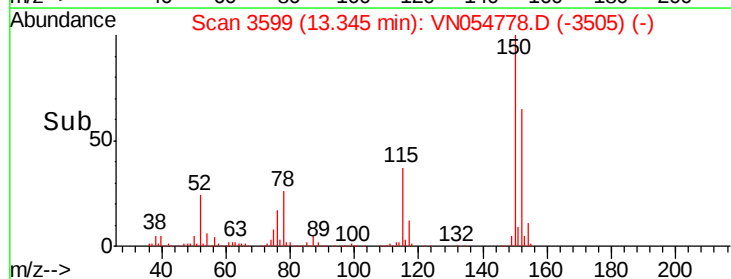
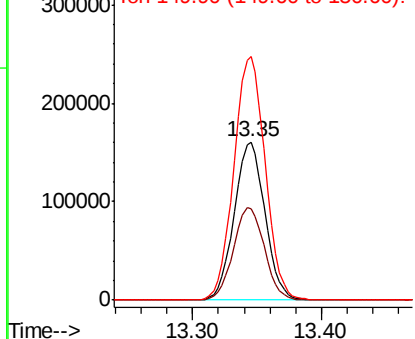


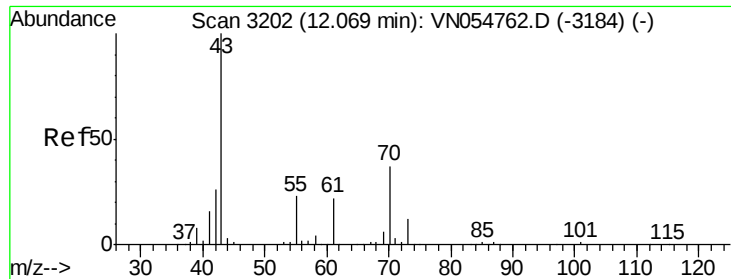
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

Tgt Ion:152 Resp: 265663
Ion Ratio Lower Upper
152 100
115 59.2 27.2 81.6
150 157.2 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





#74

N-amvl acetate

Concen: 0.228 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054778.D

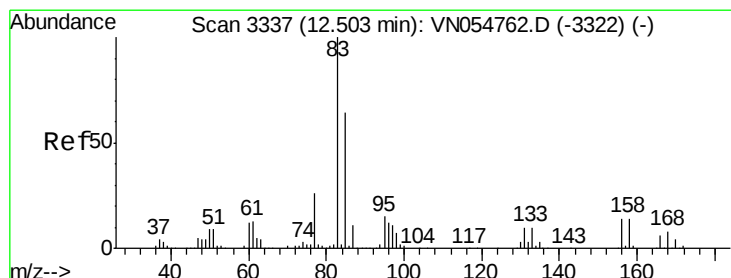
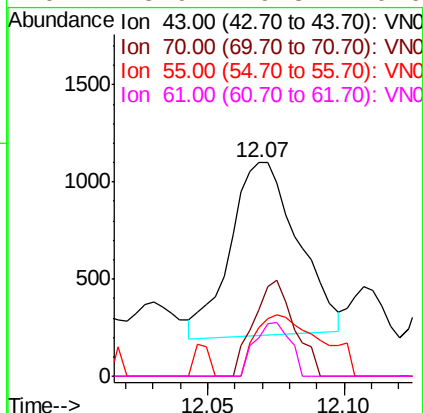
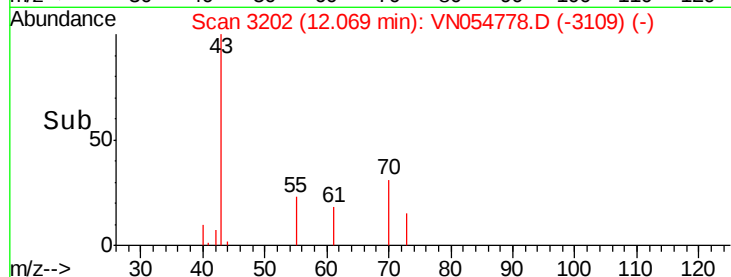
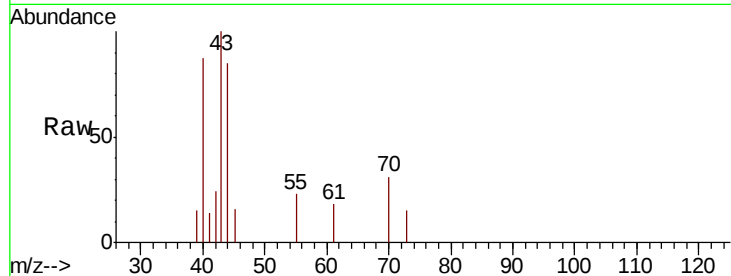
Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	1541
Ion	Ratio	Lower	Upper
43	100		
70	33.0	35.4	53.0#
55	34.1	19.8	29.6#
61	15.9	19.8	29.6#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

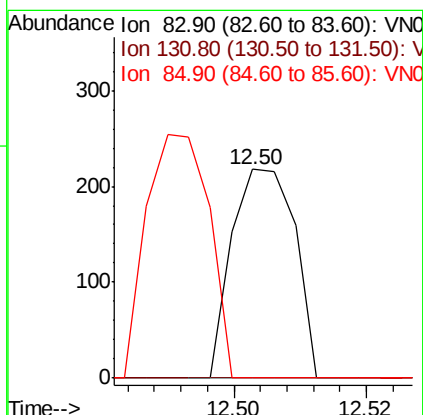
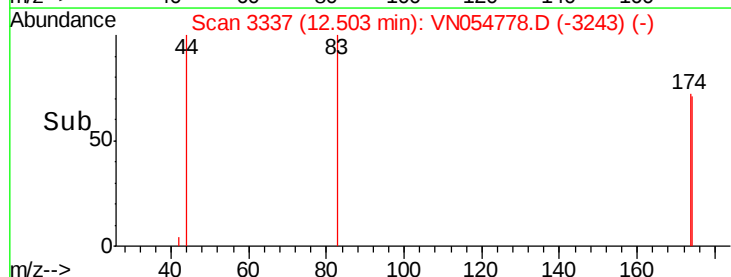
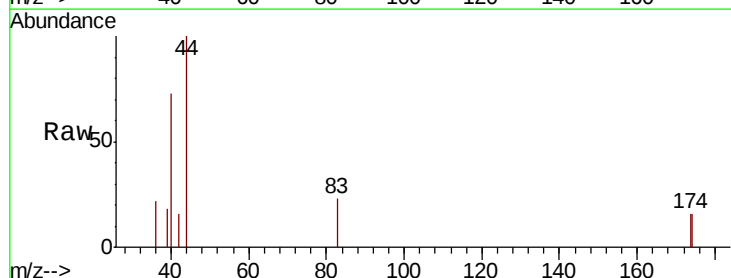
RT: 12.50 min Scan# 3337

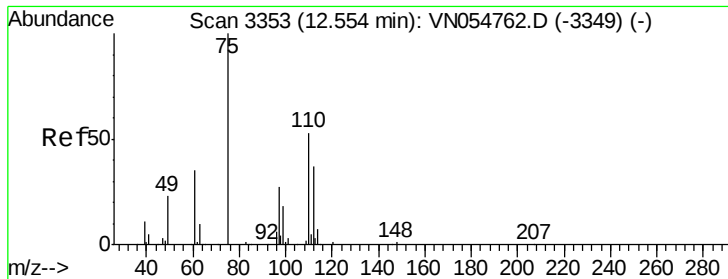
Delta R.T. 0.00 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

Tgt Ion:	83	Resp:	144
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.8	17.4#
85	116.0	32.2	96.6#

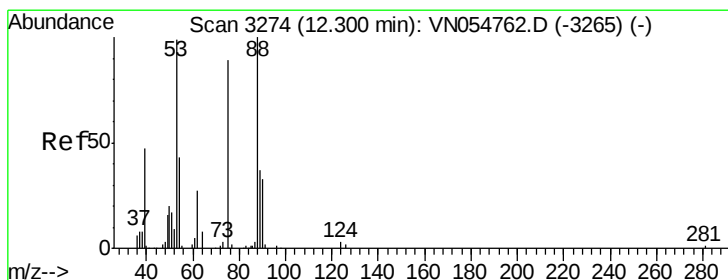
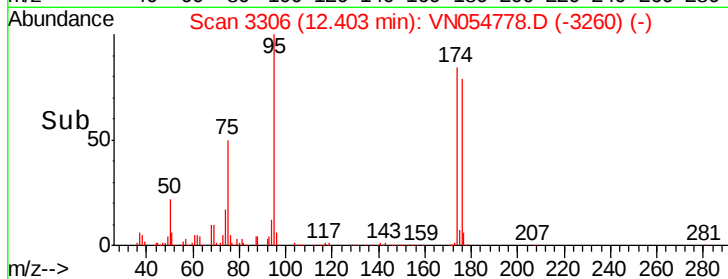
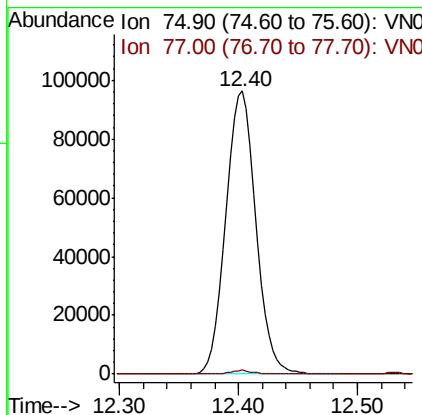
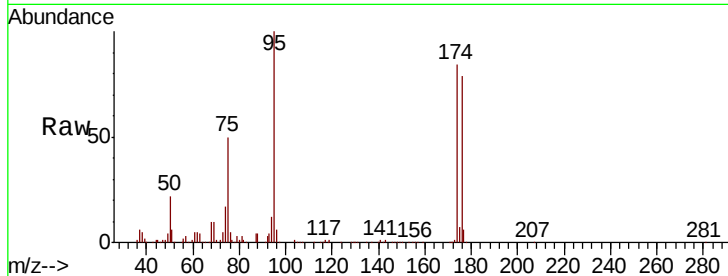




#76
 1,2,3-Trichloropropane
 Concen: 36.592 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN054778.D
 Acq: 29 Mar 2019 18:52

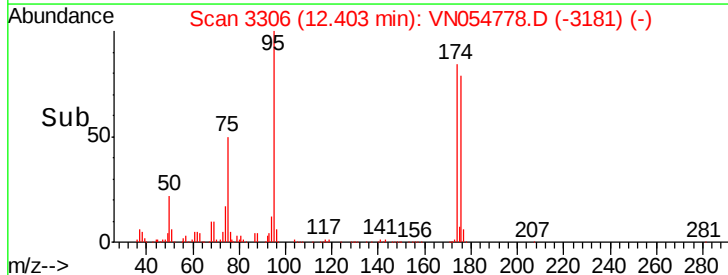
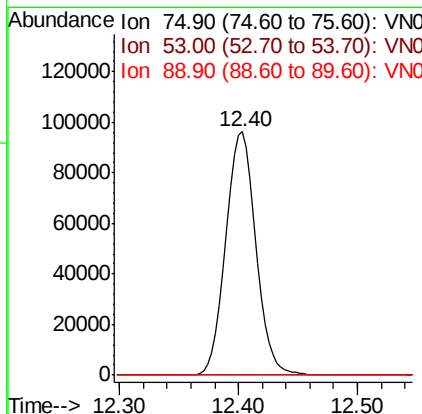
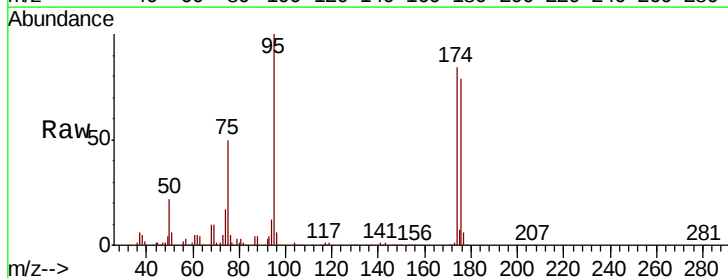
Instrument :
 MSVOA_N
 ClientSampled :

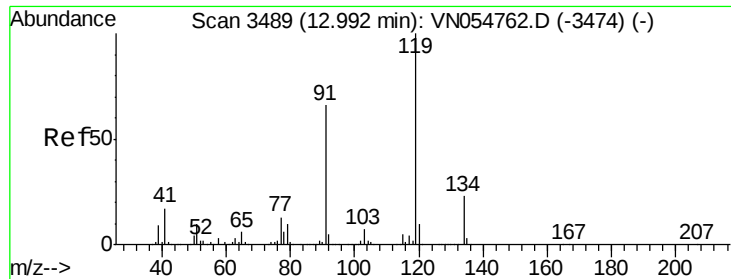
Tot Ion: 75 Resp: 168877
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 142.332 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN054778.D
 Acq: 29 Mar 2019 18:52

Tgt Ion: 75 Resp: 168877
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#

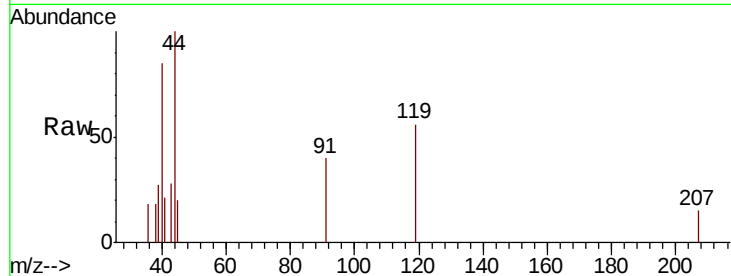




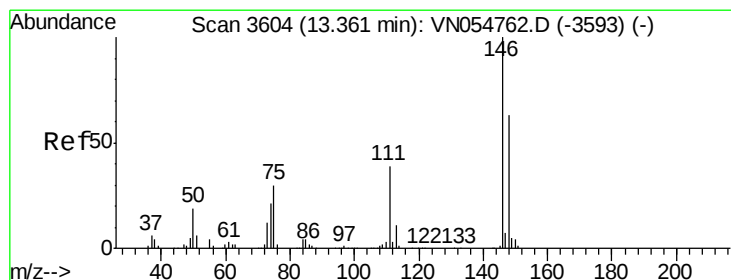
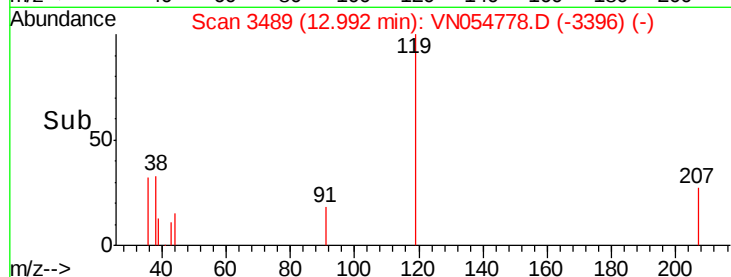
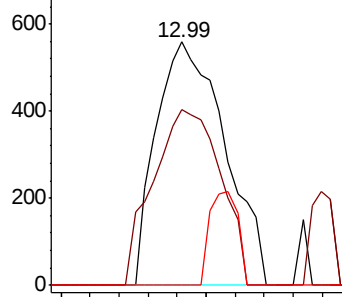
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:119 Resp: 924
Ion Ratio Lower Upper
119 100
91 70.8 30.9 92.8
134 15.9 13.2 39.6

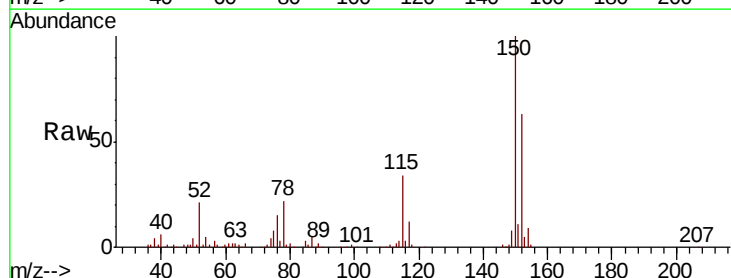


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

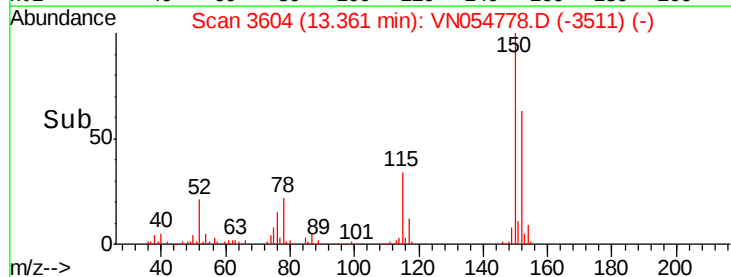
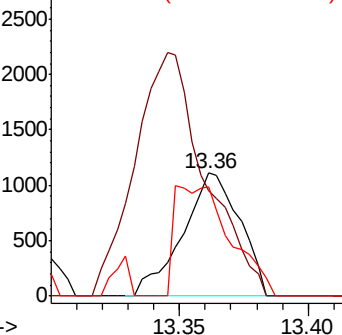


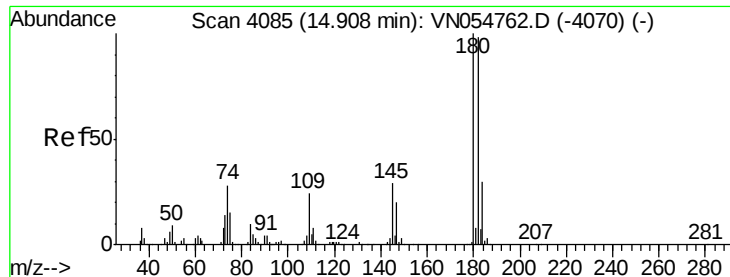
#88
1,4-Dichlorobenzene
Concen: 0.200 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. -0.00 min
Lab File: VN054778.D
Acq: 29 Mar 2019 18:52

Tgt Ion:146 Resp: 1723
Ion Ratio Lower Upper
146 100
111 241.6 18.1 54.1#
148 87.9 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

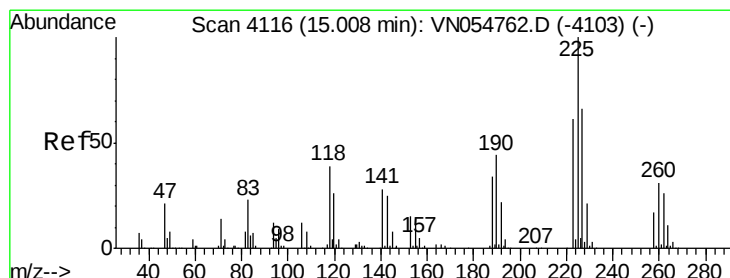
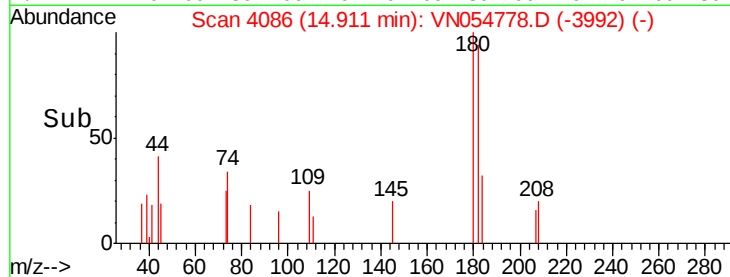
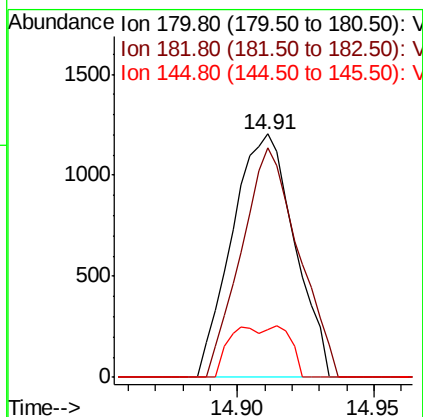
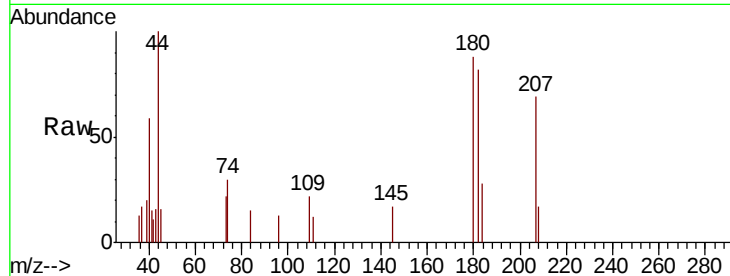




#93
 1,2,4-Trichlorobenzene
 Concen: 0.448 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054778.D
 Acq: 29 Mar 2019 18:52

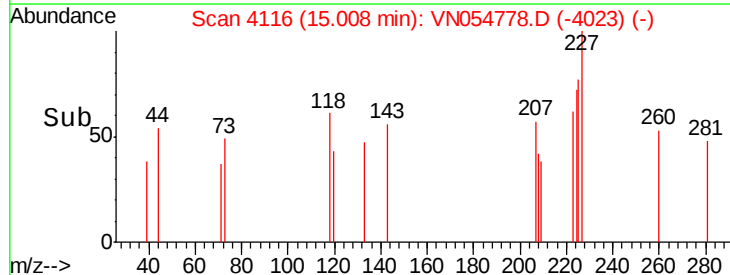
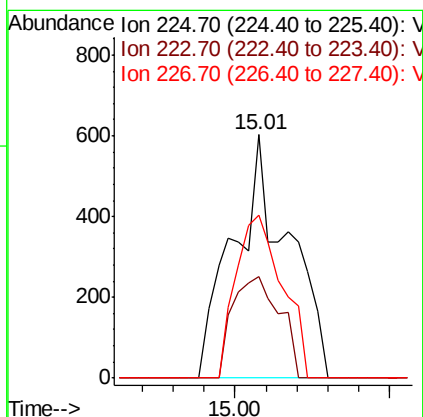
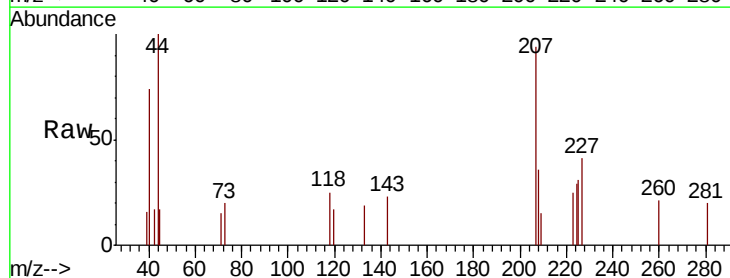
Instrument :
 MSVOA_N
 ClientSampleId :

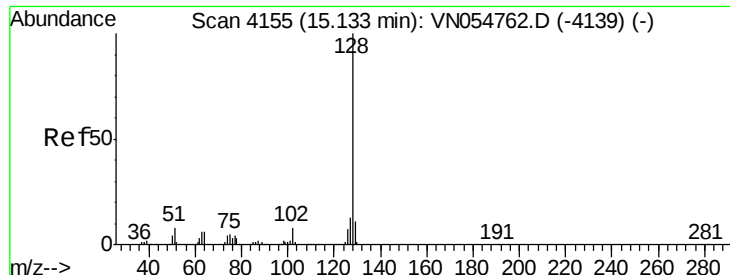
Tot Ion:180 Resp: 1912
 Ion Ratio Lower Upper
 180 100
 182 86.4 48.0 144.2
 145 10.9 14.2 42.8#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054778.D
 Acq: 29 Mar 2019 18:52

Tgt Ion:225 Resp: 744
 Ion Ratio Lower Upper
 225 100
 223 35.8 31.1 93.5
 227 57.0 31.9 95.9





#95

Naphthalene

Concen: 0.671 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

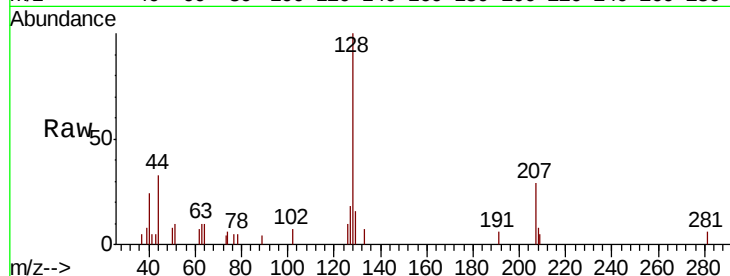
Tot Ion:128 Resp: 6421

Ion Ratio Lower Upper

128 100

127 15.6 10.1 15.1#

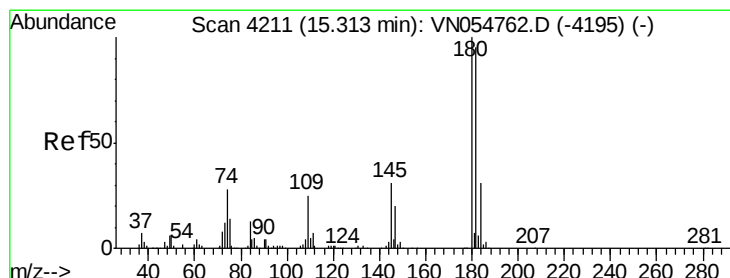
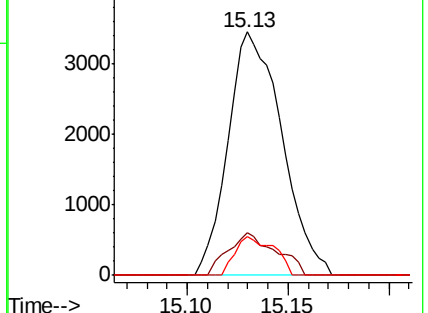
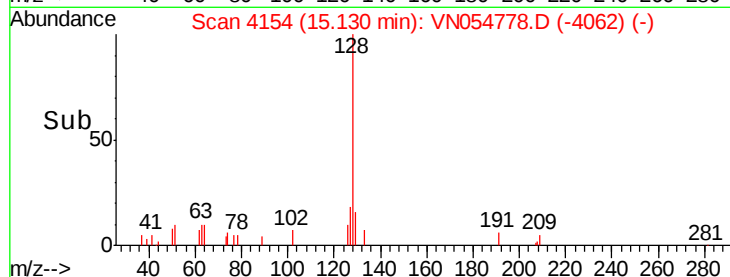
129 11.6 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 0.523 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054778.D

Acq: 29 Mar 2019 18:52

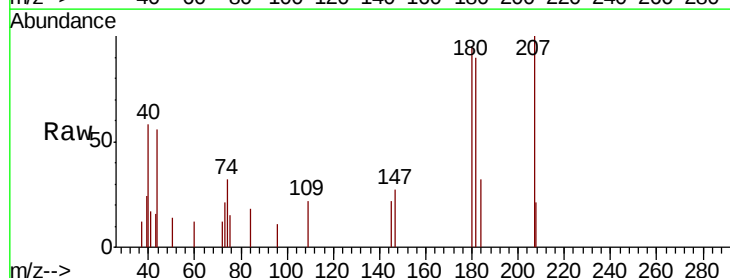
Tgt Ion:180 Resp: 2253

Ion Ratio Lower Upper

180 100

182 86.6 47.5 142.6

145 14.0 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

