

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056097.D
 Acq On : 7 Jun 2019 14:06
 Operator : JC/SP
 Sample : K3204-02 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 08 05:10:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	324142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	491865	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	475762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	187963	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	160789	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
35) Dibromofluoromethane	7.59	113	140952	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	
50) Toluene-d8	10.09	98	586129	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
62) 4-Bromofluorobenzene	12.40	95	202413	51.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.52%	

Target Compounds

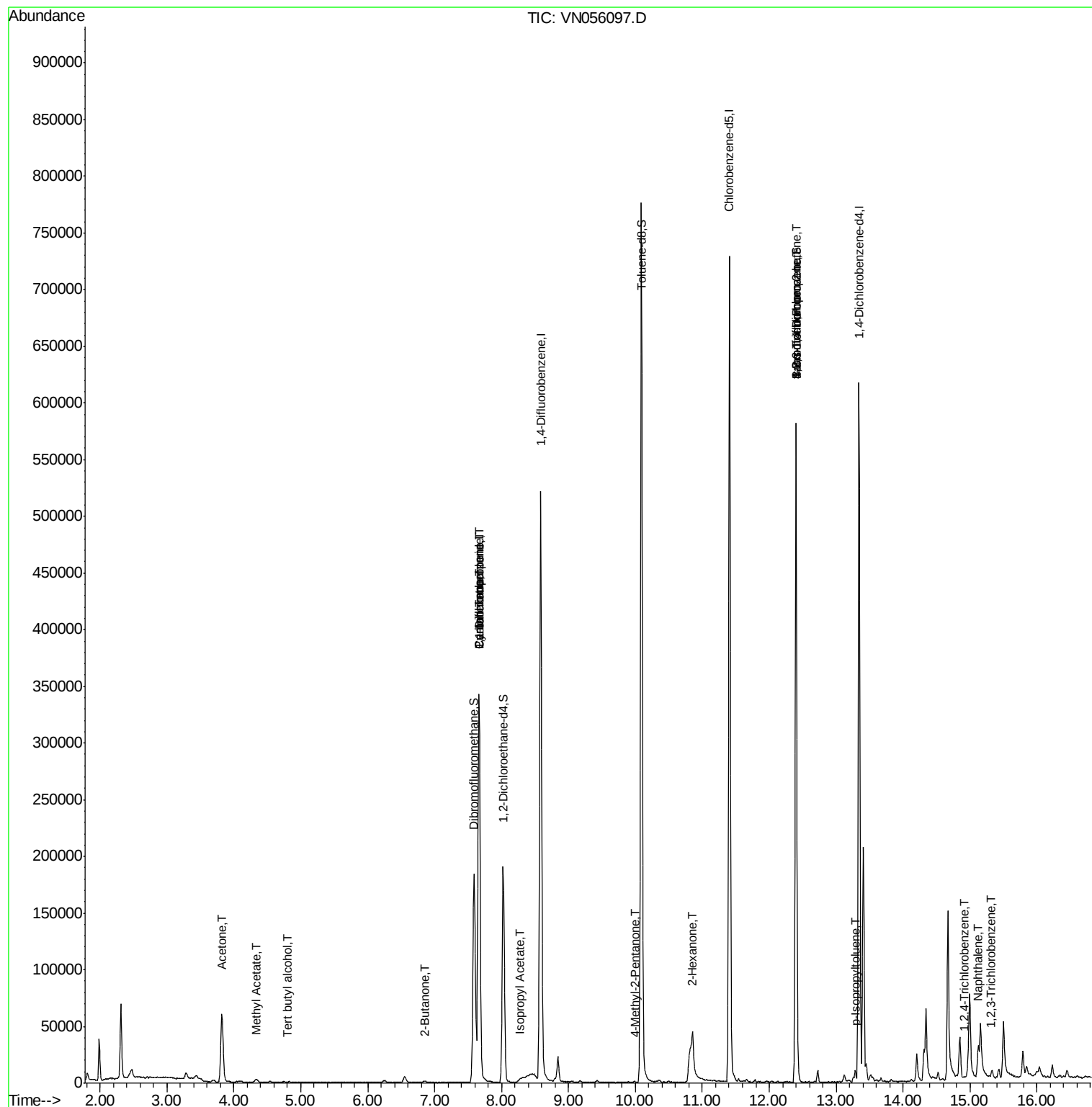
						Qvalue
11) Tert butyl alcohol	4.79	59	239	0.427	ug/l #	74
16) Acetone	3.82	43	100388	65.217	ug/l	99
18) Methyl Acetate	4.33	43	5803	1.357	ug/l #	87
25) 2-Butanone	6.86	43	2567	1.320	ug/l	92
31) Cyclohexane	7.67	56	4489	0.879	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19051	4.504	ug/l #	48
38) Carbon Tetrachloride	7.66	117	26097	6.693	ug/l #	15
43) Isopropyl Acetate	8.27	43	2388	0.392	ug/l #	53
51) 4-Methyl-2-Pentanone	9.98	43	1363	0.357	ug/l #	63
59) 2-Hexanone	10.85	43	30123	10.899	ug/l #	23
71) Bromoform	12.40	173	1414	3.229	ug/l #	1
73) Isopropylbenzene	12.24	105	155	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	92129	26.638	ug/l #	100
79) 2-Chlorotoluene	12.67	91	29	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	92129	88.708	ug/l #	15
86) p-Isopropyltoluene	13.29	119	6777	0.538	ug/l	98
93) 1,2,4-Trichlorobenzene	14.91	180	266	4.340	ug/l #	29
95) Naphthalene	15.13	128	2653	4.124	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.31	180	294	3.109	ug/l #	47

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

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056097.D

Acq: 7 Jun 2019 14:06

Instrument :

MSVOA_N

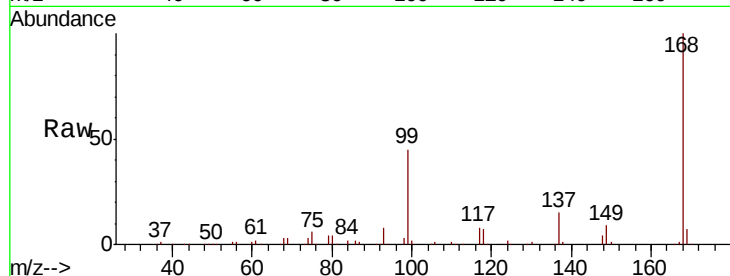
ClientSampled :

Tot Ion:168 Resp: 324142

Ion Ratio Lower Upper

168 100

99 44.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

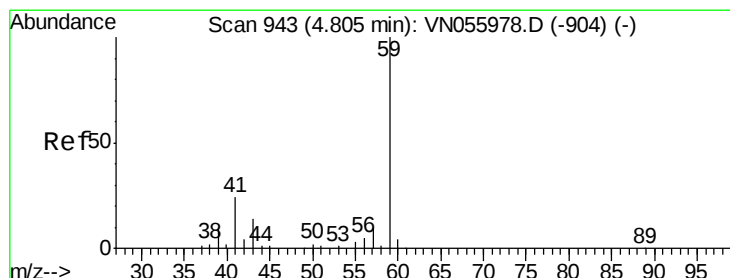
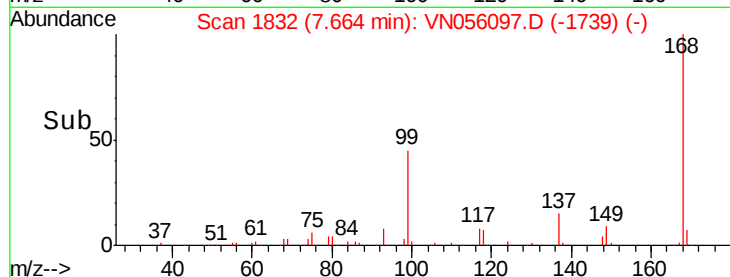
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.427 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.02 min

Lab File: VN056097.D

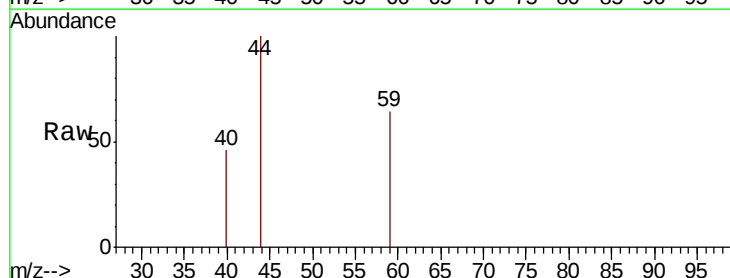
Acq: 7 Jun 2019 14:06

Tgt Ion: 59 Resp: 239

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.79

300

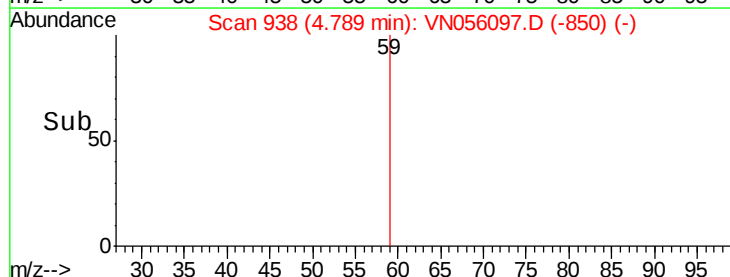
200

100

0

4.77 4.78 4.79 4.80

Time-->





#16

Acetone

Concen: 65.217 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056097.D

Acq: 7 Jun 2019 14:06

Instrument :

MSVOA_N

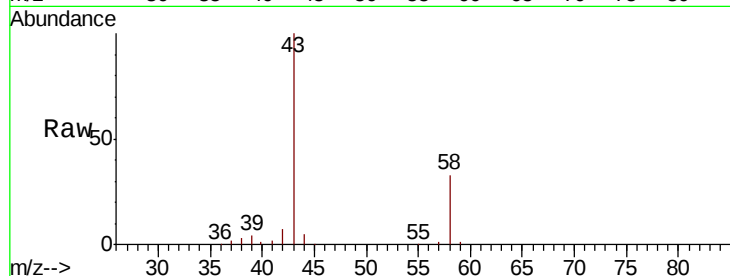
ClientSampled :

Tot Ion: 43 Resp: 100388

Ion Ratio Lower Upper

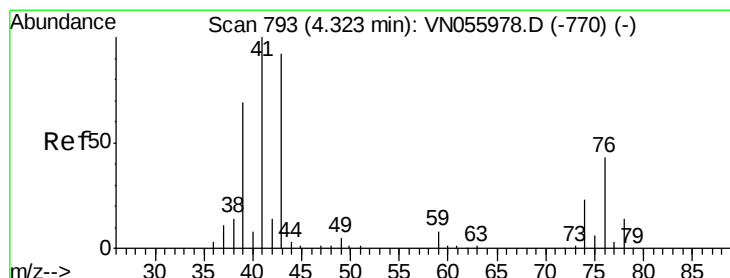
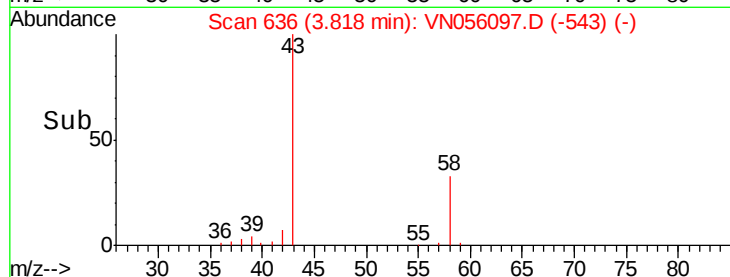
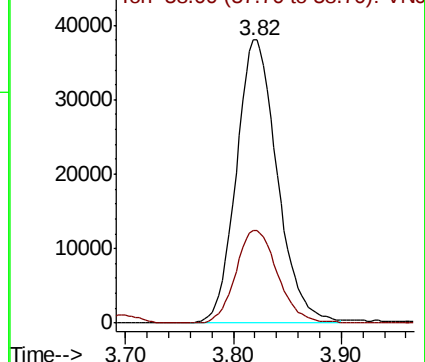
43 100

58 32.6 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.357 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056097.D

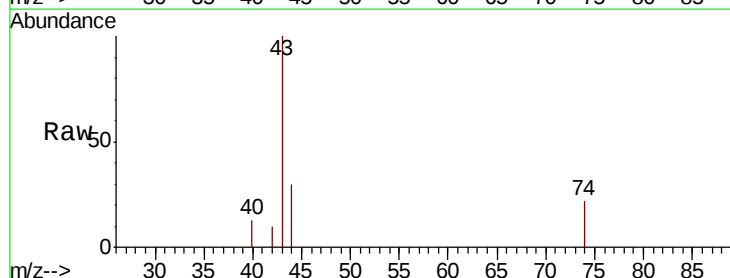
Acq: 7 Jun 2019 14:06

Tgt Ion: 43 Resp: 5803

Ion Ratio Lower Upper

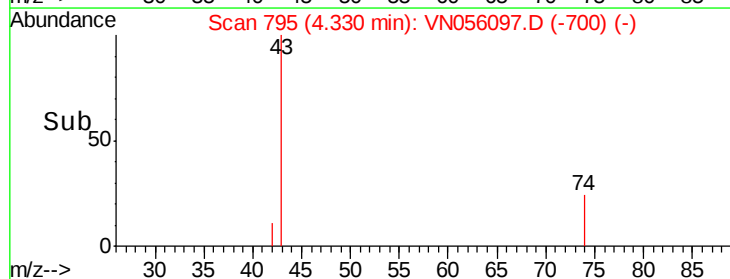
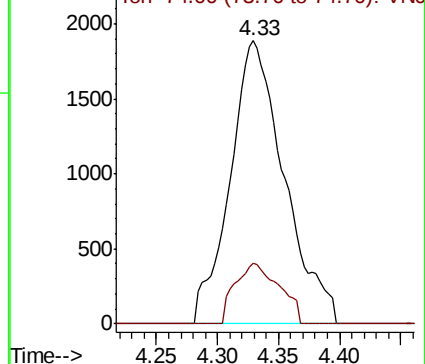
43 100

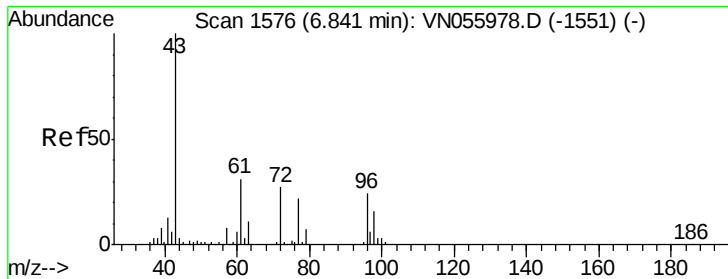
74 17.6 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 1.320 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.02 min

Lab File: VN056097.D

Acq: 7 Jun 2019 14:06

Instrument :

MSVOA_N

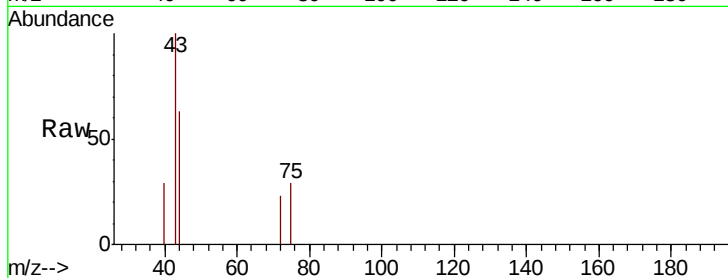
ClientSampleId :

Tot Ion: 43 Resp: 2567

Ion Ratio Lower Upper

43 100

72 23.5 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.86

800

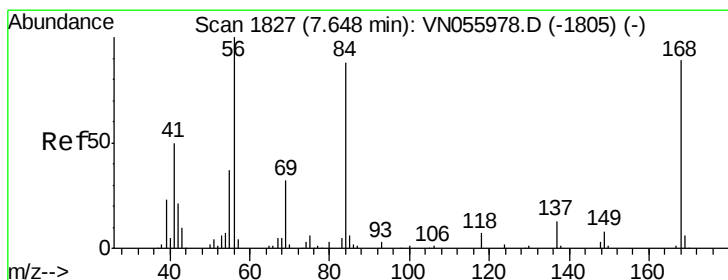
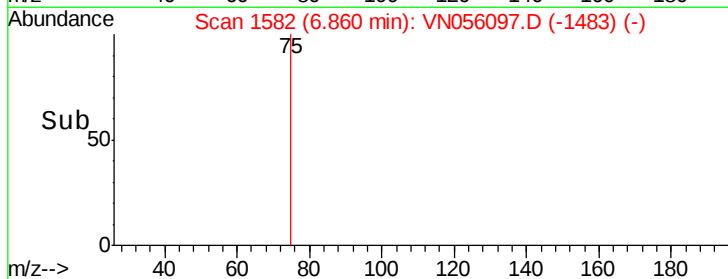
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.879 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN056097.D

Acq: 7 Jun 2019 14:06

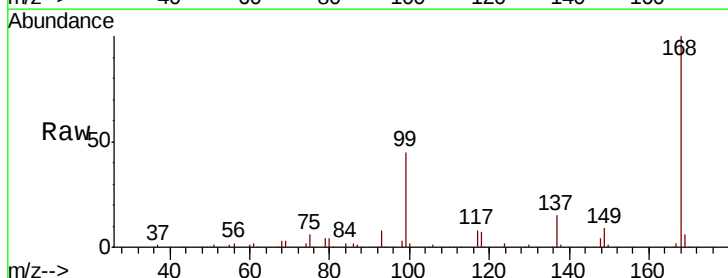
Tgt Ion: 56 Resp: 4489

Ion Ratio Lower Upper

56 100

69 169.7 25.6 38.4#

84 149.8 67.4 101.0#



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

4000

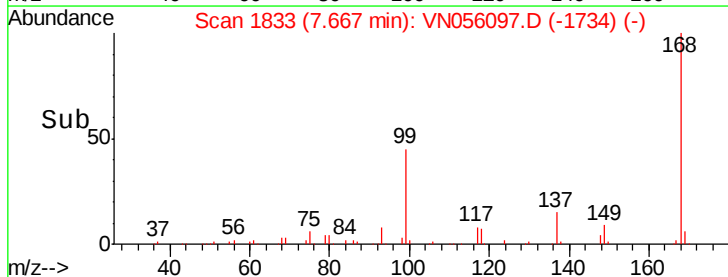
3000

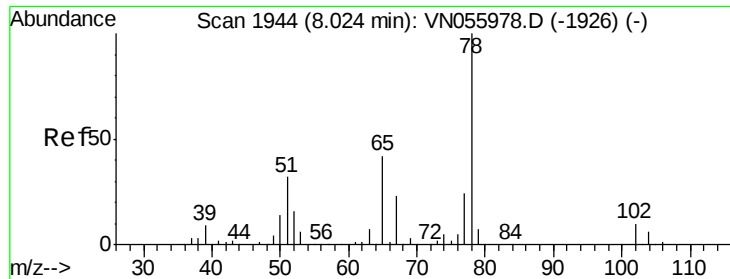
2000

1000

0

Time-->

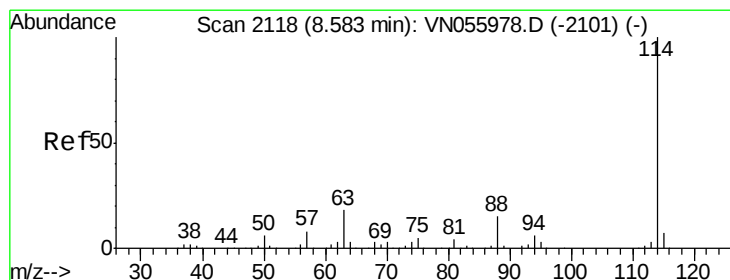
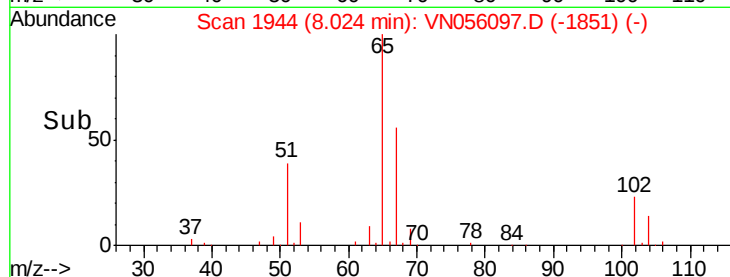
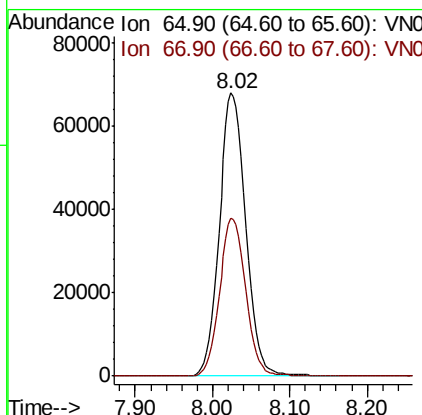
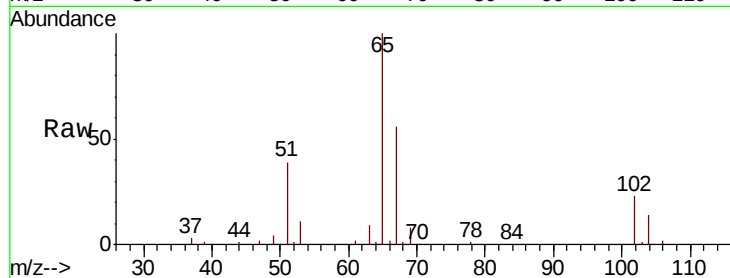




#33
 1,2-Dichloroethane-d4
 Concen: 49.958 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

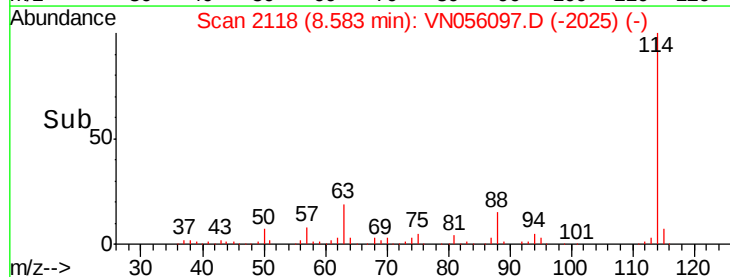
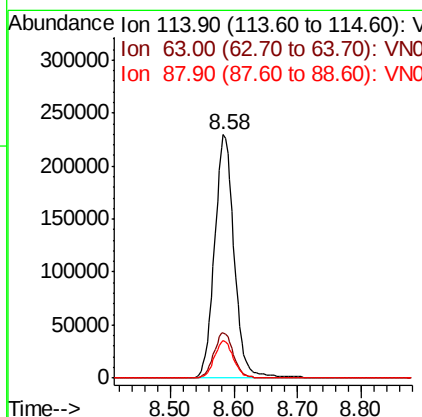
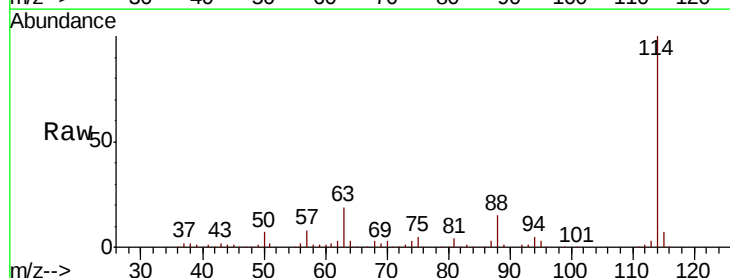
Instrument :
 MSVOA_N
 ClientSampleId :

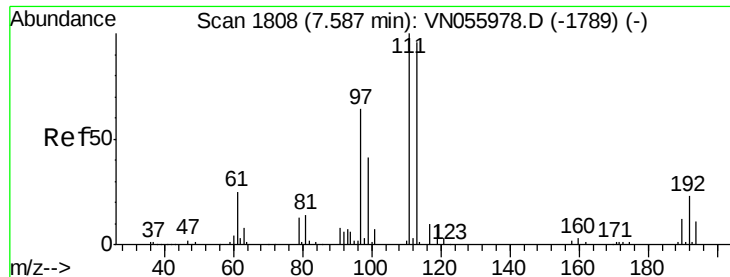
Tot Ion: 65 Resp: 160789
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

Tgt Ion: 114 Resp: 491865
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.4 0.0 31.0

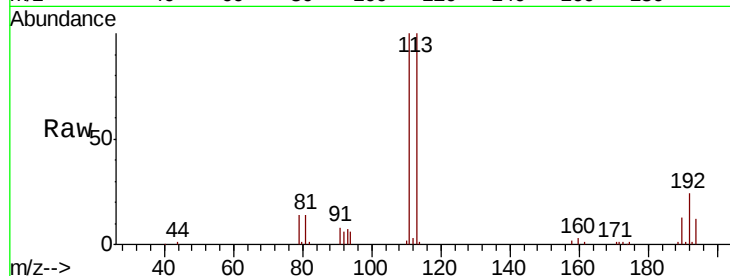




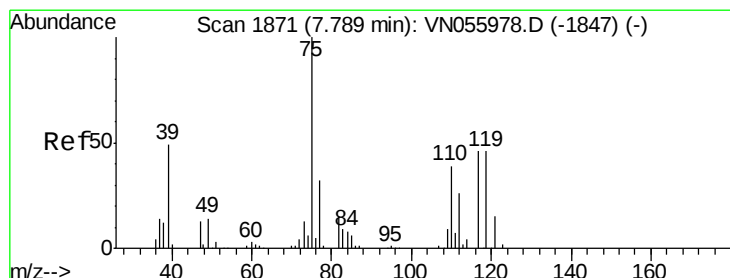
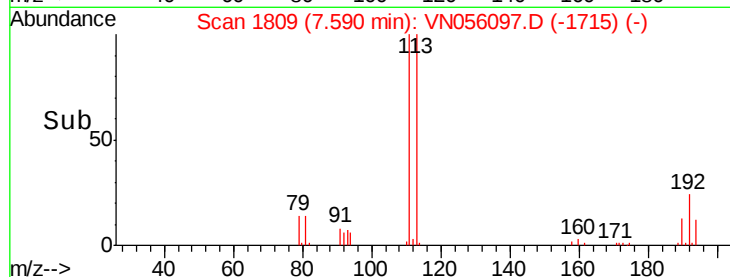
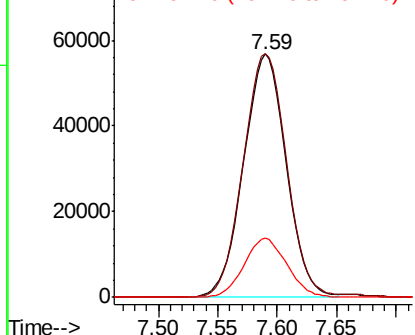
#35
 Dibromofluoromethane
 Concen: 46.708 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 140952
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.9 122.9
 192 24.3 19.5 29.3

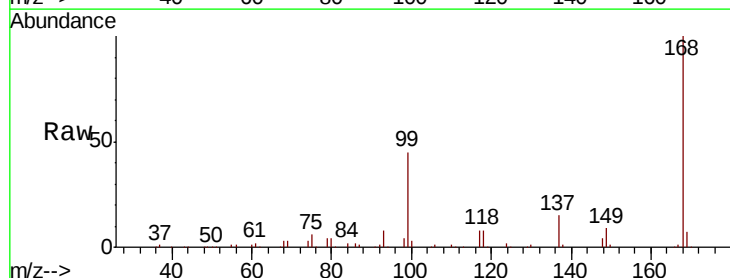


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

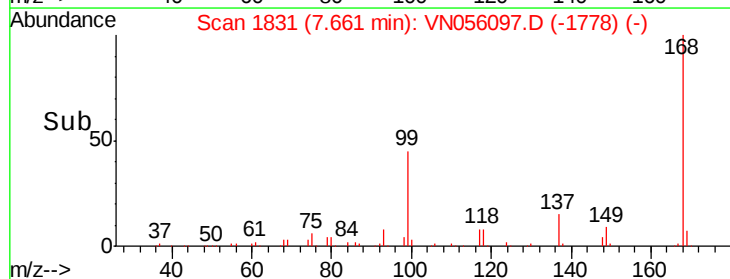
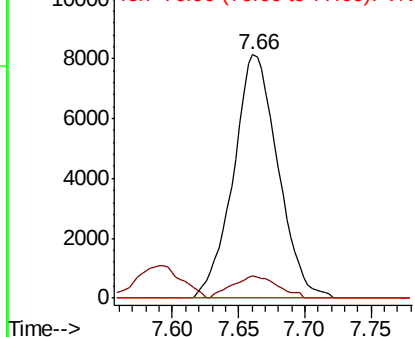


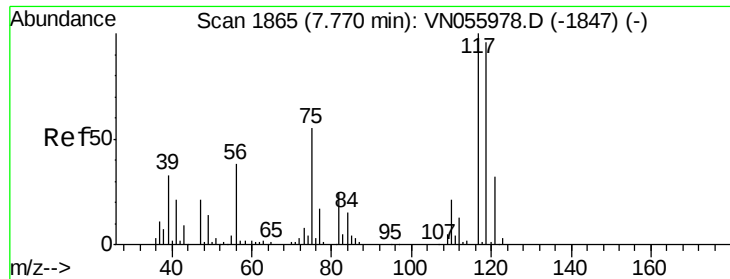
#36
 1,1-Dichloropropene
 Concen: 4.504 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

Tgt Ion: 75 Resp: 19051
 Ion Ratio Lower Upper
 75 100
 110 9.2 19.0 57.0#
 77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

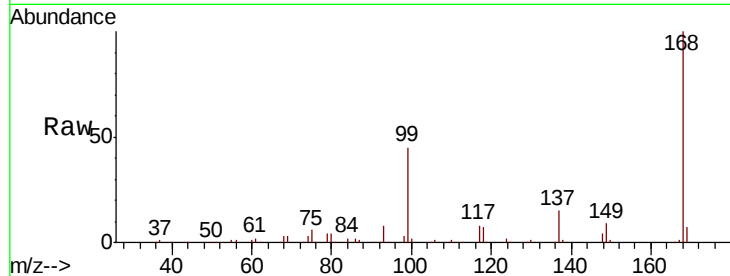




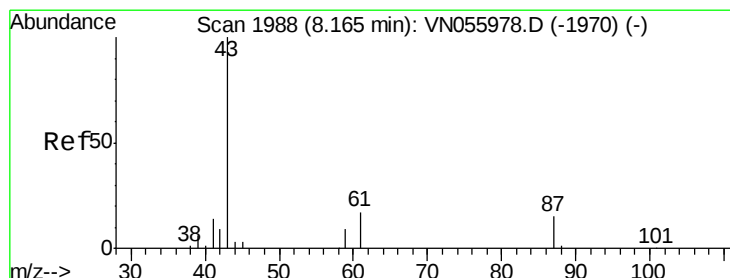
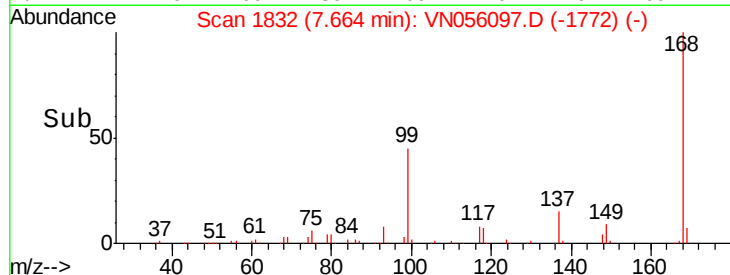
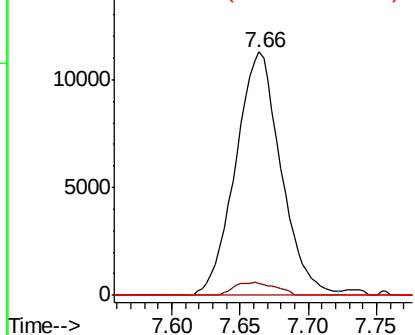
#38
Carbon Tetrachloride
Concen: 6.693 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 26097
Ion Ratio Lower Upper
117 100
119 4.9 79.0 118.6#
121 0.0 24.7 37.1#

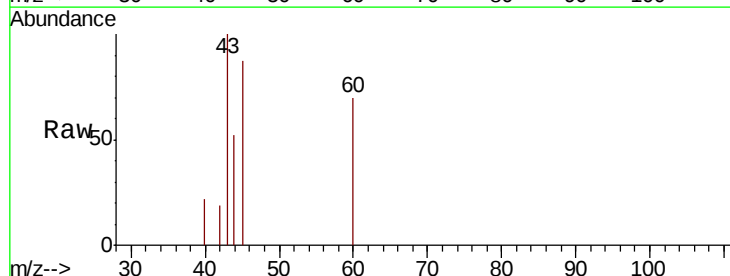


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

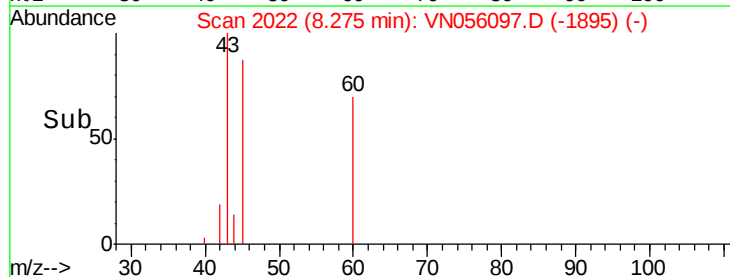
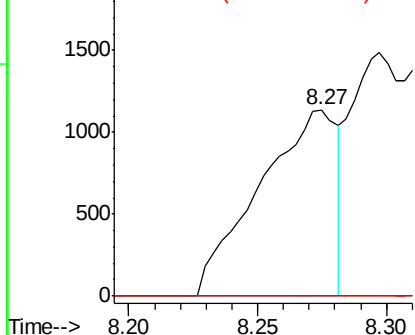


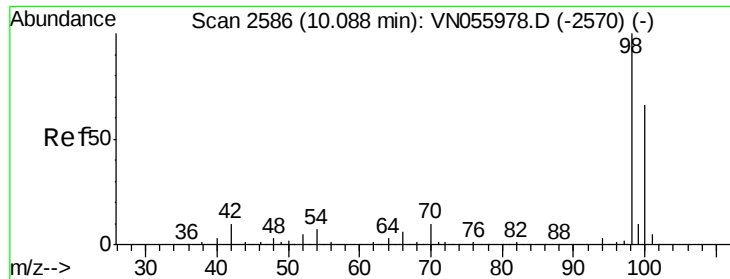
#43
Isopropyl Acetate
Concen: 0.392 ug/l
RT: 8.27 min Scan# 2022
Delta R.T. 0.11 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

Tgt Ion: 43 Resp: 2388
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



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





#50

Toluene-d8

Concen: 50.475 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056097.D

Acq: 7 Jun 2019 14:06

Instrument :

MSVOA_N

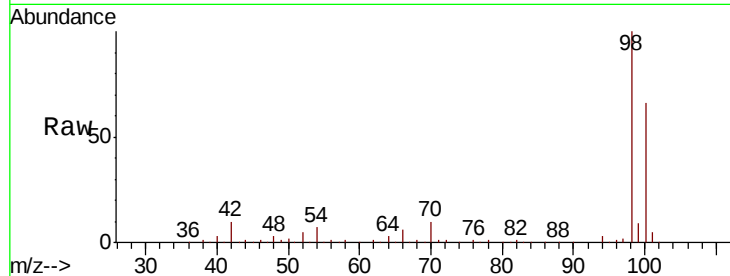
ClientSampled :

Tot Ion: 98 Resp: 586129

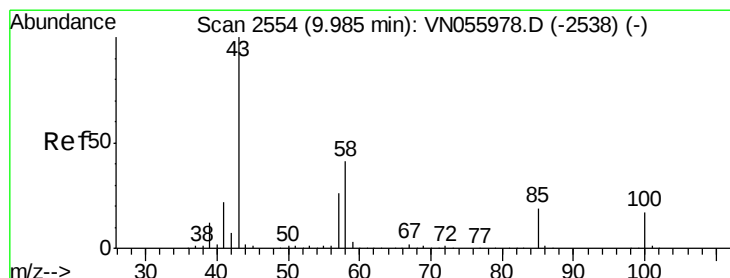
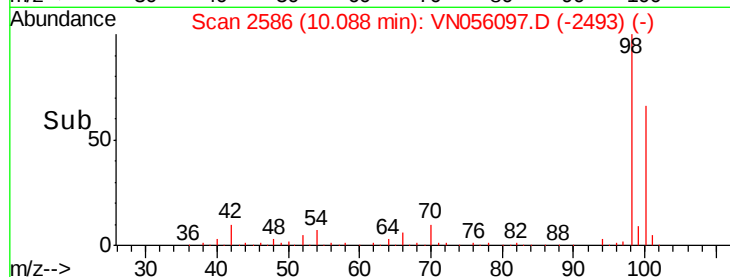
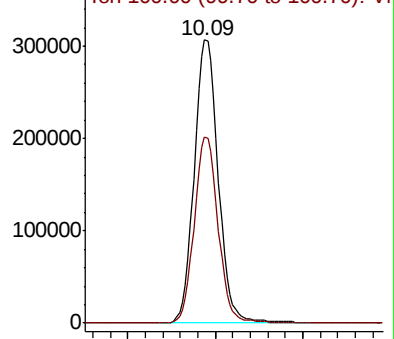
Ion Ratio Lower Upper

98 100

100 65.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.357 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN056097.D

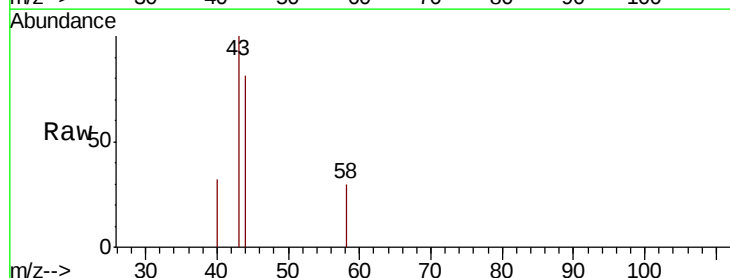
Acq: 7 Jun 2019 14:06

Tgt Ion: 43 Resp: 1363

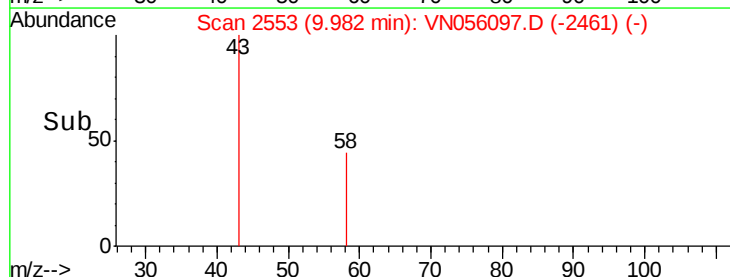
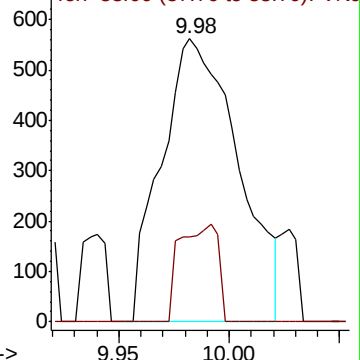
Ion Ratio Lower Upper

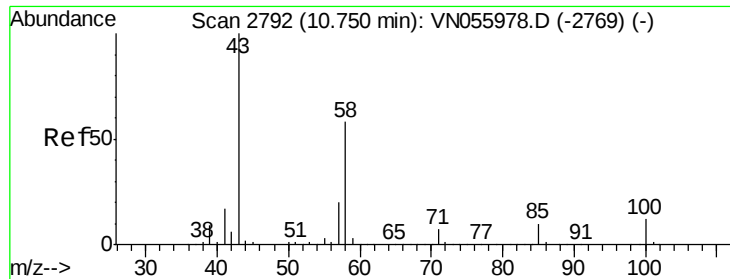
43 100

58 17.2 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

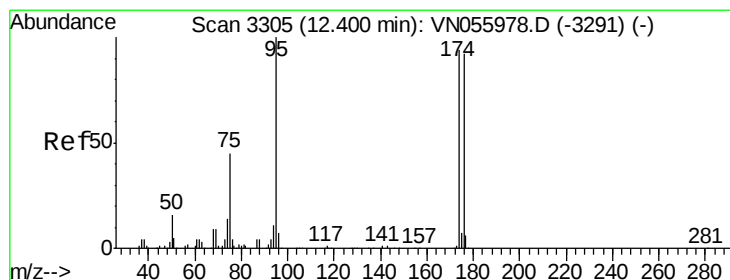
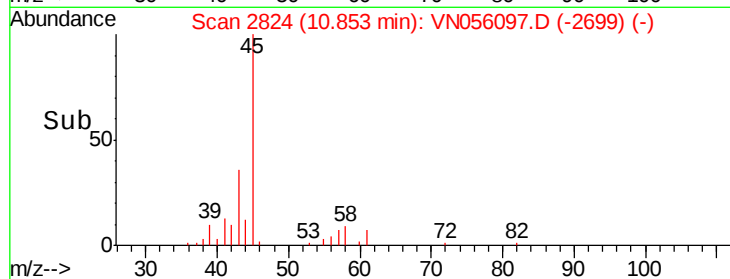
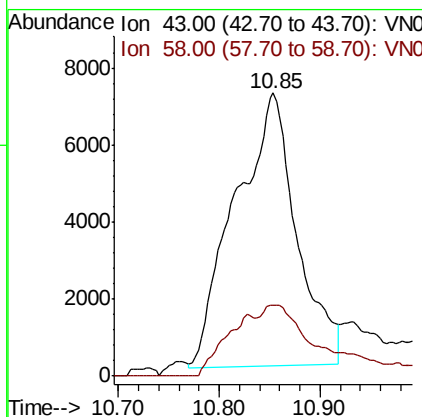
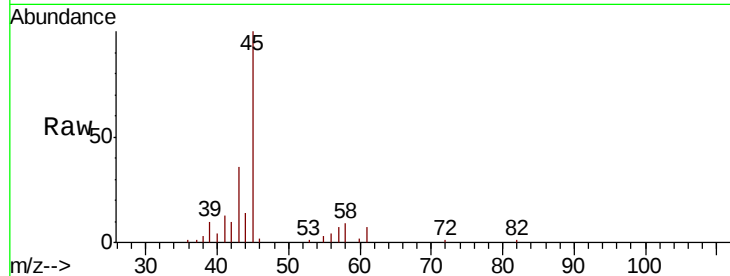




#59
 2-Hexanone
 Concen: 10.899 ug/l
 RT: 10.85 min Scan# 2824
 Delta R.T. 0.10 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

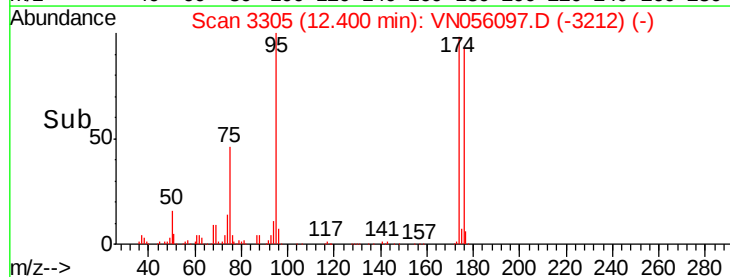
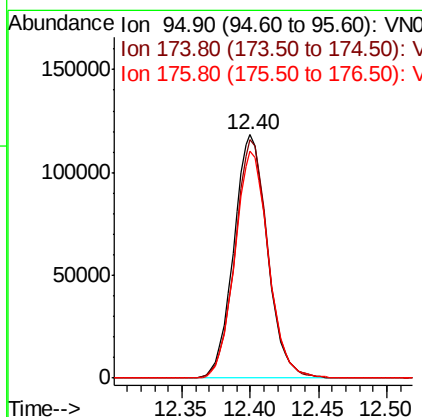
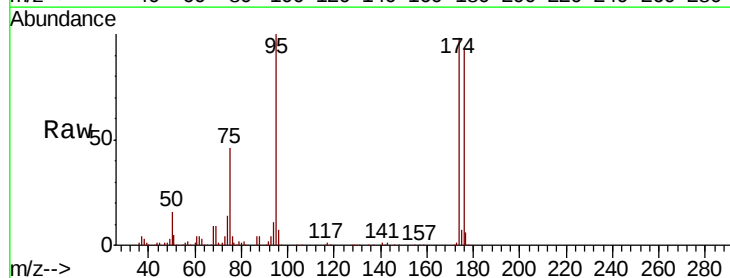
Instrument :
 MSVOA_N
 ClientSampled :

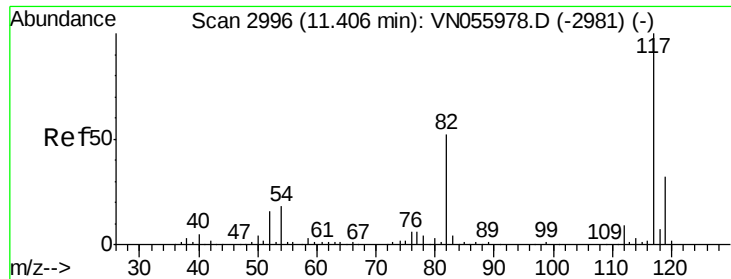
Tot Ion: 43 Resp: 30123
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.2 84.7#



#62
 4-Bromofluorobenzene
 Concen: 51.256 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

Tgt Ion: 95 Resp: 202413
 Ion Ratio Lower Upper
 95 100
 174 96.2 0.0 191.0
 176 93.3 0.0 185.2

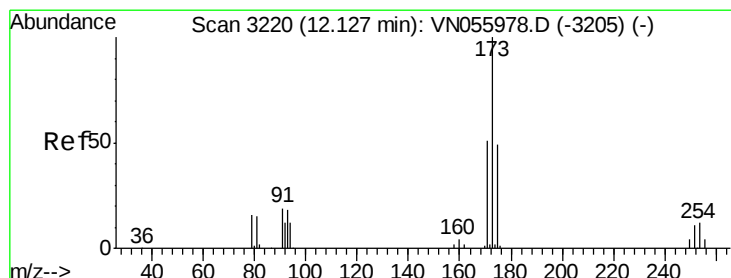
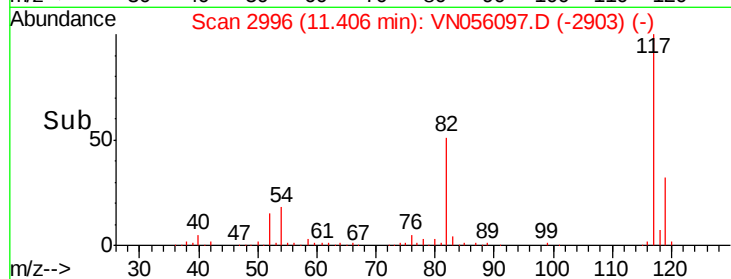
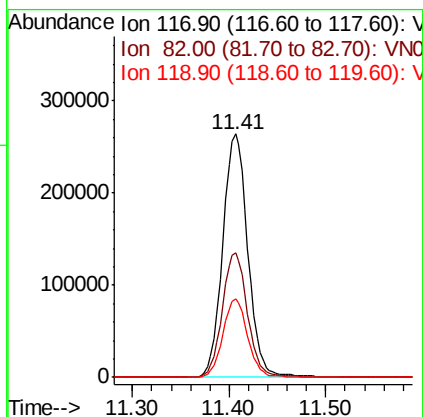
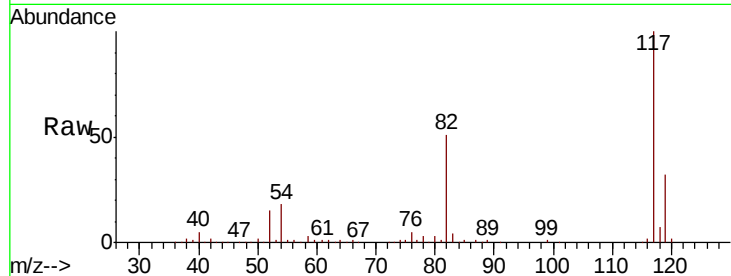




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

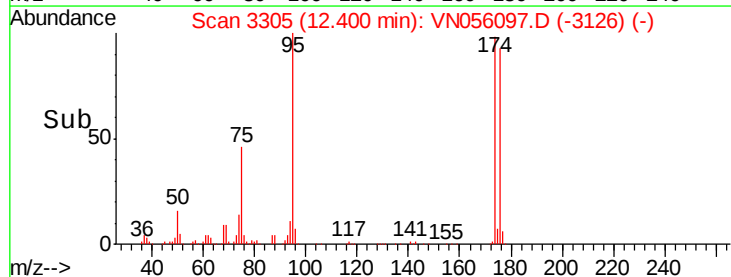
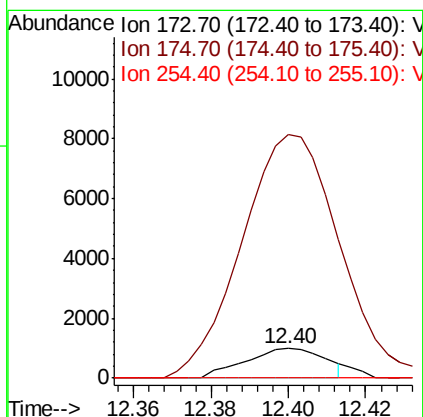
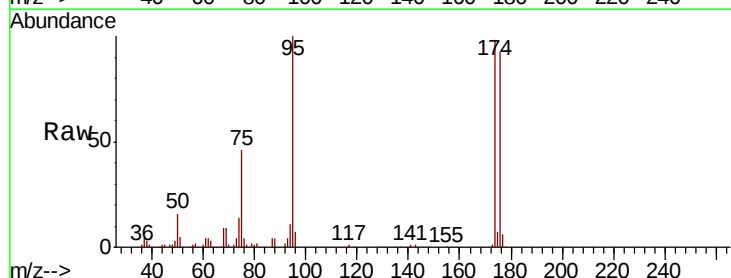
Instrument :
MSVOA_N
ClientSampleId :

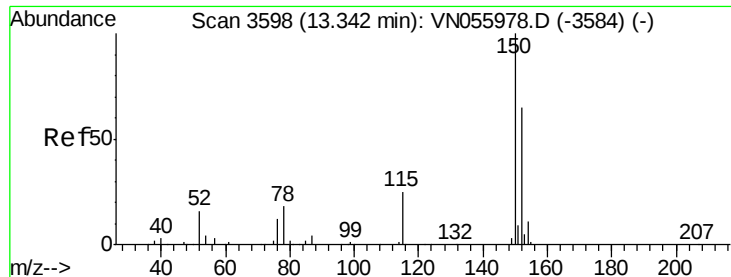
Tot Ion:117 Resp: 475762
Ion Ratio Lower Upper
117 100
82 51.2 41.8 62.8
119 32.3 25.4 38.0



#71
Bromoform
Concen: 3.229 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

Tgt Ion:173 Resp: 1414
Ion Ratio Lower Upper
173 100
175 892.2 24.3 72.8#
254 0.0 0.0 0.0



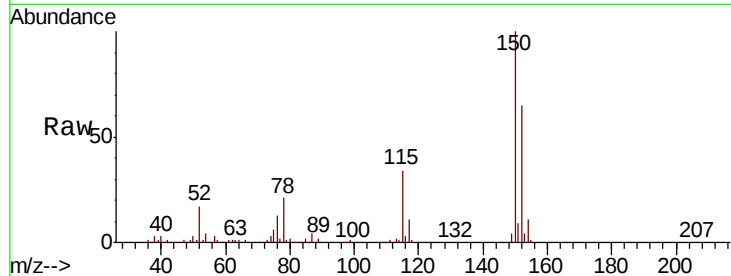


#72

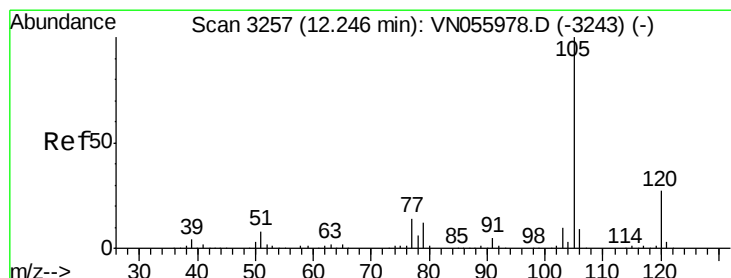
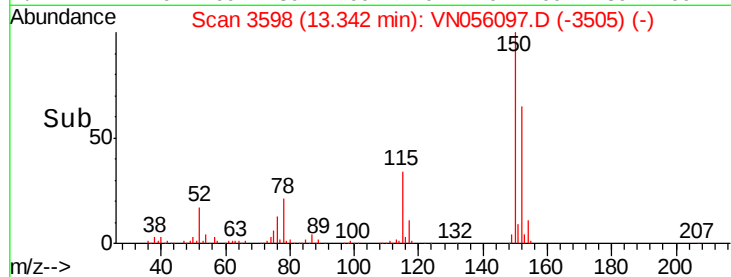
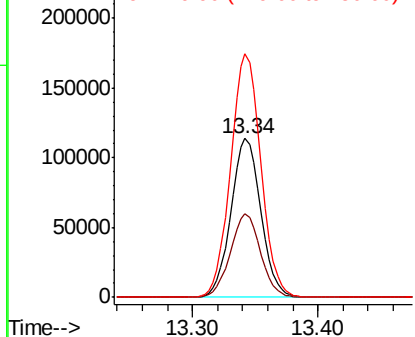
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 187963
Ion Ratio Lower Upper
152 100
115 52.3 27.0 81.0
150 155.1 0.0 343.2



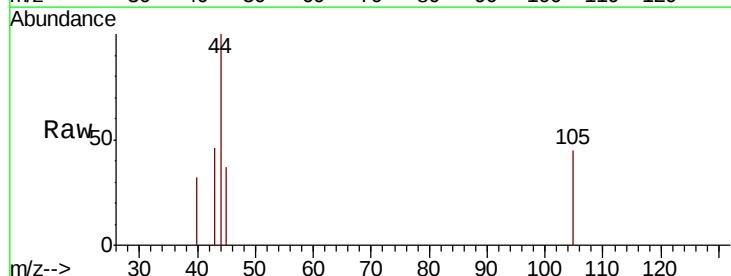
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



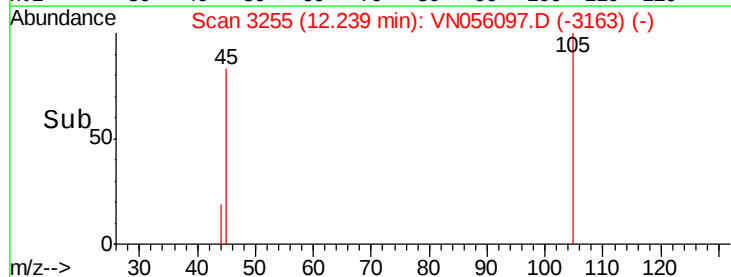
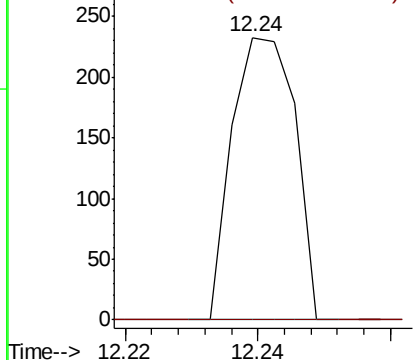
#73

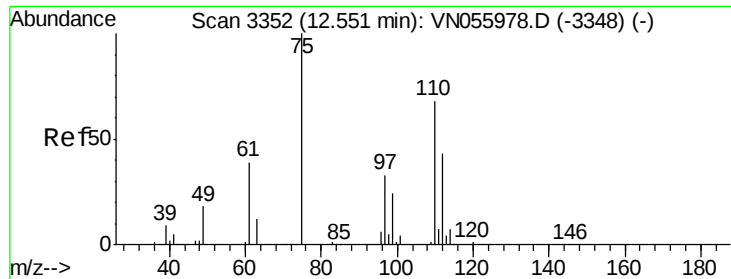
Isopropylbenzene
Concen: Below Cal
RT: 12.24 min Scan# 3255
Delta R.T. -0.01 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

Tgt Ion:105 Resp: 155
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





#76

1,2,3-Trichloropropane

Concen: 26.638 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056097.D

Acq: 7 Jun 2019 14:06

Instrument :

MSVOA_N

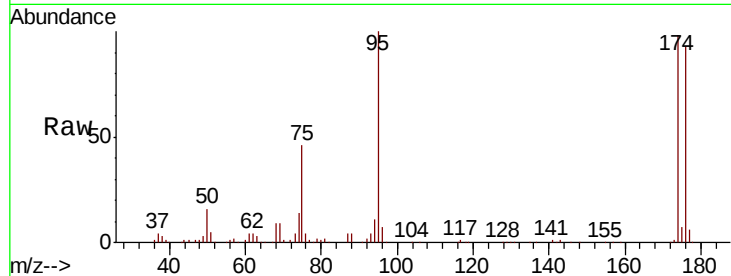
ClientSampled :

Tot Ion: 75 Resp: 92129

Ion Ratio Lower Upper

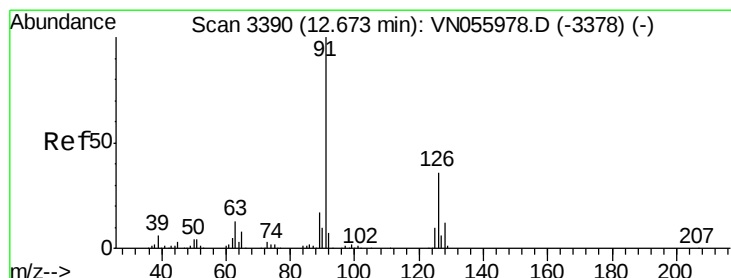
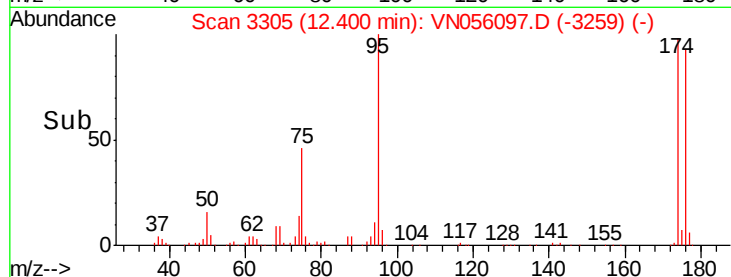
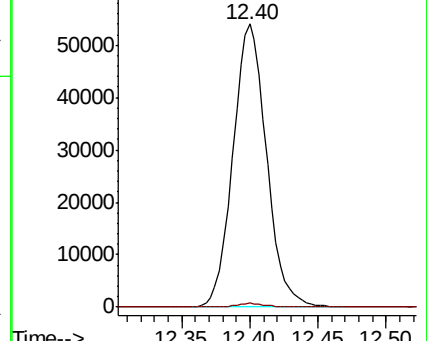
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN056097.D

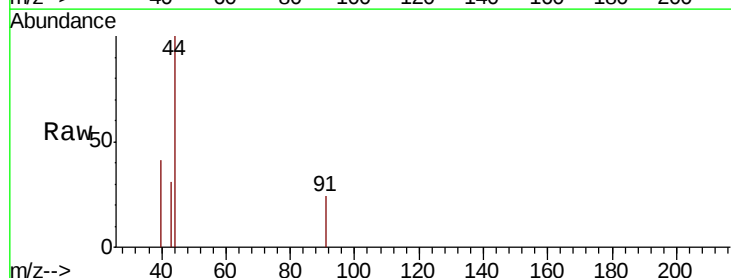
Acq: 7 Jun 2019 14:06

Tgt Ion: 91 Resp: 29

Ion Ratio Lower Upper

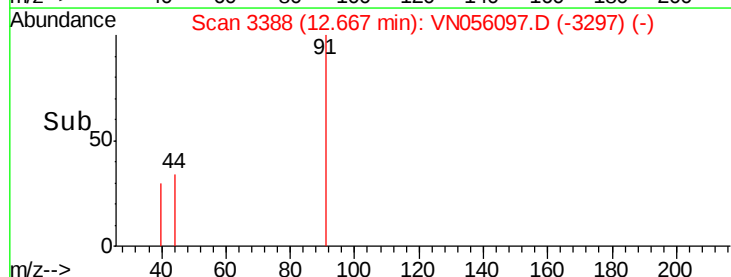
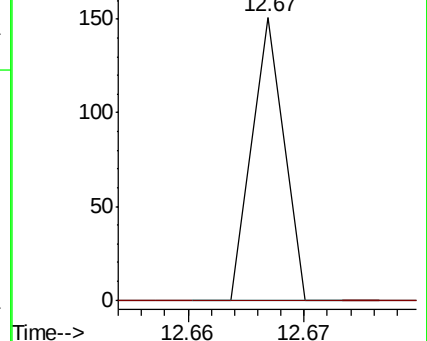
91 100

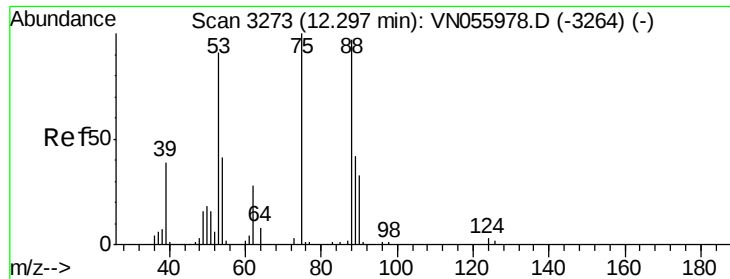
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

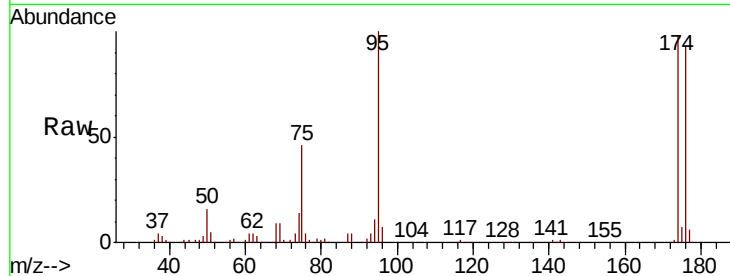




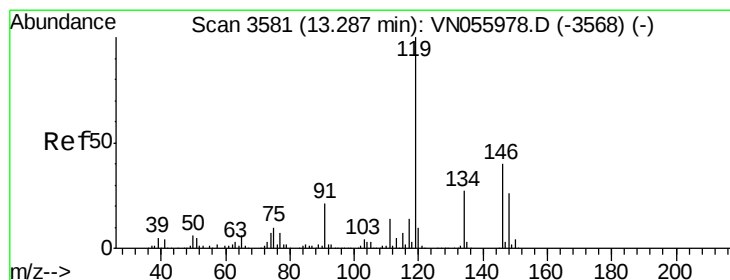
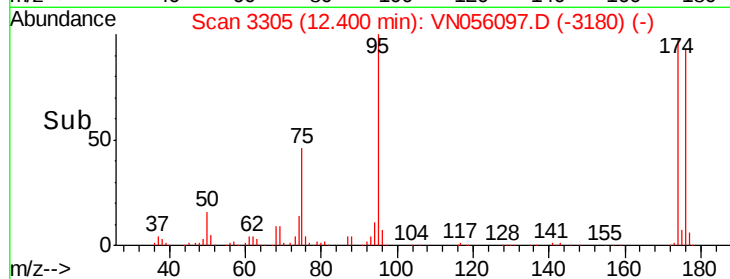
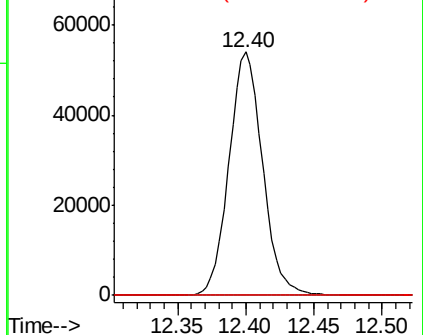
#81
trans-1,4-Dichloro-2-butene
Concen: 88.708 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 92129
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#

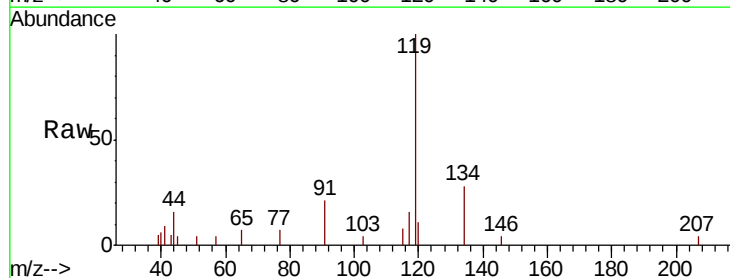


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

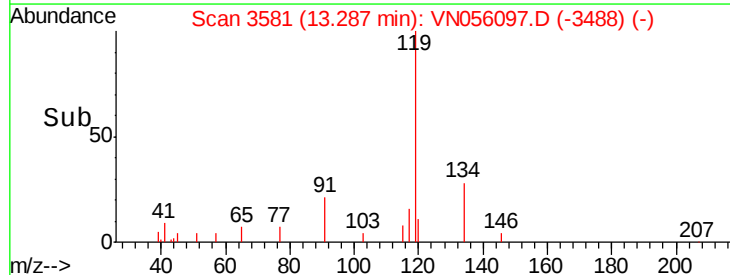
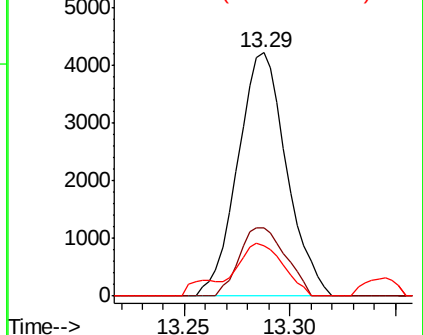


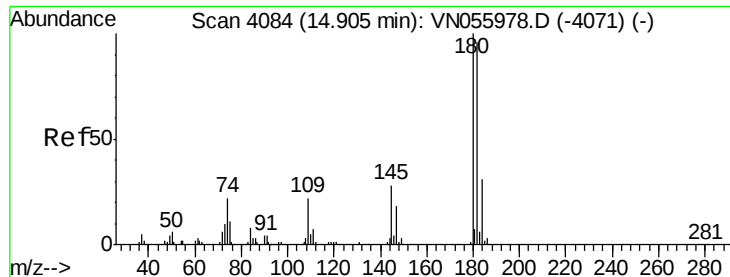
#86
p-Isopropyltoluene
Concen: 0.538 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN056097.D
Acq: 7 Jun 2019 14:06

Tgt Ion: 119 Resp: 6777
Ion Ratio Lower Upper
119 100
134 26.5 13.4 40.1
91 19.7 10.9 32.9



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): VN0

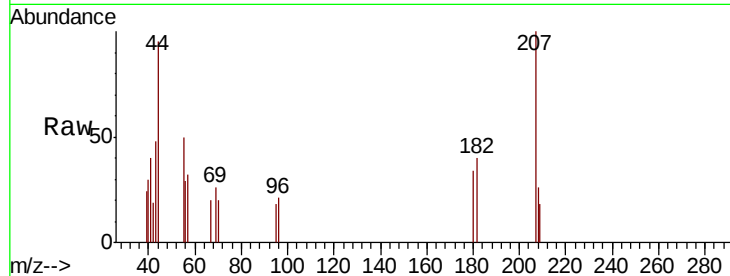




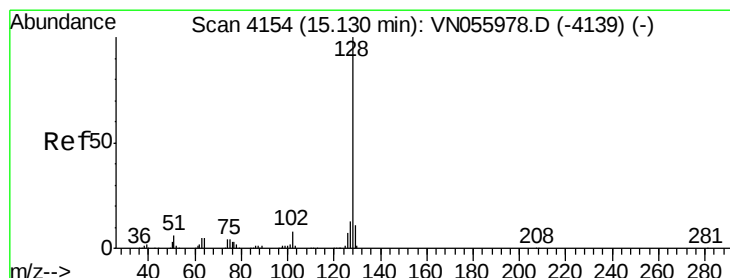
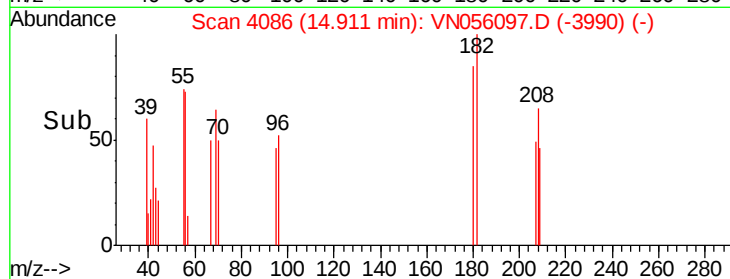
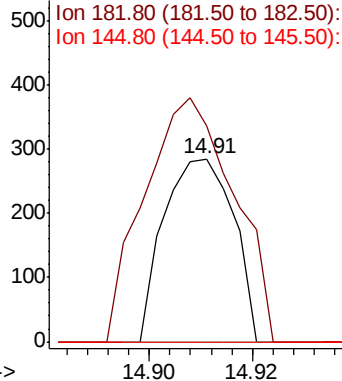
#93
 1,2,4-Trichlorobenzene
 Concen: 4.340 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 266
 Ion Ratio Lower Upper
 180 100
 182 171.1 48.3 144.9#
 145 0.0 14.0 41.9#

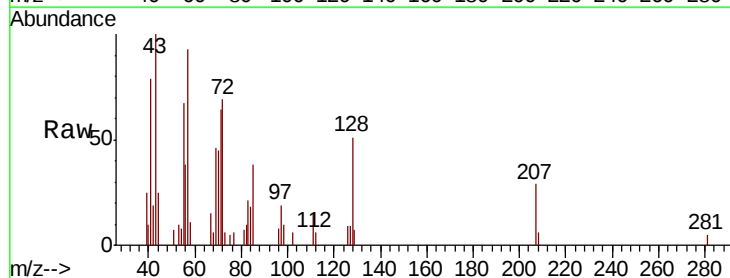


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

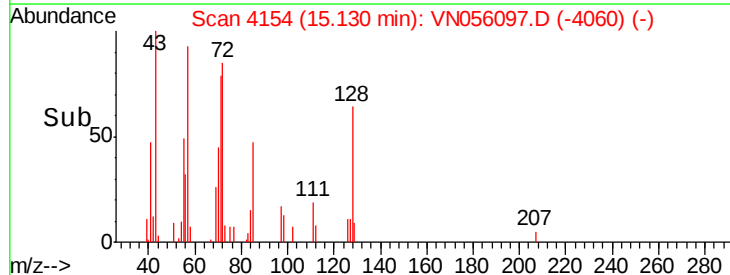
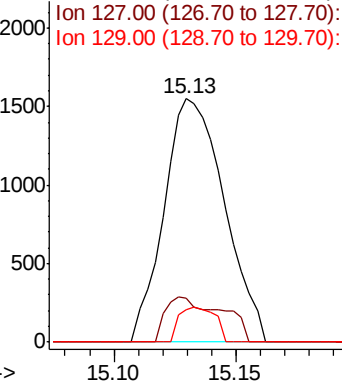


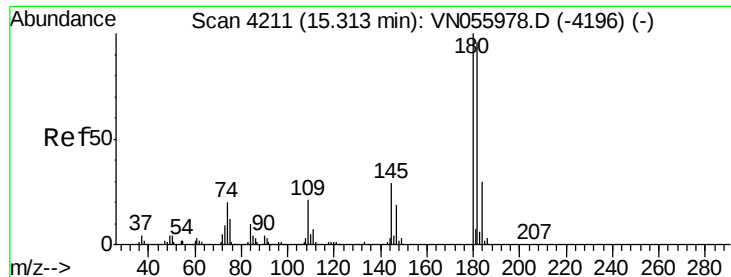
#95
 Naphthalene
 Concen: 4.124 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

Tgt Ion:128 Resp: 2653
 Ion Ratio Lower Upper
 128 100
 127 17.3 10.3 15.5#
 129 8.5 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

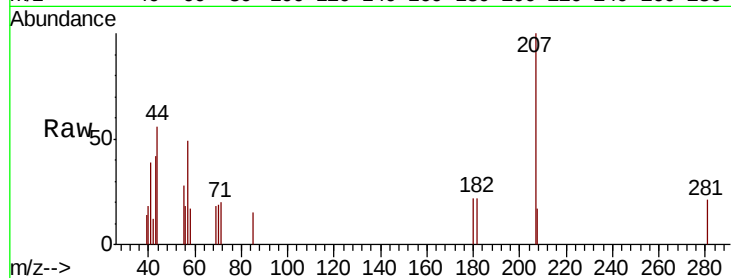




#96
 1,2,3-Trichlorobenzene
 Concen: 3.109 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN056097.D
 Acq: 7 Jun 2019 14:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	146.9	47.9	143.7#
145	0.0	14.9	44.7#



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

