

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056820.D
 Acq On : 19 Jul 2019 10:38
 Operator : JC/SP
 Sample : VN0719WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 23:12:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	240677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	432247	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	442019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147574	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	139711	52.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.96%	
35) Dibromofluoromethane	7.59	113	129418	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	
50) Toluene-d8	10.09	98	535653	51.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	12.40	95	184905	52.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.56%	

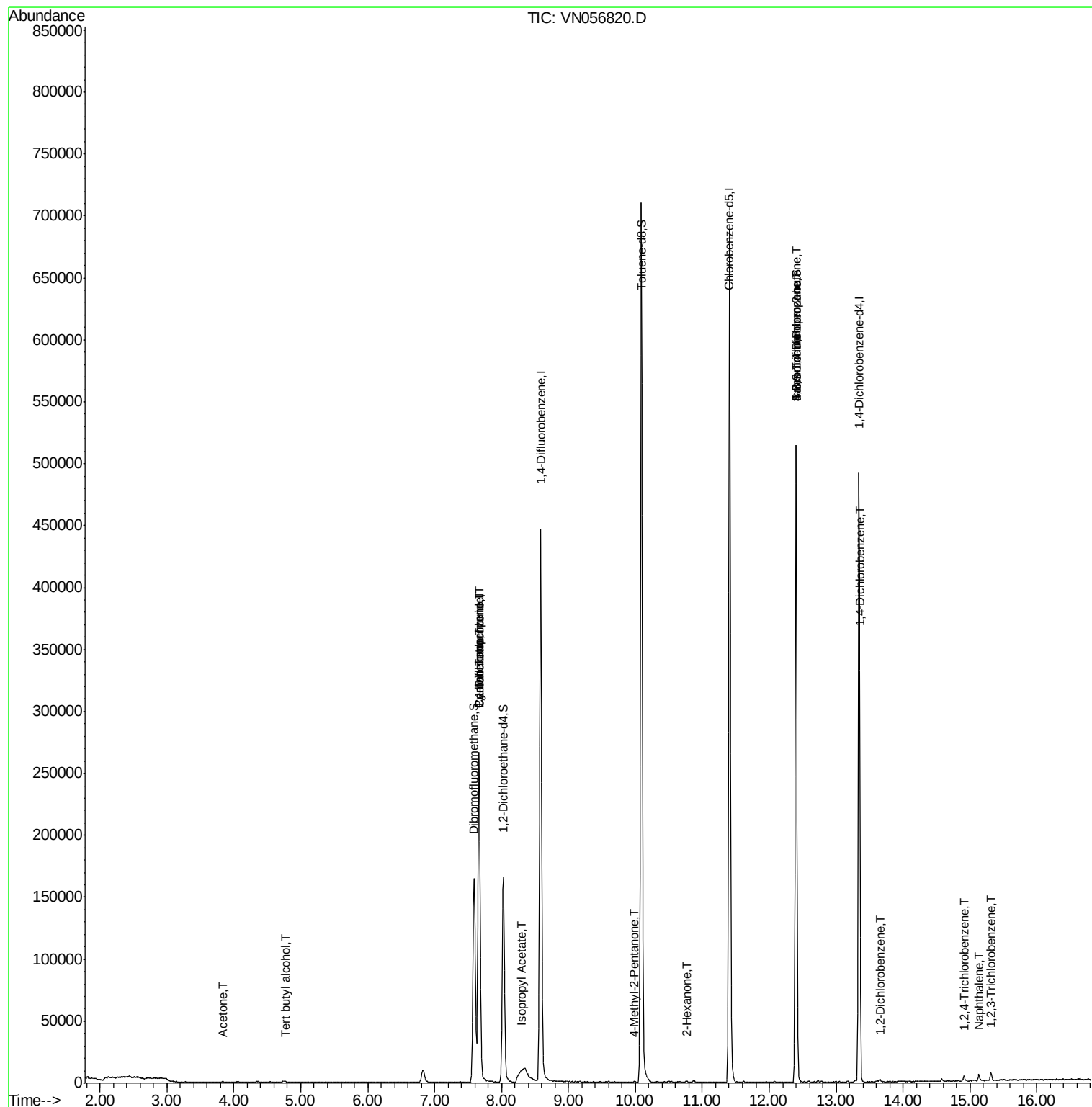
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	185	0.417	ug/l #	73
16) Acetone	3.84	43	1131	0.922	ug/l #	41
18) Methyl Acetate	4.34	43	789	Below Cal		99
31) Cyclohexane	7.66	56	4029	0.947	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	15656	3.914	ug/l #	49
38) Carbon Tetrachloride	7.66	117	20948	5.585	ug/l #	16
43) Isopropyl Acetate	8.29	43	10515	1.697	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1175	0.293	ug/l #	35
59) 2-Hexanone	10.76	43	1290	0.448	ug/l	70
71) Bromoform	12.40	173	1584	0.626	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	85053	26.351	ug/l #	100
79) 2-Chlorotoluene	12.68	91	559	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	85053	81.381	ug/l #	13
83) tert-Butylbenzene	12.99	119	347	Below Cal	#	27
88) 1,4-Dichlorobenzene	13.36	146	1040	0.210	ug/l #	70
91) 1,2-Dichlorobenzene	13.65	146	1110	0.213	ug/l	85
93) 1,2,4-Trichlorobenzene	14.91	180	2024	4.342	ug/l	98
94) Hexachlorobutadiene	15.01	225	66	Below Cal	#	18
95) Naphthalene	15.13	128	4912	5.091	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	2737	4.216	ug/l	88

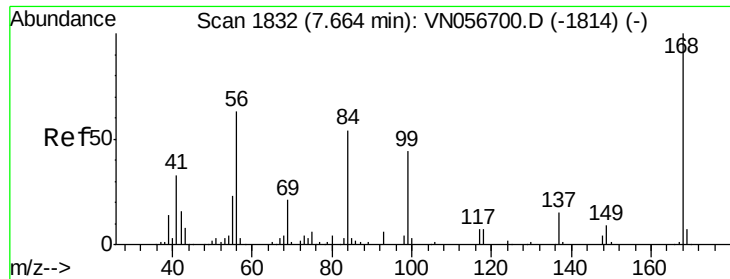
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 07:03:34 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: VN056820.D

Acq: 19 Jul 2019 10:38

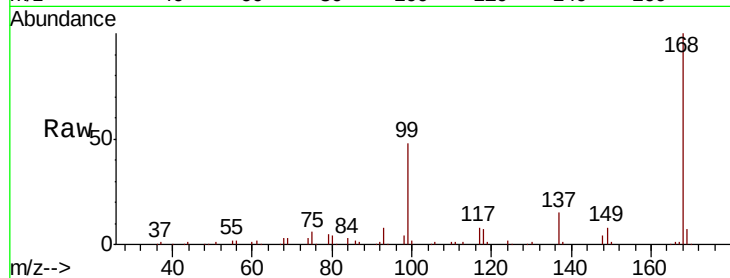
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 240677

Ion Ratio Lower Upper

168 100

99 48.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

100000

80000

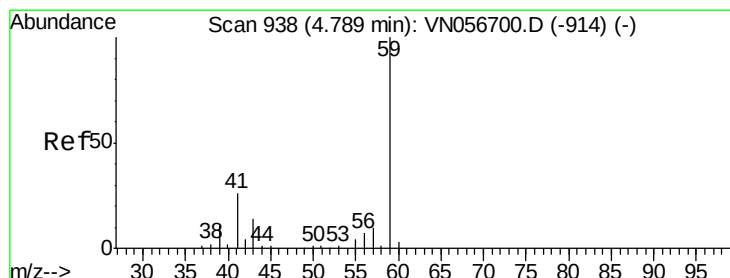
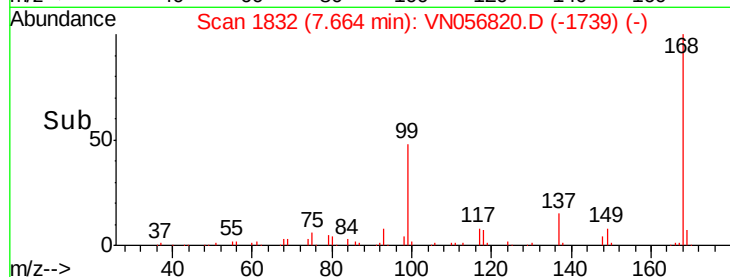
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.417 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.01 min

Lab File: VN056820.D

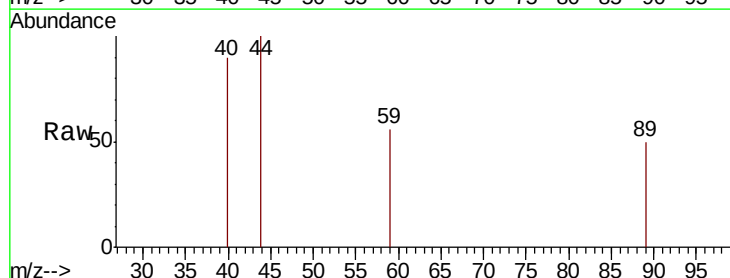
Acq: 19 Jul 2019 10:38

Tgt Ion: 59 Resp: 185

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.78

250

200

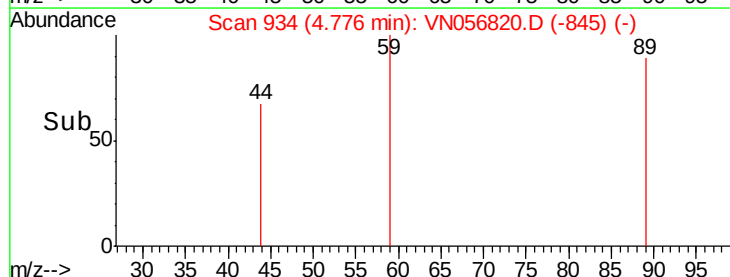
150

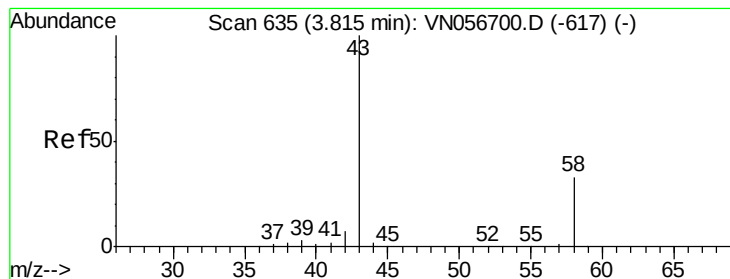
100

50

0

Time--> 4.76 4.77 4.78 4.79





#16

Acetone

Concen: 0.922 ug/l

RT: 3.84 min Scan# 643

Delta R.T. 0.03 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

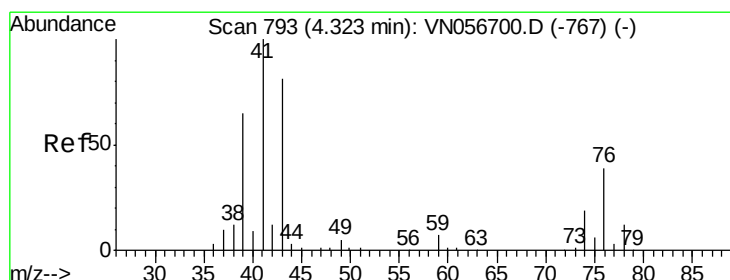
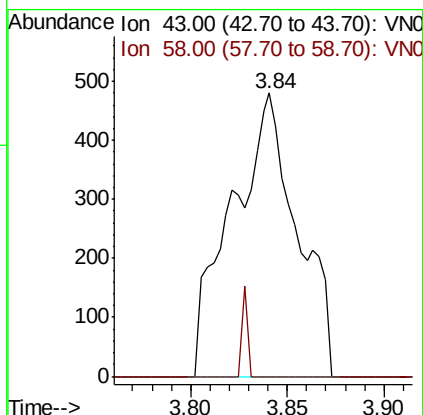
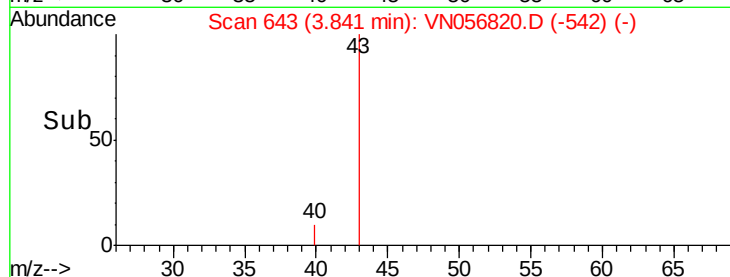
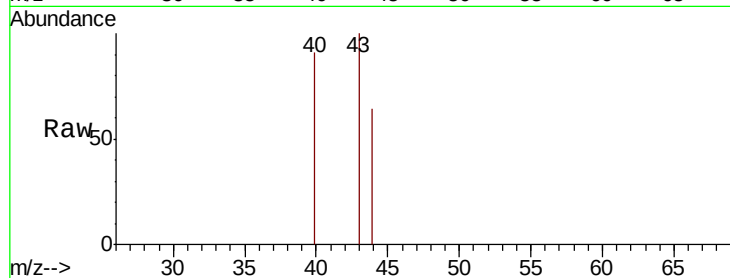
ClientSampleId :

Tot Ion: 43 Resp: 1131

Ion Ratio Lower Upper

43 100

58 0.0 26.7 40.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056820.D

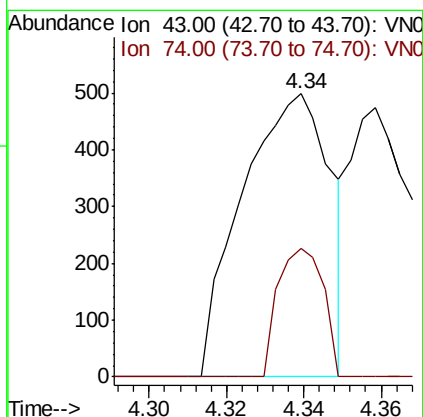
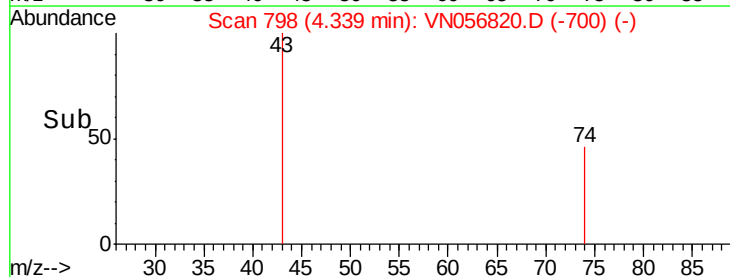
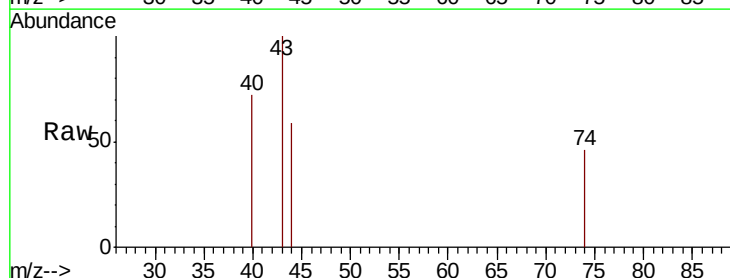
Acq: 19 Jul 2019 10:38

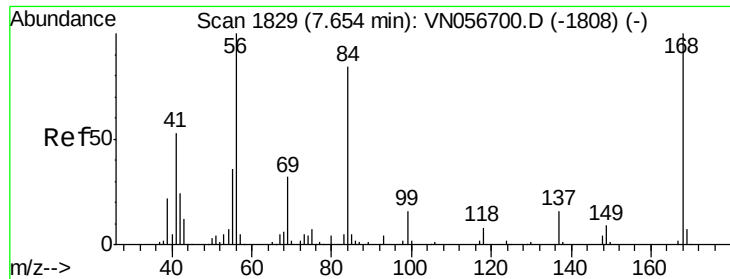
Tgt Ion: 43 Resp: 789

Ion Ratio Lower Upper

43 100

74 23.3 18.9 28.3

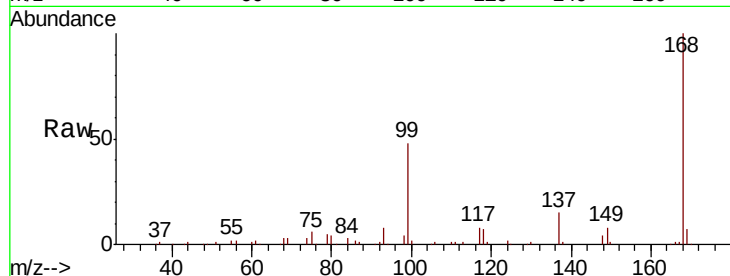




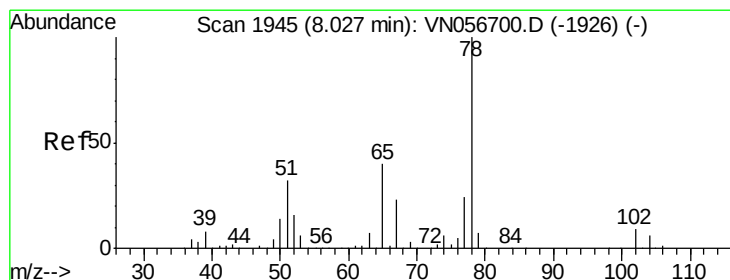
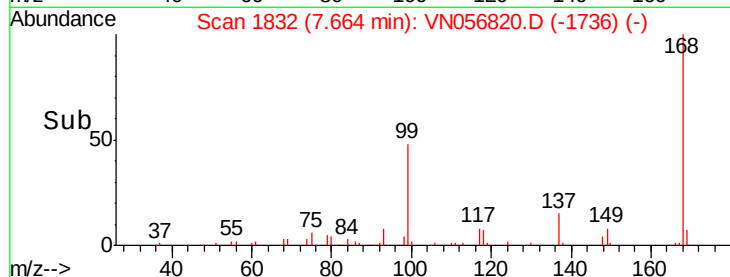
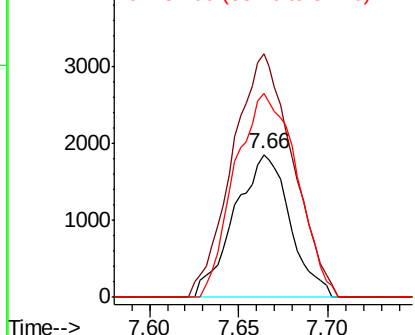
#31
Cyclohexane
Concen: 0.947 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056820.D
Acq: 19 Jul 2019 10:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4029
Ion Ratio Lower Upper
56 100
69 170.4 25.8 38.8#
84 142.6 67.4 101.0#

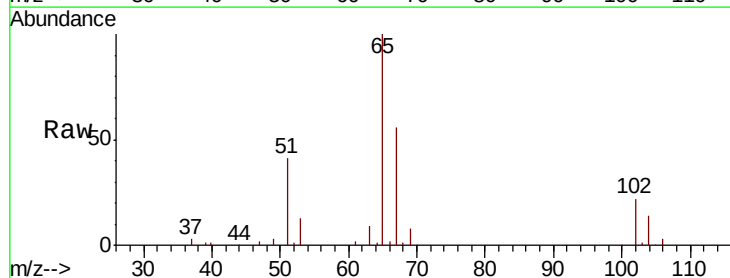


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

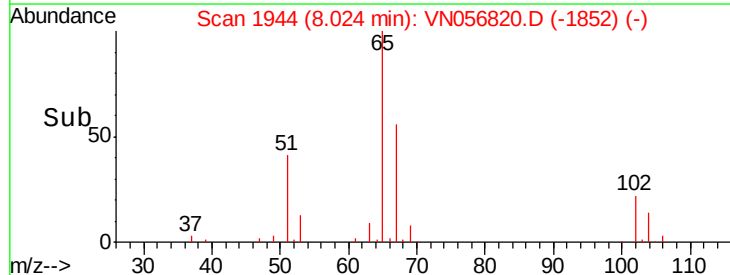
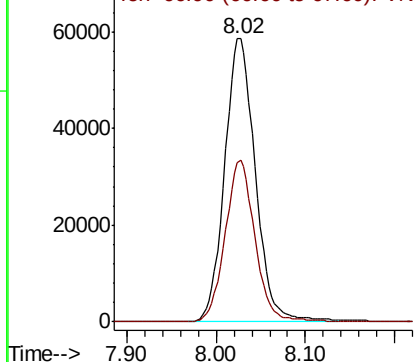


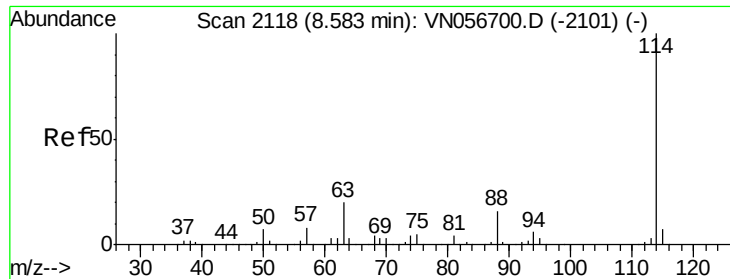
#33
1,2-Dichloroethane-d4
Concen: 52.479 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN056820.D
Acq: 19 Jul 2019 10:38

Tgt Ion: 65 Resp: 139711
Ion Ratio Lower Upper
65 100
67 55.4 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

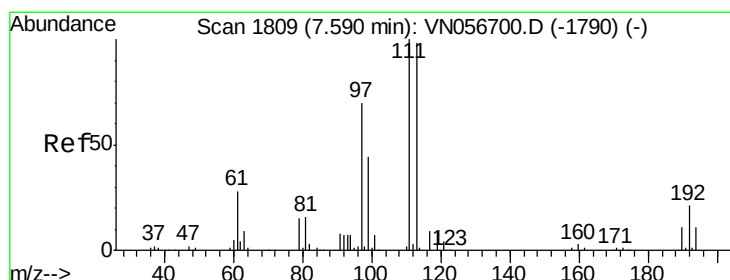
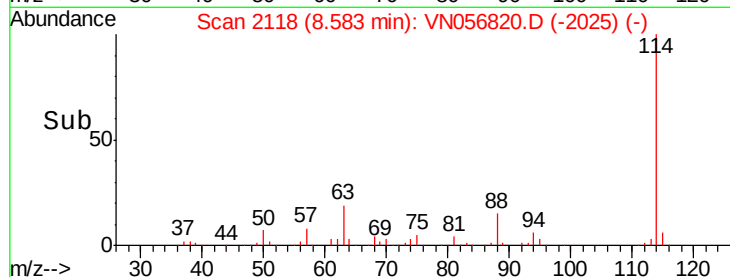
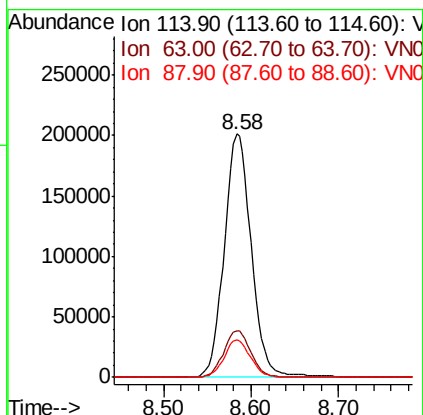
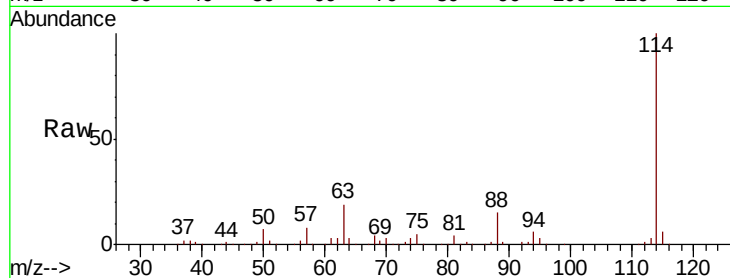




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056820.D
 Acq: 19 Jul 2019 10:38

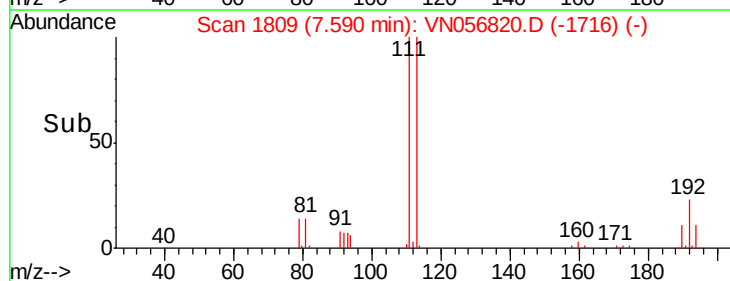
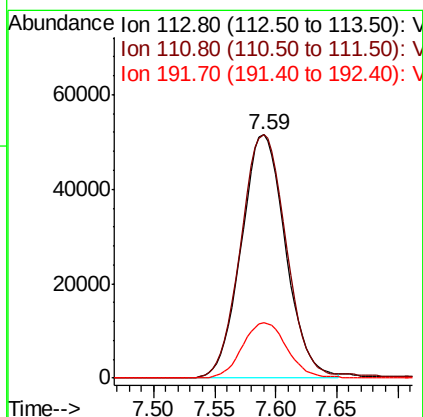
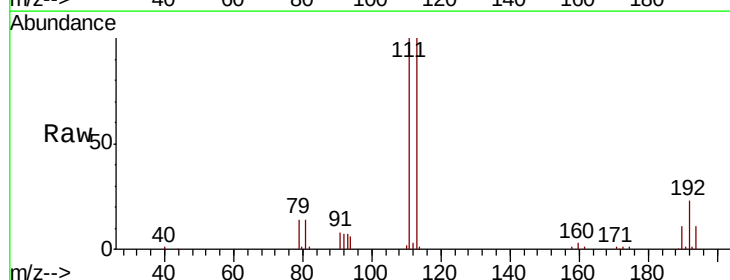
Instrument :
 MSVOA_N
 ClientSampled :

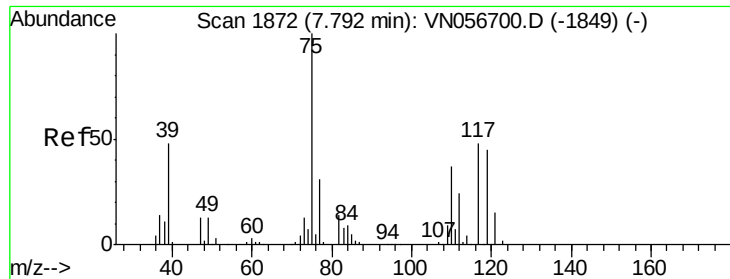
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.4
88	15.2	0.0	31.2



#35
 Dibromofluoromethane
 Concen: 48.111 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056820.D
 Acq: 19 Jul 2019 10:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.8	122.6
192	23.0	17.5	26.3

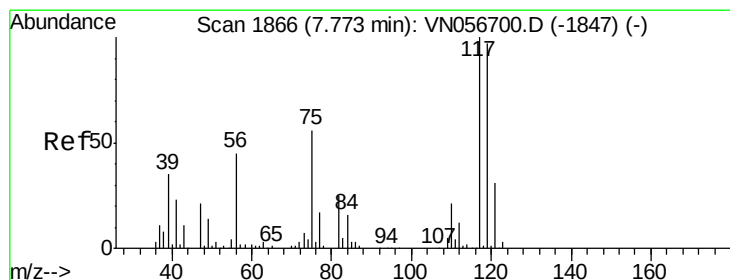
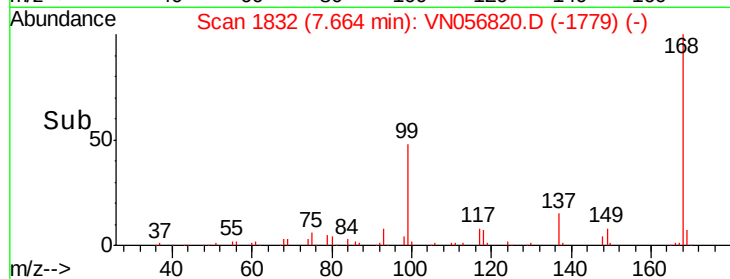
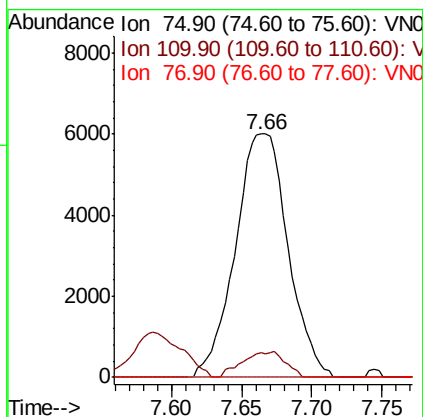
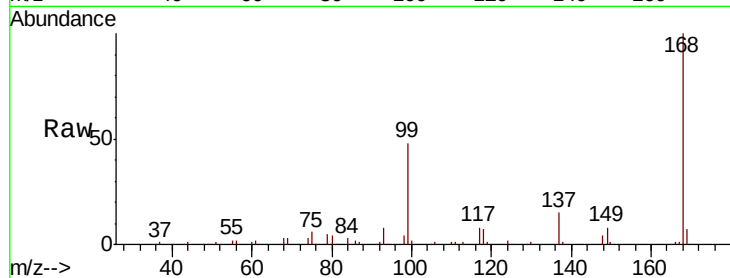




#36
 1,1-Dichloropropene
 Concen: 3.914 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056820.D
 Acq: 19 Jul 2019 10:38

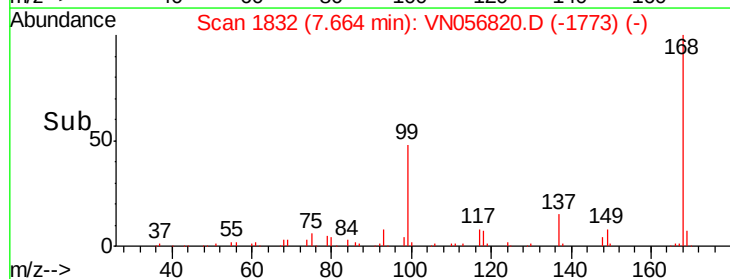
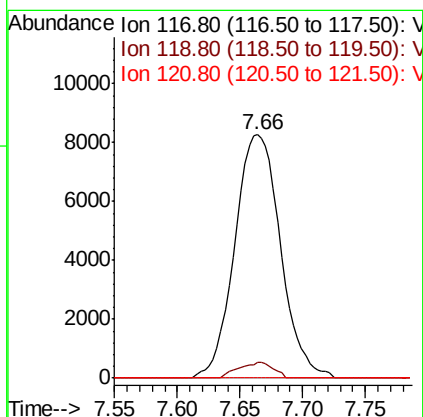
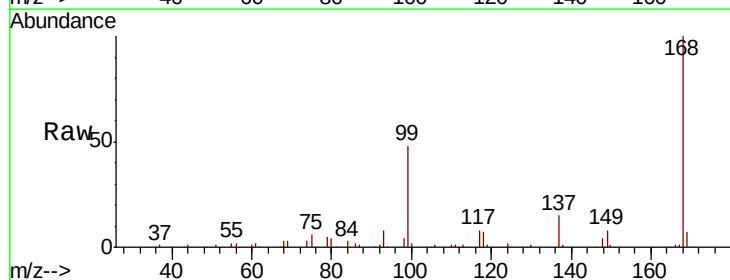
Instrument :
 MSVOA_N
 ClientSampleId :

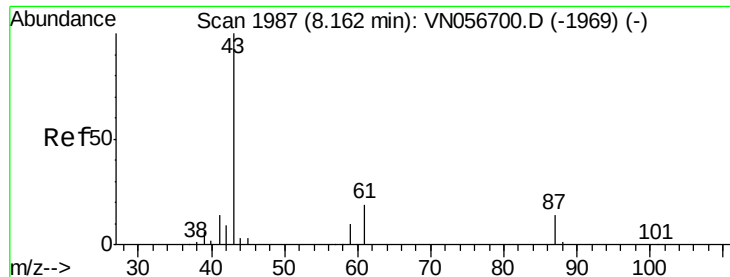
Tot Ion	75	Resp	15656
Ion Ratio	Lower	Upper	
75	100		
110	8.7	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.585 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056820.D
 Acq: 19 Jul 2019 10:38

Tgt Ion	117	Resp	20948
Ion Ratio	Lower	Upper	
117	100		
119	6.3	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 1.697 ug/l

RT: 8.29 min Scan# 2027

Delta R.T. 0.13 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

ClientSampled :

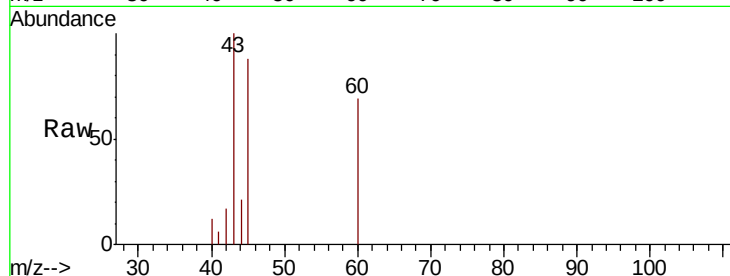
Tot Ion: 43 Resp: 10515

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

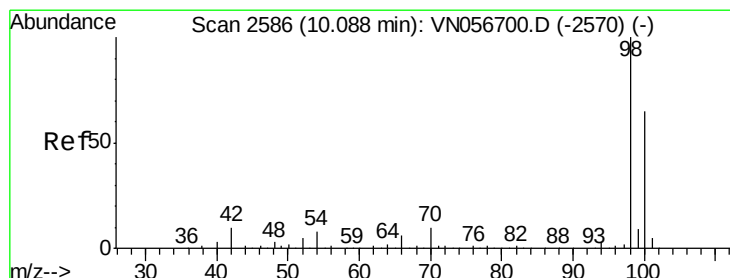
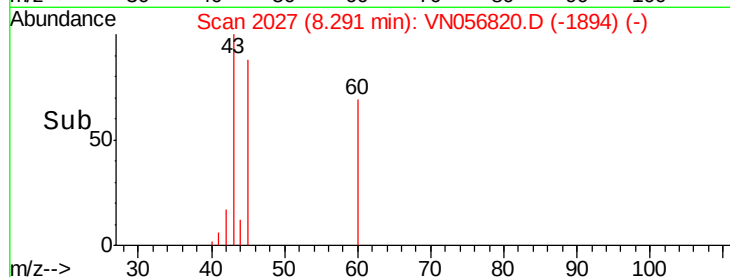
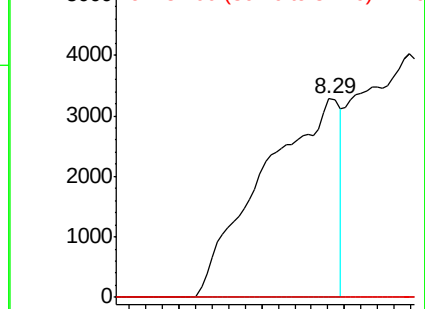
87 0.0 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VN056820.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN056820.D (-2027) (-)

Ion 87.00 (86.70 to 87.70): VN056820.D (-2027) (-)



#50

Toluene-d8

Concen: 51.558 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056820.D

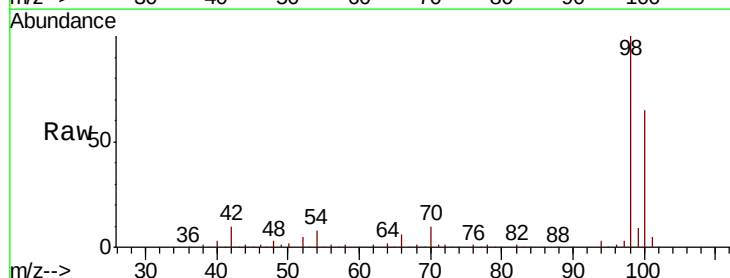
Acq: 19 Jul 2019 10:38

Tgt Ion: 98 Resp: 535653

Ion Ratio Lower Upper

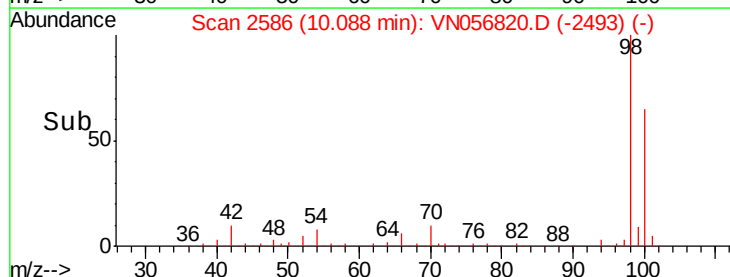
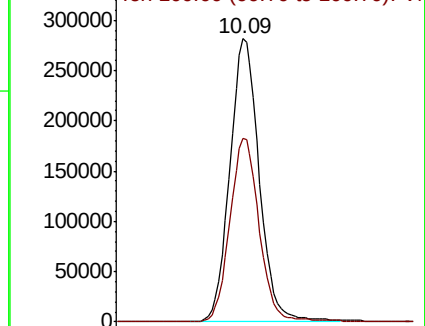
98 100

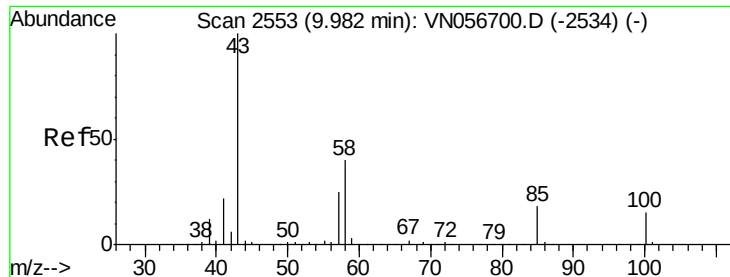
100 65.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056820.D (-2586) (-)

Ion 100.00 (99.70 to 100.70): VN056820.D (-2586) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.293 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

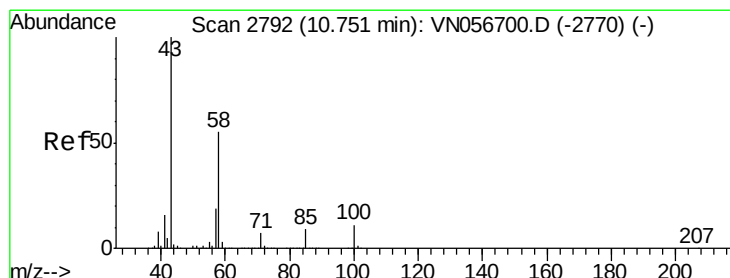
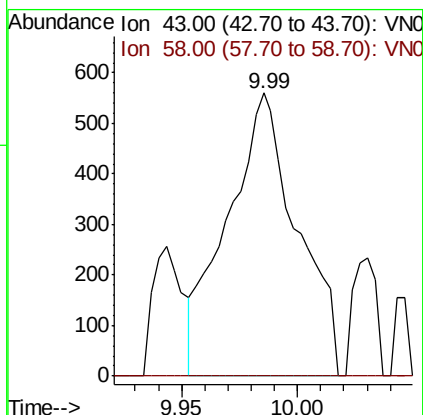
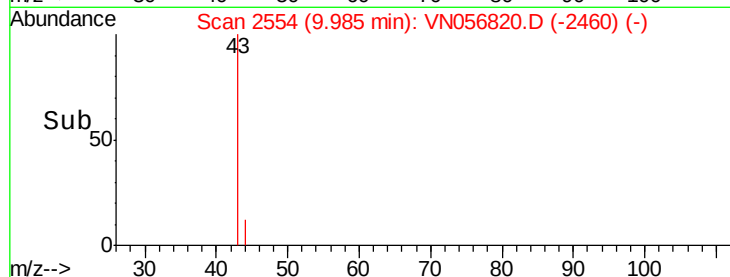
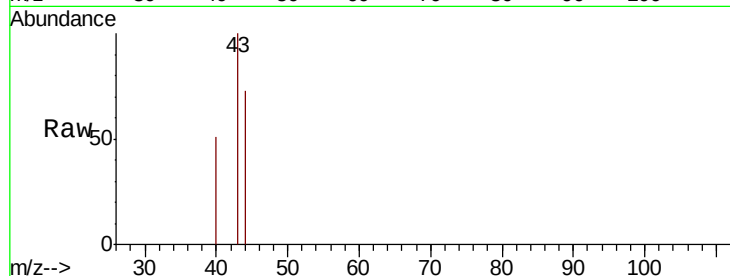
ClientSampled :

Tot Ion: 43 Resp: 1175

Ion Ratio Lower Upper

43 100

58 0.0 32.0 48.0#



#59

2-Hexanone

Concen: 0.448 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN056820.D

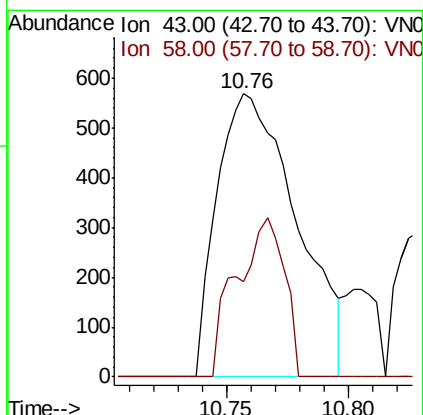
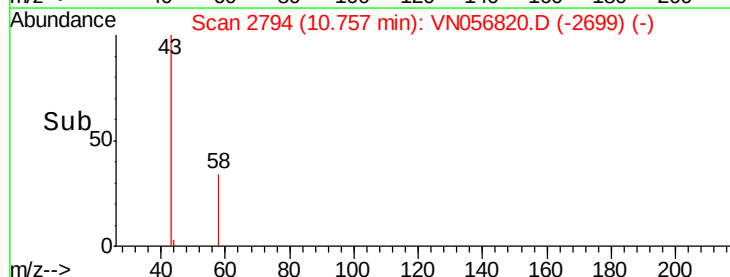
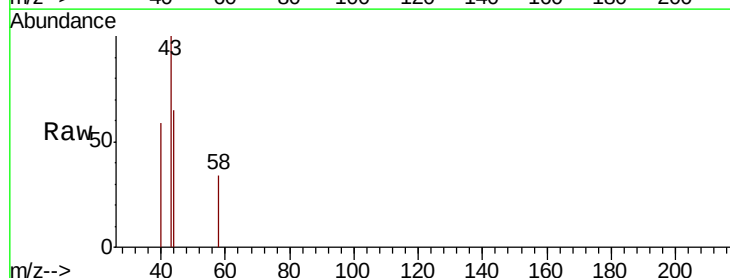
Acq: 19 Jul 2019 10:38

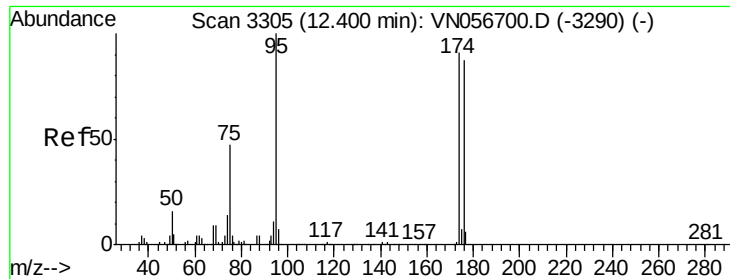
Tgt Ion: 43 Resp: 1290

Ion Ratio Lower Upper

43 100

58 33.7 27.9 83.6

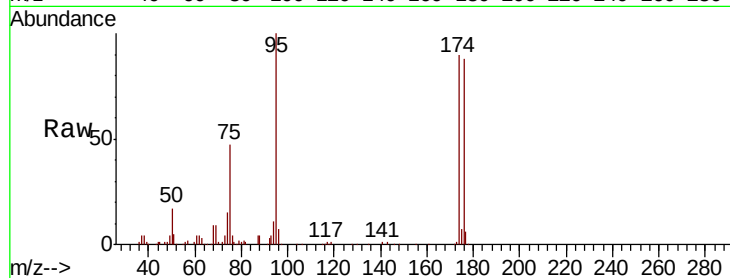




#62
4-Bromofluorobenzene
Concen: 52.776 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056820.D
Acq: 19 Jul 2019 10:38

Instrument :
MSVOA_N
ClientSampled :

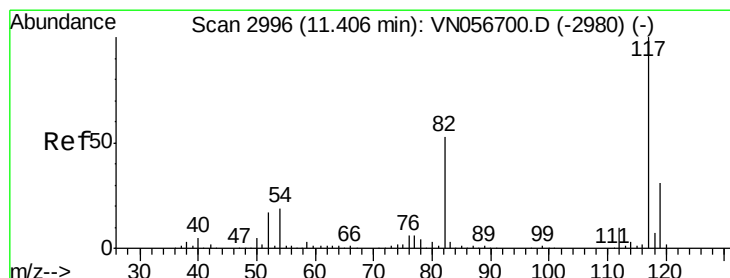
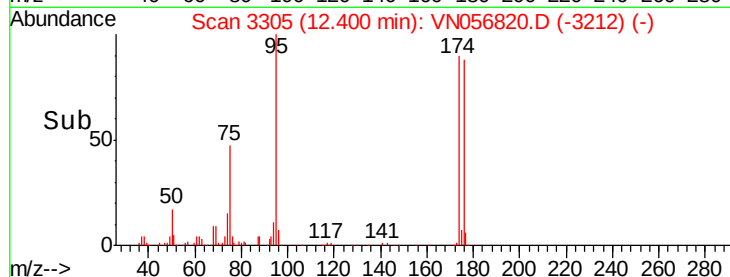
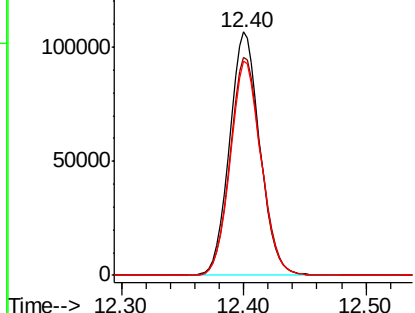
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	180.0
176	89.0	0.0	173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056700.D (-3290) (-)

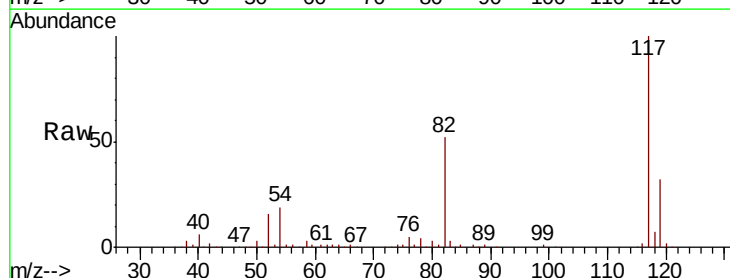
Ion 173.80 (173.50 to 174.50): VN056700.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN056700.D (-3290) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056820.D
Acq: 19 Jul 2019 10:38

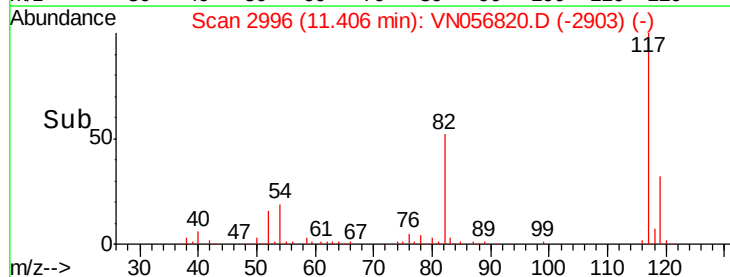
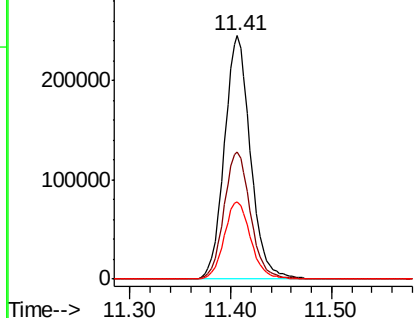
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.2	63.2
119	31.9	25.2	37.8

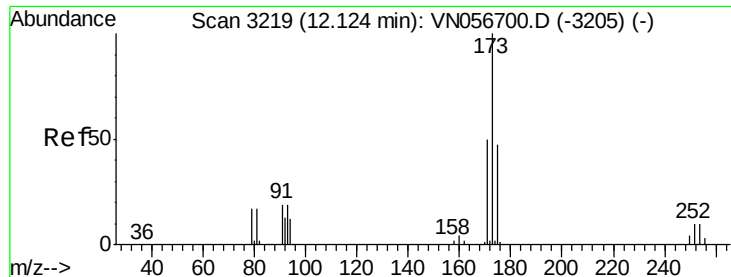


Abundance Ion 116.90 (116.60 to 117.60): VN056700.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN056700.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN056700.D (-2980) (-)





#71

Bromoform

Concen: 0.626 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

ClientSampleId :

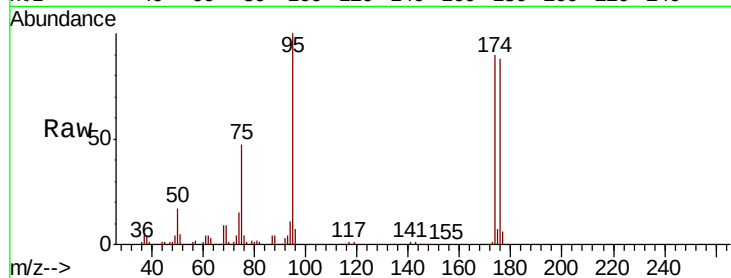
Tot Ion:173 Resp: 1584

Ion Ratio Lower Upper

173 100

175 644.8 23.8 71.4#

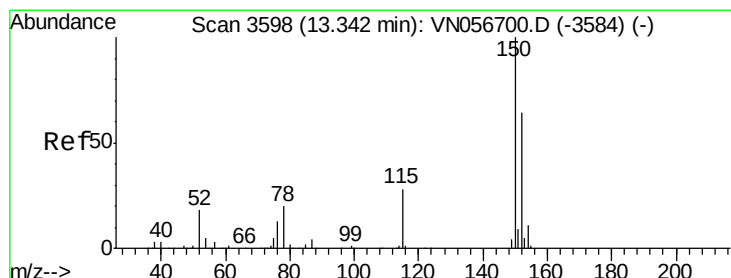
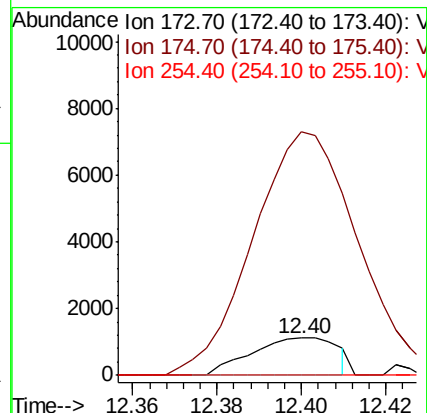
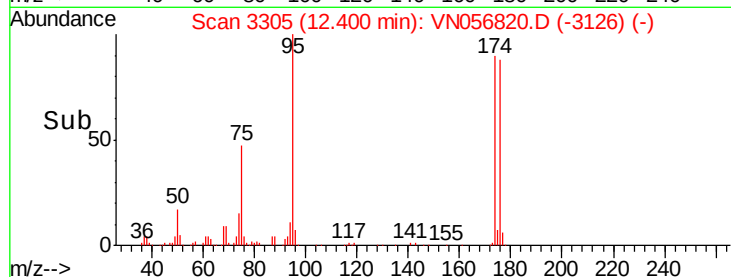
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

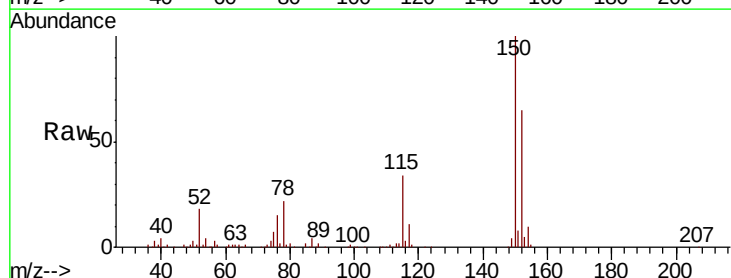
Tgt Ion:152 Resp: 147574

Ion Ratio Lower Upper

152 100

115 52.5 28.2 84.7

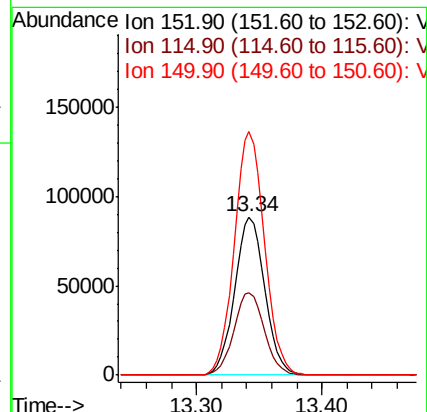
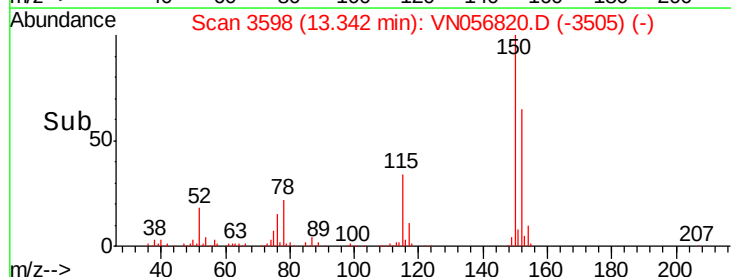
150 153.9 0.0 345.8

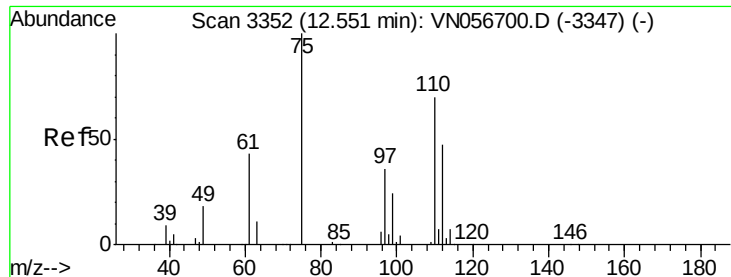


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.351 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

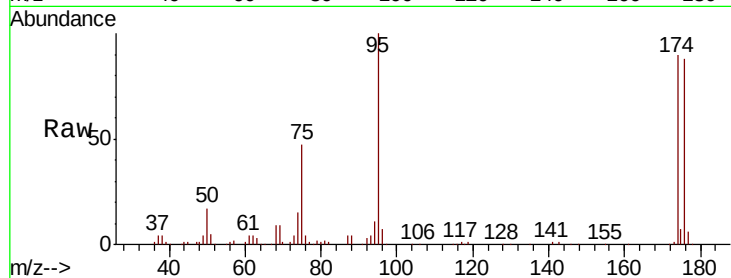
ClientSampled :

Tot Ion: 75 Resp: 85053

Ion Ratio Lower Upper

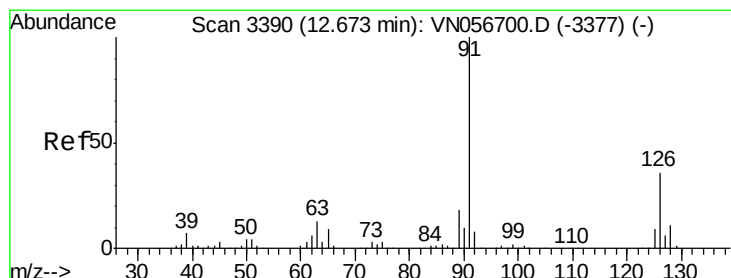
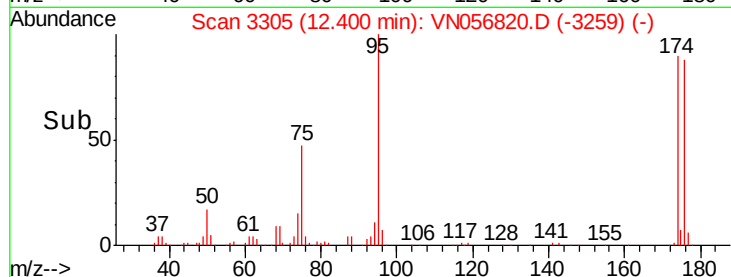
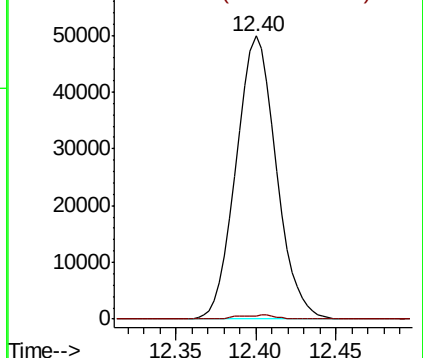
75 100

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: VN056820.D

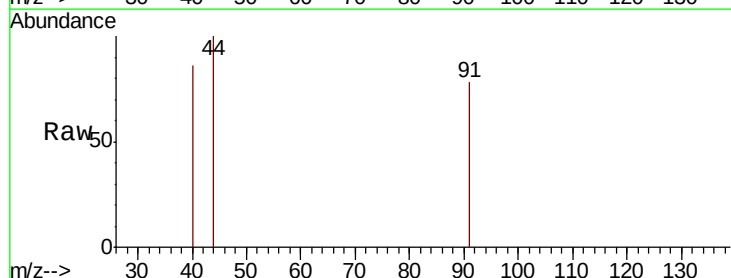
Acq: 19 Jul 2019 10:38

Tgt Ion: 91 Resp: 559

Ion Ratio Lower Upper

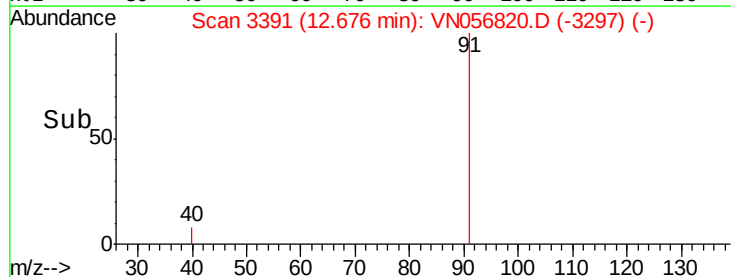
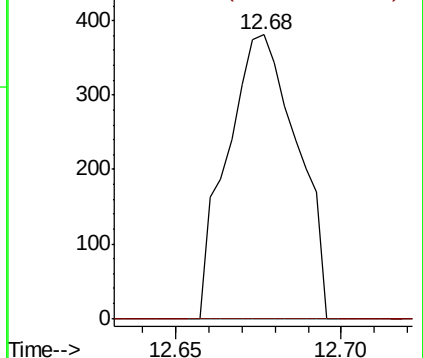
91 100

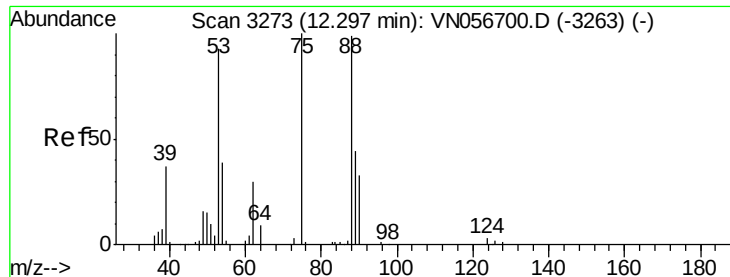
126 0.0 17.9 53.7#



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: 81.381 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

ClientSampleId :

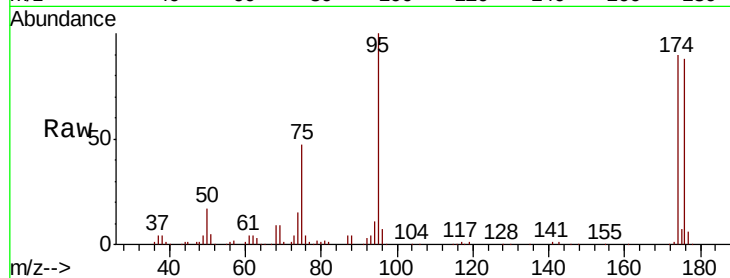
Tot Ion: 75 Resp: 85053

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

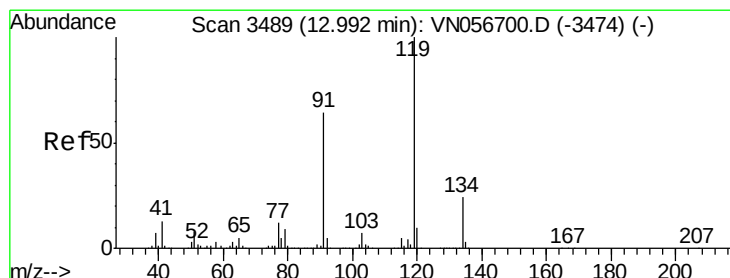
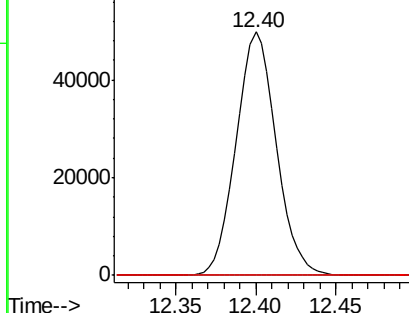
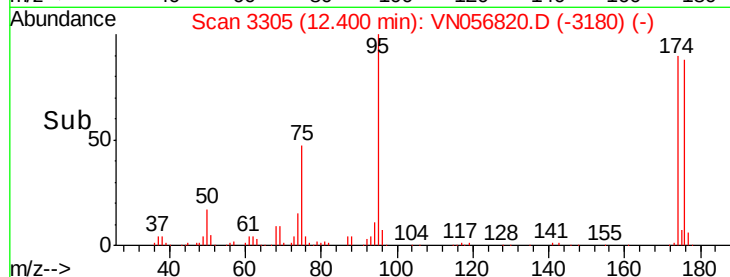
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN056820.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN056820.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN056820.D (-3180) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

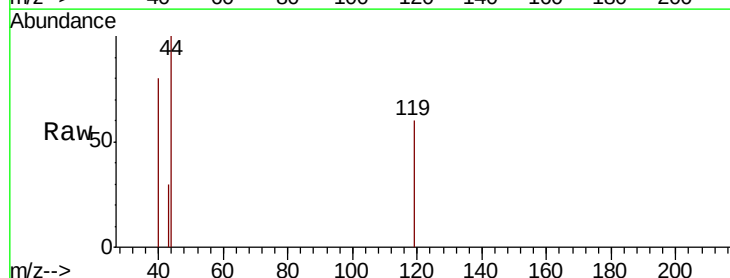
Tgt Ion: 119 Resp: 347

Ion Ratio Lower Upper

119 100

91 0.0 31.8 95.4#

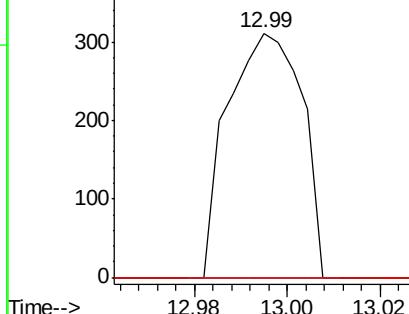
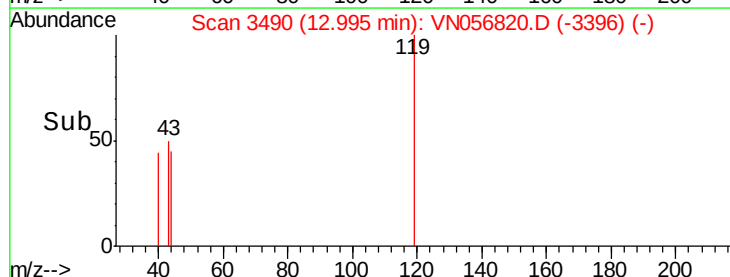
134 0.0 13.0 38.9#

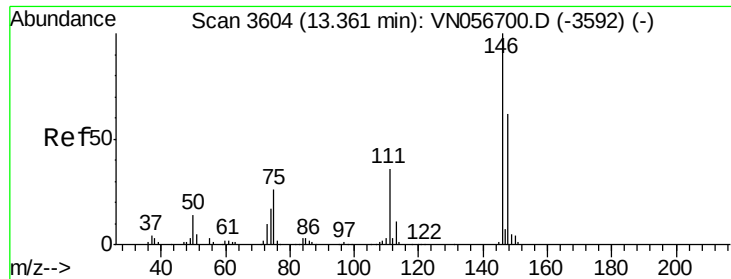


Abundance Ion 119.00 (118.70 to 119.70): VN056820.D (-3396) (-)

Ion 91.00 (90.70 to 91.70): VN056820.D (-3396) (-)

Ion 134.00 (133.70 to 134.70): VN056820.D (-3396) (-)





#88

1,4-Dichlorobenzene

Concen: 0.210 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN056820.D

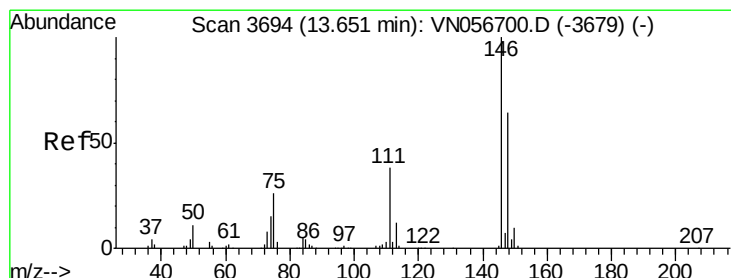
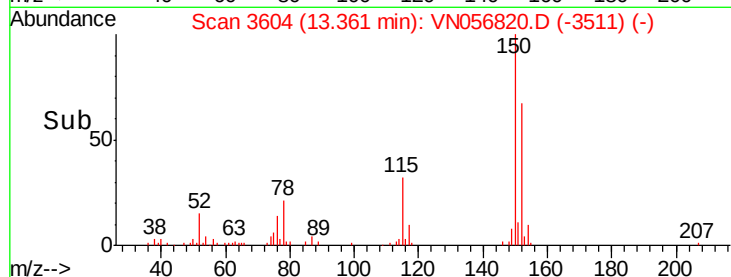
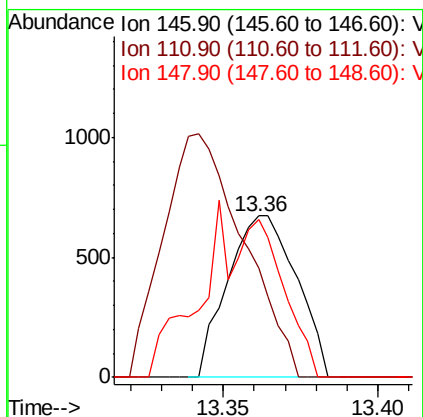
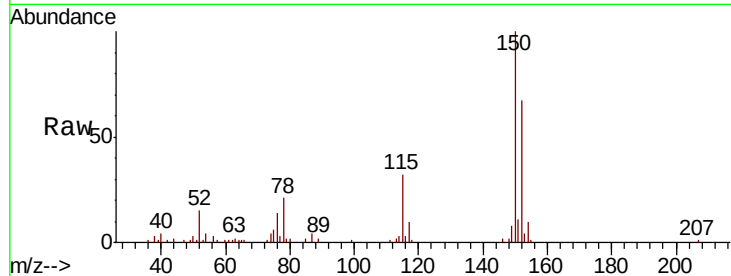
Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:146	Resp:	1040
Ion Ratio	Lower	Upper
146	100	
111	0.0	18.6 55.8#
148	55.4	31.9 95.7



#91

1,2-Dichlorobenzene

Concen: 0.213 ug/l

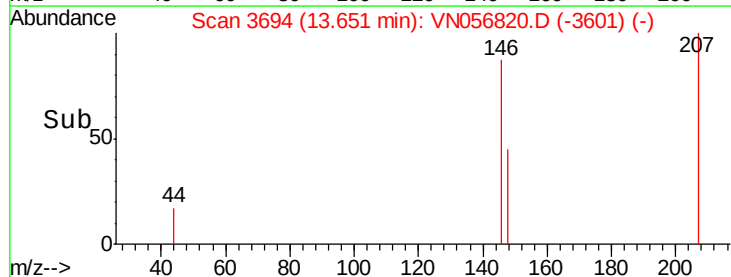
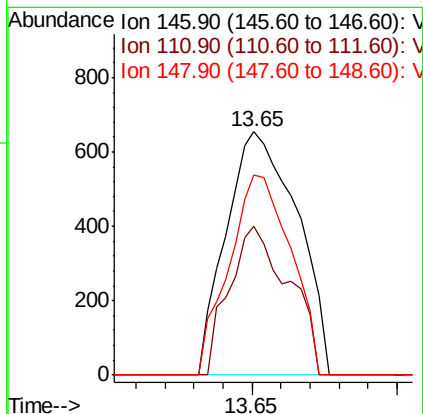
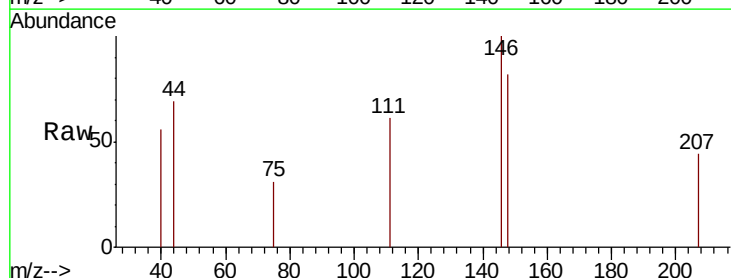
RT: 13.65 min Scan# 3694

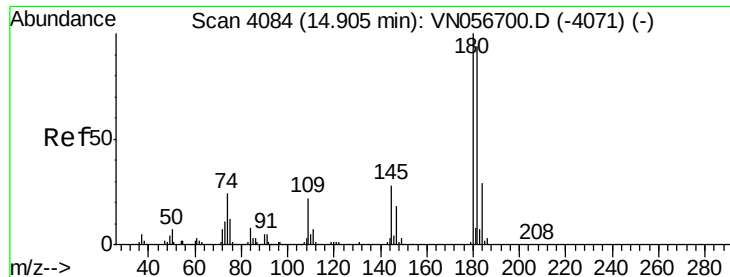
Delta R.T. -0.00 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Tgt Ion:146	Resp:	1110
Ion Ratio	Lower	Upper
146	100	
111	51.4	19.1 57.1
148	71.8	31.7 95.1

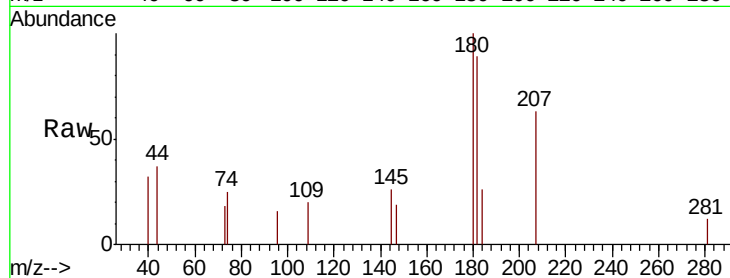




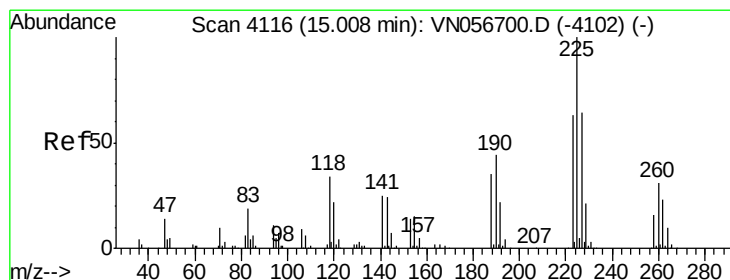
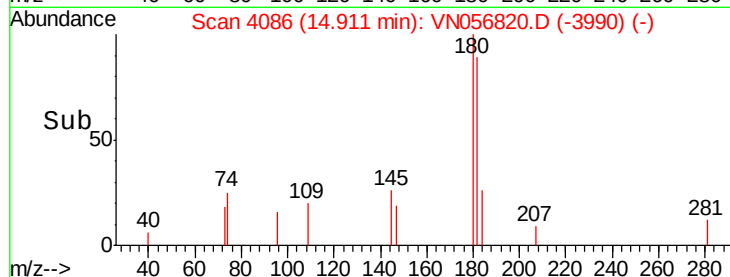
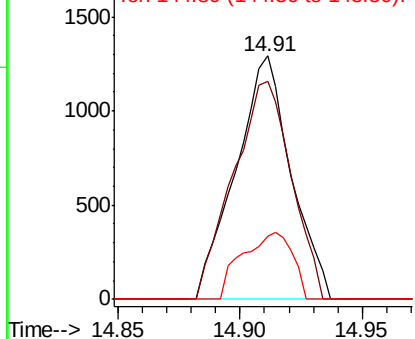
#93
 1,2,4-Trichlorobenzene
 Concen: 4.342 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056820.D
 Acq: 19 Jul 2019 10:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 2024
 Ion Ratio Lower Upper
 180 100
 182 94.5 47.2 141.6
 145 25.1 14.2 42.8

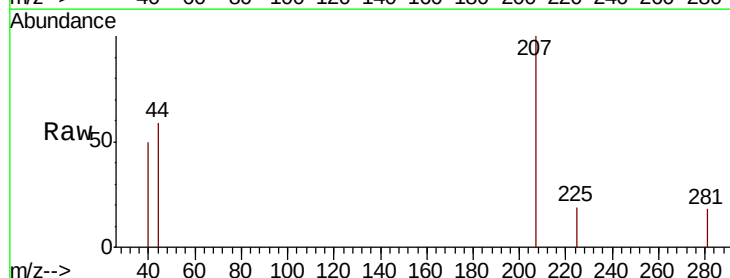


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

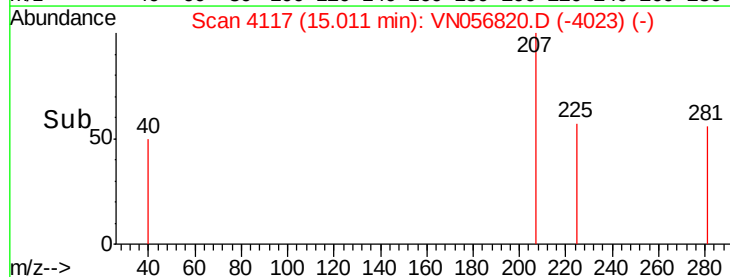
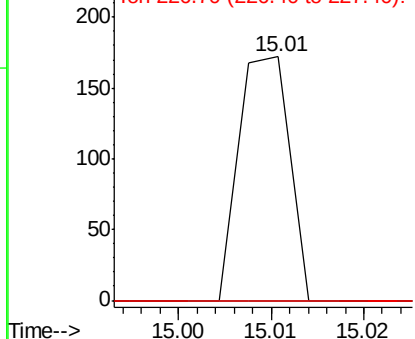


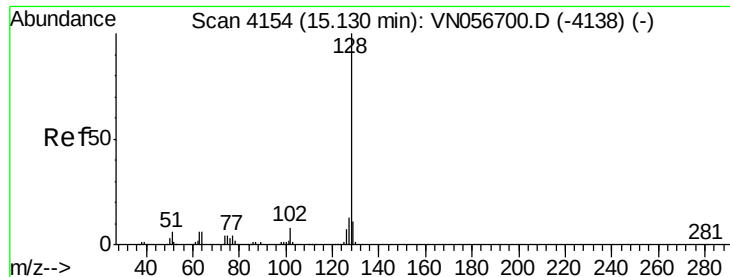
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056820.D
 Acq: 19 Jul 2019 10:38

Tgt Ion:225 Resp: 66
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.5 94.5#
 227 0.0 32.0 96.2#



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.091 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

Instrument :

MSVOA_N

ClientSampleId :

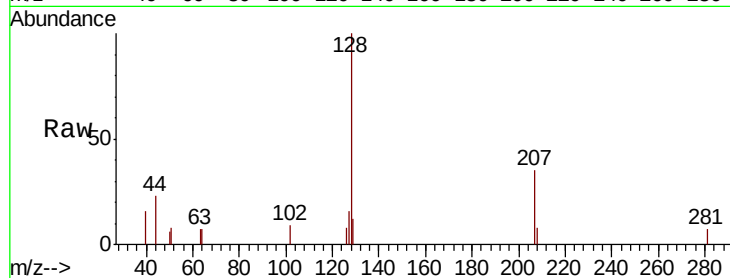
Tot Ion:128 Resp: 4912

Ion Ratio Lower Upper

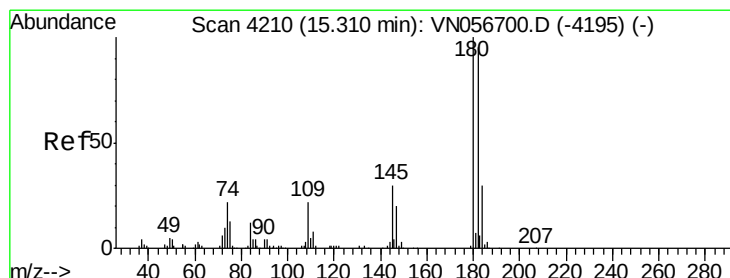
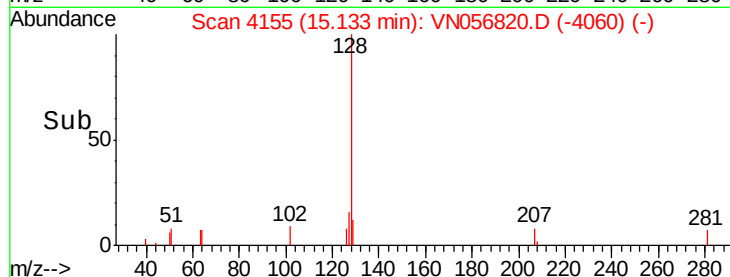
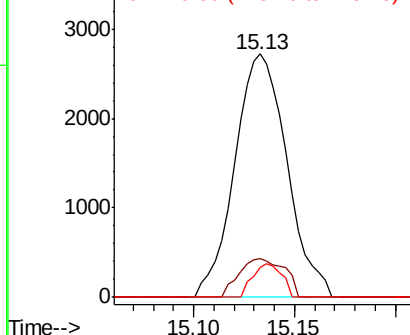
128 100

127 13.9 10.3 15.5

129 7.7 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: 4.216 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056820.D

Acq: 19 Jul 2019 10:38

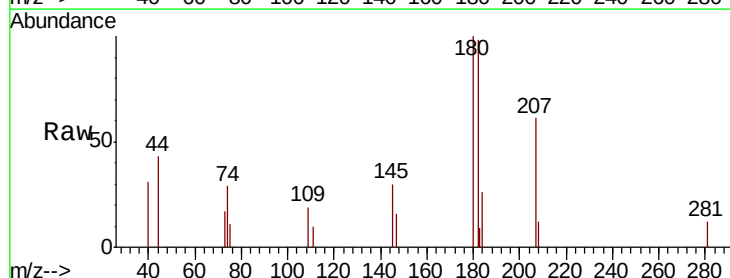
Tgt Ion:180 Resp: 2737

Ion Ratio Lower Upper

180 100

182 107.6 47.1 141.3

145 26.5 15.0 45.1



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

