

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056715.D
 Acq On : 15 Jul 2019 16:26
 Operator : JC/SP
 Sample : PB121354TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354TB

Quant Time: Jul 16 04:23:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	270190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	475782	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	504305	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	197661	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	159058	53.22	ug/l	0.00
Spiked Amount						
			Recovery	=	106.44%	
35) Dibromofluoromethane	7.59	113	142626	48.17	ug/l	0.00
Spiked Amount						
			Recovery	=	96.34%	
50) Toluene-d8	10.09	98	604792	52.89	ug/l	0.00
Spiked Amount						
			Recovery	=	105.78%	
62) 4-Bromofluorobenzene	12.40	95	225182	58.39	ug/l	0.00
Spiked Amount						
			Recovery	=	116.78%	

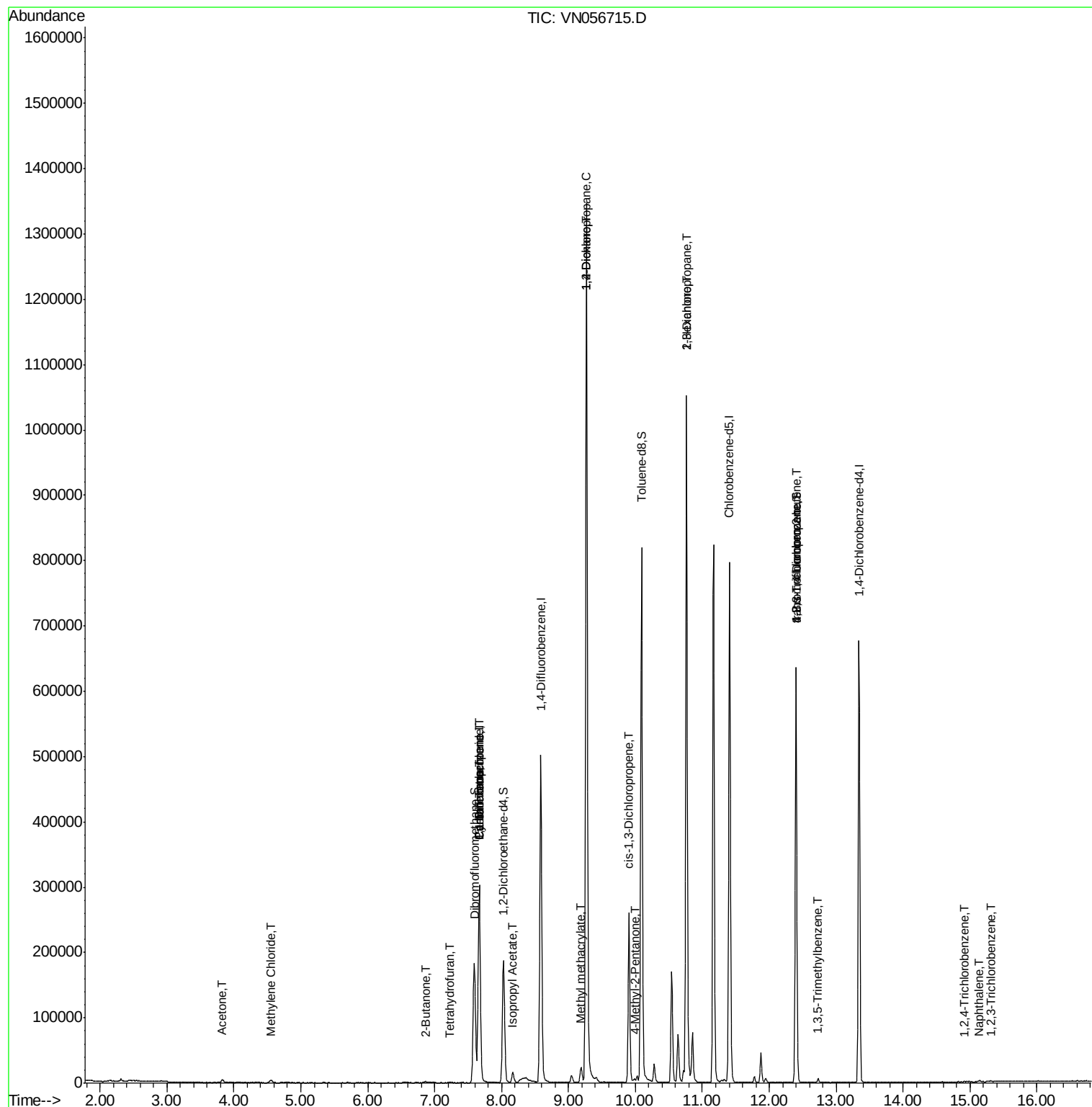
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	8509	6.178	ug/l	99
18) Methyl Acetate	4.34	43	1560	Below Cal	#	52
20) Methylene Chloride	4.54	84	2745	0.912	ug/l	89
25) 2-Butanone	6.85	43	4488	2.229	ug/l #	87
29) Tetrahydrofuran	7.23	42	980	0.746	ug/l #	35
31) Cyclohexane	7.67	56	4193	0.878	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	17585	3.994	ug/l #	49
38) Carbon Tetrachloride	7.67	117	23341	5.653	ug/l #	17
43) Isopropyl Acetate	8.17	43	19262	2.824	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1561	0.435	ug/l #	45
48) Methyl methacrylate	9.18	41	8917	2.703	ug/l #	13
49) 1,4-Dioxane	9.27	88	62	0.916	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3931	0.890	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	49755	9.736	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	10797	1.967	ug/l #	42
59) 2-Hexanone	10.76	43	153238	48.335	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	103372	23.911	ug/l #	100
79) 2-Chlorotoluene	12.68	91	187	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	3918	0.290	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	103372	73.846	ug/l #	13
83) tert-Butylbenzene	12.99	119	114	Below Cal	#	27
93) 1,2,4-Trichlorobenzene	14.90	180	652	3.848	ug/l #	39
95) Naphthalene	15.13	128	2049	4.702	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.32	180	867	3.534	ug/l #	89

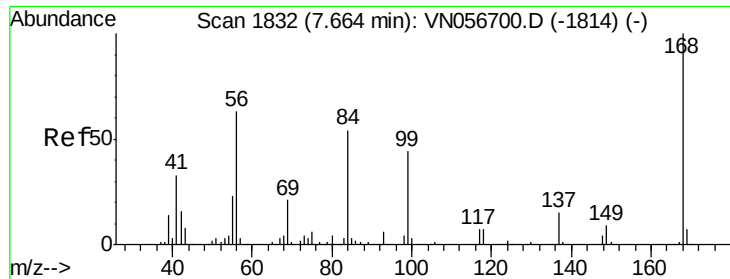
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 16 04:23:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 01:25:25 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: VN056715.D

Acq: 15 Jul 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

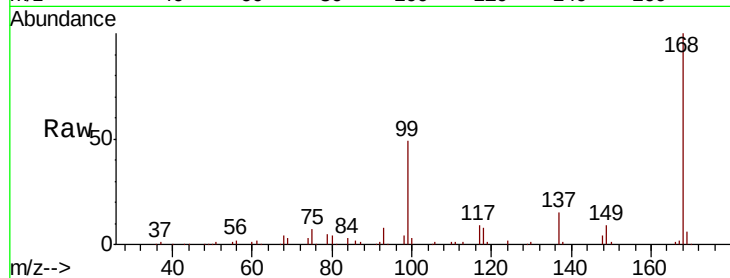
PB121354TB

Tot Ion:168 Resp: 270190

Ion Ratio Lower Upper

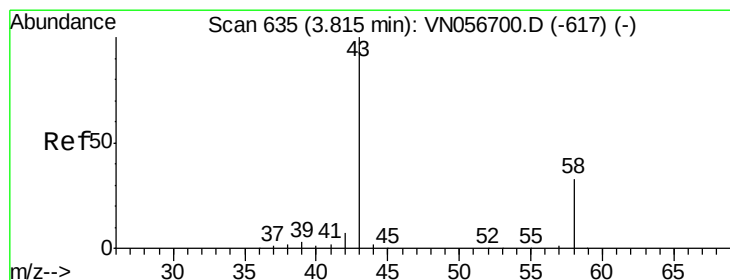
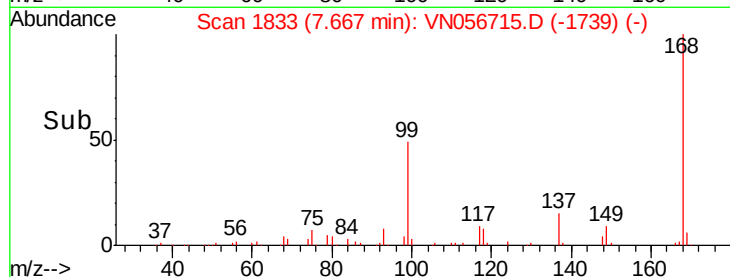
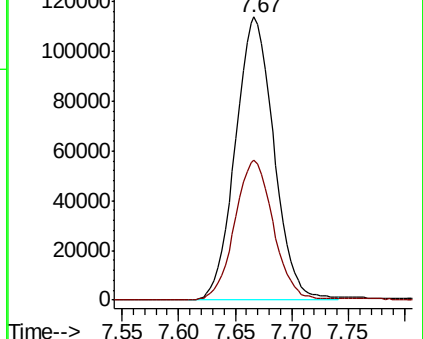
168 100

99 49.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 6.178 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056715.D

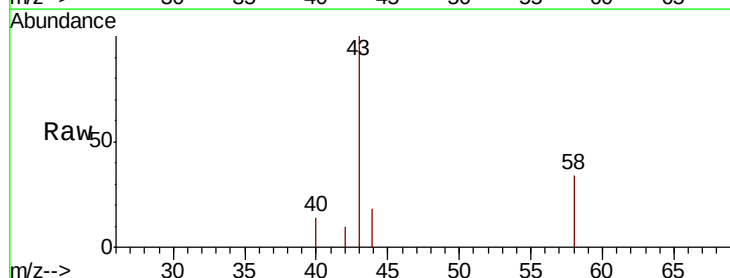
Acq: 15 Jul 2019 16:26

Tgt Ion: 43 Resp: 8509

Ion Ratio Lower Upper

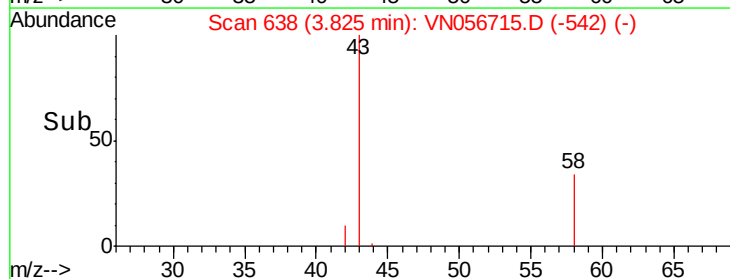
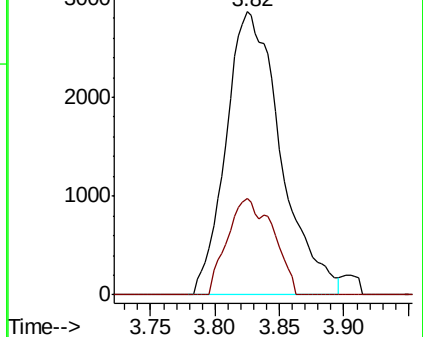
43 100

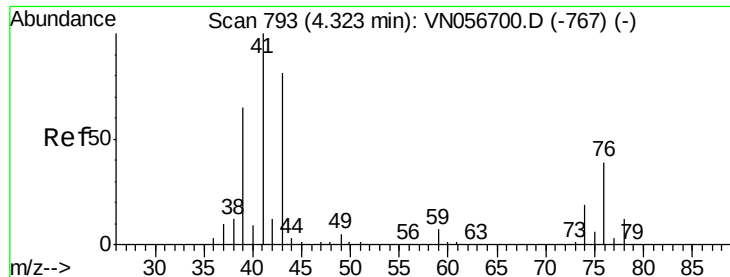
58 34.0 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

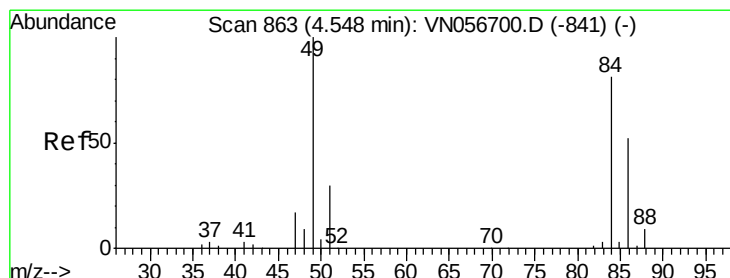
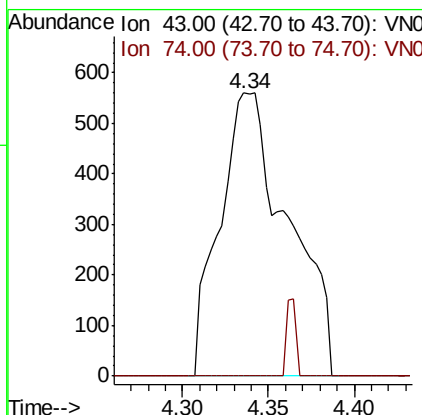
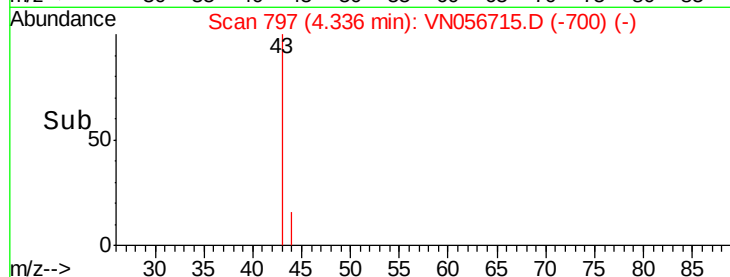
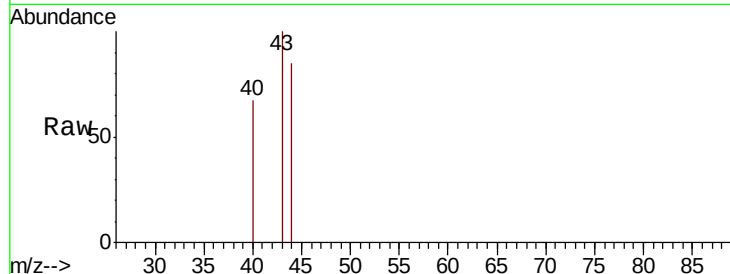




#18
Methvl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

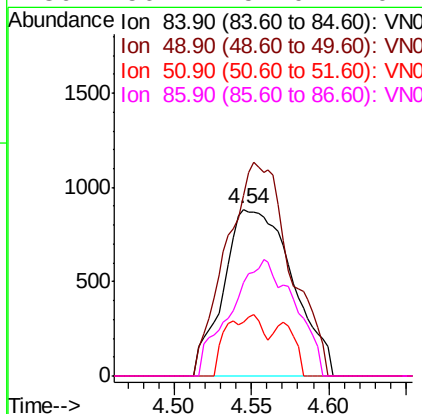
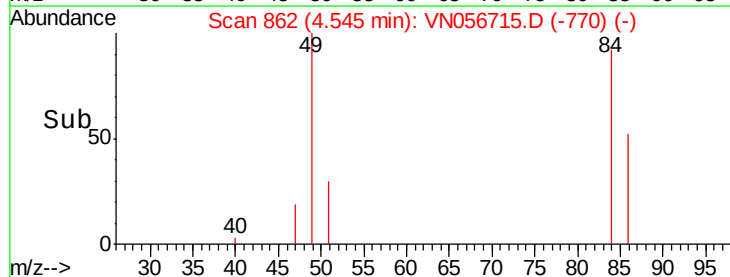
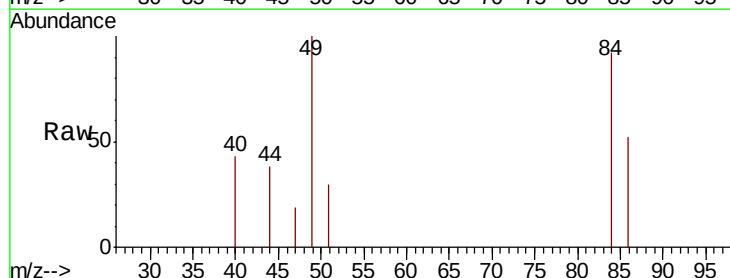
Instrument :
MSVOA_N
ClientSampleId :
PB121354TB

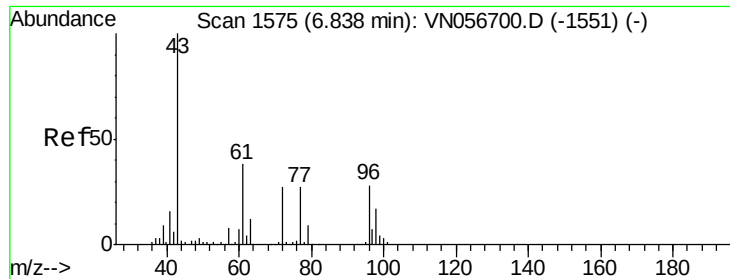
Tot Ion: 43 Resp: 1560
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#20
Methylene Chloride
Concen: 0.912 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Tgt Ion: 84 Resp: 2745
Ion Ratio Lower Upper
84 100
49 108.7 98.2 147.4
51 32.2 29.6 44.4
86 56.1 51.0 76.4

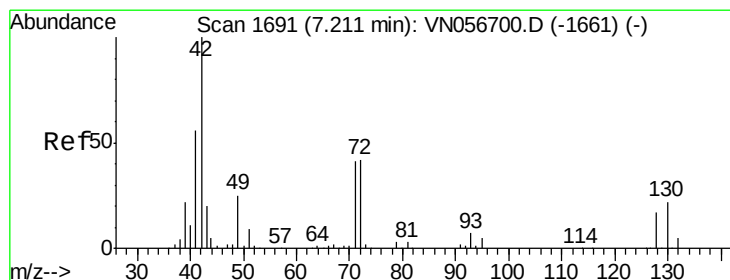
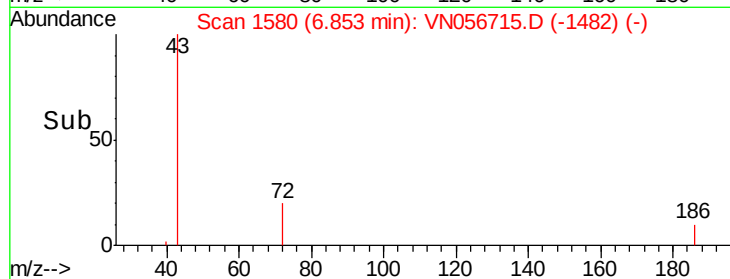
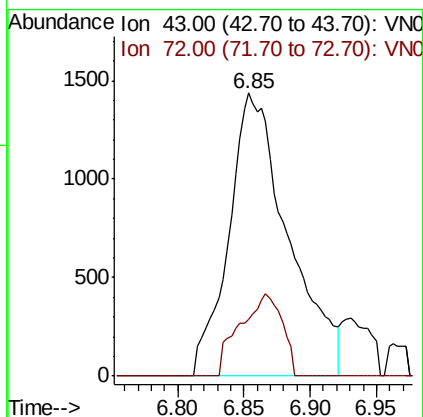
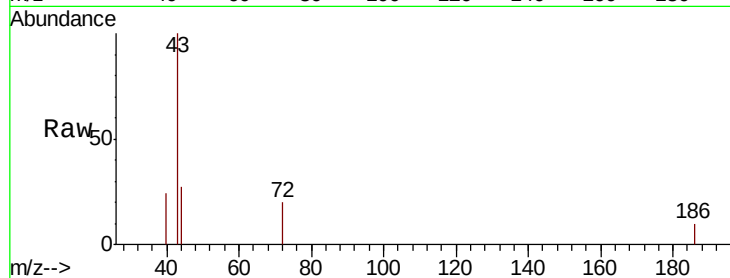




#25
2-Butanone
Concen: 2.229 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

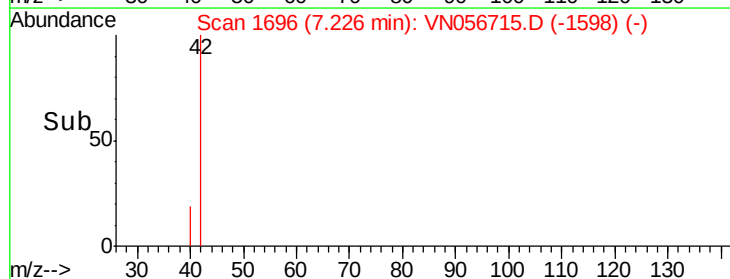
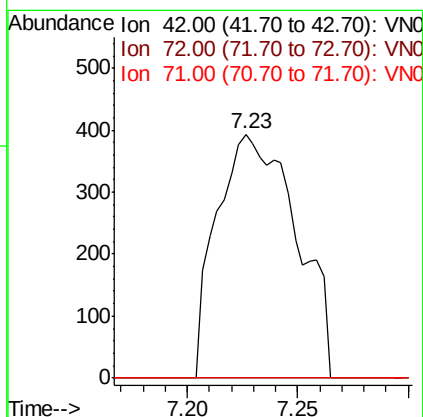
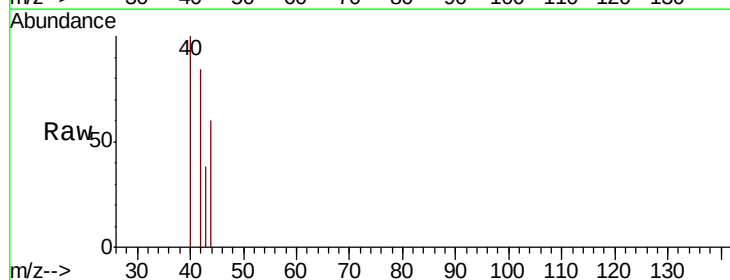
Instrument :
MSVOA_N
ClientSampled :
PB121354TB

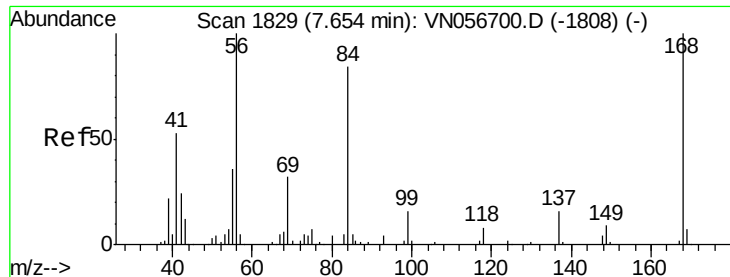
Tot Ion: 43 Resp: 4488
Ion Ratio Lower Upper
43 100
72 19.9 21.2 31.8#



#29
Tetrahydrofuran
Concen: 0.746 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Tgt Ion: 42 Resp: 980
Ion Ratio Lower Upper
42 100
72 0.0 33.5 50.3#
71 0.0 31.8 47.8#

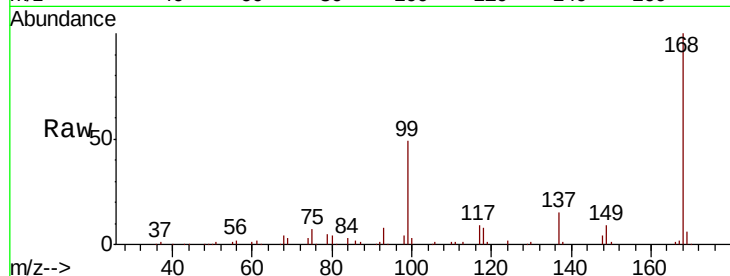




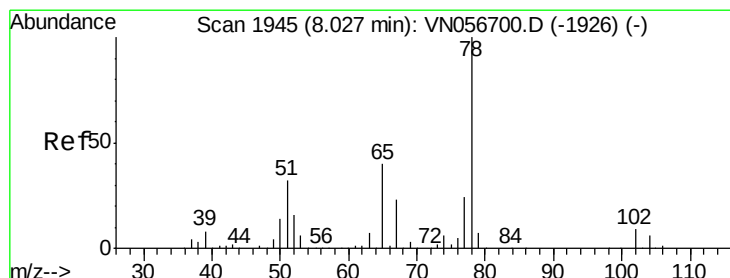
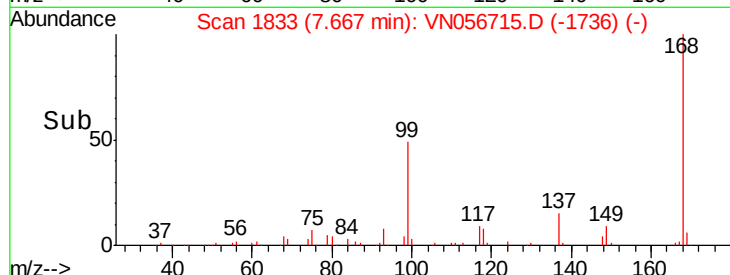
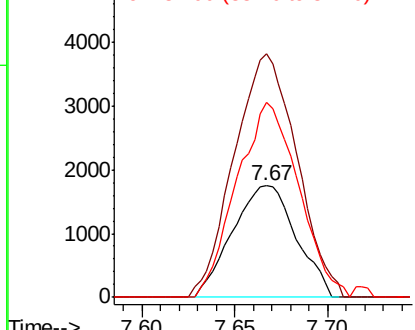
#31
Cyclohexane
Concen: 0.878 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Instrument :
MSVOA_N
ClientSampled :
PB121354TB

Tot Ion: 56 Resp: 4193
Ion Ratio Lower Upper
56 100
69 218.6 25.8 38.8#
84 175.1 67.4 101.0#

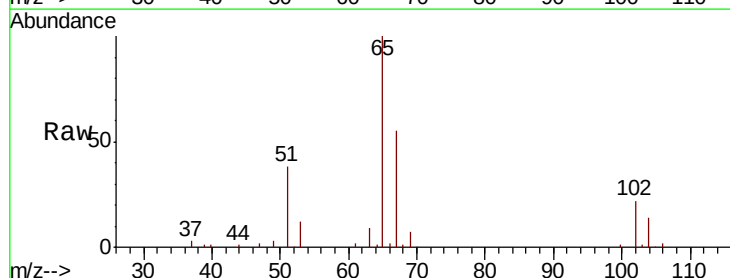


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

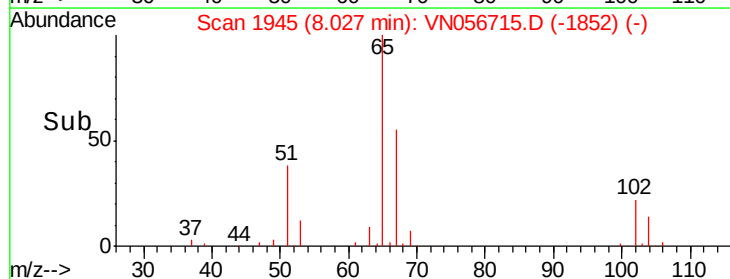
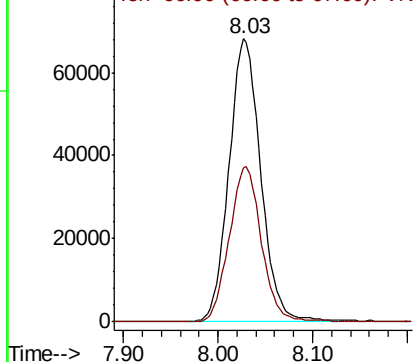


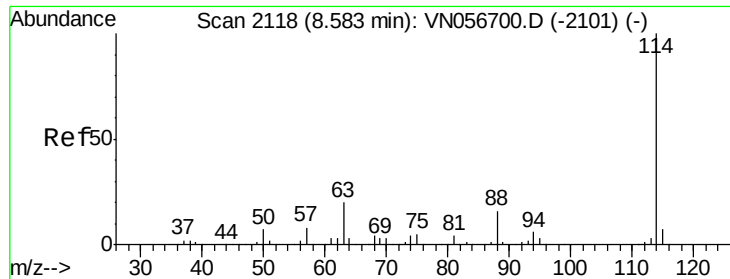
#33
1,2-Dichloroethane-d4
Concen: 53.220 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Tgt Ion: 65 Resp: 159058
Ion Ratio Lower Upper
65 100
67 55.1 0.0 109.0



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

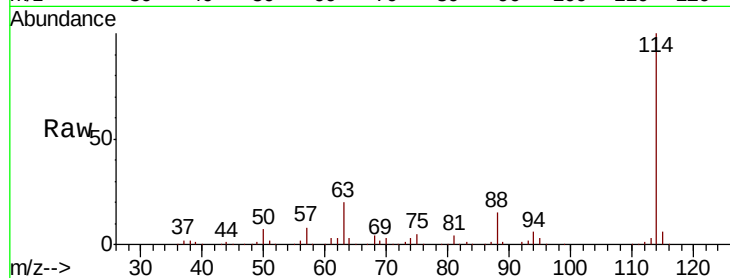




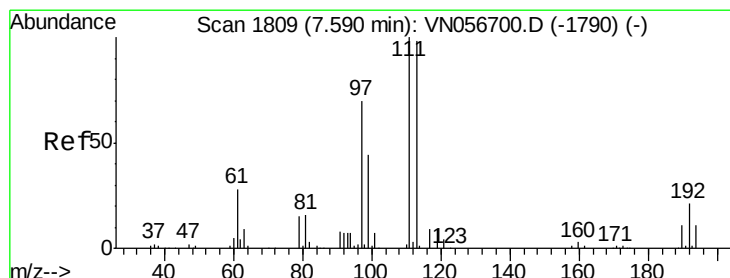
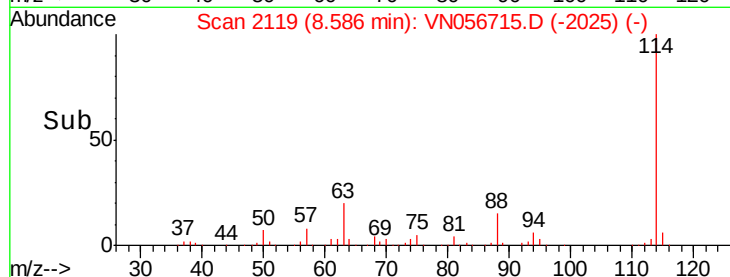
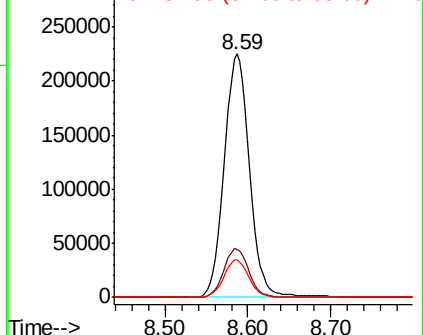
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354TB

Tot Ion:114 Resp: 475782
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.4
 88 15.3 0.0 31.2

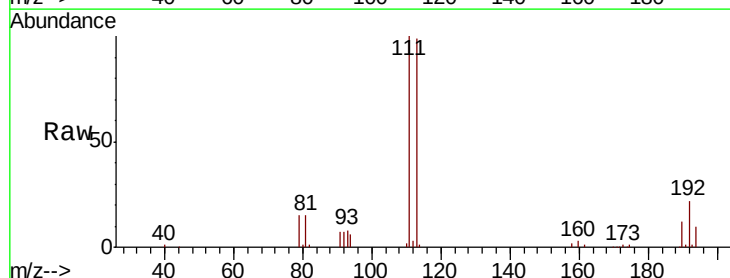


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

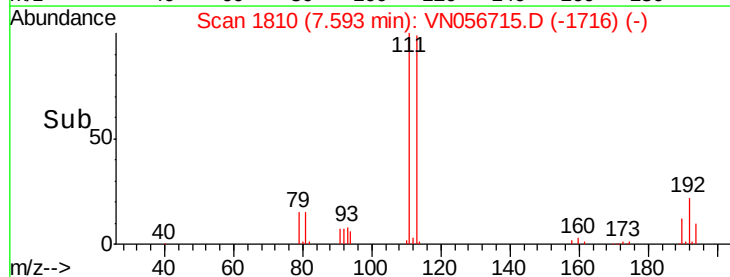
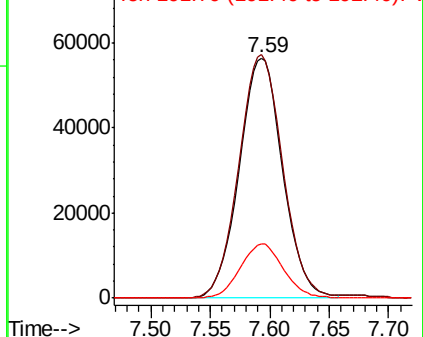


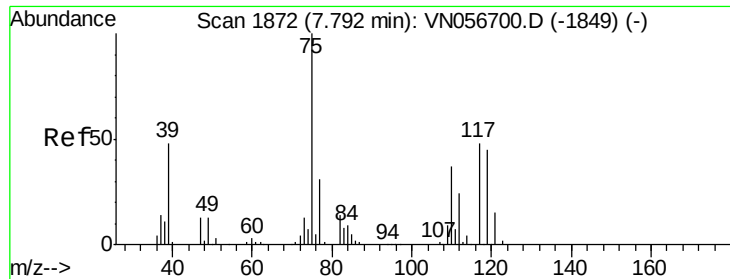
#35
 Dibromofluoromethane
 Concen: 48.170 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

Tgt Ion:113 Resp: 142626
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.8 122.6
 192 22.6 17.5 26.3



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

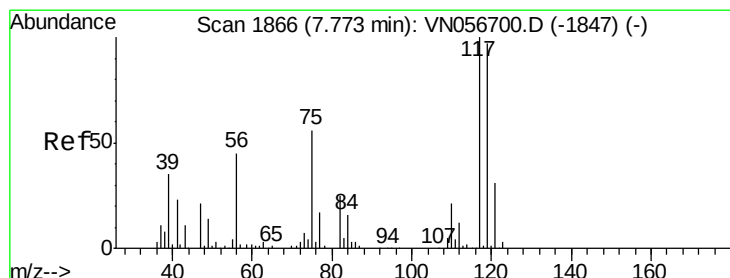
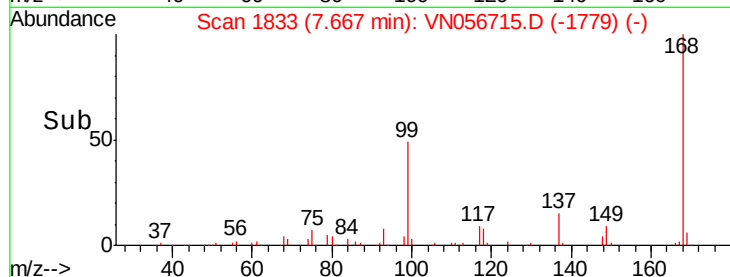
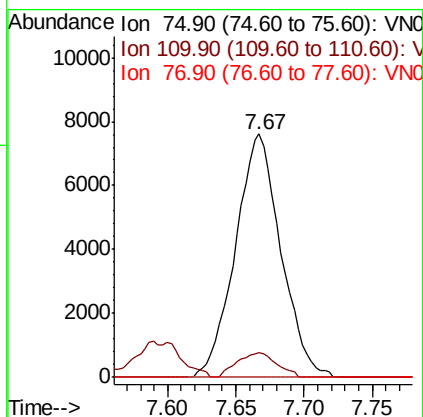
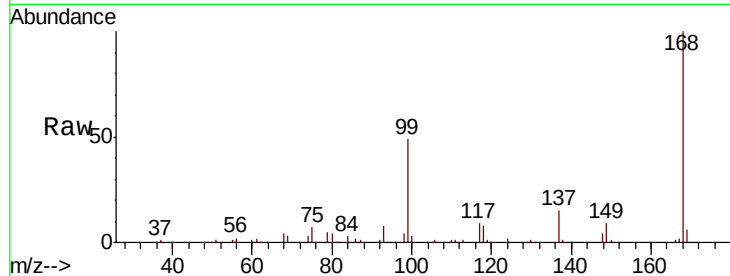




#36
 1,1-Dichloropropene
 Concen: 3.994 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

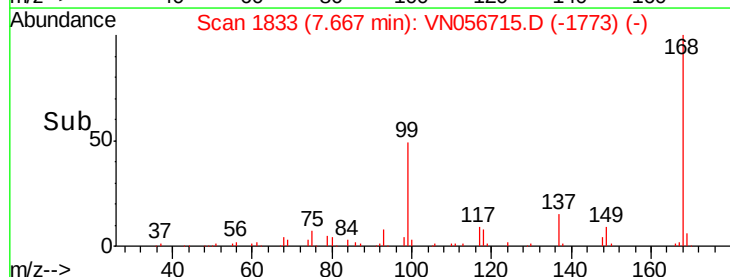
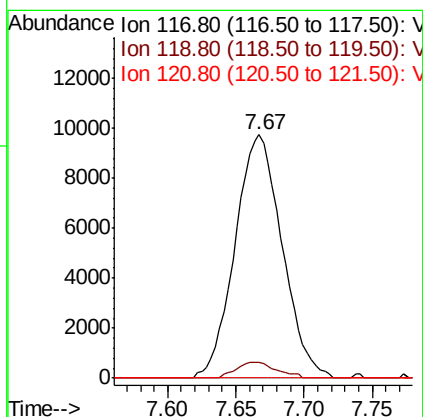
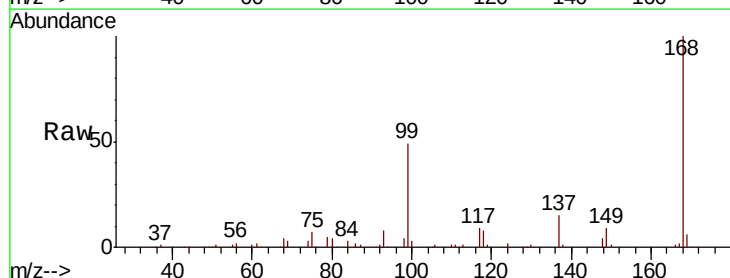
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354TB

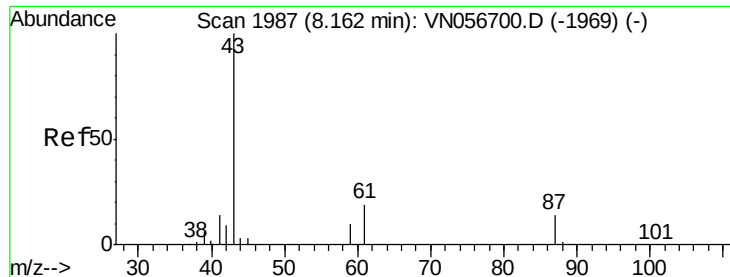
Tot Ion	75	Resp	17585
Ion Ratio	Lower	Upper	
75	100		
110	8.9	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.653 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

Tgt Ion	117	Resp	23341
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	6.5	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 2.824 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

Instrument :

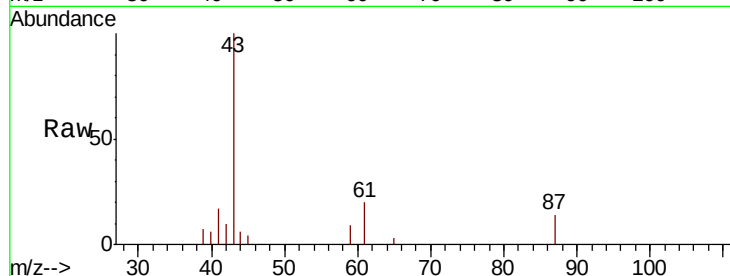
MSVOA_N

ClientSampleId :

PB121354TB

Tot Ion: 43 Resp: 19262

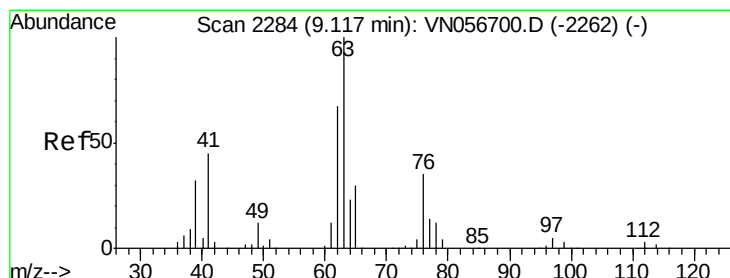
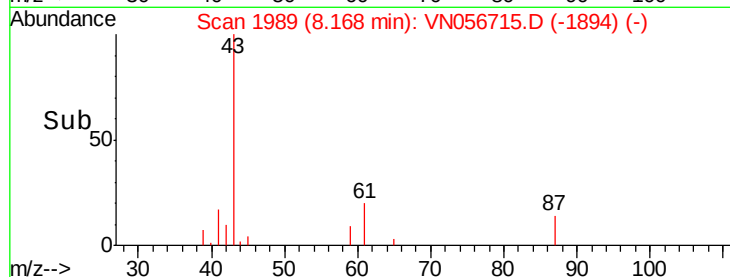
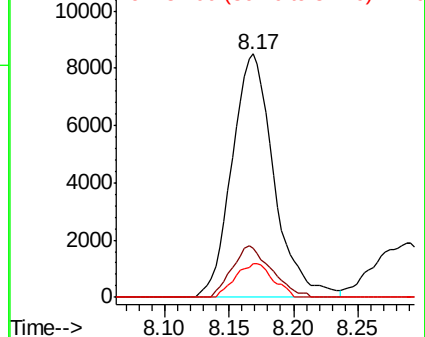
Ion	Ratio	Lower	Upper
43	100		
61	19.8	22.3	33.5#
87	12.3	11.1	16.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.435 ug/l

RT: 9.27 min Scan# 2331

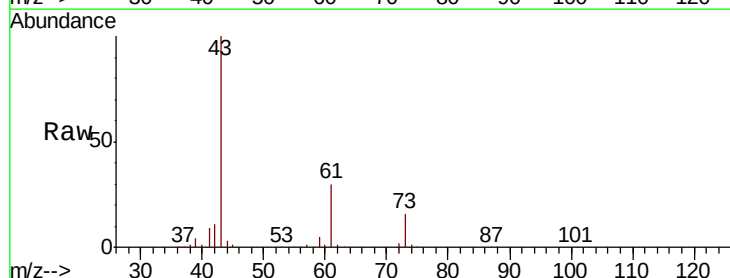
Delta R.T. 0.15 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

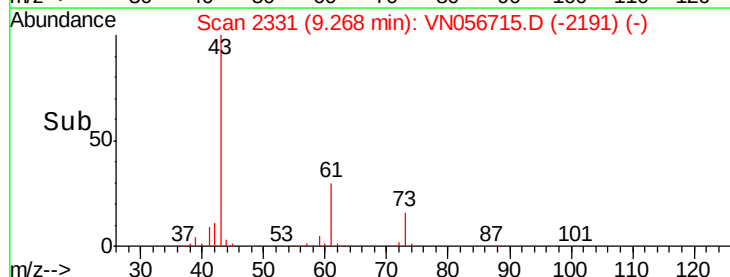
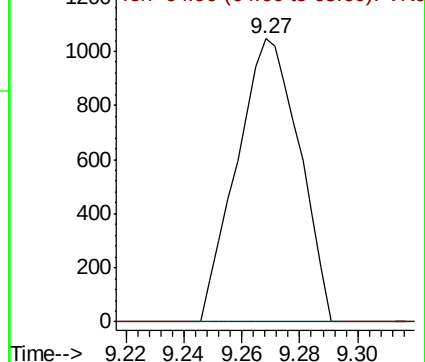
Tgt Ion: 63 Resp: 1561

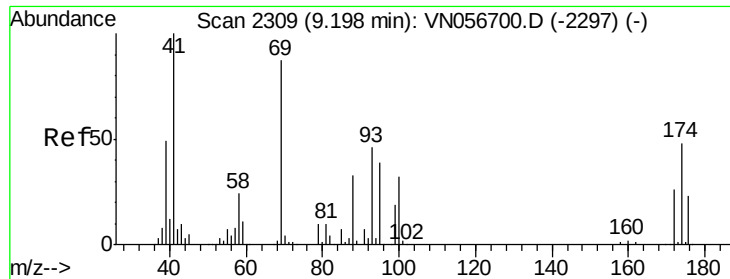
Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.0	36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

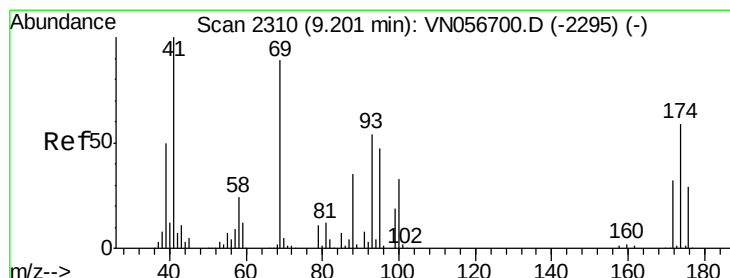
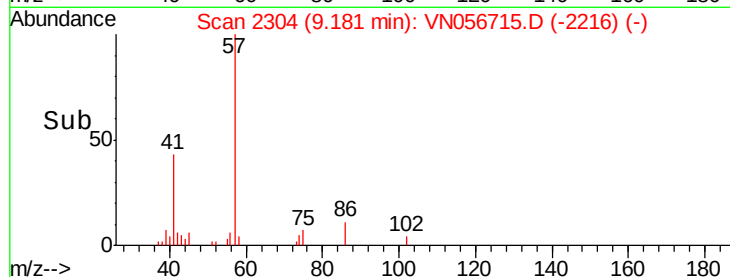
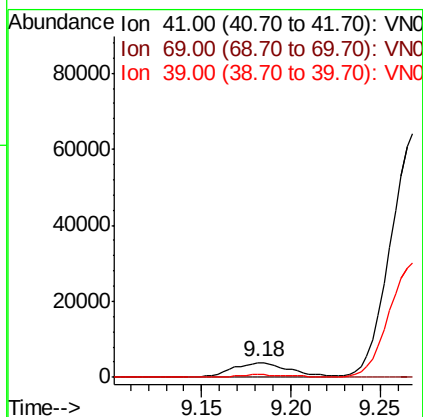
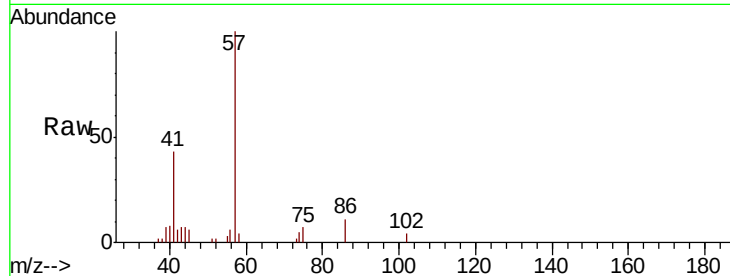




#48
Methvl methacrylate
Concen: 2.703 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

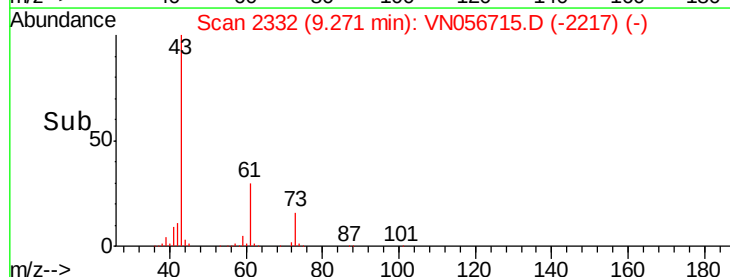
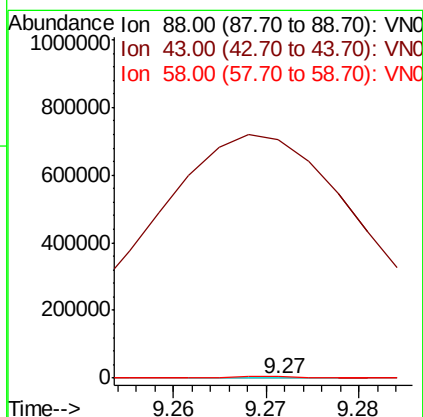
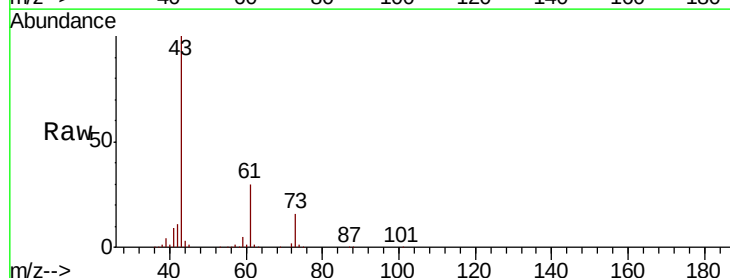
Instrument :
MSVOA_N
ClientSampleId :
PB121354TB

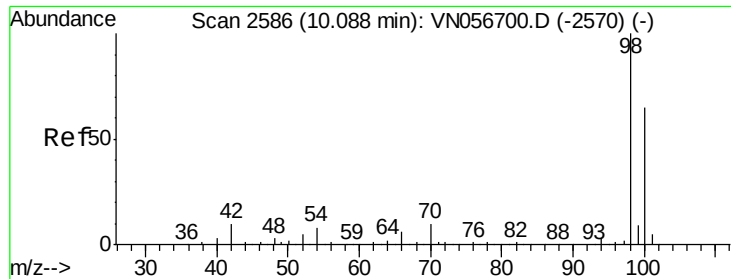
Tot Ion: 41 Resp: 8917
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 0.0 41.2 61.8#



#49
1,4-Dioxane
Concen: 0.916 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 2190766.1 23.7 35.5#
58 9880.6 55.6 83.4#





#50

Toluene-d8

Concen: 52.887 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

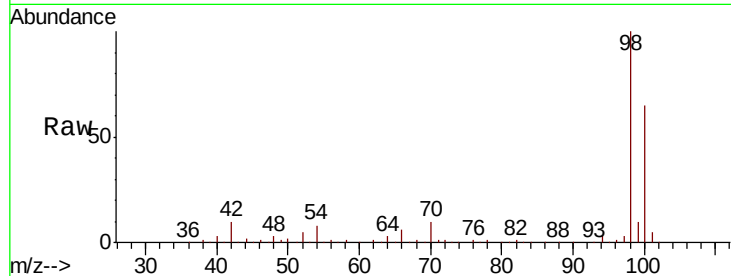
PB121354TB

Tot Ion: 98 Resp: 604792

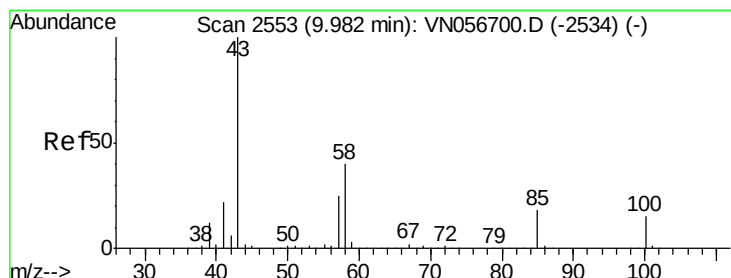
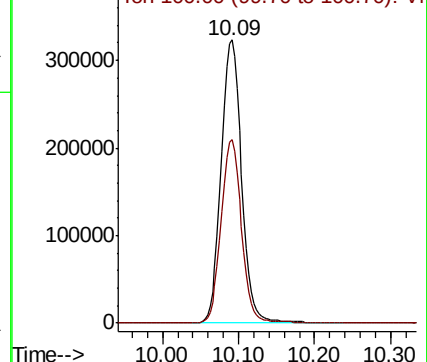
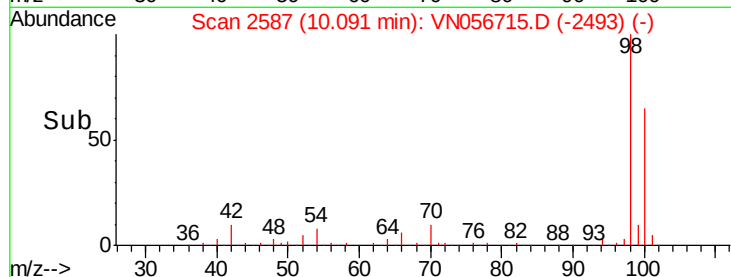
Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056715.D (-2493) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.890 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN056715.D

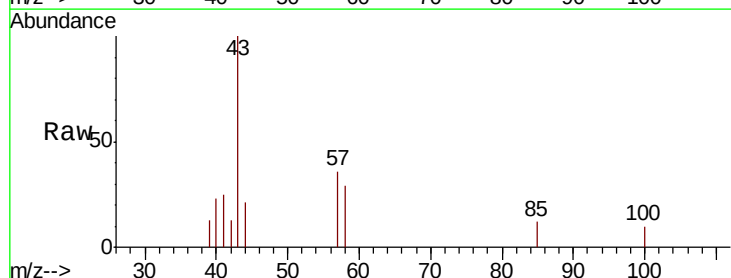
Acq: 15 Jul 2019 16:26

Tgt Ion: 43 Resp: 3931

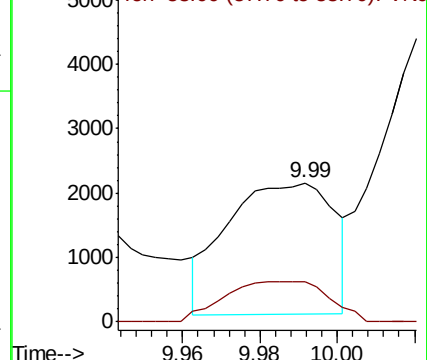
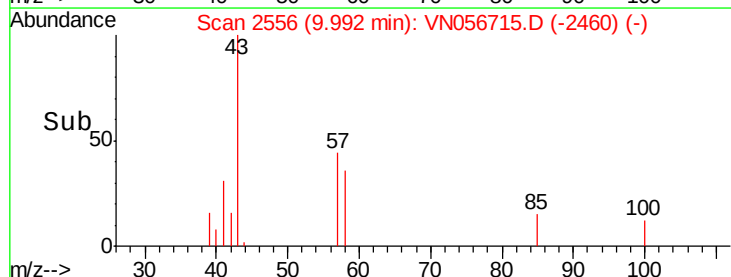
Ion Ratio Lower Upper

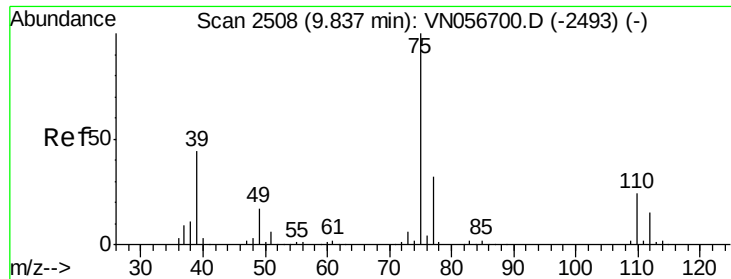
43 100

58 30.0 32.0 48.0#



Abundance Ion 43.00 (42.70 to 43.70): VN056715.D (-2460) (-)



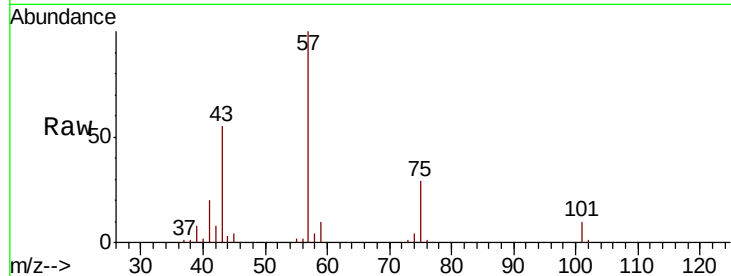


#54

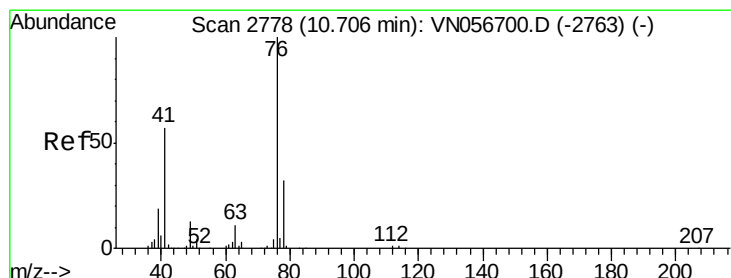
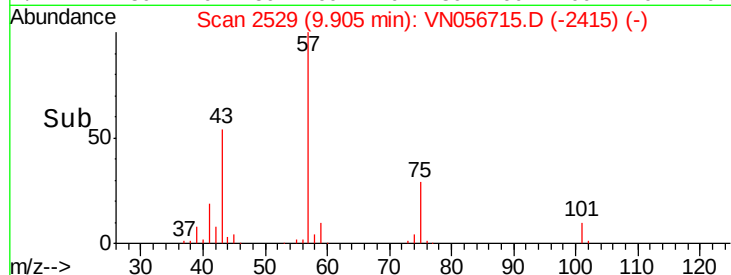
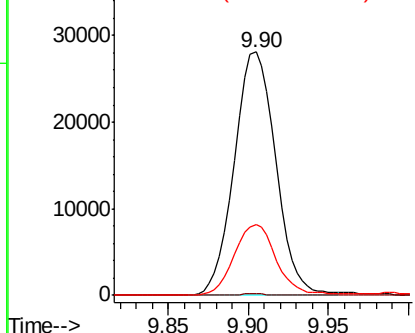
cis-1,3-Dichloropropene
 Concen: 9.736 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354TB

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	26.0	39.0#
39	28.9	35.1	52.7#



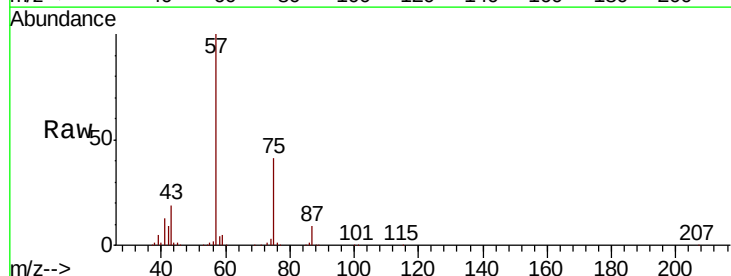
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



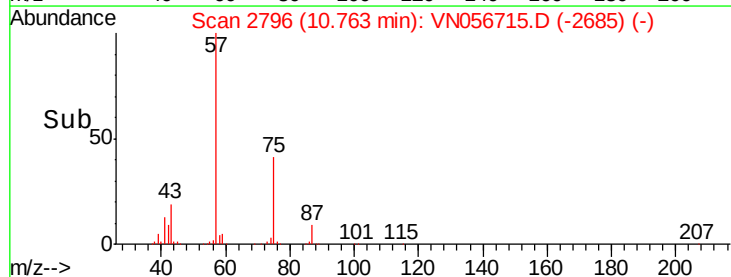
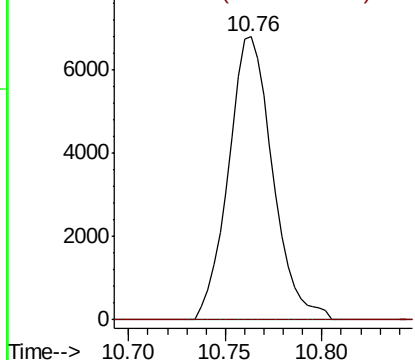
#57

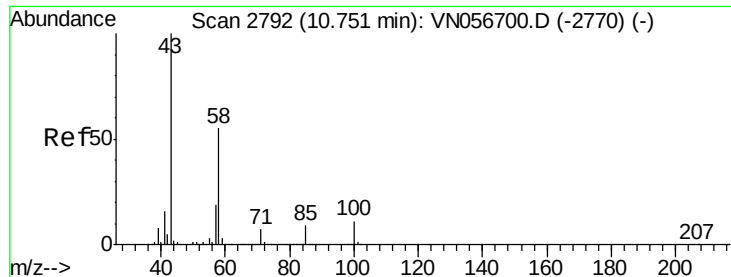
1,3-Dichloropropane
 Concen: 1.967 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.0	39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

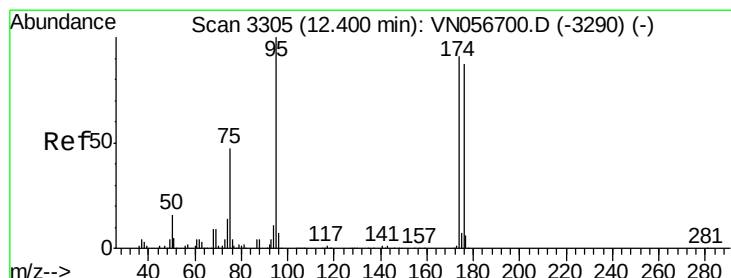
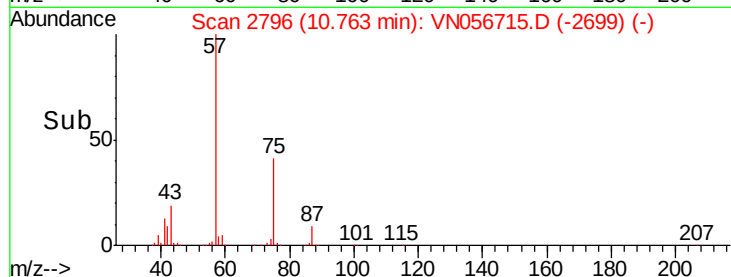
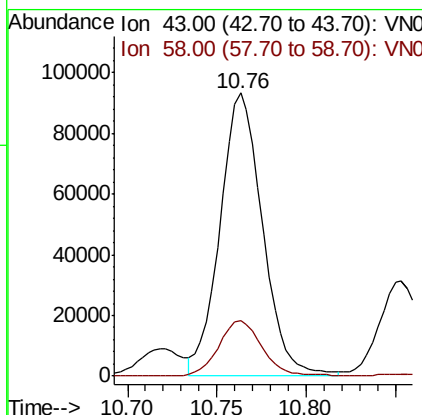
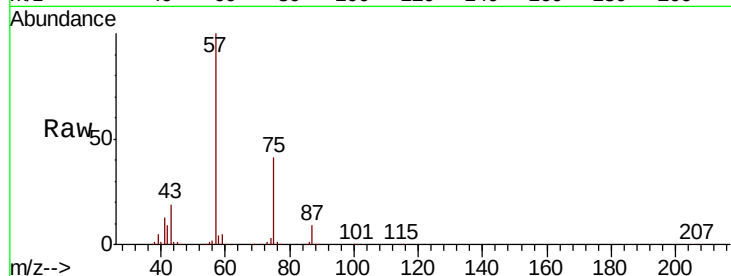




#59
2-Hexanone
Concen: 48.335 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

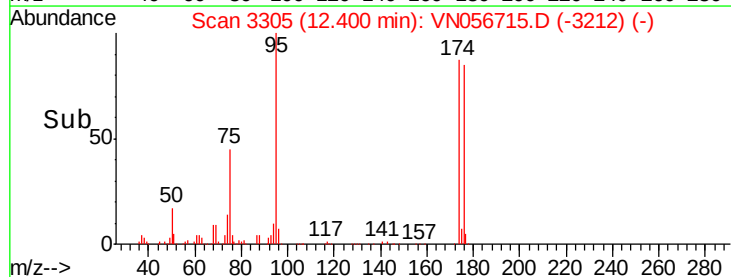
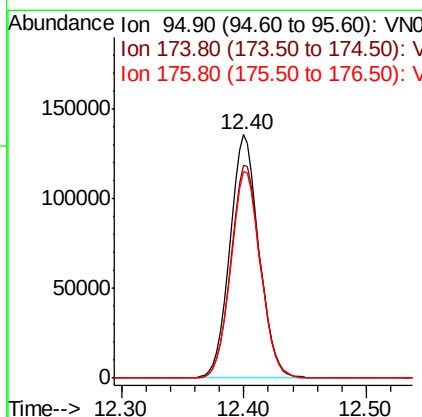
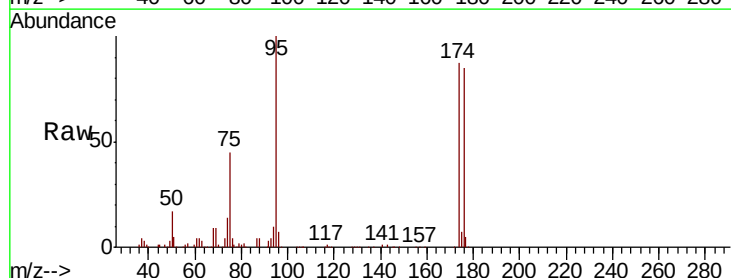
Instrument :
MSVOA_N
ClientSampled :
PB121354TB

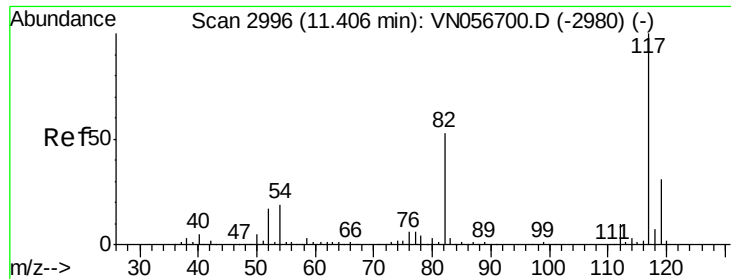
Tot Ion: 43 Resp: 153238
Ion Ratio Lower Upper
43 100
58 20.3 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 58.391 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Tgt Ion: 95 Resp: 225182
Ion Ratio Lower Upper
95 100
174 88.6 0.0 180.0
176 86.2 0.0 173.2

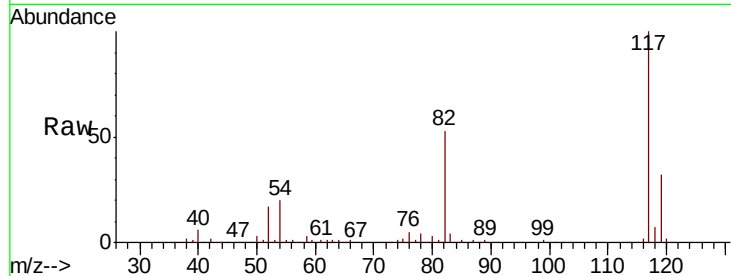




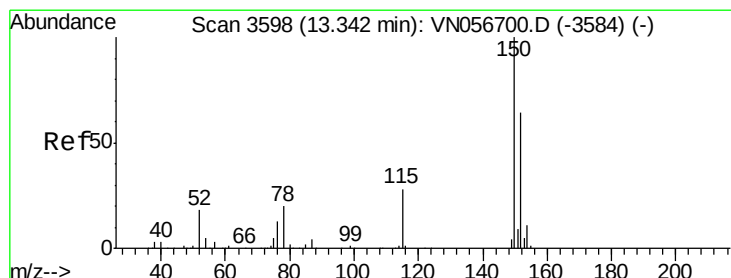
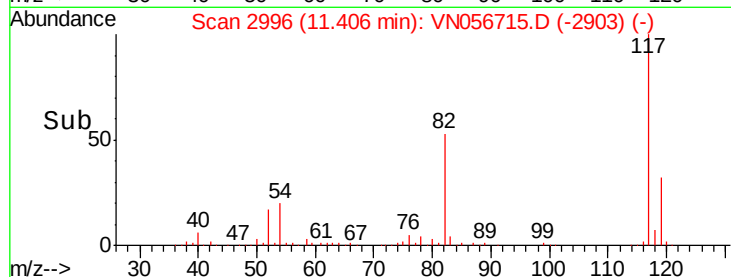
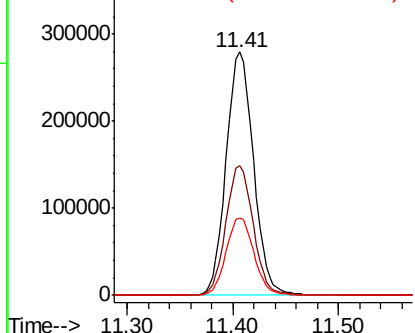
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Instrument :
MSVOA_N
ClientSampleId :
PB121354TB

Tot Ion:117 Resp: 504305
Ion Ratio Lower Upper
117 100
82 53.1 42.2 63.2
119 32.0 25.2 37.8

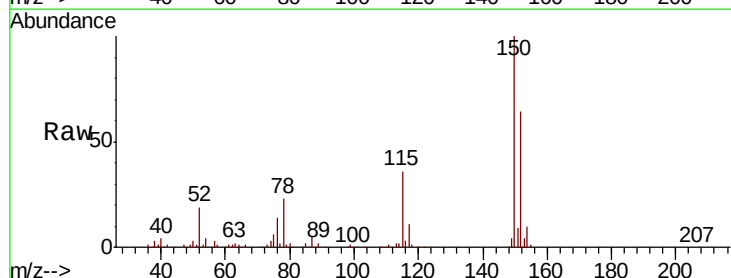


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

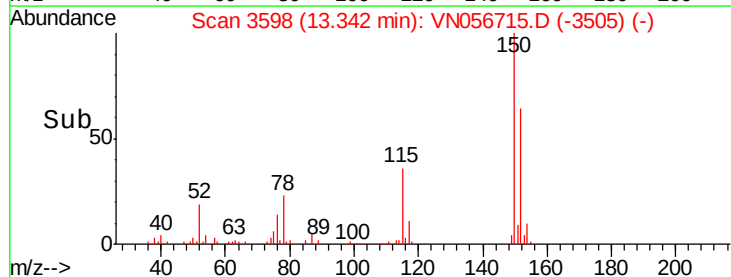
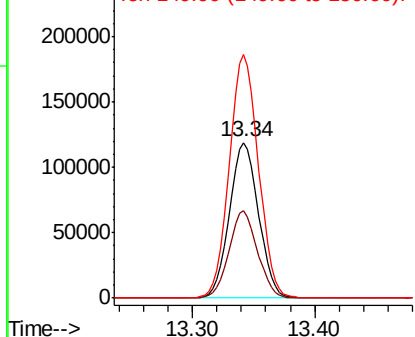


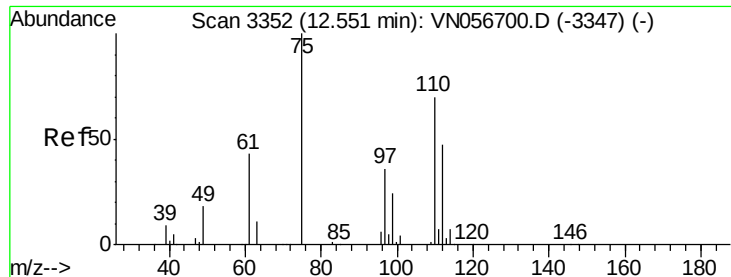
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056715.D
Acq: 15 Jul 2019 16:26

Tgt Ion:152 Resp: 197661
Ion Ratio Lower Upper
152 100
115 55.2 28.2 84.7
150 156.7 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: 23.911 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

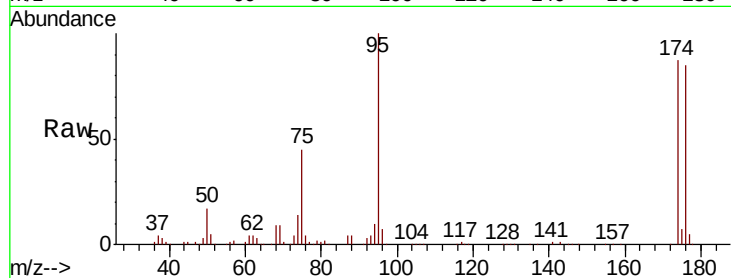
PB121354TB

Tot Ion: 75 Resp: 103372

Ion Ratio Lower Upper

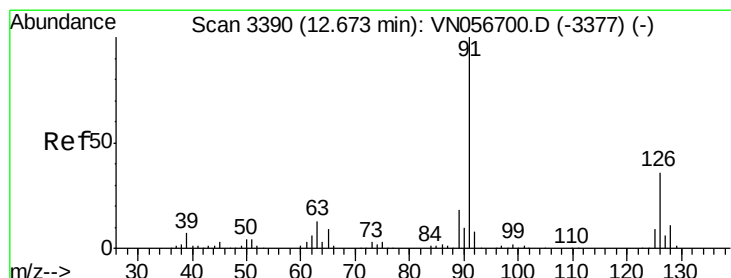
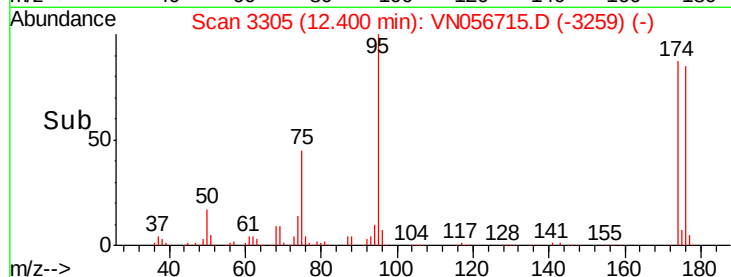
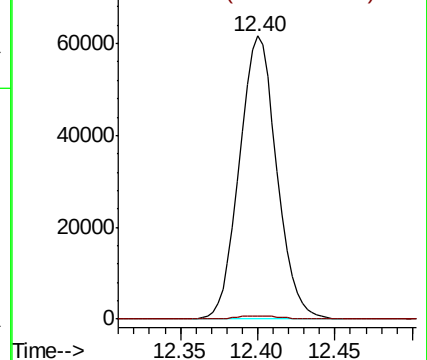
75 100

77 1.4 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# 3392

Delta R.T. 0.01 min

Lab File: VN056715.D

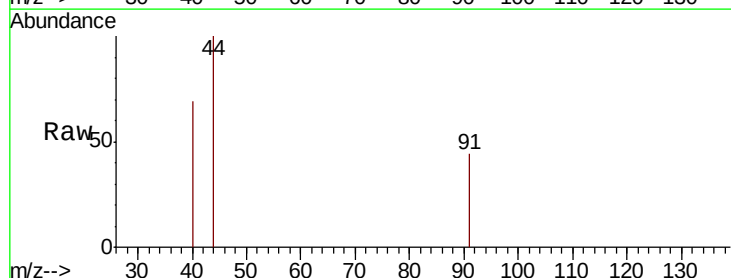
Acq: 15 Jul 2019 16:26

Tgt Ion: 91 Resp: 187

Ion Ratio Lower Upper

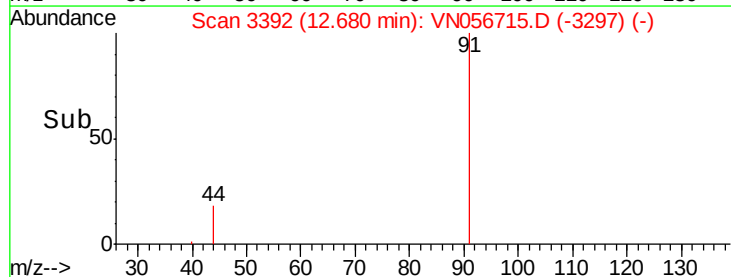
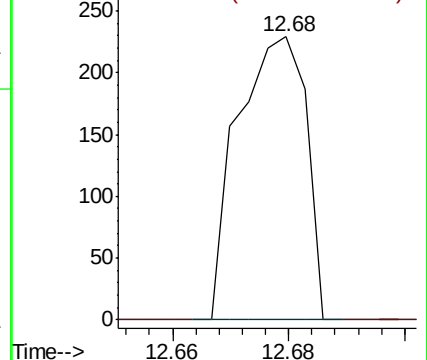
91 100

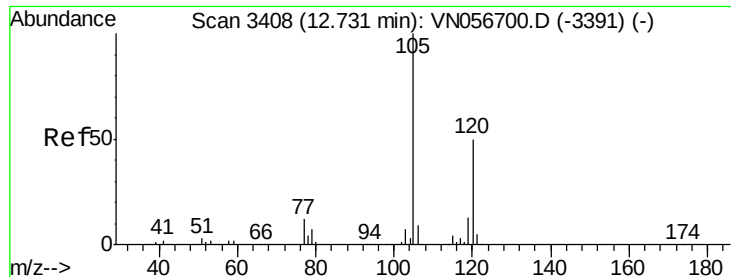
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 0.290 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

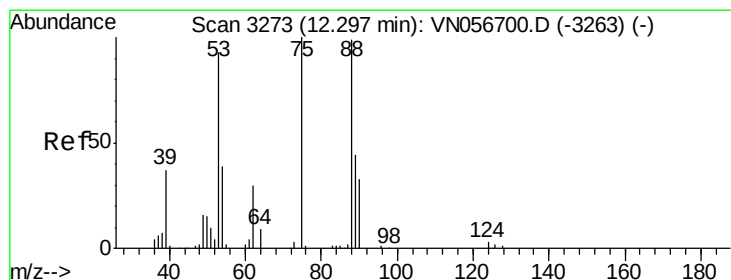
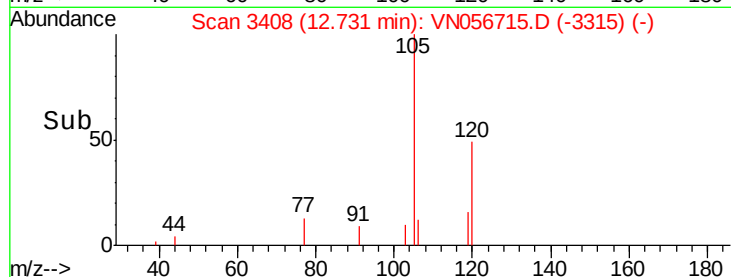
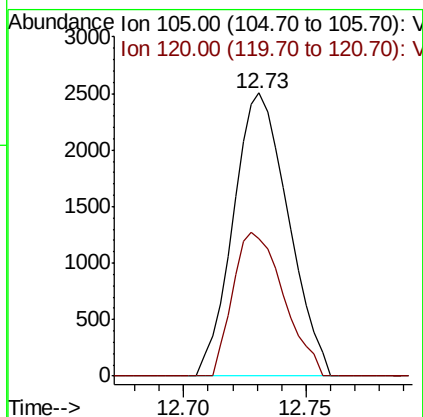
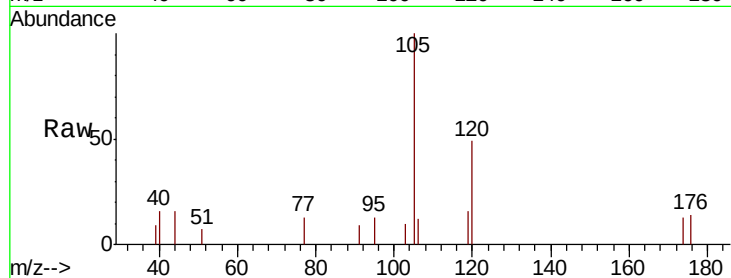
PB121354TB

Tot Ion:105 Resp: 3918

Ion Ratio Lower Upper

105 100

120 46.8 24.8 74.3



#81

trans-1,4-Dichloro-2-butene

Concen: 73.846 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

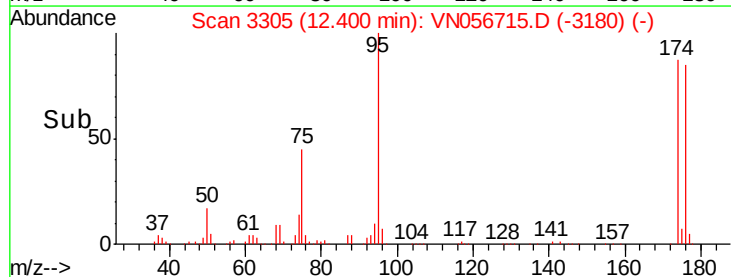
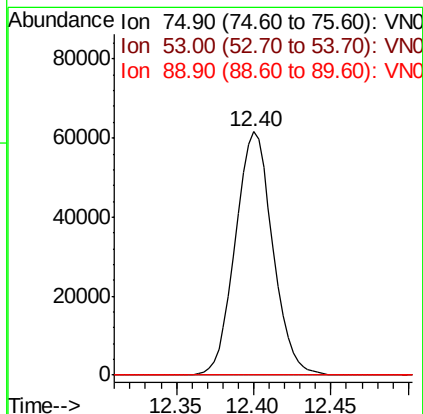
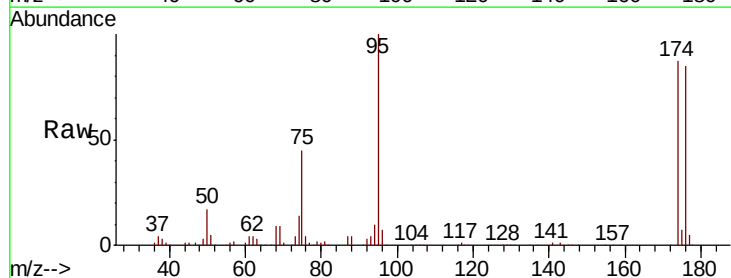
Tgt Ion: 75 Resp: 103372

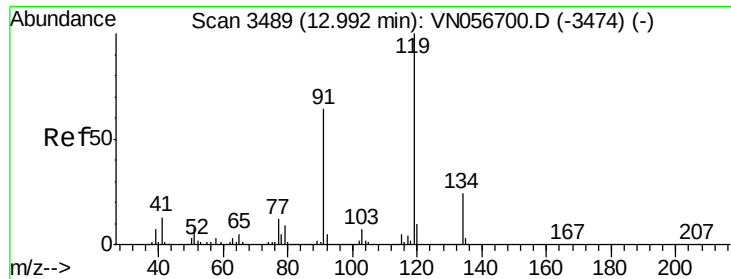
Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#

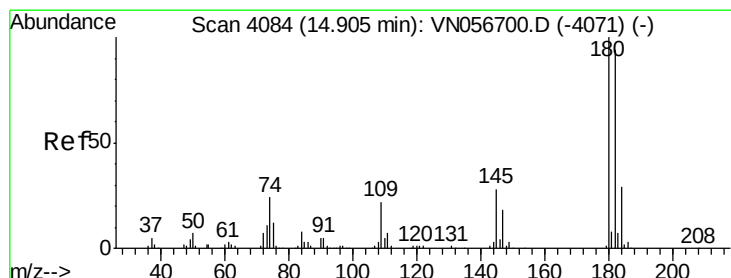
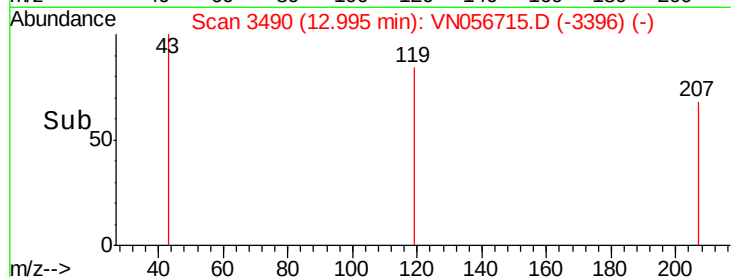
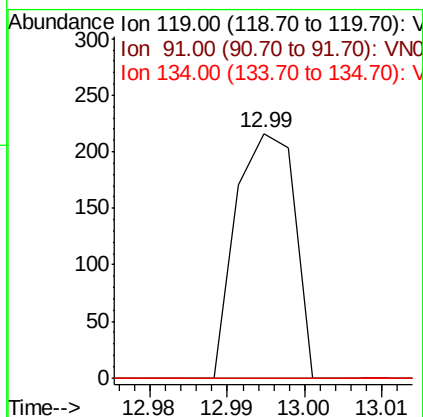
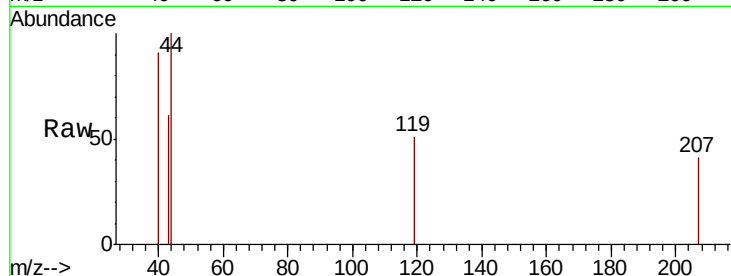




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

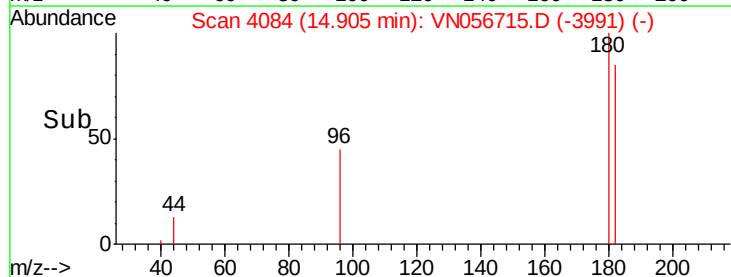
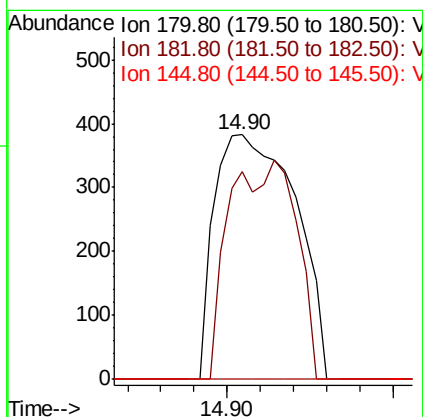
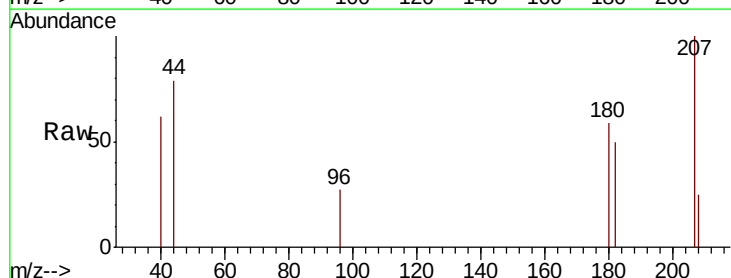
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121354TB

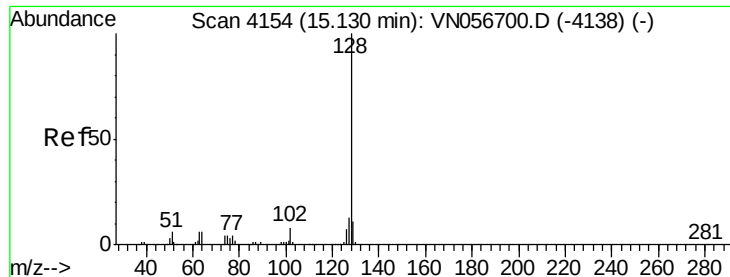
Tot Ion:119 Resp: 114
 Ion Ratio Lower Upper
 119 100
 91 0.0 31.8 95.4#
 134 0.0 13.0 38.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.848 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN056715.D
 Acq: 15 Jul 2019 16:26

Tgt Ion:180 Resp: 652
 Ion Ratio Lower Upper
 180 100
 182 33.0 47.2 141.6#
 145 0.0 14.2 42.8#





#95

Naphthalene

Concen: 4.702 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

PB121354TB

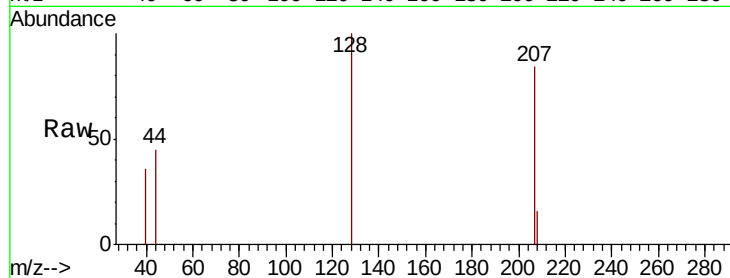
Tot Ion:128 Resp: 2049

Ion Ratio Lower Upper

128 100

127 4.9 10.3 15.5#

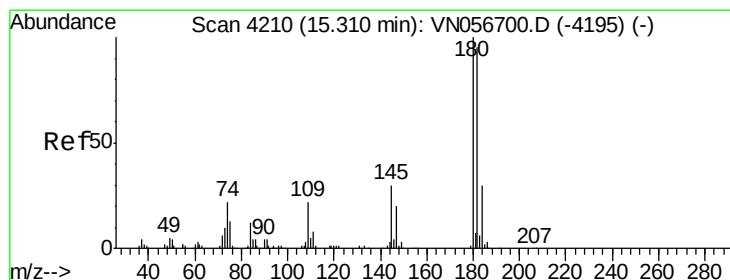
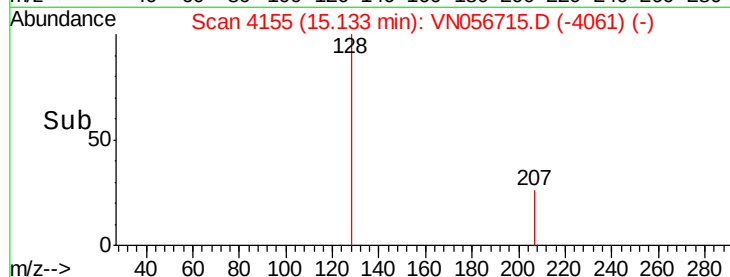
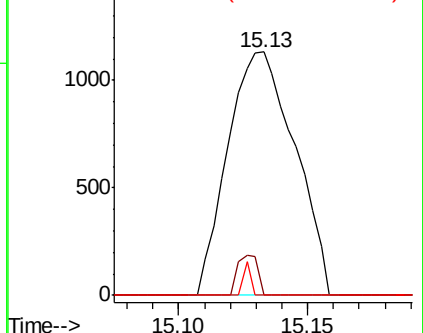
129 1.5 8.7 13.1#



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: 3.534 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.01 min

Lab File: VN056715.D

Acq: 15 Jul 2019 16:26

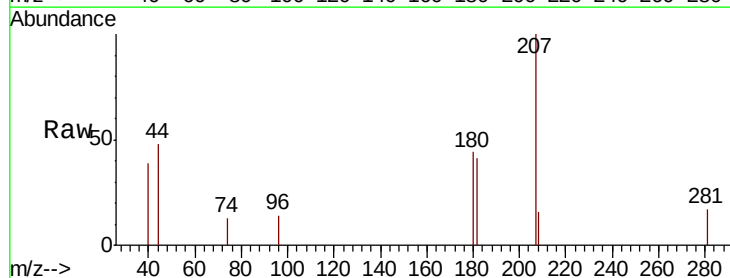
Tgt Ion:180 Resp: 867

Ion Ratio Lower Upper

180 100

182 93.3 47.1 141.3

145 7.6 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

