

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062619\
 Data File : VN056498.D
 Acq On : 26 Jun 2019 12:03
 Operator : JC/SP
 Sample : K3527-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 27 07:37:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	354060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	612969	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	601623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	174350	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	205039	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
35) Dibromofluoromethane	7.59	113	180494	47.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.40%	
50) Toluene-d8	10.09	98	755185	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.40	95	240163	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	

Target Compounds

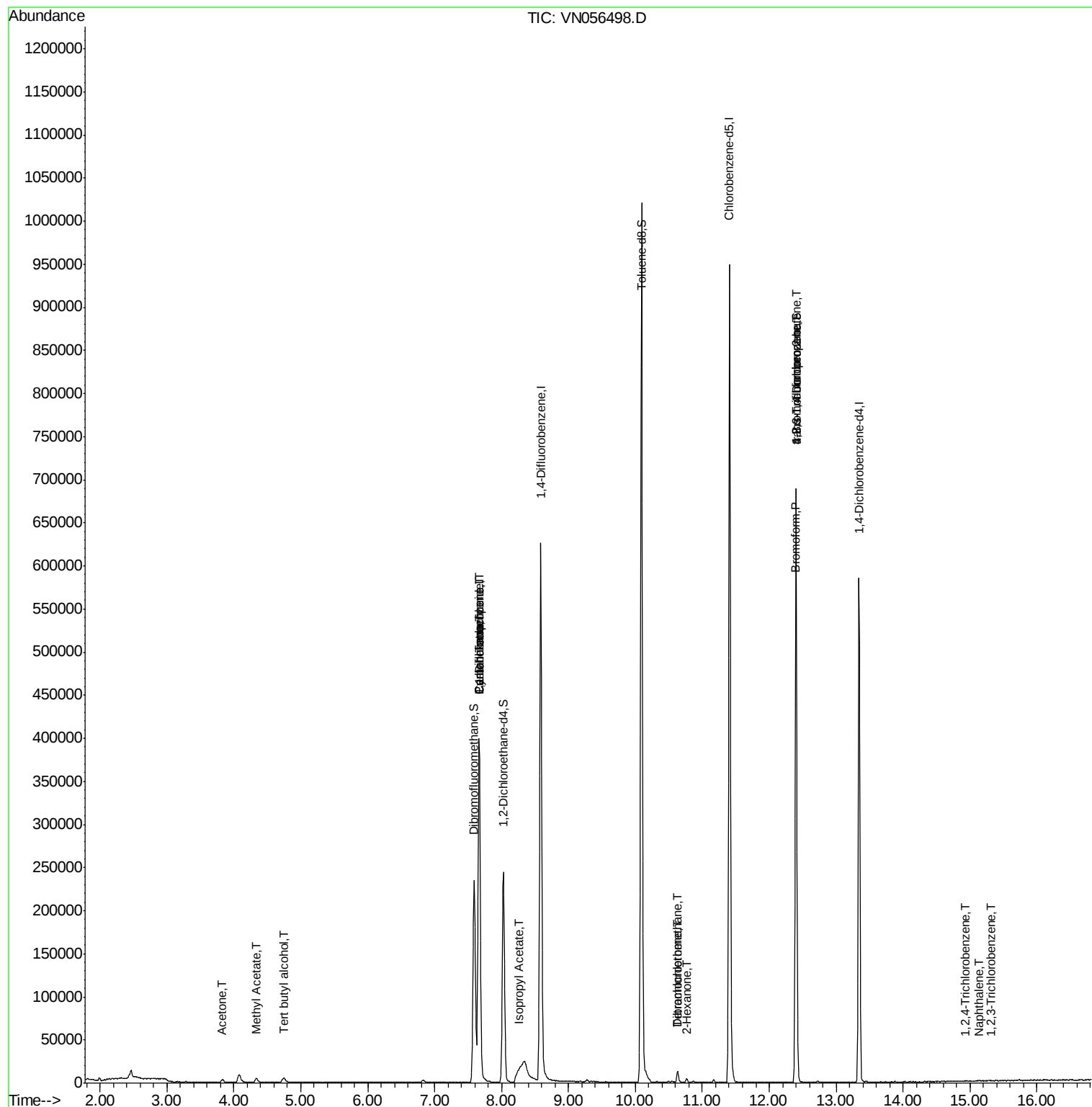
						Qvalue
11) Tert butyl alcohol	4.75	59	5937	8.983	ug/l #	74
16) Acetone	3.83	43	6138	3.122	ug/l	99
18) Methyl Acetate	4.33	43	9749	1.693	ug/l #	88
20) Methylene Chloride	4.54	84	138	Below Cal	#	64
31) Cyclohexane	7.67	56	6154	1.016	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22588	4.187	ug/l #	50
38) Carbon Tetrachloride	7.66	117	30753	6.518	ug/l #	15
43) Isopropyl Acetate	8.26	43	14734	1.802	ug/l #	54
59) 2-Hexanone	10.76	43	1405	0.362	ug/l #	27
60) Dibromochloromethane	10.63	129	2876	3.035	ug/l #	10
64) Tetrachloroethene	10.63	164	3519	0.739	ug/l	96
71) Bromoform	12.38	173	168	3.190	ug/l #	28
73) Isopropylbenzene	12.40	105	132	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	110743	30.633	ug/l #	100
79) 2-Chlorotoluene	12.76	91	32	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	96	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	110743	108.873	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.92	180	143	5.656	ug/l #	13
95) Naphthalene	15.13	128	273	5.275	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.32	180	231	4.548	ug/l #	72

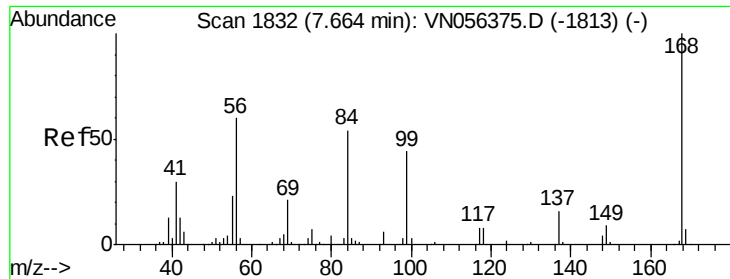
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 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: VN056498.D

Acq: 26 Jun 2019 12:03

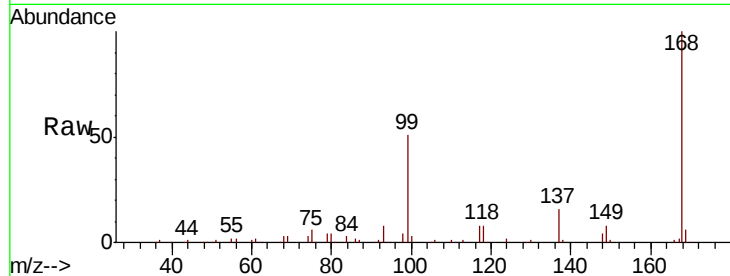
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 354060

Ion Ratio Lower Upper

168 100

99 51.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

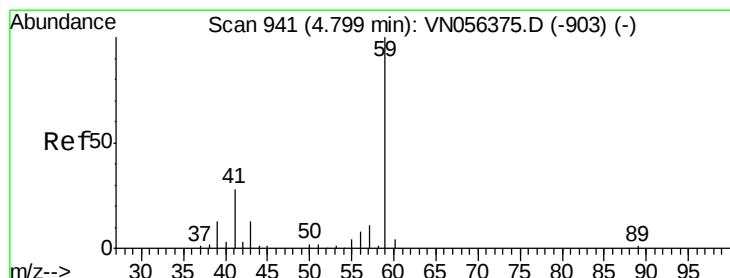
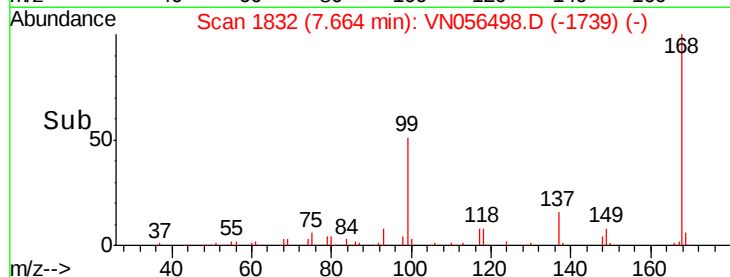
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 8.983 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.04 min

Lab File: VN056498.D

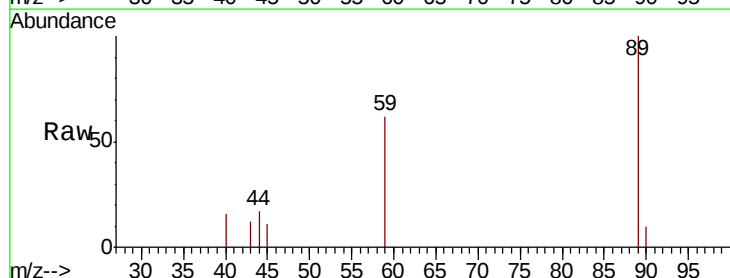
Acq: 26 Jun 2019 12:03

Tgt Ion: 59 Resp: 5937

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

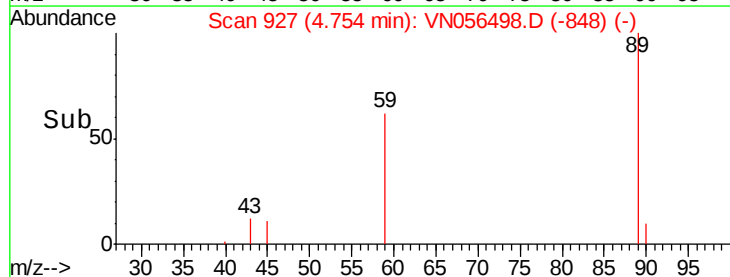
1500

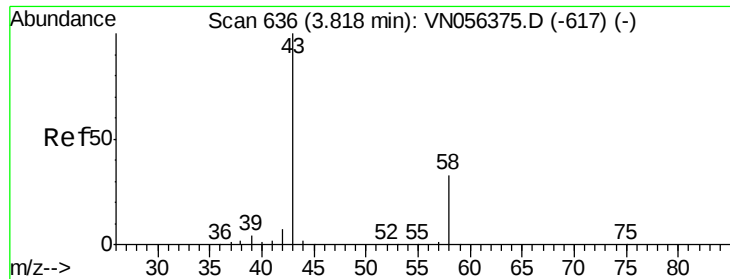
1000

500

0

Time--> 4.65 4.70 4.75 4.80 4.85





#16

Acetone

Concen: 3.122 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

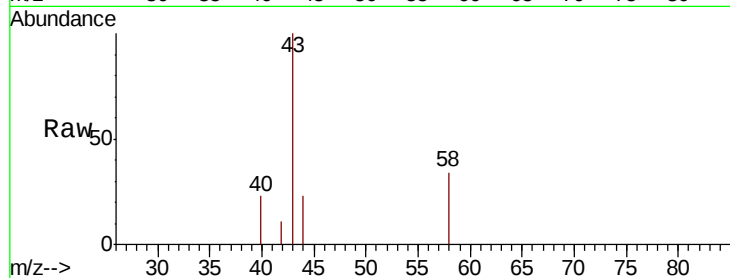
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 6138

Ion Ratio Lower Upper

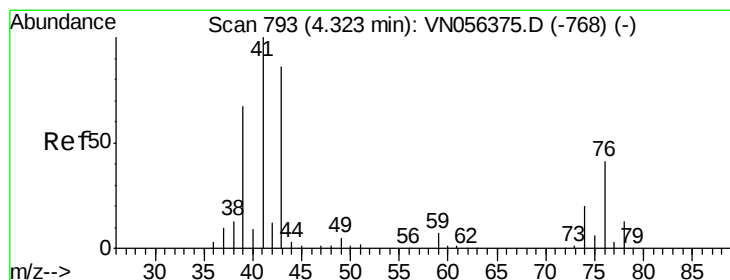
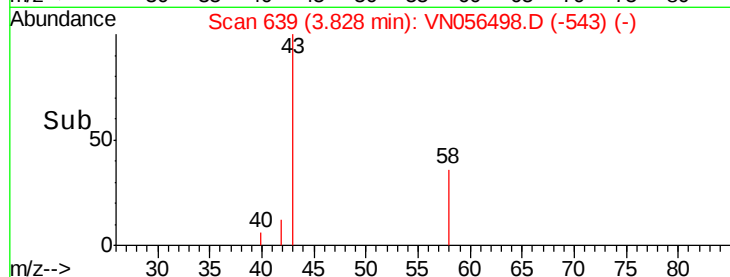
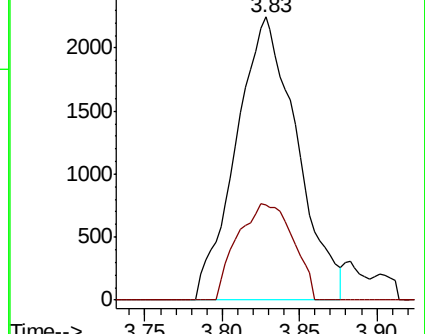
43 100

58 33.8 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.693 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056498.D

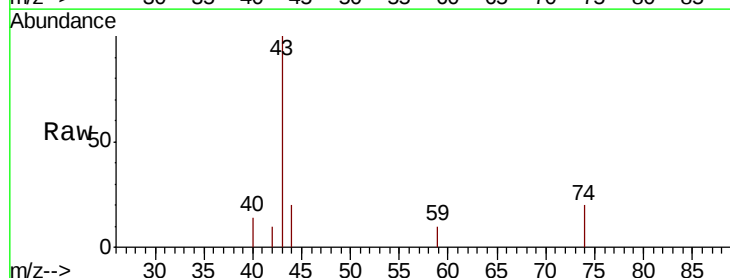
Acq: 26 Jun 2019 12:03

Tgt Ion: 43 Resp: 9749

Ion Ratio Lower Upper

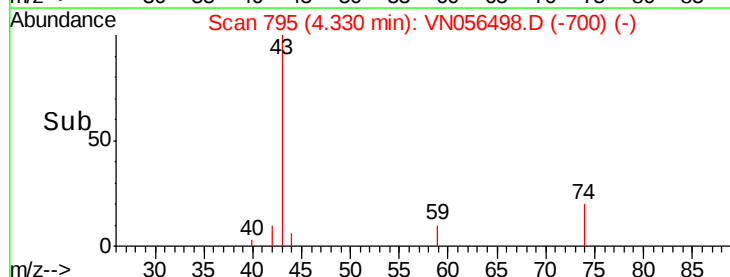
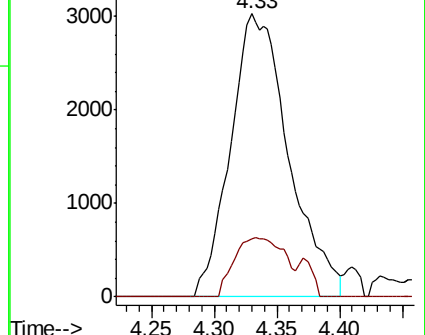
43 100

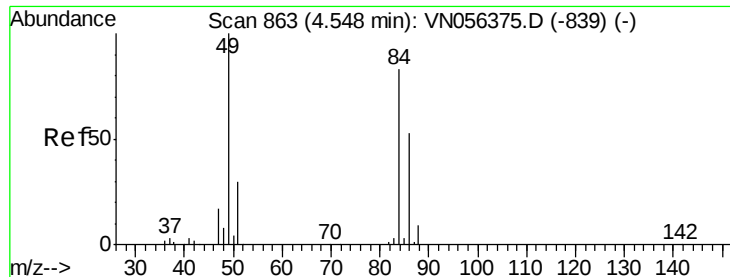
74 18.1 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

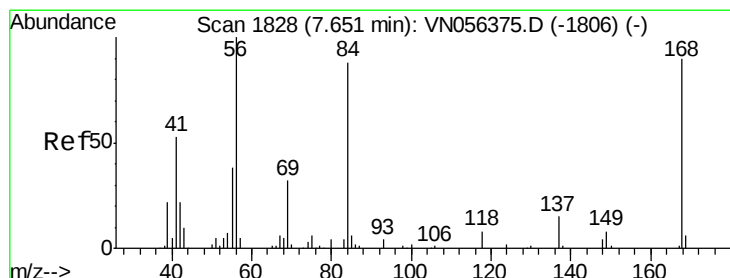
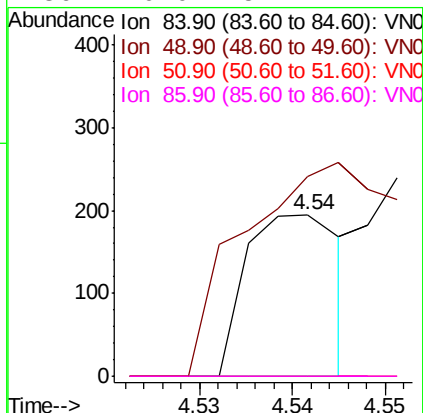
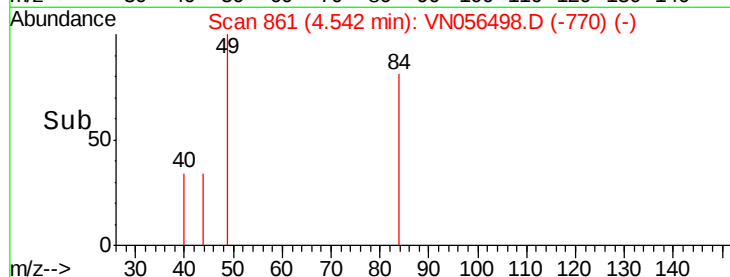
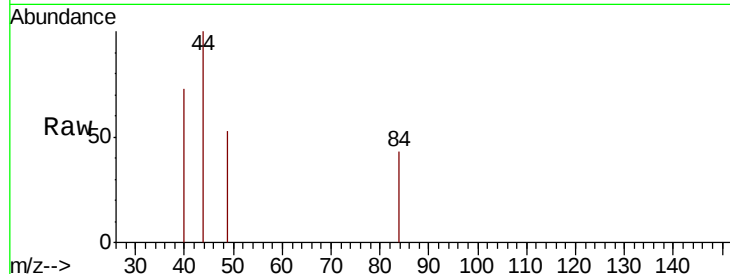




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN056498.D
Acq: 26 Jun 2019 12:03

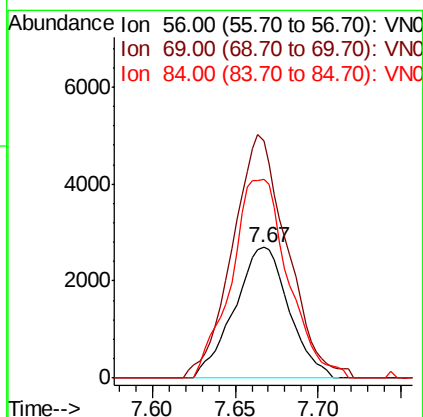
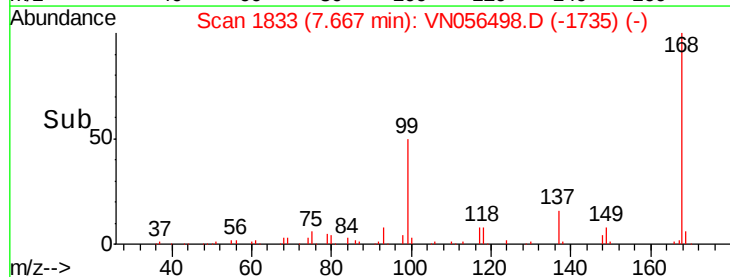
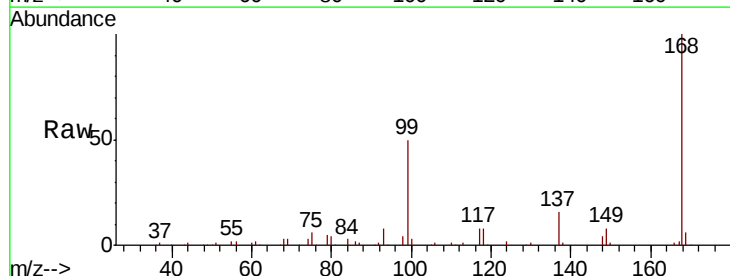
Instrument :
MSVOA_N
ClientSampleId :

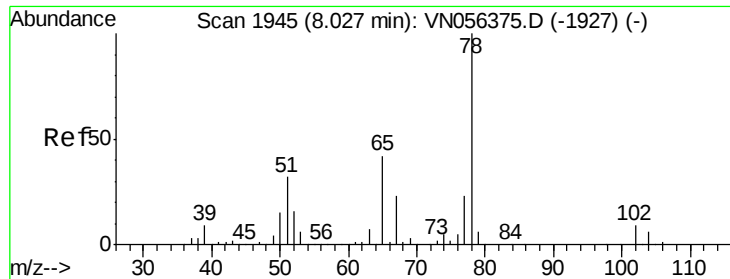
Tot Ion: 84 Resp: 138
Ion Ratio Lower Upper
84 100
49 124.1 96.4 144.6
51 0.0 28.6 43.0#
86 0.0 51.4 77.2#



#31
Cyclohexane
Concen: 1.016 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN056498.D
Acq: 26 Jun 2019 12:03

Tgt Ion: 56 Resp: 6154
Ion Ratio Lower Upper
56 100
69 175.6 25.8 38.6#
84 151.7 69.4 104.0#

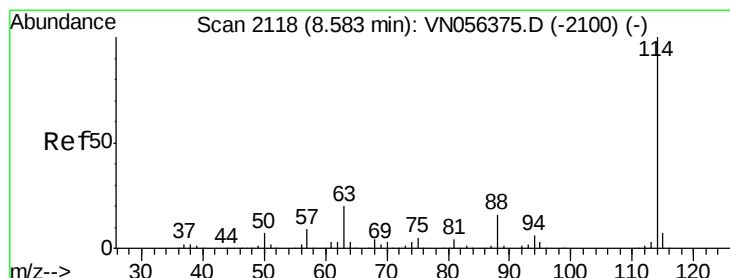
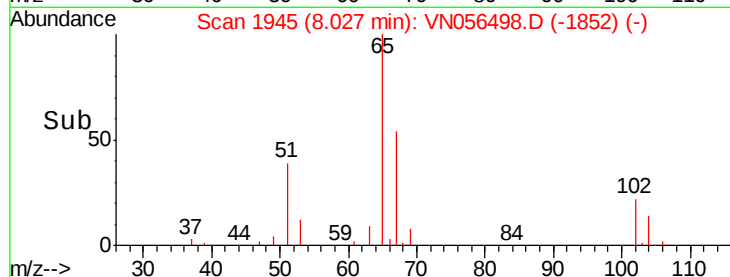
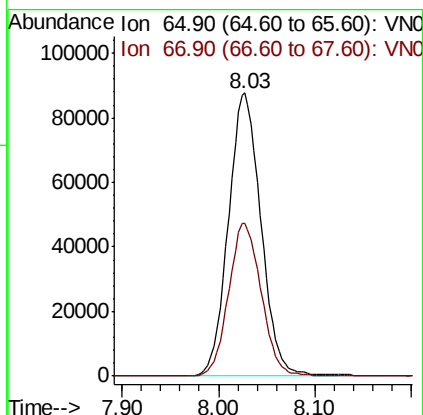
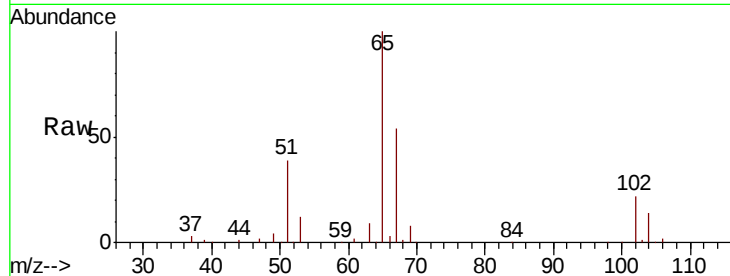




#33
 1,2-Dichloroethane-d4
 Concen: 52.252 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056498.D
 Acq: 26 Jun 2019 12:03

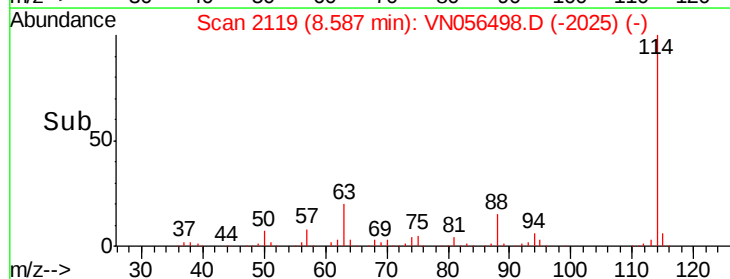
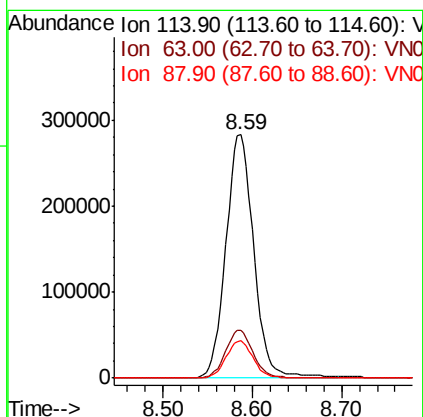
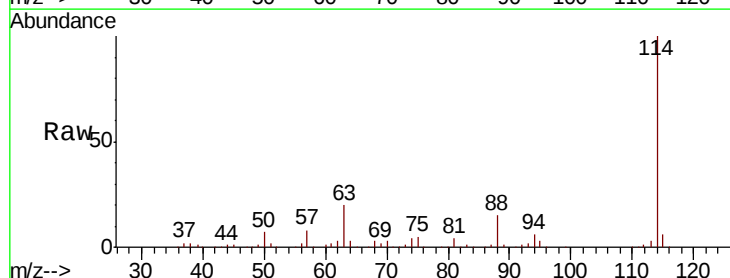
Instrument :
 MSVOA_N
 ClientSampleId :

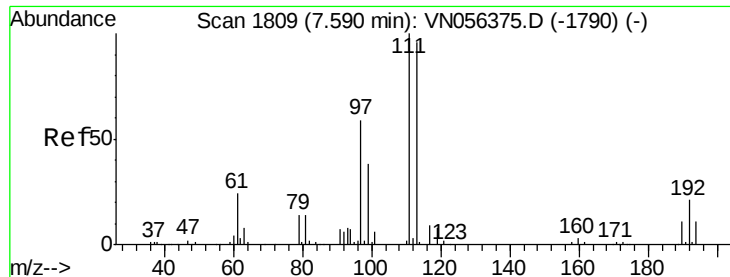
Tot Ion: 65 Resp: 205039
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056498.D
 Acq: 26 Jun 2019 12:03

Tgt Ion: 114 Resp: 612969
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.2
 88 15.2 0.0 31.4

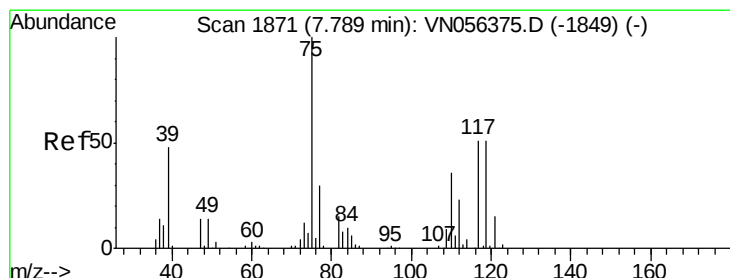
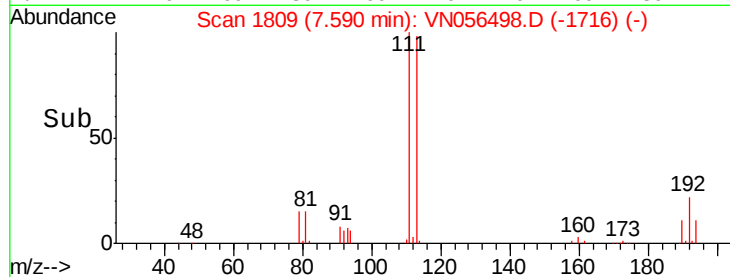
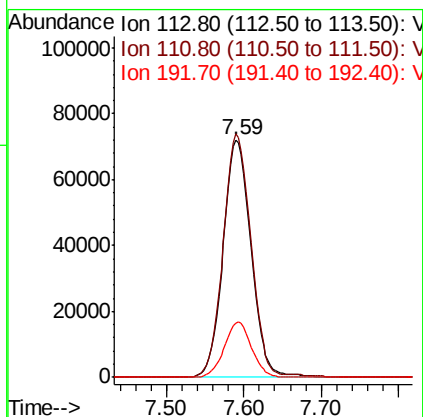
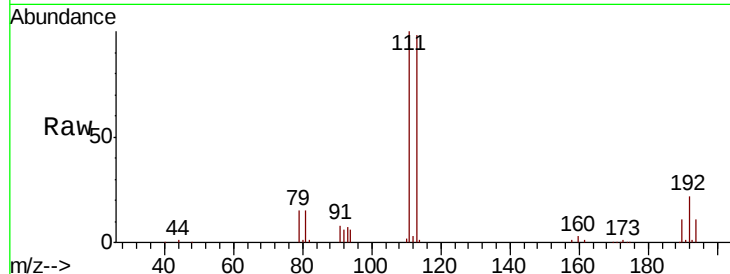




#35
 Dibromofluoromethane
 Concen: 47.201 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056498.D
 Acq: 26 Jun 2019 12:03

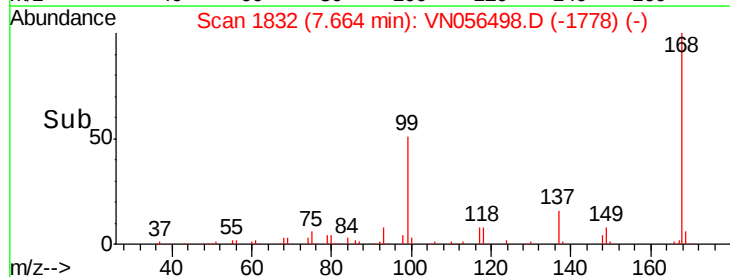
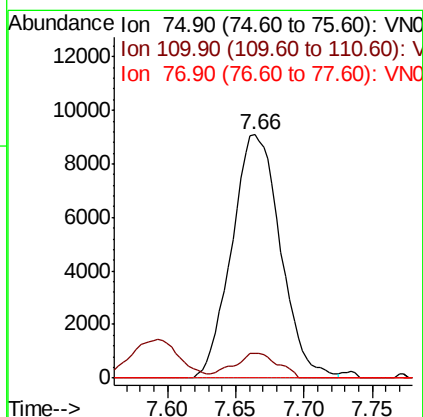
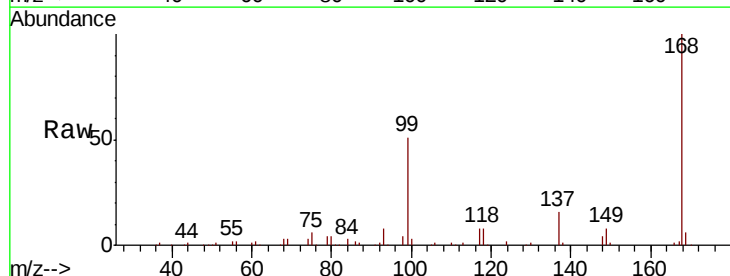
Instrument :
 MSVOA_N
 ClientSampleId :

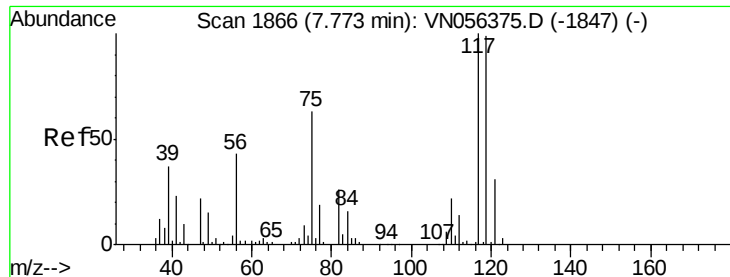
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.9	124.3
192	22.8	17.7	26.5



#36
 1,1-Dichloropropene
 Concen: 4.187 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056498.D
 Acq: 26 Jun 2019 12:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.3#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.518 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

Instrument :

MSVOA_N

ClientSampled :

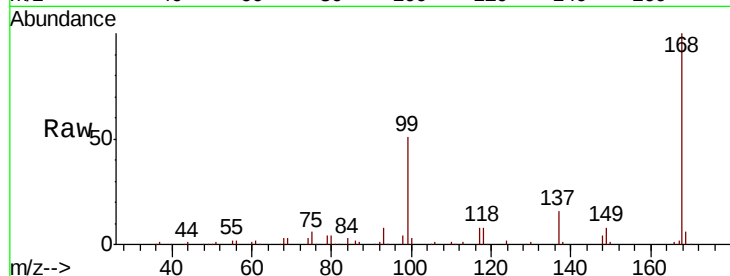
Tot Ion:117 Resp: 30753

Ion Ratio Lower Upper

117 100

119 5.4 79.1 118.7#

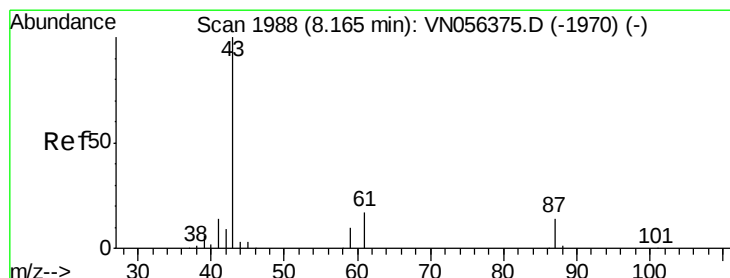
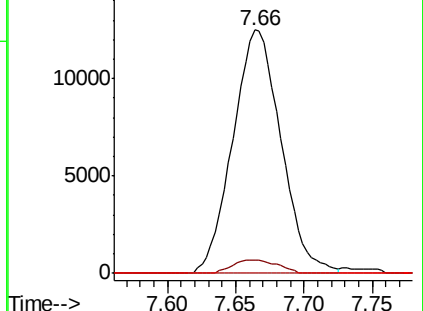
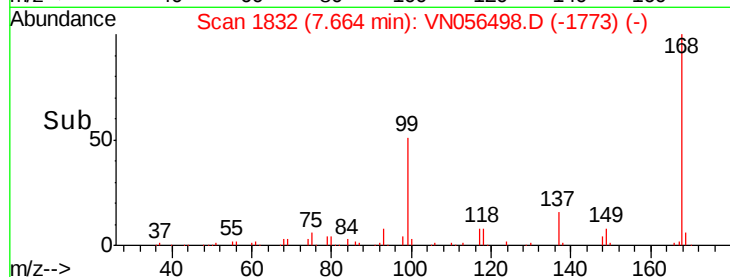
121 0.0 24.8 37.2#



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: 1.802 ug/l

RT: 8.26 min Scan# 2016

Delta R.T. 0.09 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

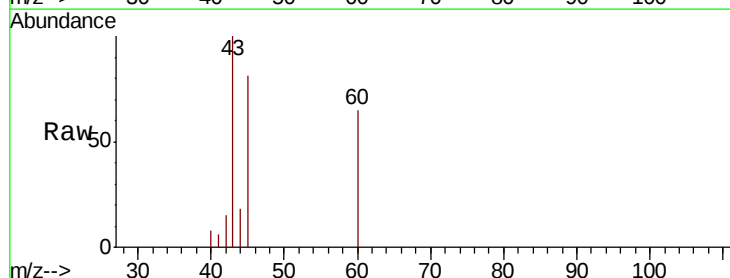
Tgt Ion: 43 Resp: 14734

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

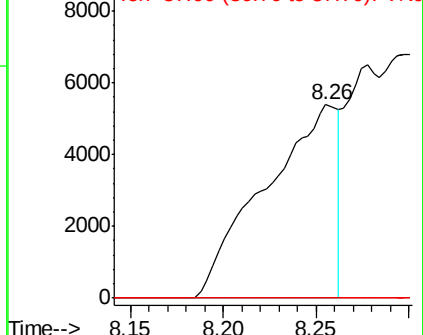
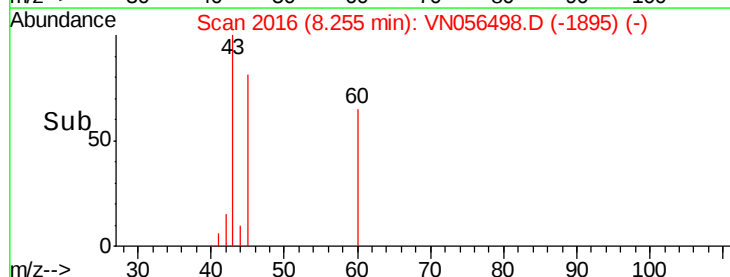
87 0.0 11.0 16.4#

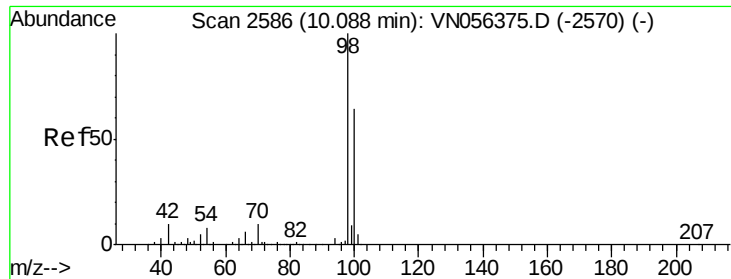


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 50.755 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

Instrument :

MSVOA_N

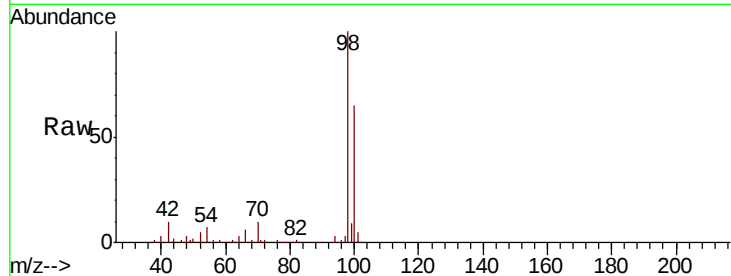
ClientSampled :

Tot Ion: 98 Resp: 755185

Ion Ratio Lower Upper

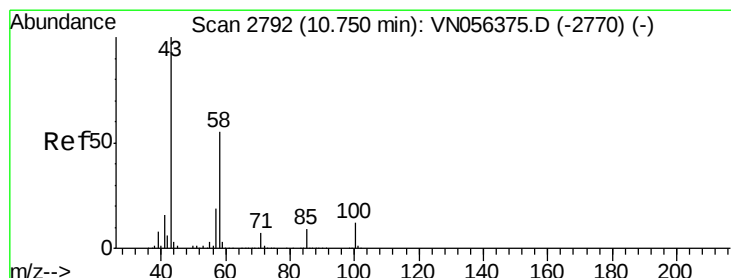
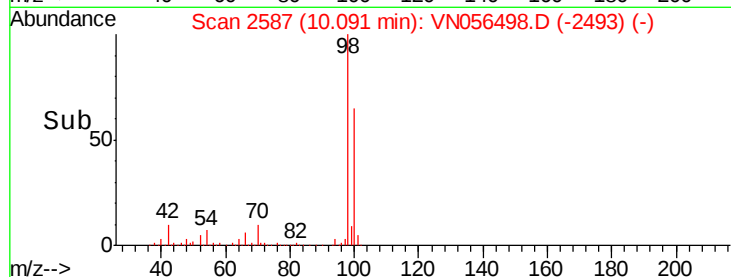
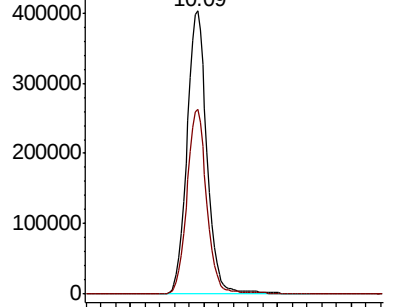
98 100

100 64.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN056375.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056375.D (-2570) (-)



#59

2-Hexanone

Concen: 0.362 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN056498.D

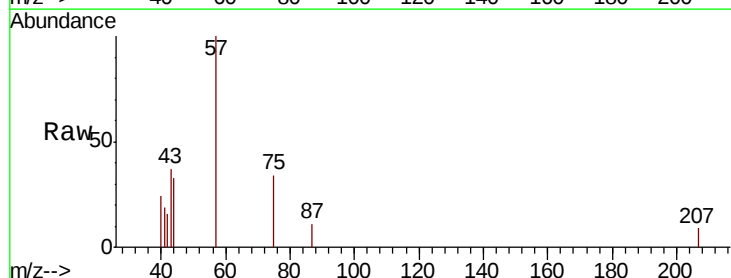
Acq: 26 Jun 2019 12:03

Tgt Ion: 43 Resp: 1405

Ion Ratio Lower Upper

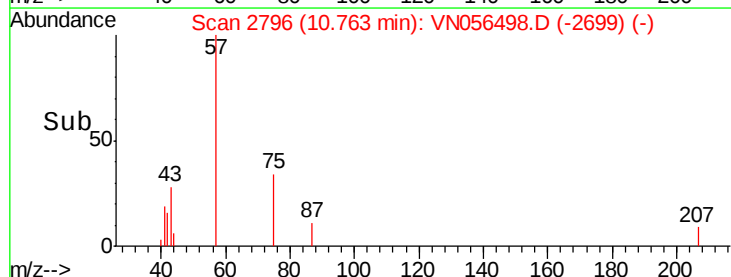
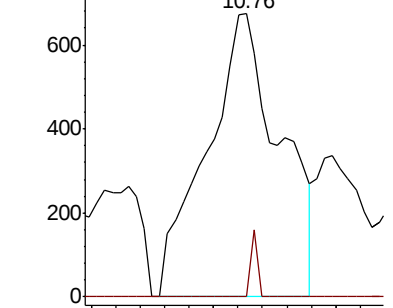
43 100

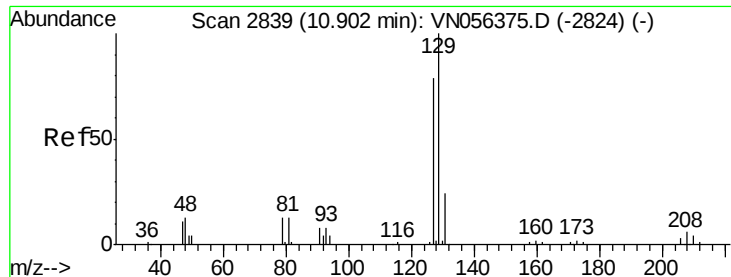
58 2.2 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-2770) (-)

Ion 58.00 (57.70 to 58.70): VN056375.D (-2770) (-)

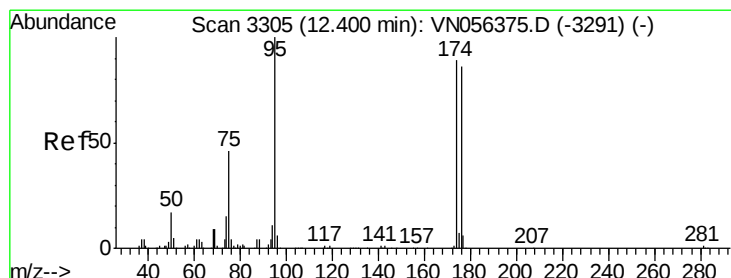
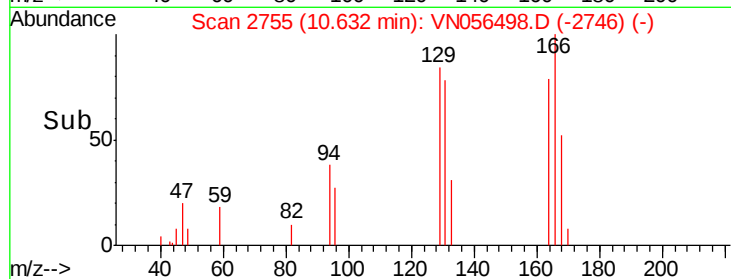
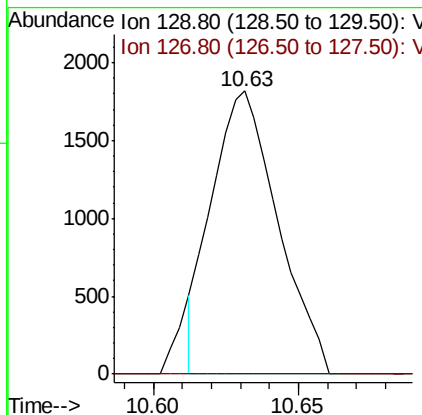
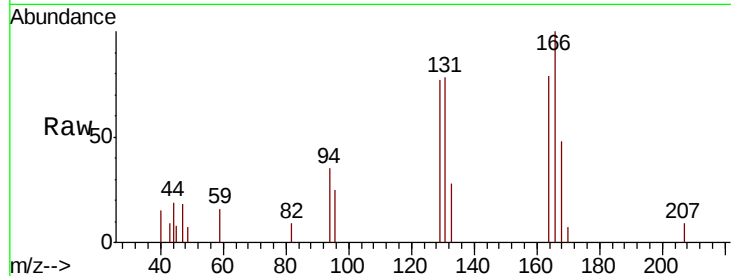




#60
 Dibromochloromethane
 Concen: 3.035 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN056498.D
 Acq: 26 Jun 2019 12:03

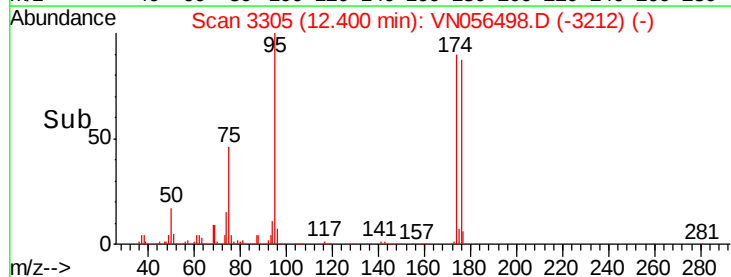
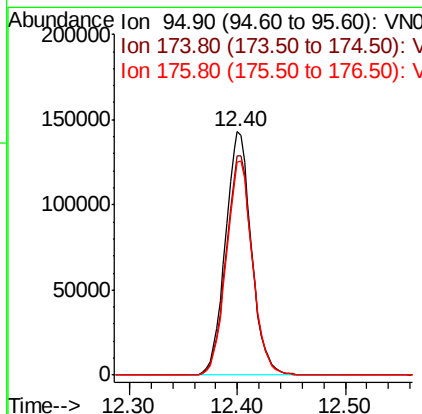
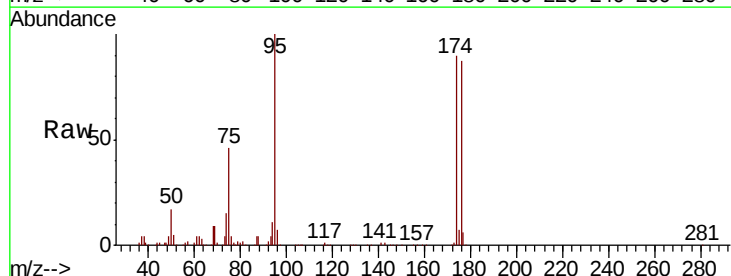
Instrument :
 MSVOA_N
 ClientSampleId :

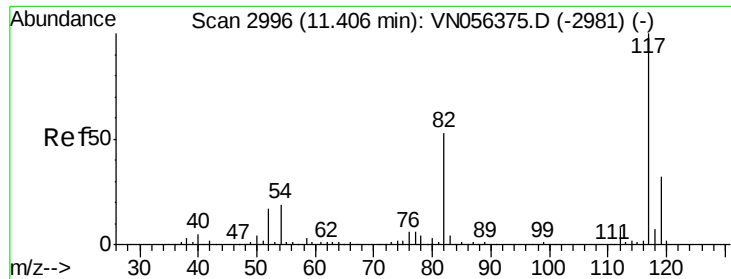
Tot Ion:129 Resp: 2876
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#



#62
 4-Bromofluorobenzene
 Concen: 48.419 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN056498.D
 Acq: 26 Jun 2019 12:03

Tgt Ion: 95 Resp: 240163
 Ion Ratio Lower Upper
 95 100
 174 90.6 0.0 179.4
 176 88.2 0.0 173.4

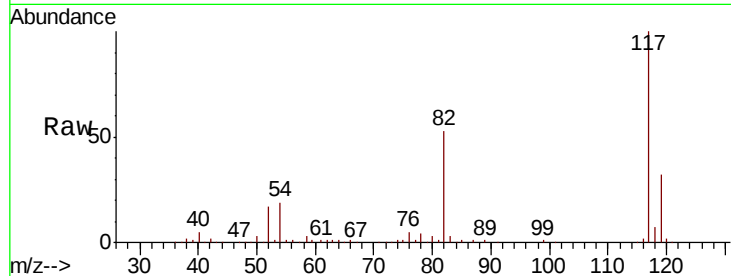




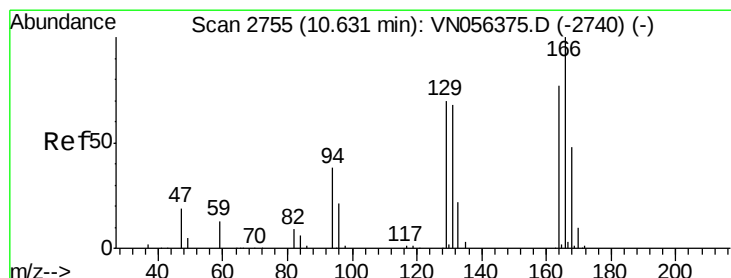
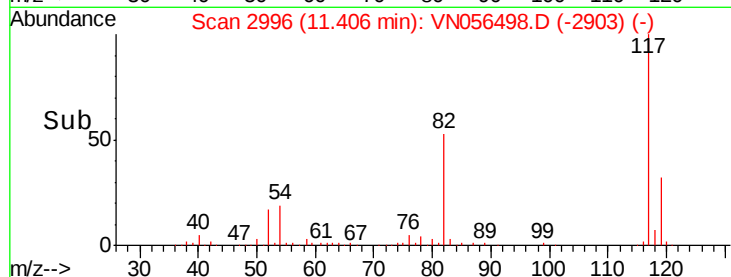
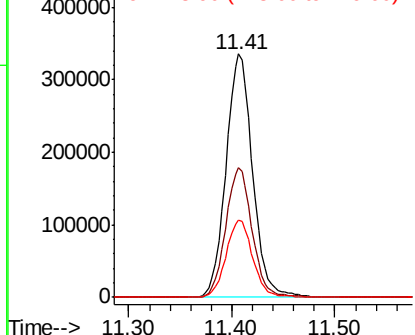
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056498.D
Acq: 26 Jun 2019 12:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 601623
Ion Ratio Lower Upper
117 100
82 53.1 42.0 63.0
119 31.7 25.3 37.9

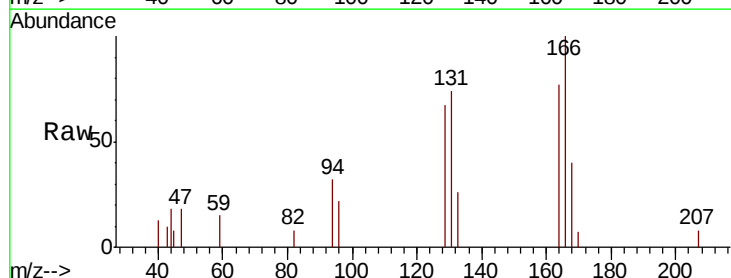


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

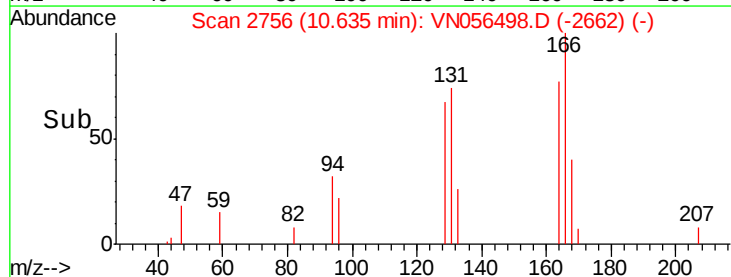
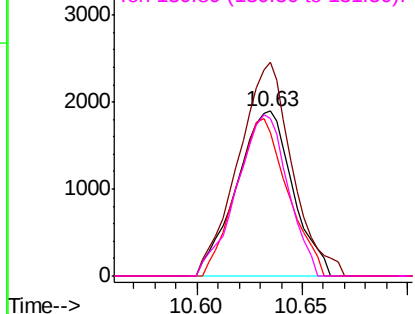


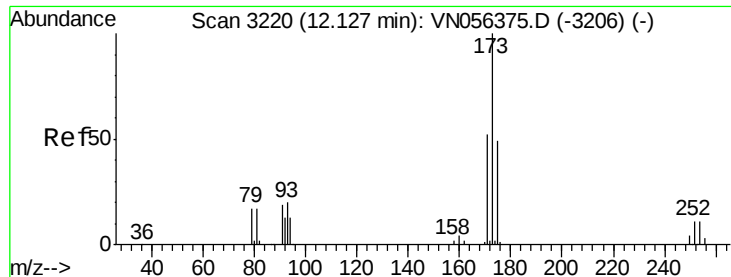
#64
Tetrachloroethene
Concen: 0.739 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN056498.D
Acq: 26 Jun 2019 12:03

Tgt Ion:164 Resp: 3519
Ion Ratio Lower Upper
164 100
166 129.4 103.4 155.0
129 86.7 72.0 108.0
131 95.7 70.2 105.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

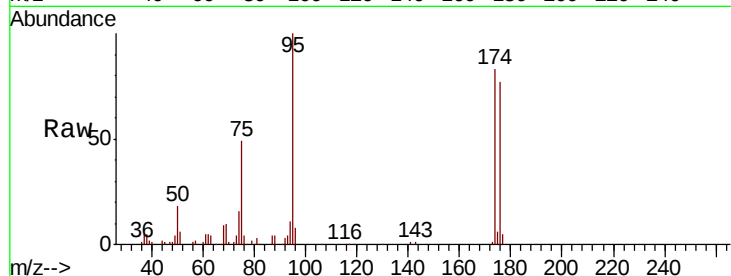




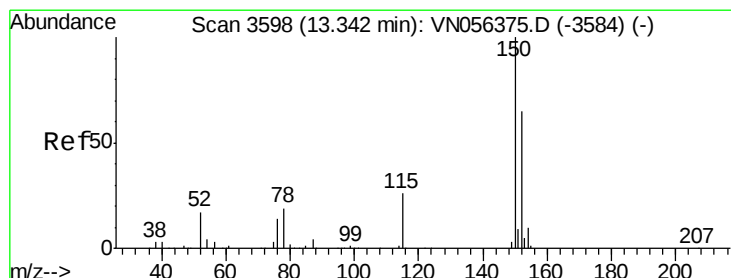
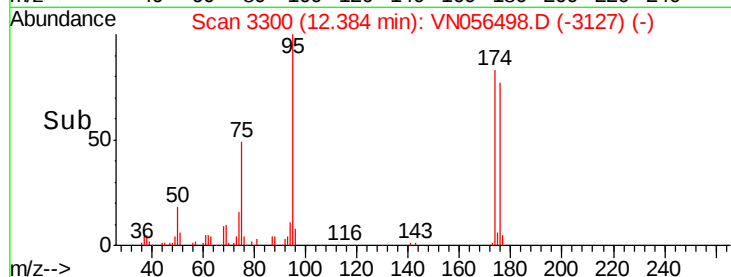
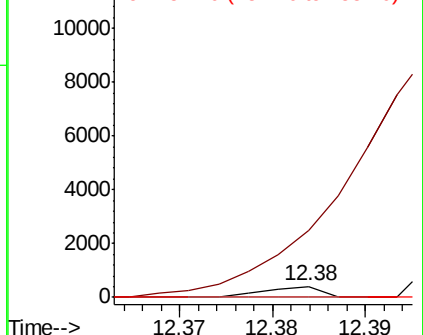
#71
Bromoform
Concen: 3.190 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN056498.D
Acq: 26 Jun 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 168
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.4#
254 0.0 0.0 0.0

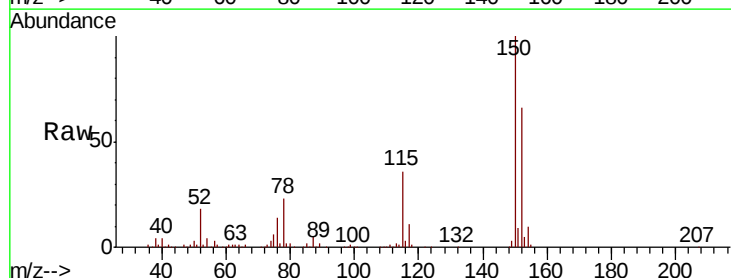


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

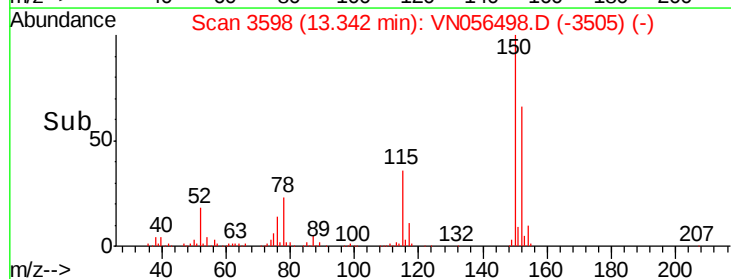
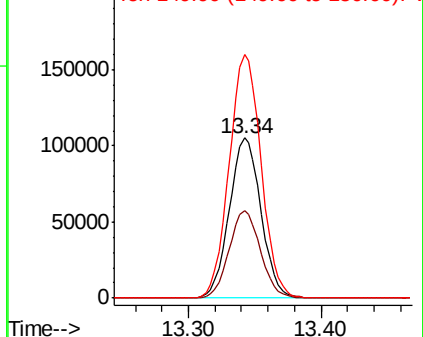


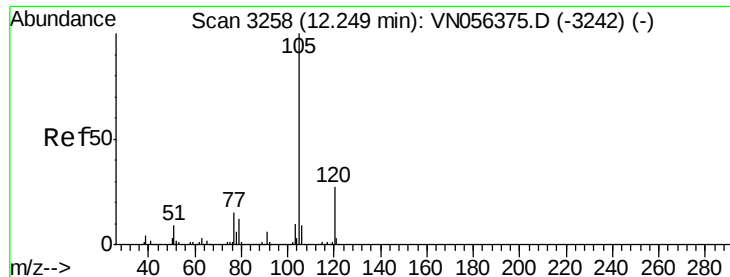
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056498.D
Acq: 26 Jun 2019 12:03

Tgt Ion:152 Resp: 174350
Ion Ratio Lower Upper
152 100
115 54.2 28.1 84.4
150 153.5 0.0 348.4



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: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

Instrument :

MSVOA_N

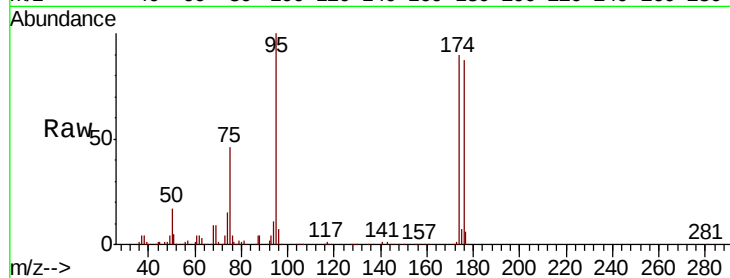
ClientSampleId :

Tot Ion: 105.00 Resp: 132

Ion Ratio Lower Upper

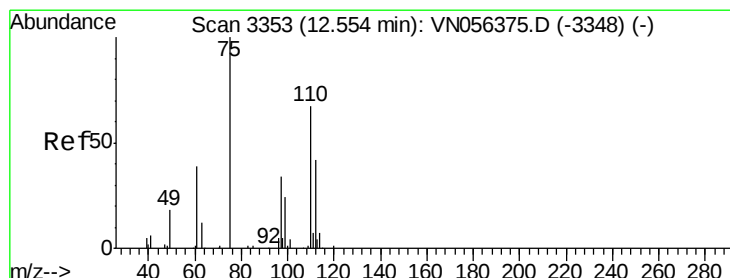
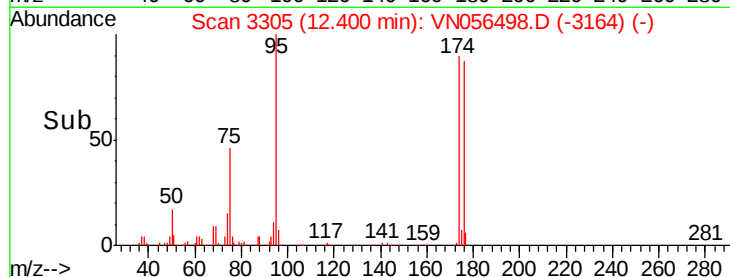
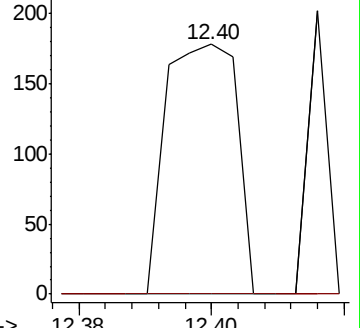
105 100

120 0.0 13.4 40.2#



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: 30.633 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056498.D

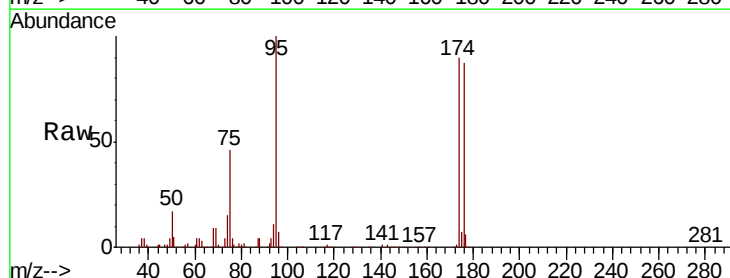
Acq: 26 Jun 2019 12:03

Tgt Ion: 75 Resp: 110743

Ion Ratio Lower Upper

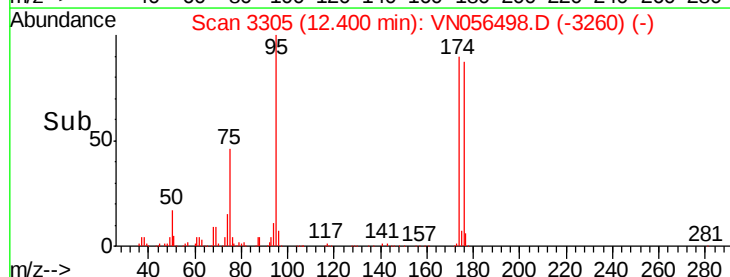
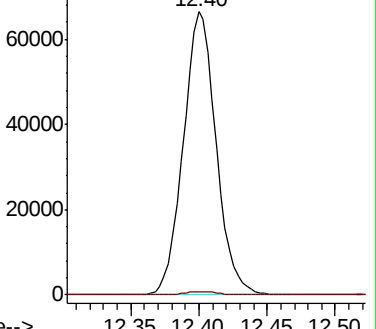
75 100

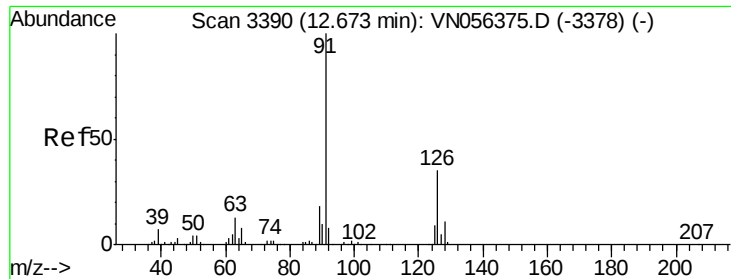
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.76 min Scan# 3418

Delta R.T. 0.09 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

Instrument :

MSVOA_N

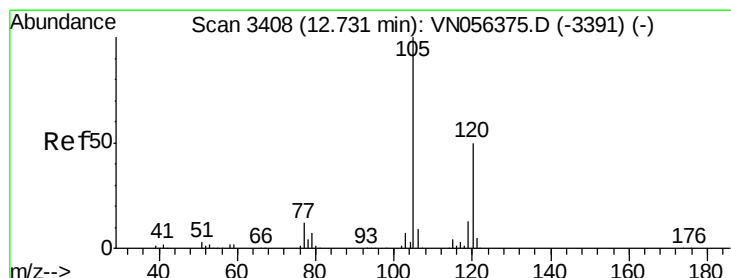
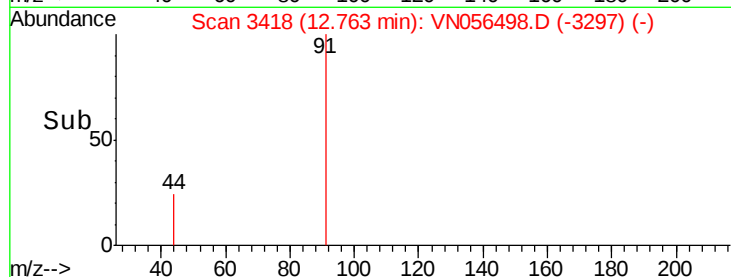
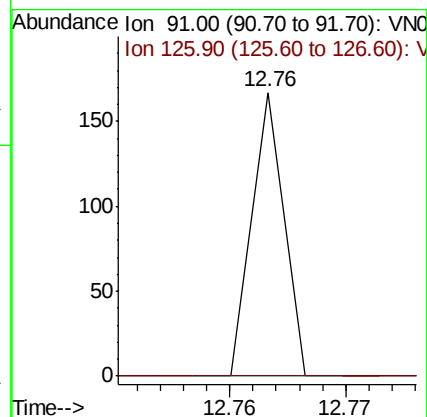
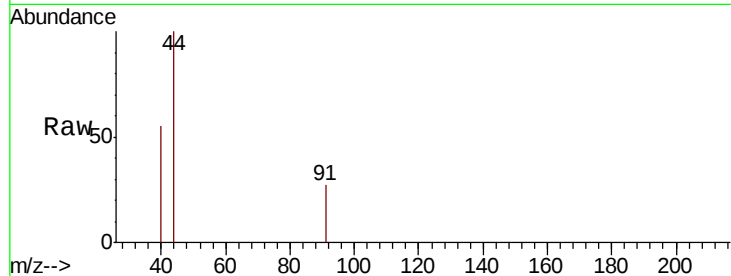
ClientSampled :

Tot Ion: 91 Resp: 32

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN056498.D

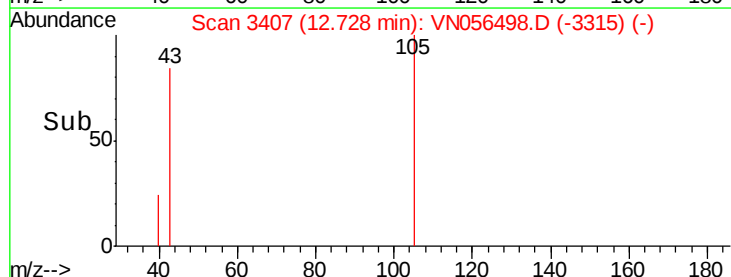
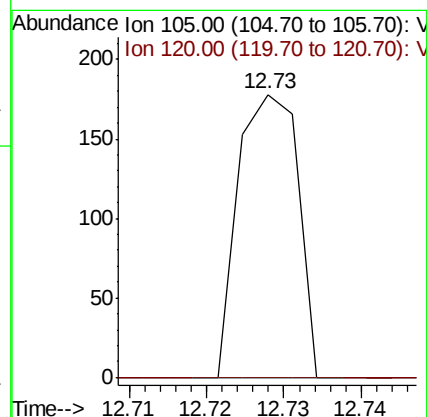
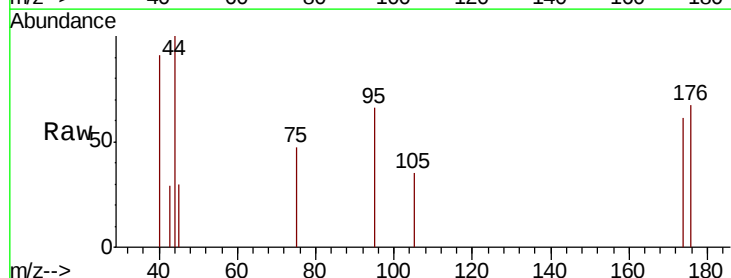
Acq: 26 Jun 2019 12:03

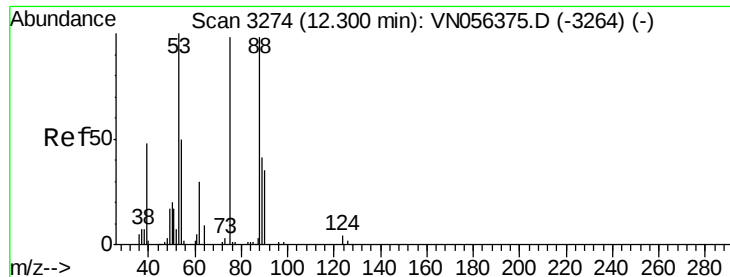
Tgt Ion: 105 Resp: 96

Ion Ratio Lower Upper

105 100

120 0.0 24.8 74.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 108.873 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

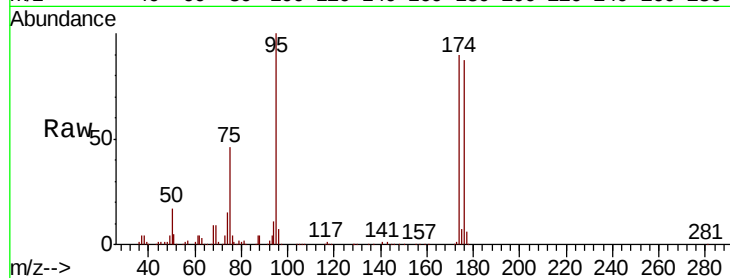
Tot Ion: 75 Resp: 110743

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

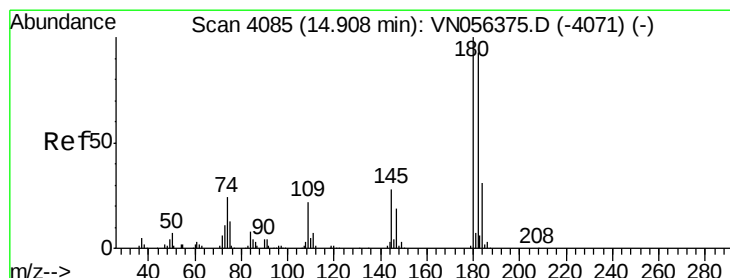
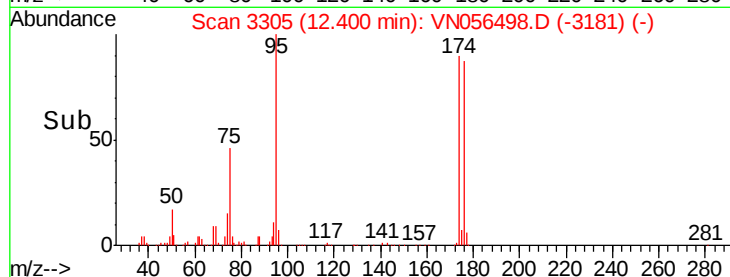
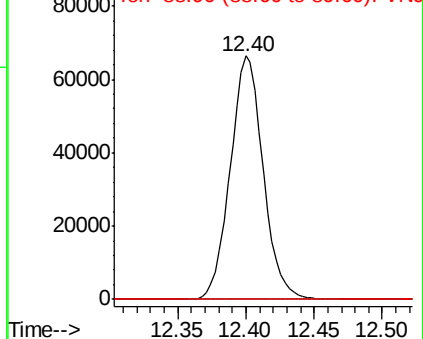
89 0.0 35.0 52.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056375.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN056375.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN056375.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 5.656 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

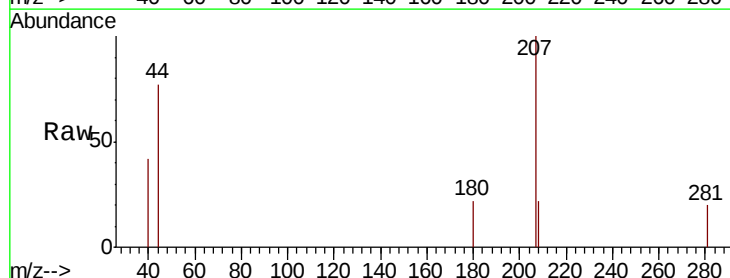
Tgt Ion:180 Resp: 143

Ion Ratio Lower Upper

180 100

182 0.0 46.9 140.6#

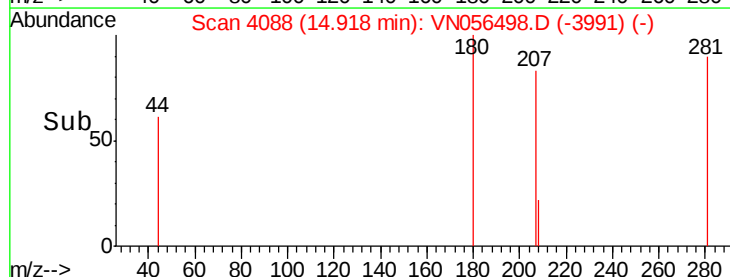
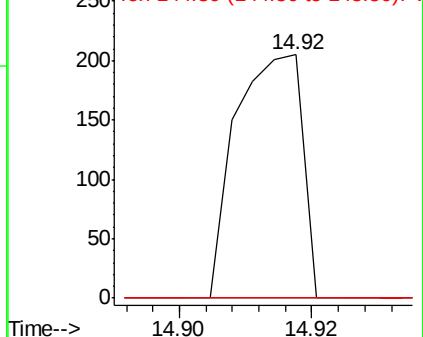
145 0.0 14.4 43.0#

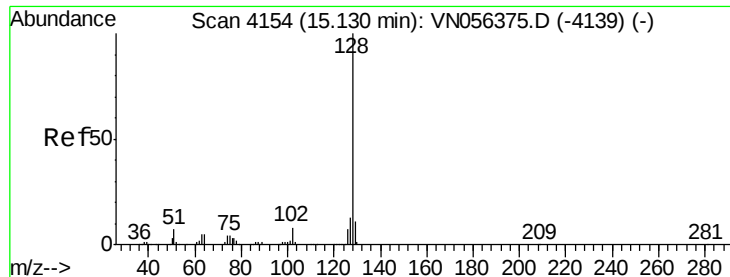


Abundance Ion 179.80 (179.50 to 180.50): VN056375.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN056375.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN056375.D (-4071) (-)





#95

Naphthalene

Concen: 5.275 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

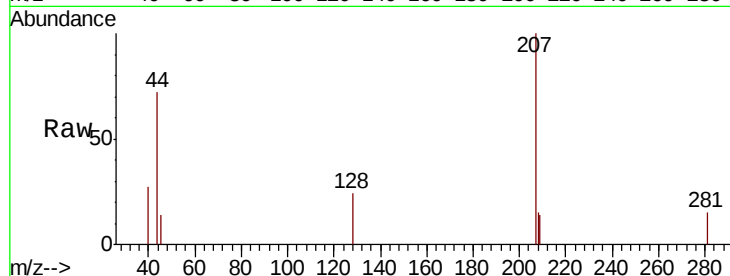
Tot Ion:128 Resp: 273

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

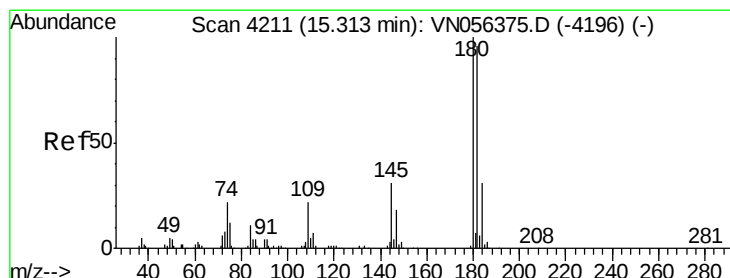
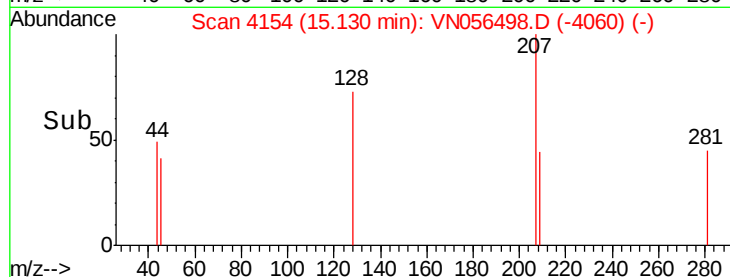
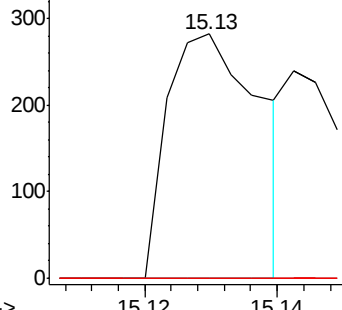
129 0.0 8.6 12.8#



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: 4.548 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056498.D

Acq: 26 Jun 2019 12:03

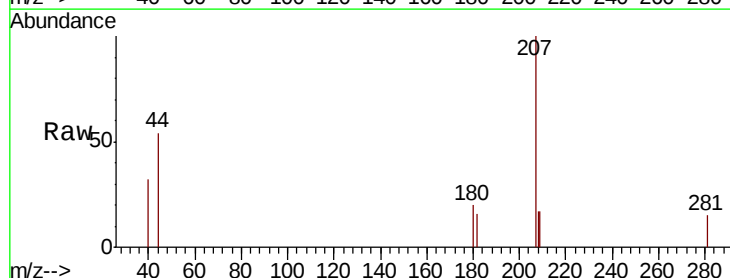
Tgt Ion:180 Resp: 231

Ion Ratio Lower Upper

180 100

182 77.5 48.3 144.8

145 0.0 15.4 46.1#



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

