

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056147.D
 Acq On : 8 Jun 2019 12:27
 Operator : JC/SP
 Sample : K3225-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 10 01:24:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	323610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	496288	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474699	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	156183	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	172939	53.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.64%	
35) Dibromofluoromethane	7.59	113	151596	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
50) Toluene-d8	10.09	98	635287	54.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.44%	
62) 4-Bromofluorobenzene	12.40	95	200755	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	

Target Compounds

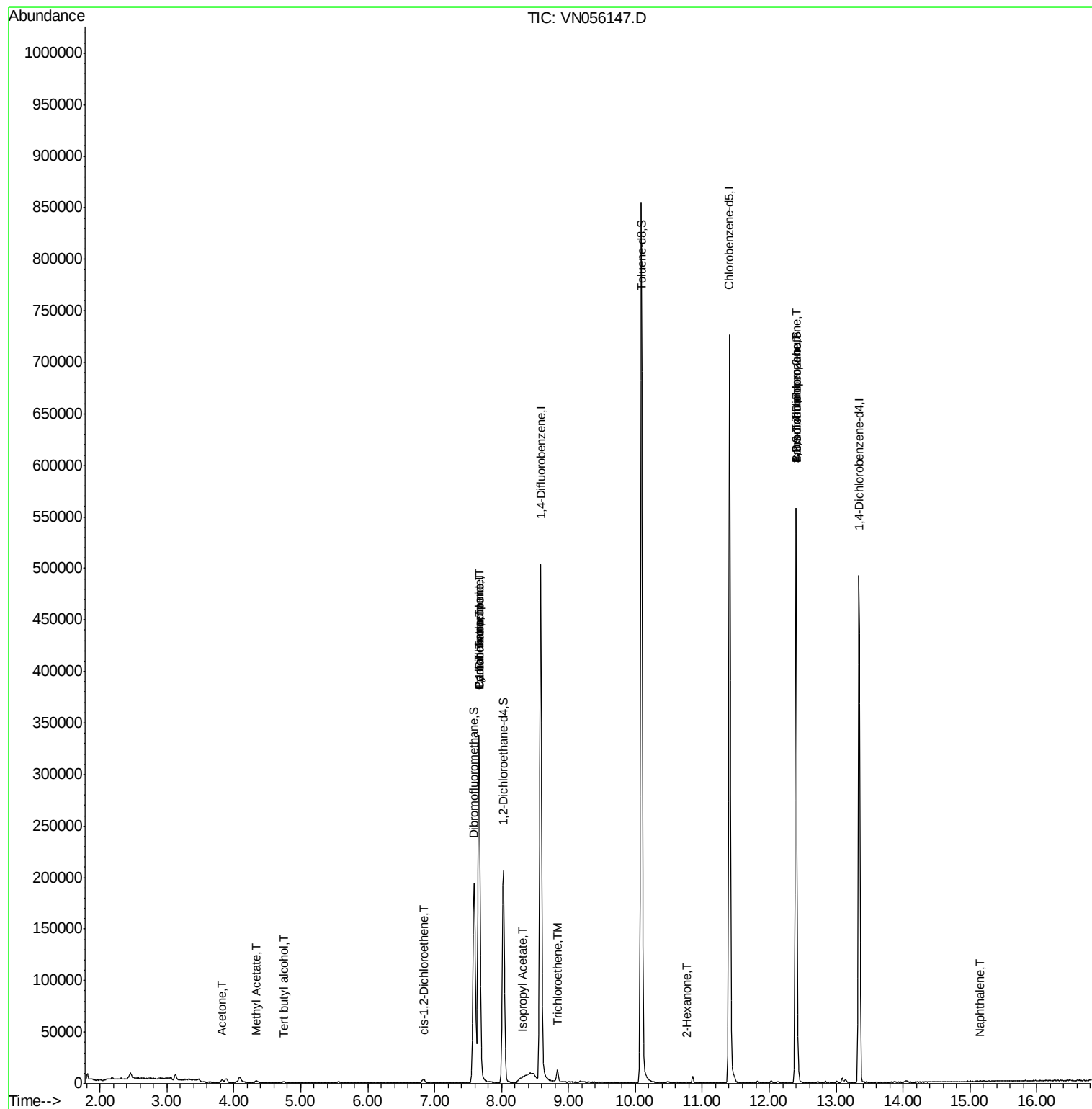
						Qvalue
11) Tert butyl alcohol	4.74	59	350	0.626	ug/l #	74
16) Acetone	3.82	43	4765	3.101	ug/l	89
18) Methyl Acetate	4.34	43	4127	0.798	ug/l #	66
27) cis-1,2-Dichloroethene	6.83	96	2364	0.691	ug/l	93
31) Cyclohexane	7.66	56	4435	0.870	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19210	4.502	ug/l #	48
38) Carbon Tetrachloride	7.66	117	26364	6.701	ug/l #	15
43) Isopropyl Acetate	8.31	43	7137	1.160	ug/l #	53
44) Trichloroethene	8.83	130	4928	1.323	ug/l	90
59) 2-Hexanone	10.76	43	566	0.203	ug/l #	23
71) Bromoform	12.40	173	1429	3.235	ug/l #	1
73) Isopropylbenzene	12.40	105	67	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	93329	32.475	ug/l #	100
79) 2-Chlorotoluene	12.40	91	422	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	93329	108.149	ug/l #	15
95) Naphthalene	15.14	128	230	3.880	ug/l #	69

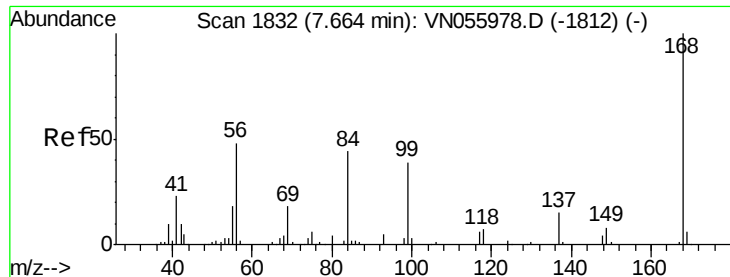
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

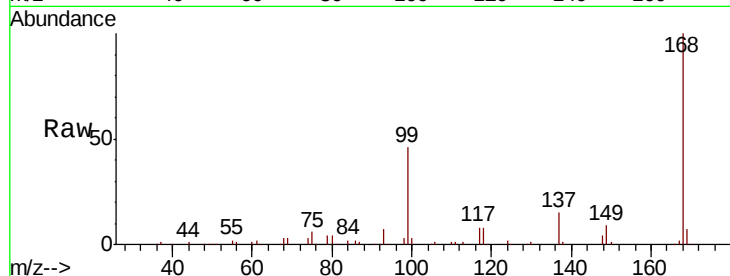
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 323610

Ion Ratio Lower Upper

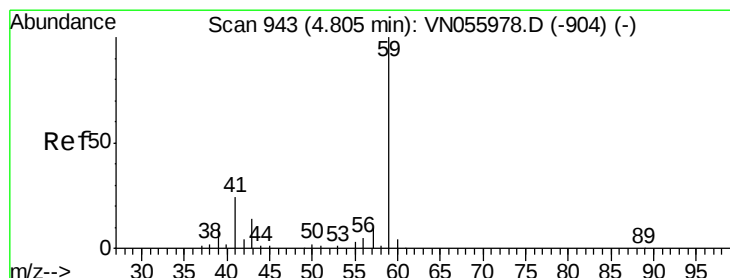
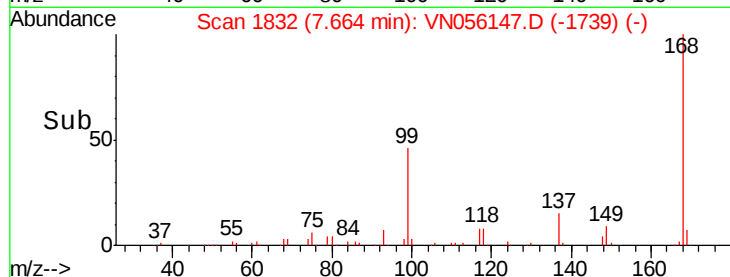
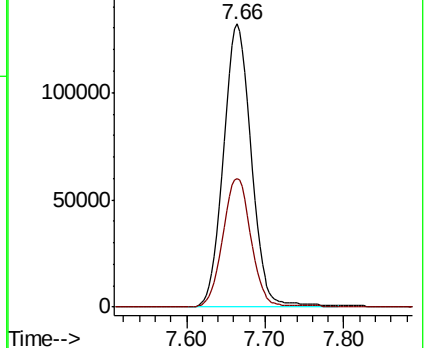
168 100

99 45.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.626 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN056147.D

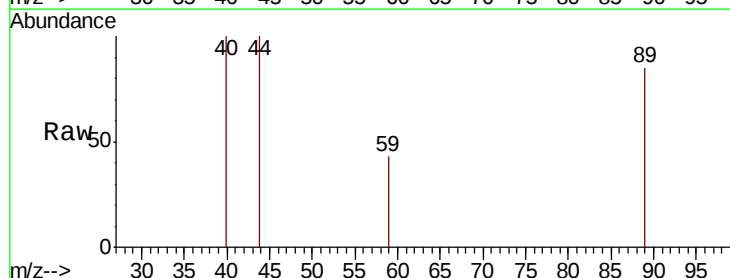
Acq: 8 Jun 2019 12:27

Tgt Ion: 59 Resp: 350

Ion Ratio Lower Upper

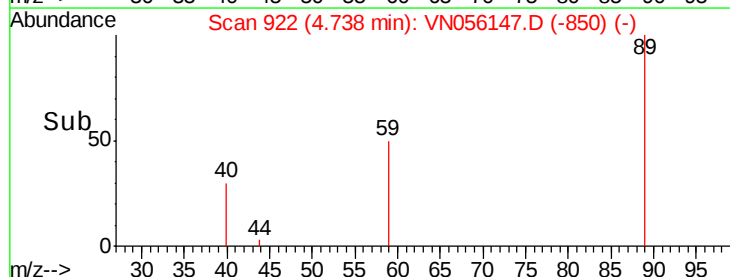
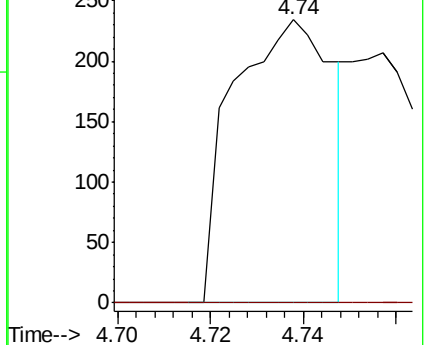
59 100

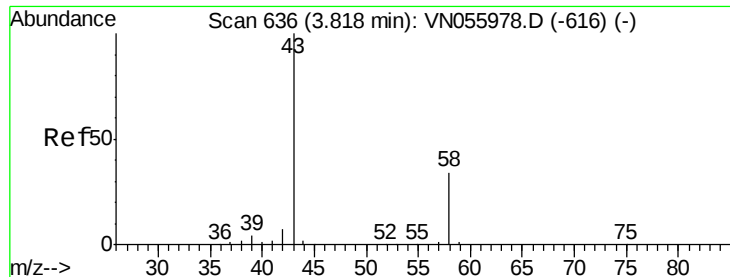
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

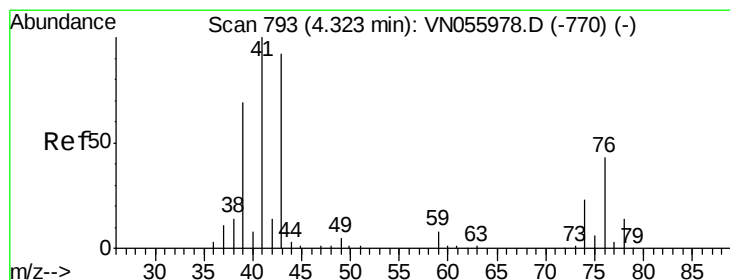
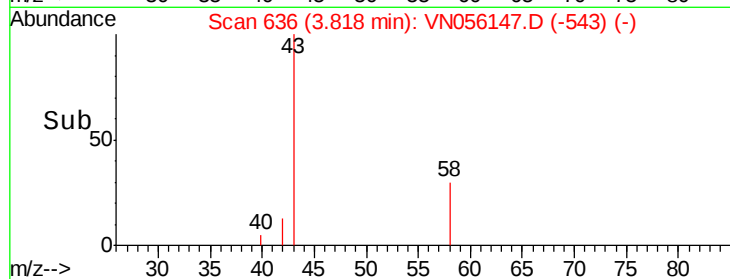
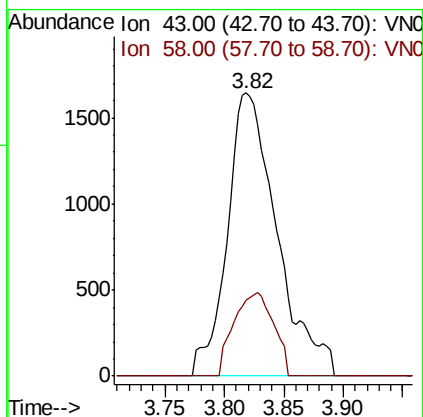
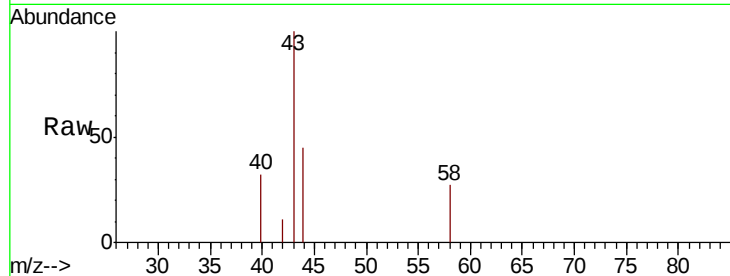




#16
Acetone
Concen: 3.101 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN056147.D
Acq: 8 Jun 2019 12:27

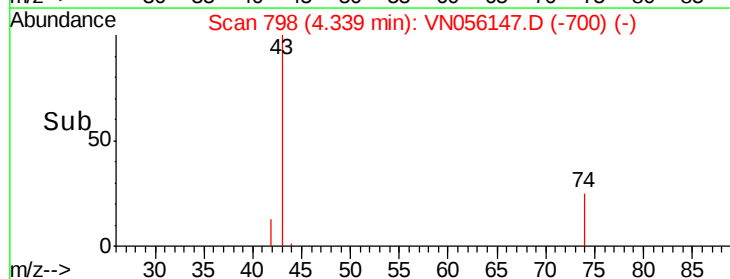
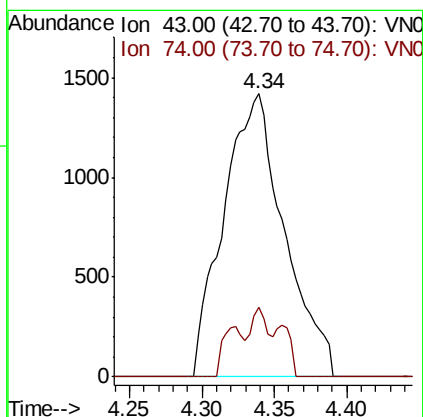
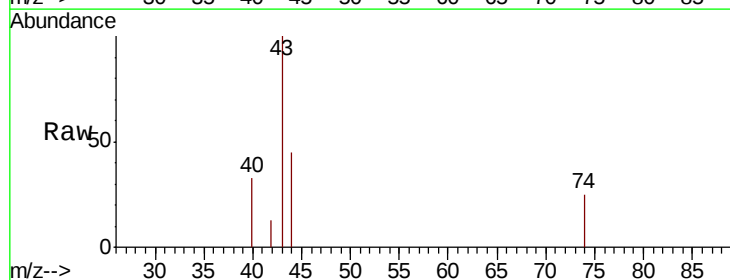
Instrument :
MSVOA_N
ClientSampled :

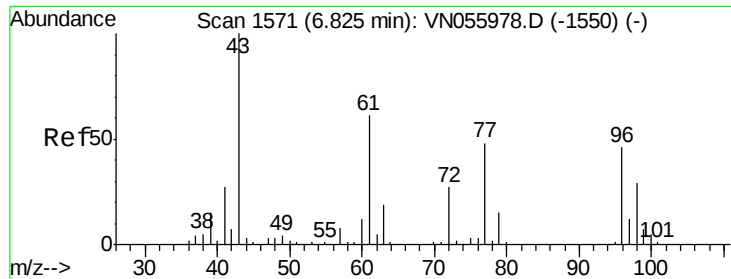
Tot Ion: 43 Resp: 4765
Ion Ratio Lower Upper
43 100
58 26.8 26.6 39.8



#18
Methyl Acetate
Concen: 0.798 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN056147.D
Acq: 8 Jun 2019 12:27

Tgt Ion: 43 Resp: 4127
Ion Ratio Lower Upper
43 100
74 7.4 19.3 28.9#





#27

cis-1,2-Dichloroethene

Concen: 0.691 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

Instrument :
MSVOA_N
ClientSampleId :

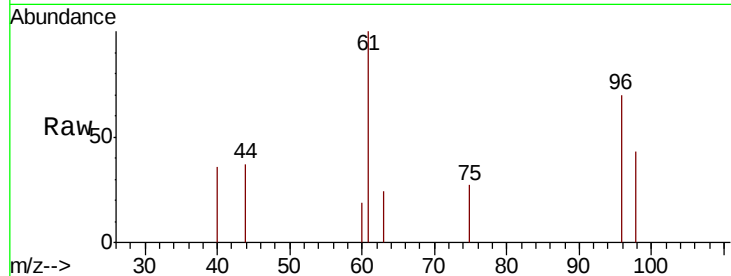
Tot Ion: 96 Resp: 2364

Ion Ratio Lower Upper

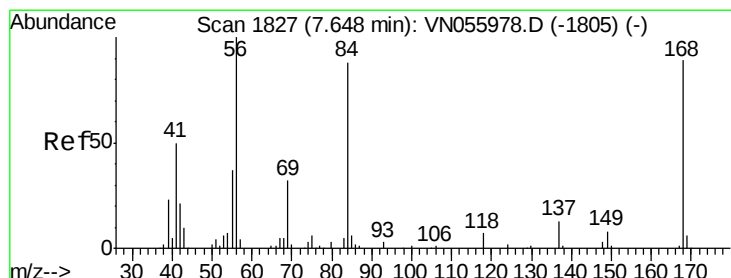
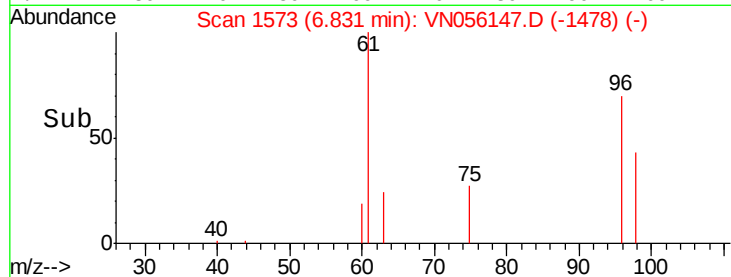
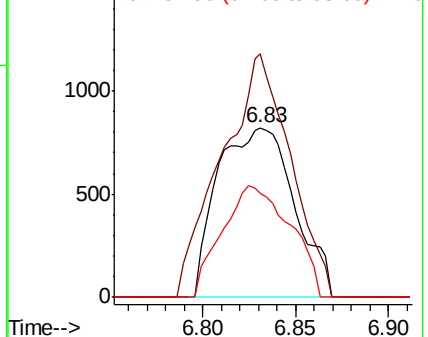
96 100

61 128.7 0.0 275.8

98 58.5 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.870 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

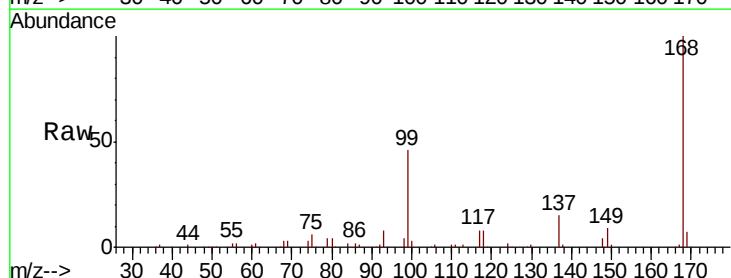
Tgt Ion: 56 Resp: 4435

Ion Ratio Lower Upper

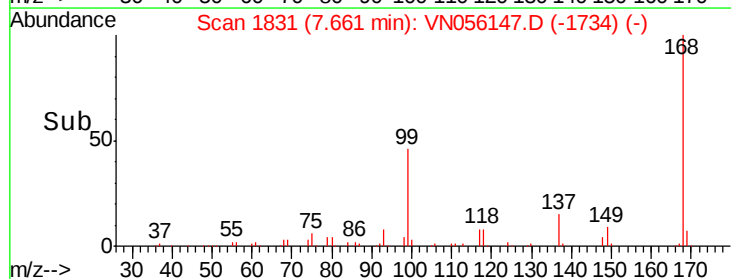
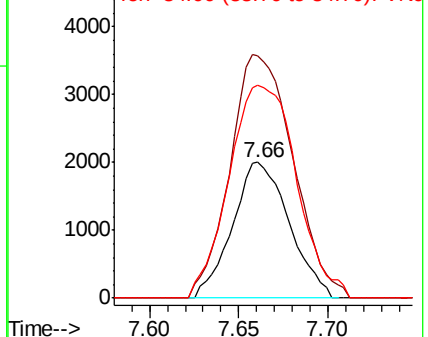
56 100

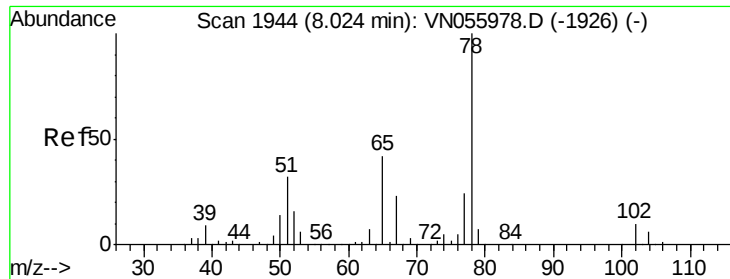
69 177.8 25.6 38.4#

84 156.7 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

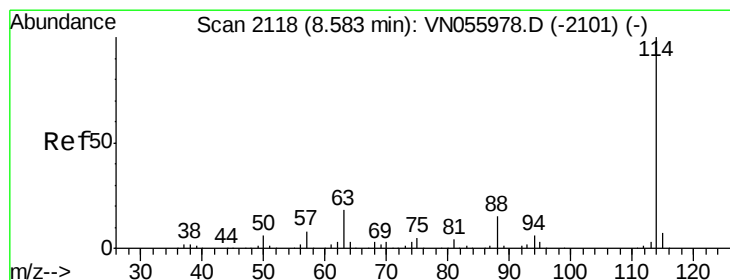
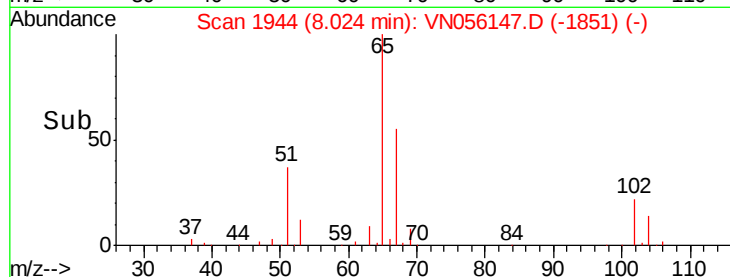
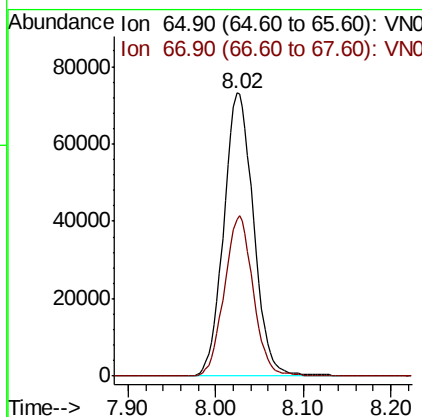
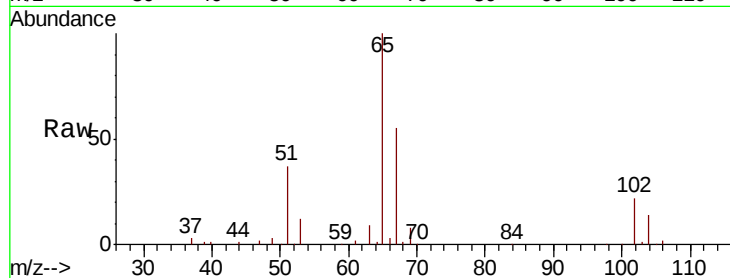




#33
 1,2-Dichloroethane-d4
 Concen: 53.822 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN056147.D
 Acq: 8 Jun 2019 12:27

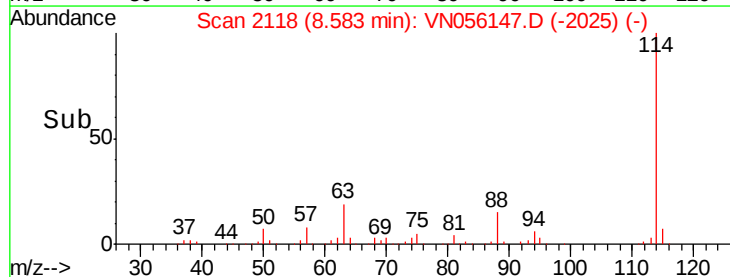
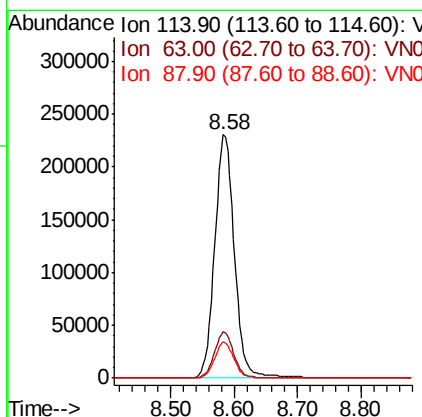
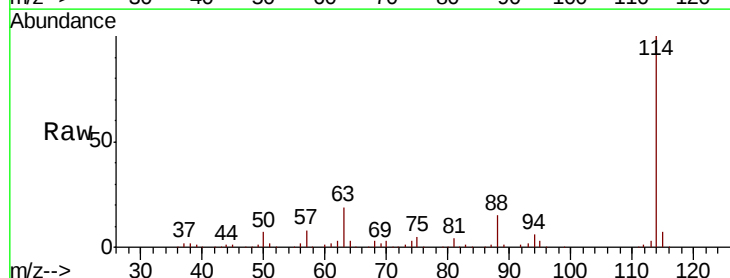
Instrument :
 MSVOA_N
 ClientSampled :

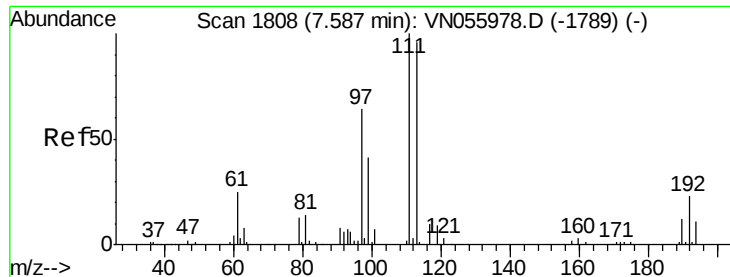
Tot Ion: 65 Resp: 172939
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056147.D
 Acq: 8 Jun 2019 12:27

Tgt Ion: 114 Resp: 496288
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 14.9 0.0 31.0

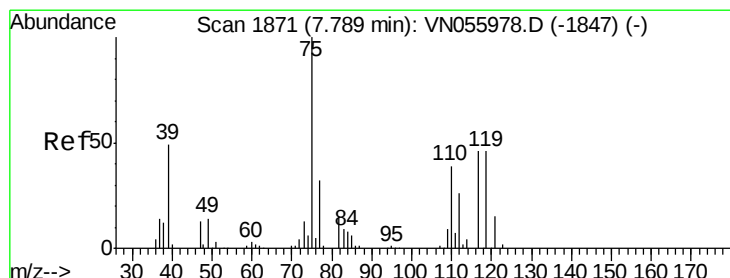
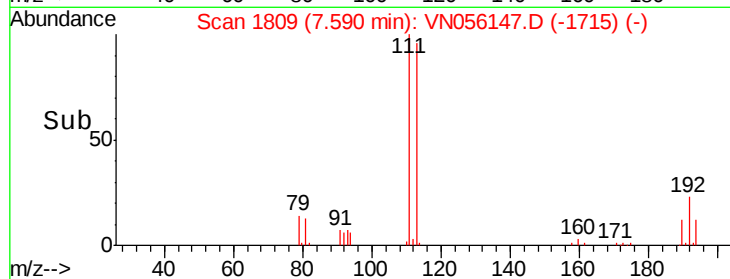
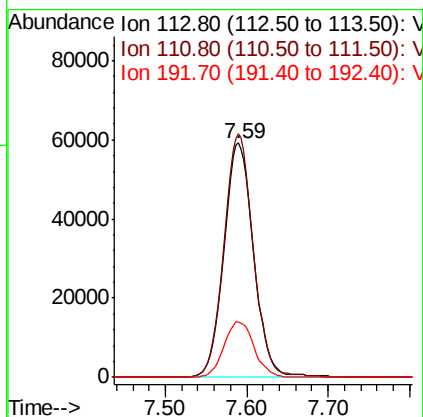
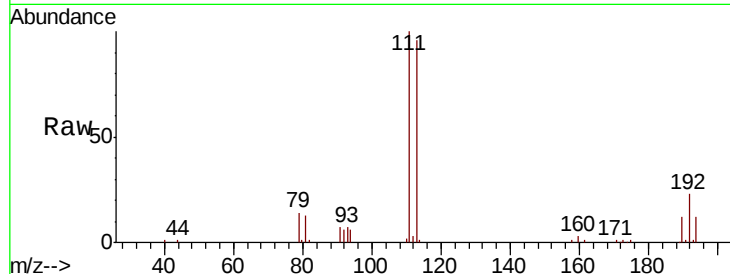




#35
 Dibromofluoromethane
 Concen: 49.787 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056147.D
 Acq: 8 Jun 2019 12:27

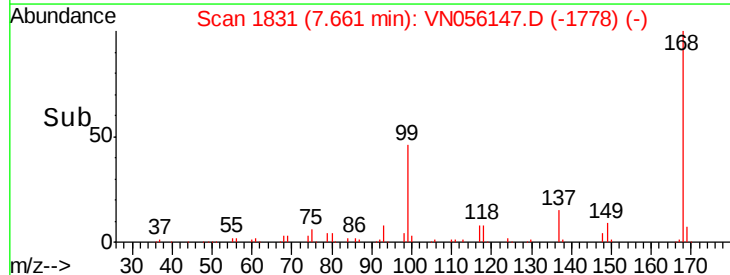
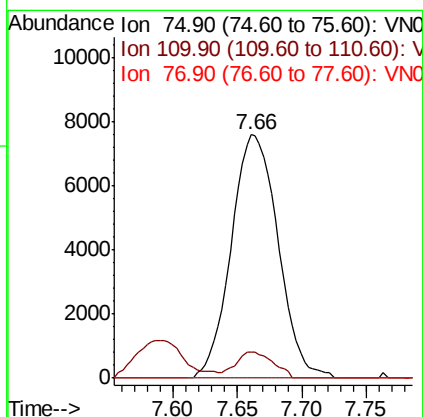
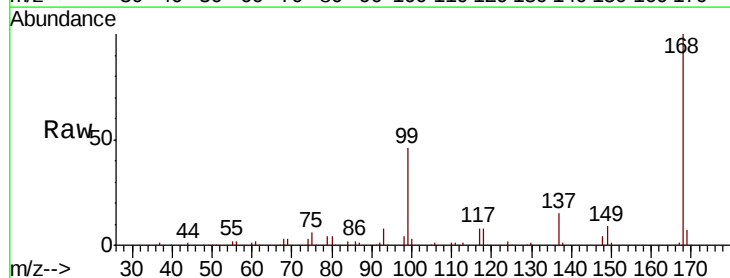
Instrument :
 MSVOA_N
 ClientSampleId :

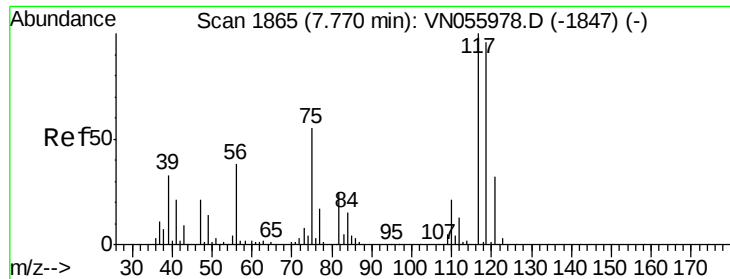
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	24.1	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.502 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056147.D
 Acq: 8 Jun 2019 12:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.701 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

Instrument :

MSVOA_N

ClientSampled :

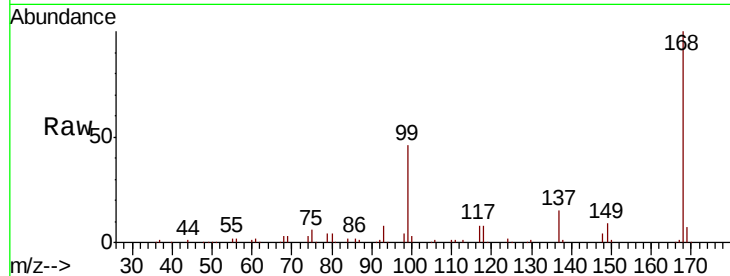
Tot Ion:117 Resp: 26364

Ion Ratio Lower Upper

117 100

119 5.5 79.0 118.6#

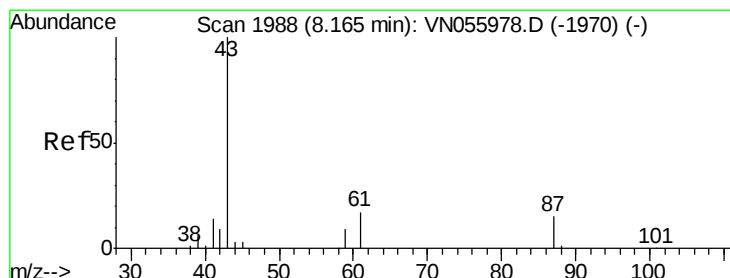
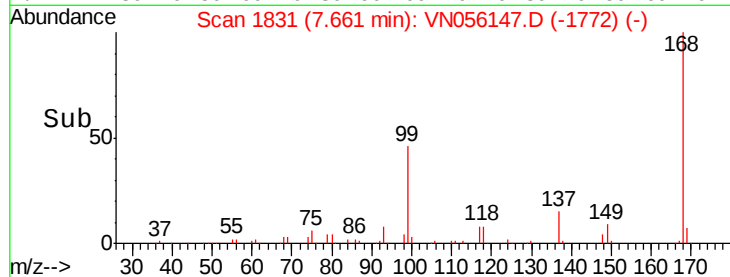
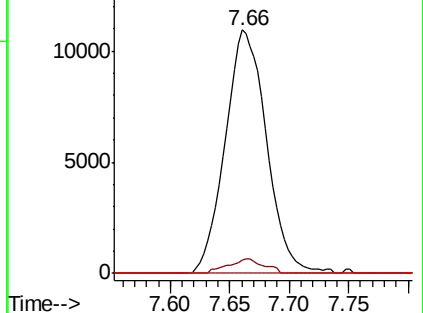
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.160 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.14 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

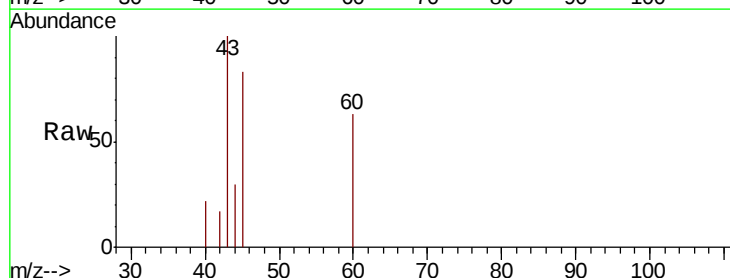
Tgt Ion: 43 Resp: 7137

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

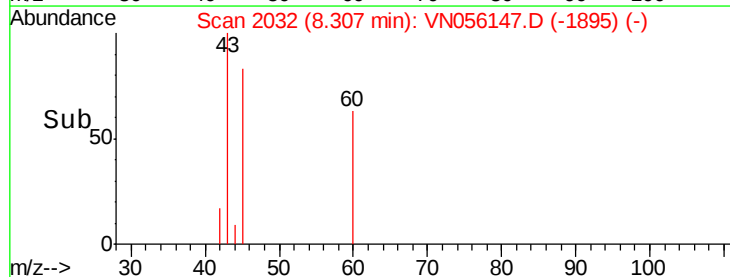
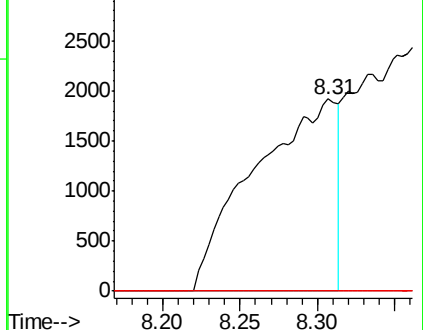
87 0.0 11.4 17.2#

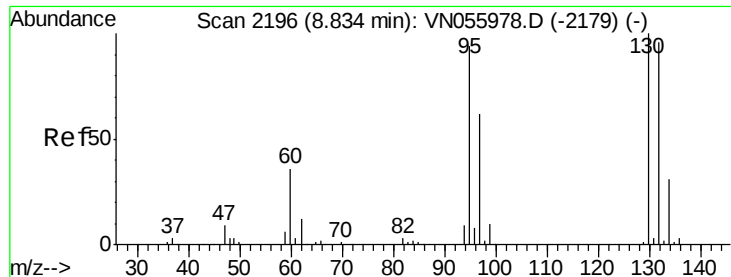


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

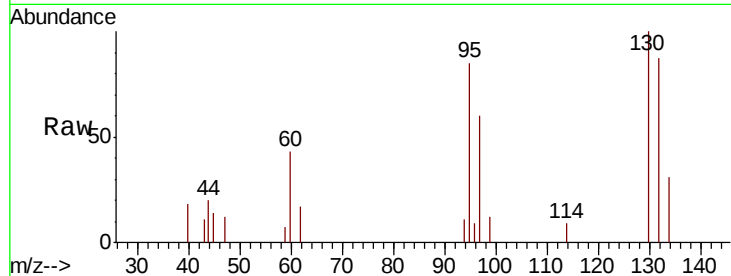




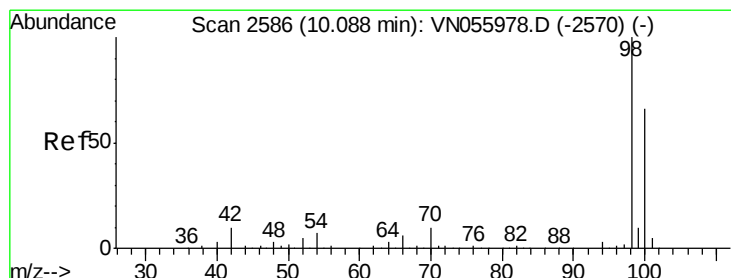
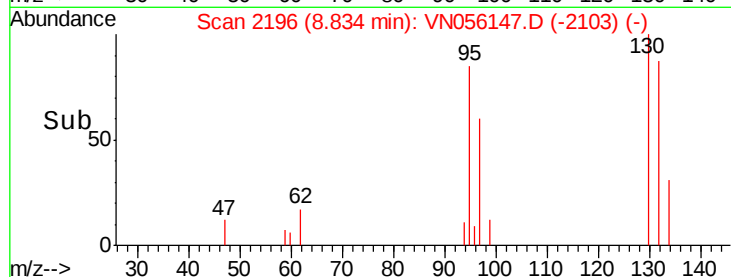
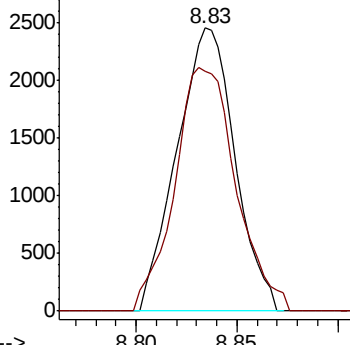
#44
 Trichloroethene
 Concen: 1.323 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN056147.D
 Acq: 8 Jun 2019 12:27

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:130 Resp: 4928
 Ion Ratio Lower Upper
 130 100
 95 84.7 0.0 188.0

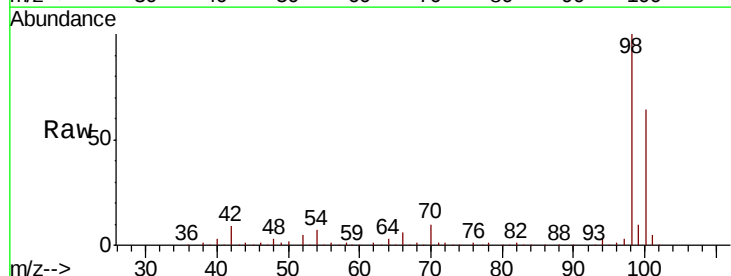


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

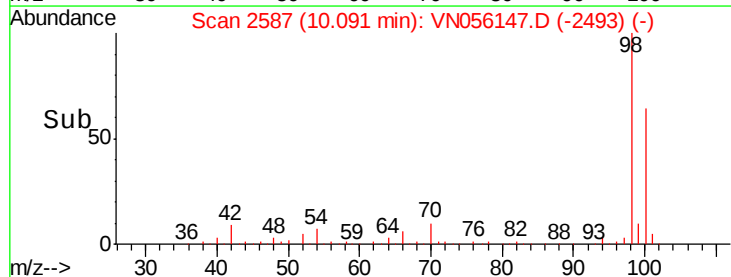
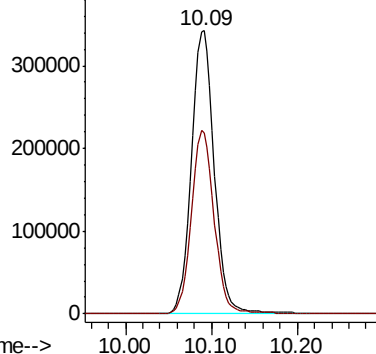


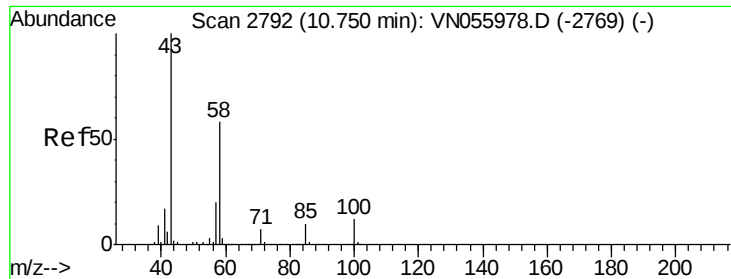
#50
 Toluene-d8
 Concen: 54.220 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN056147.D
 Acq: 8 Jun 2019 12:27

Tgt Ion: 98 Resp: 635287
 Ion Ratio Lower Upper
 98 100
 100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN
 Ion 100.00 (99.70 to 100.70): VN

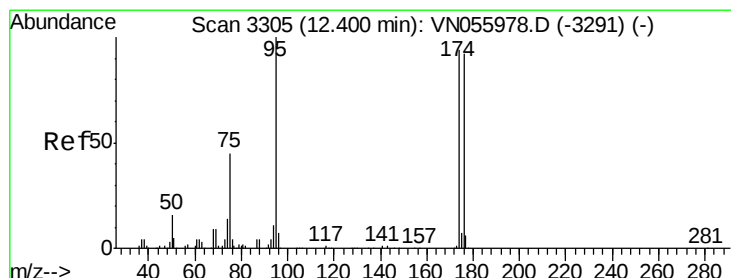
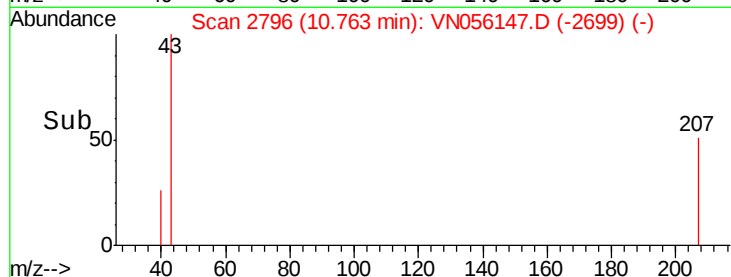
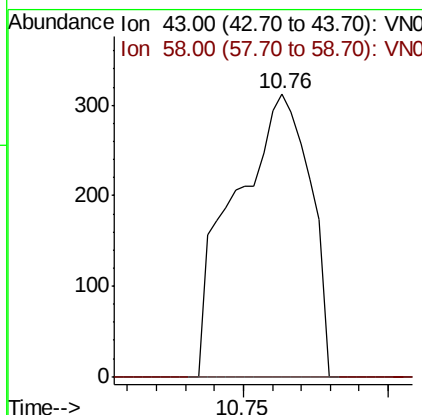
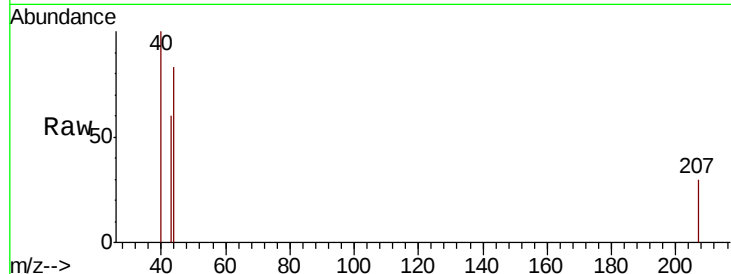




#59
2-Hexanone
Concen: 0.203 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056147.D
Acq: 8 Jun 2019 12:27

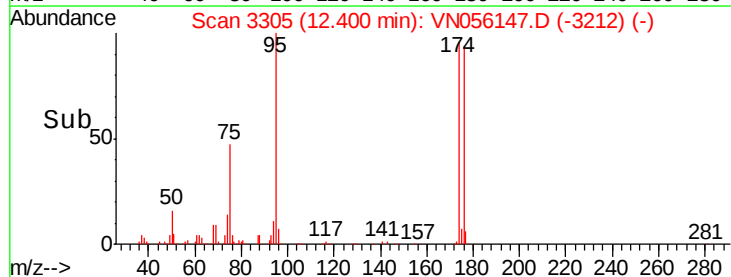
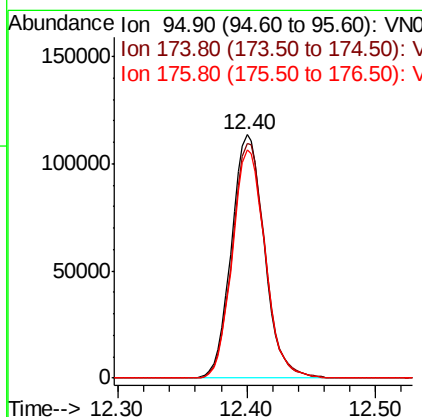
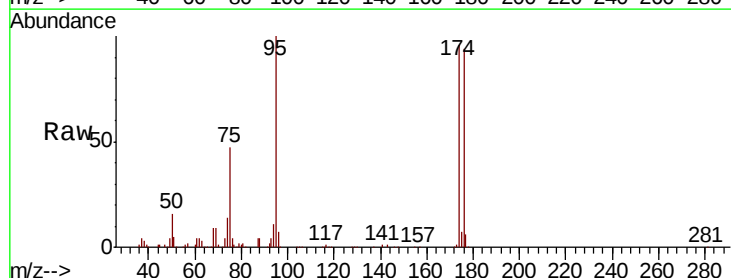
Instrument :
MSVOA_N
ClientSampleId :

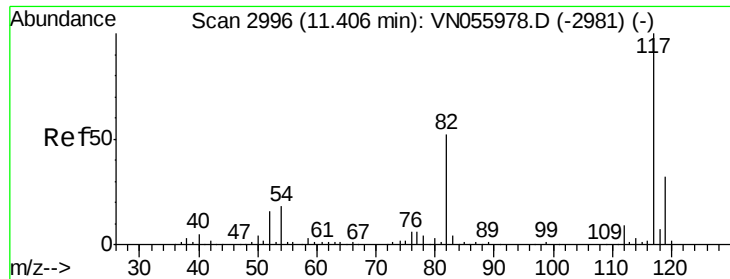
Tot Ion: 43 Resp: 566
Ion Ratio Lower Upper
43 100
58 0.0 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 50.383 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056147.D
Acq: 8 Jun 2019 12:27

Tgt Ion: 95 Resp: 200755
Ion Ratio Lower Upper
95 100
174 97.0 0.0 191.0
176 94.0 0.0 185.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

Instrument :

MSVOA_N

ClientSampleId :

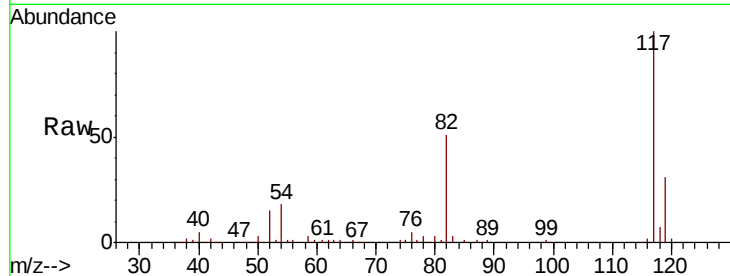
Tot Ion:117 Resp: 474699

Ion Ratio Lower Upper

117 100

82 51.4 41.8 62.8

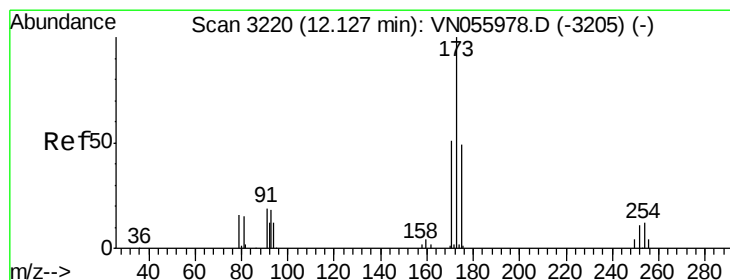
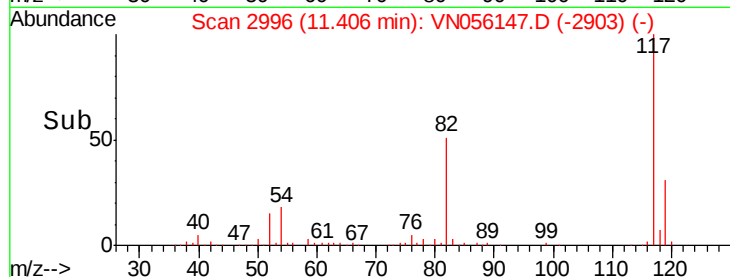
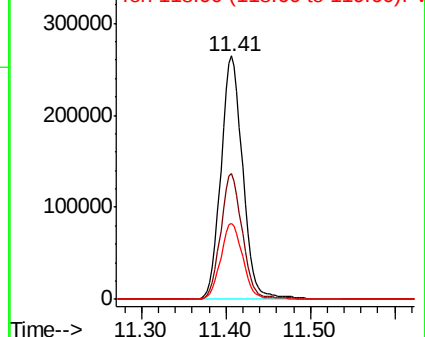
119 31.2 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.235 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

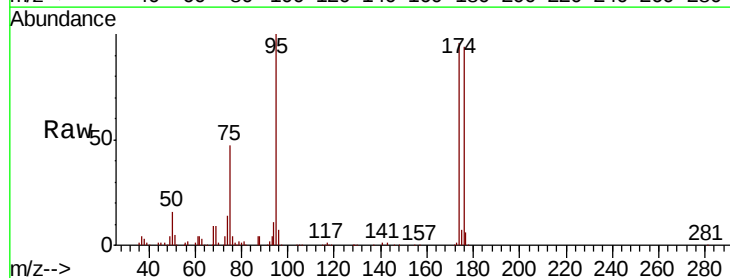
Tgt Ion:173 Resp: 1429

Ion Ratio Lower Upper

173 100

175 830.0 24.3 72.8#

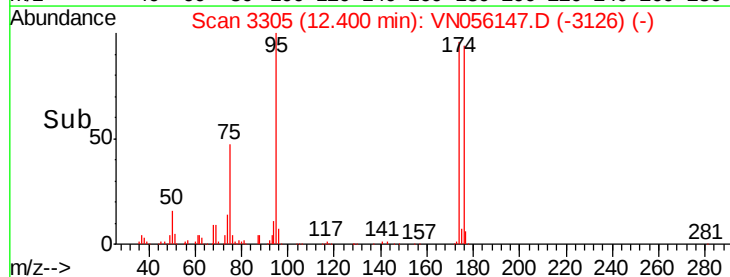
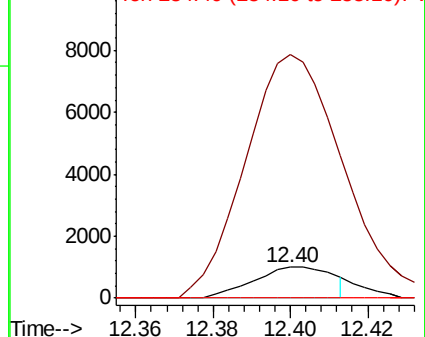
254 0.0 0.0 0.0

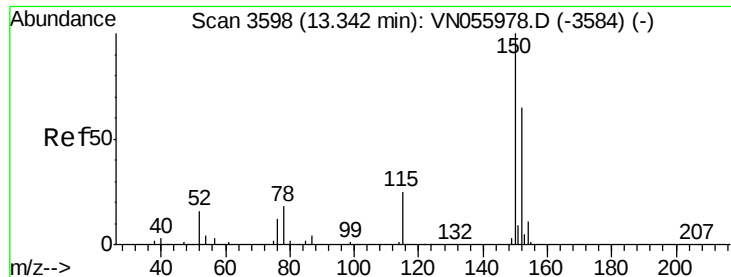


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



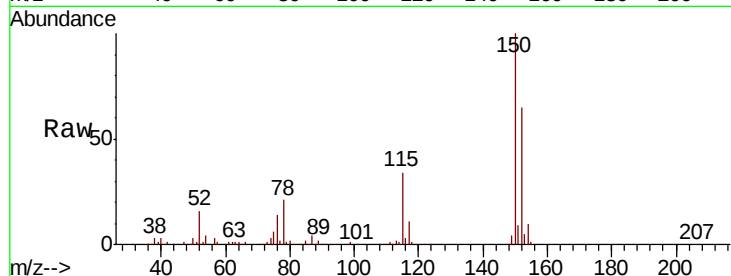


#72

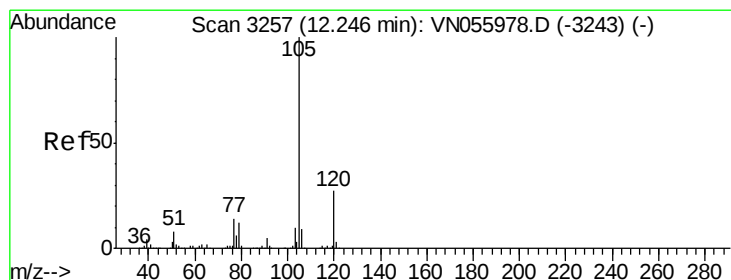
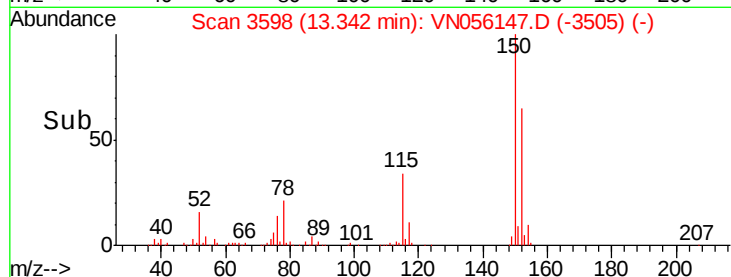
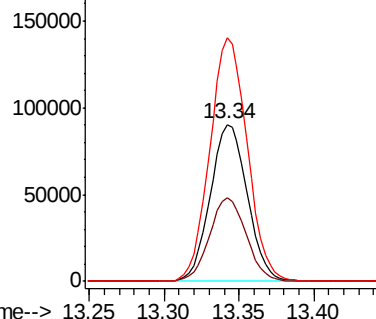
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056147.D
Acq: 8 Jun 2019 12:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	52.9	27.0	81.0
150	156.2	0.0	343.2



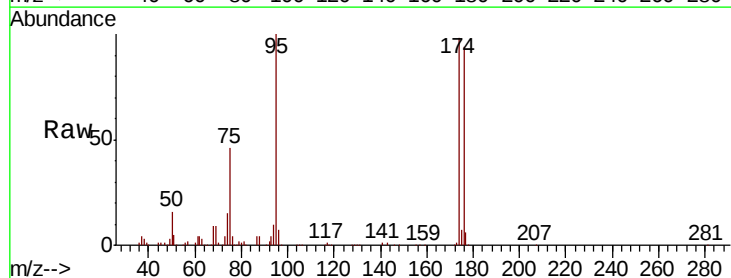
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



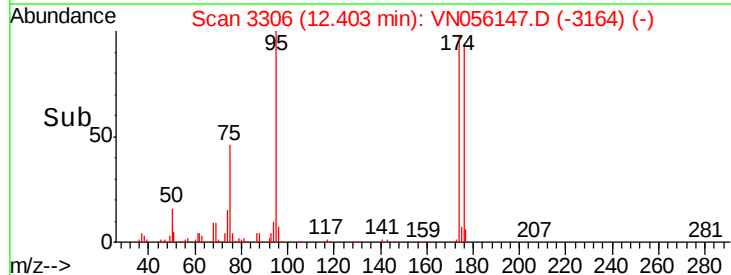
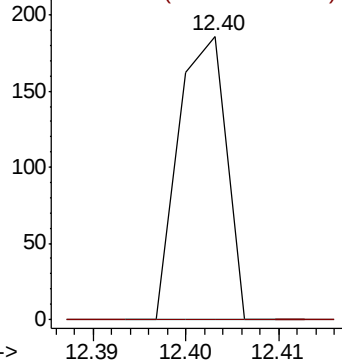
#73

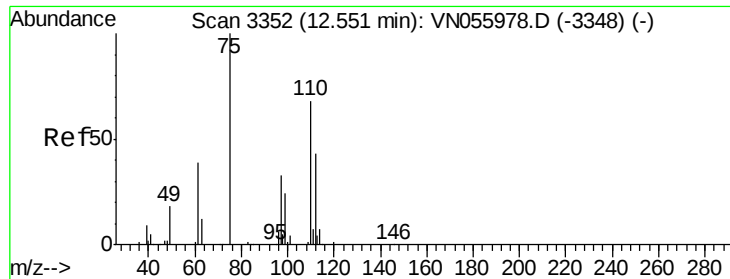
Isopropylbenzene
Concen: Below Cal
RT: 12.40 min Scan# 3306
Delta R.T. 0.16 min
Lab File: VN056147.D
Acq: 8 Jun 2019 12:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 32.475 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

Instrument :

MSVOA_N

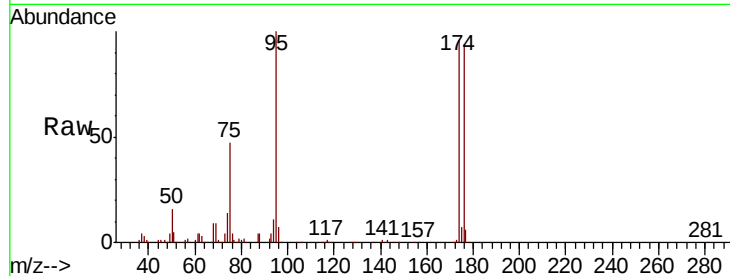
ClientSampleId :

Tot Ion: 75 Resp: 93329

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

60000

50000

40000

30000

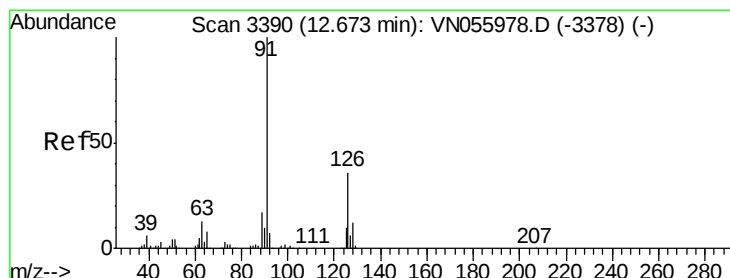
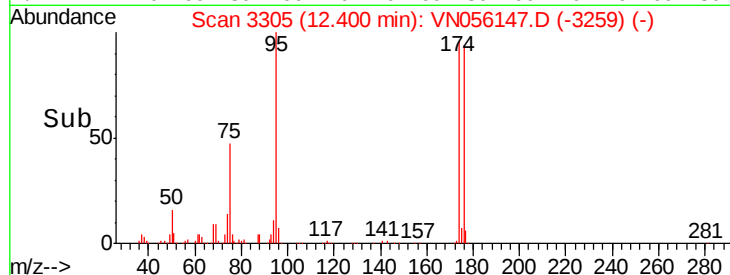
20000

10000

0

12.35 12.40 12.45 12.50

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056147.D

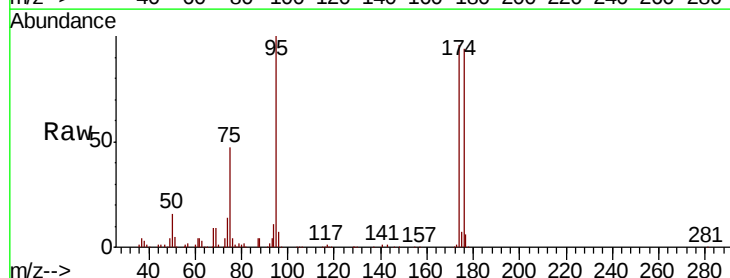
Acq: 8 Jun 2019 12:27

Tgt Ion: 91 Resp: 422

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.40

300

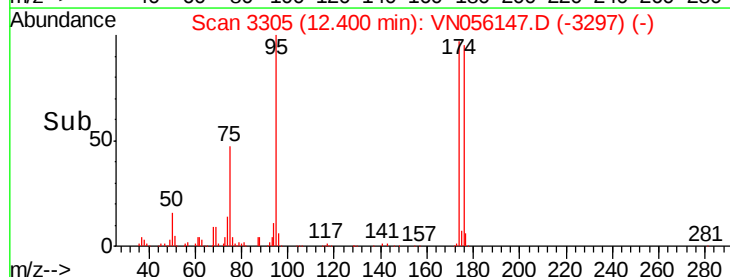
200

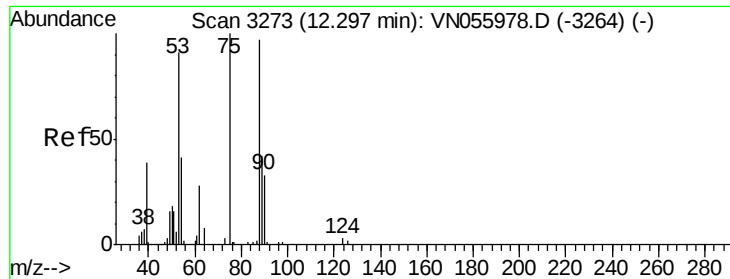
100

0

12.38 12.40 12.42

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 108.149 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

Instrument :

MSVOA_N

ClientSampleId :

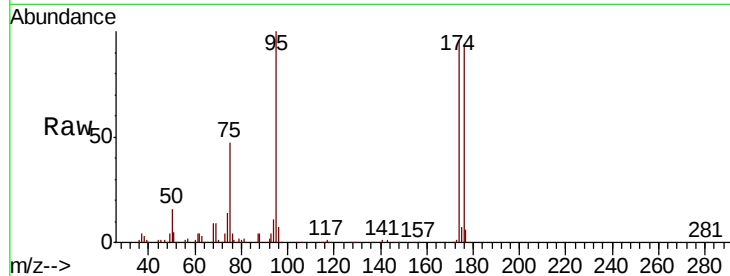
Tot Ion: 75 Resp: 93329

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

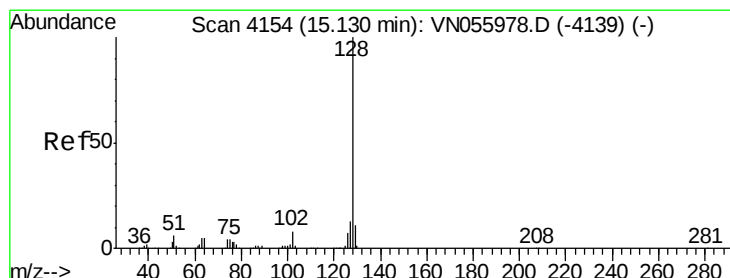
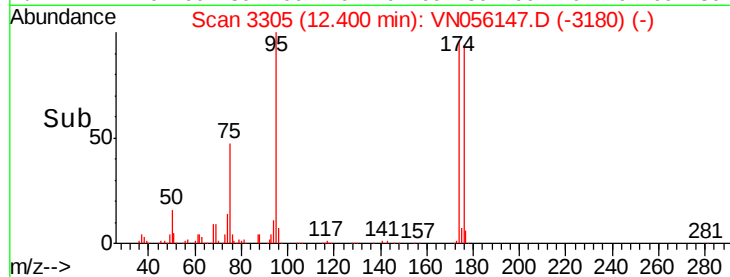
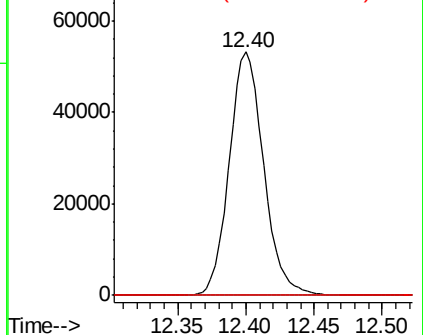
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 3.880 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056147.D

Acq: 8 Jun 2019 12:27

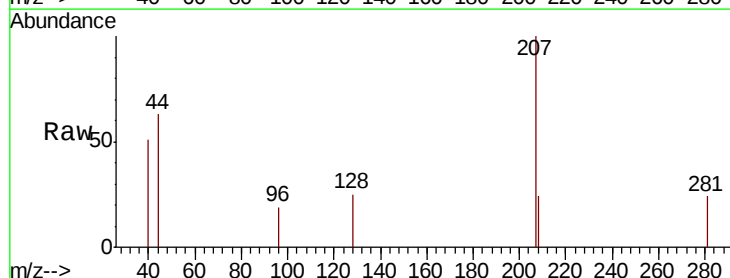
Tgt Ion: 128 Resp: 230

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

