

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\
 Data File : VN056395.D
 Acq On : 20 Jun 2019 12:18
 Operator : JC/SP
 Sample : K3451-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 21 04:25:22 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	7.67	168	386992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	646690	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	664617	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	272709	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	213865	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	
35) Dibromofluoromethane	7.59	113	188711	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	
50) Toluene-d8	10.09	98	821936	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
62) 4-Bromofluorobenzene	12.40	95	315193	60.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.46%	

Target Compounds

					Qvalue
3) Chloromethane	2.06	50	1270	0.285	ug/l 95
11) Tert butyl alcohol	4.79	59	1586716	2196.484	ug/l 99
13) Acrolein	3.61	56	9778	16.060	ug/l # 14
14) Allyl chloride	4.33	41	1368	0.240	ug/l # 28
15) Acrylonitrile	4.80	53	18063	9.038	ug/l # 21
16) Acetone	3.82	43	333352	155.128	ug/l # 16
17) Carbon Disulfide	4.04	76	2286	0.294	ug/l # 75
18) Methyl Acetate	4.33	43	118565	27.785	ug/l 99
20) Methylene Chloride	4.56	84	411	Below Cal	# 52
22) Diisopropyl ether	6.07	45	310871	26.011	ug/l # 1
23) Vinyl Acetate	6.07	43	700188	74.279	ug/l # 72
25) 2-Butanone	6.84	43	982413	345.426	ug/l 99
29) Tetrahydrofuran	7.22	42	1485	0.854	ug/l # 37
31) Cyclohexane	7.66	56	6559	0.990	ug/l # 1
36) 1,1-Dichloropropene	7.66	75	25005	4.393	ug/l # 43
37) Ethyl Acetate	6.84	43	982413	175.626	ug/l # 69
38) Carbon Tetrachloride	7.66	117	31848	6.398	ug/l # 15
40) Benzene	8.04	78	412119	23.538	ug/l 97
41) Methacrylonitrile	7.21	41	5610	2.271	ug/l # 25
42) 1,2-Dichloroethane	8.04	62	3280	0.568	ug/l 76
43) Isopropyl Acetate	8.29	43	9106	1.056	ug/l # 54
48) Methyl methacrylate	9.17	41	1227	0.284	ug/l # 24
49) 1,4-Dioxane	9.21	88	1536	17.124	ug/l # 27
51) 4-Methyl-2-Pentanone	9.99	43	2700	0.485	ug/l # 87
52) Toluene	10.16	92	241396	22.551	ug/l 100
53) t-1,3-Dichloropropene	10.38	75	101	2.907	ug/l 98
54) cis-1,3-Dichloropropene	9.93	75	1305	0.209	ug/l # 1
55) 1,1,2-Trichloroethane	10.41	97	2258	0.525	ug/l # 43
56) Ethyl methacrylate	10.43	69	4337	0.690	ug/l # 67
57) 1,3-Dichloropropane	10.80	76	6361	0.880	ug/l 96
58) 2-Chloroethyl Vinyl ether	9.71	63	18047	7.989	ug/l # 48
59) 2-Hexanone	10.76	43	9213	2.252	ug/l 82
60) Dibromochloromethane	10.84	129	138	2.412	ug/l # 10
65) Chlorobenzene	11.43	112	9387	0.703	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

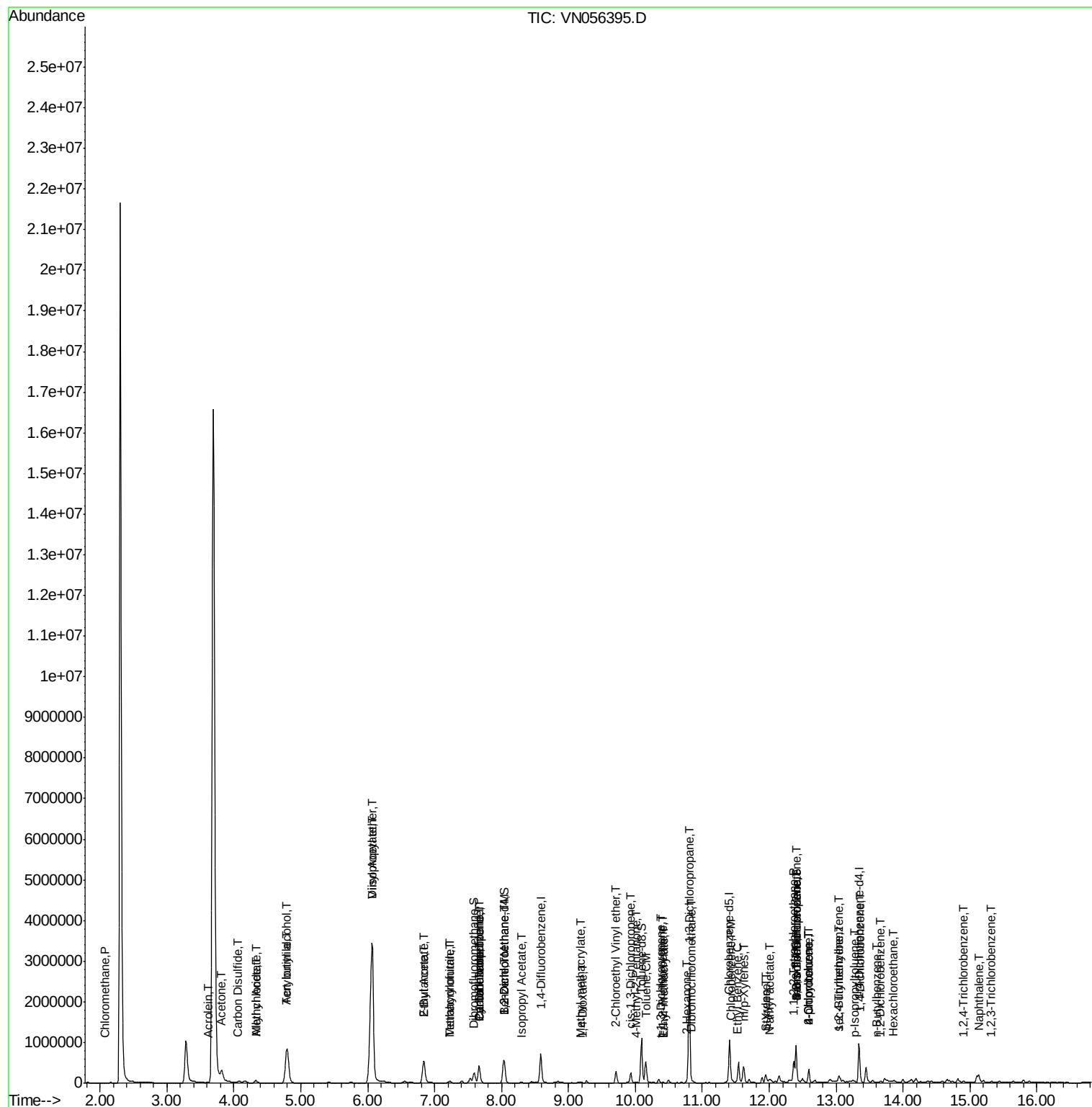
67) Ethyl Benzene	11.51	91	35657	1.521	ug/l	95
68) m/p-Xylenes	11.62	106	140386	16.336	ug/l	100
69) o-Xylene	11.95	106	47008	5.529	ug/l	87
70) Styrene	11.96	104	21081	1.551	ug/l #	73
71) Bromoform	12.40	173	2197	3.708	ug/l #	1
73) Isopropylbenzene	12.23	105	2297	Below Cal		97
74) N-amyl acetate	11.99	43	8118	0.935	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.36	83	246203	38.094	ug/l #	32
76) 1,2,3-Trichloropropane	12.40	75	142338	25.172	ug/l #	100
78) n-propylbenzene	12.59	91	160907	6.443	ug/l #	53
79) 2-Chlorotoluene	12.59	91	160907	9.712	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.73	105	7737	Below Cal		98
81) trans-1,4-Dichloro-2-buten	12.40	75	142338	89.464	ug/l #	12
82) 4-Chlorotoluene	12.59	91	160807	10.906	ug/l #	40
83) tert-Butylbenzene	12.99	119	1497	Below Cal	#	41
84) 1,2,4-Trimethylbenzene	13.04	105	109198	5.948	ug/l	81
85) sec-Butylbenzene	13.04	105	109198	4.975	ug/l #	56
86) p-Isopropyltoluene	13.29	119	3848	0.204	ug/l	95
88) 1,4-Dichlorobenzene	13.36	146	1940	0.217	ug/l #	1
89) n-Butylbenzene	13.61	91	3348	0.235	ug/l	79
90) Hexachloroethane	13.85	117	2055	0.700	ug/l #	4
91) 1,2-Dichlorobenzene	13.66	146	1968	0.215	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	3407	6.248	ug/l	94
94) Hexachlorobutadiene	15.00	225	741	Below Cal		97
95) Naphthalene	15.13	128	93821	11.975	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.31	180	3889	5.197	ug/l #	50

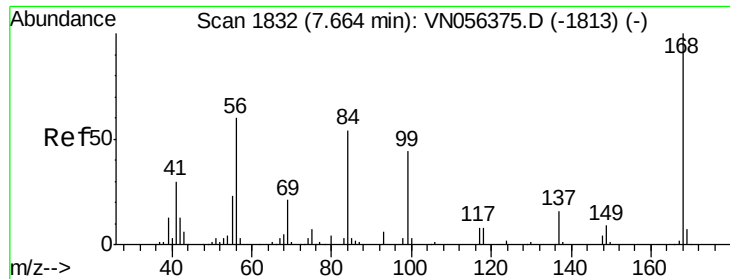
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

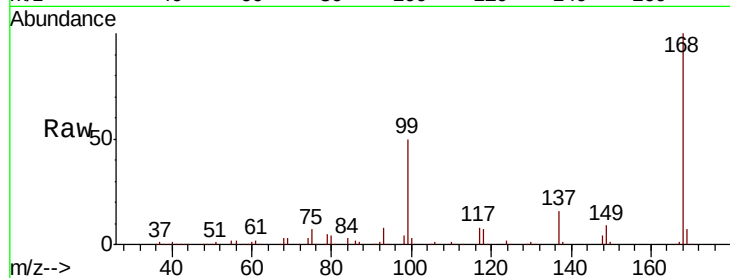
ClientSampled :

Tot Ion:168 Resp: 386992

Ion Ratio Lower Upper

168 100

99 49.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

150000

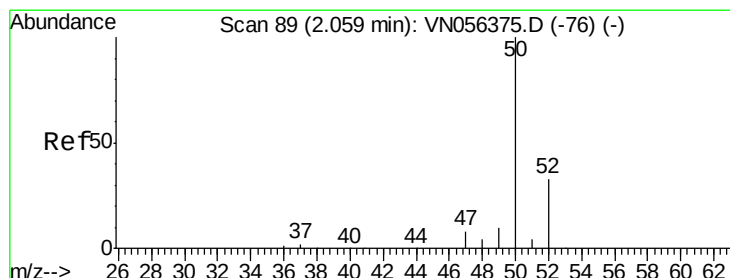
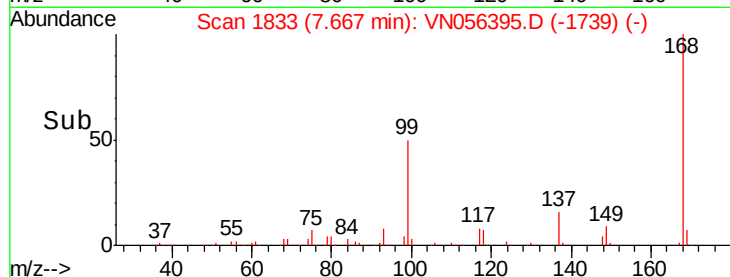
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.285 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN056395.D

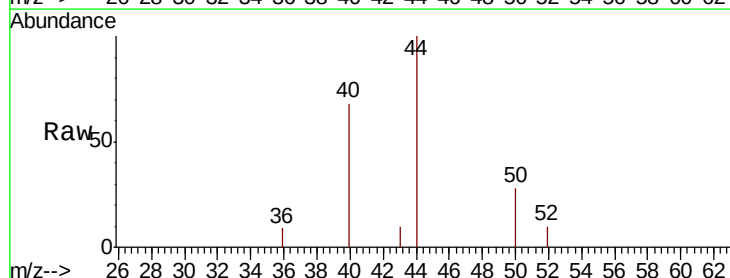
Acq: 20 Jun 2019 12:18

Tgt Ion: 50 Resp: 1270

Ion Ratio Lower Upper

50 100

52 36.0 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

800

600

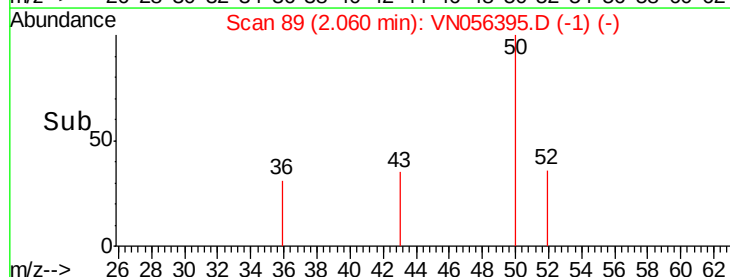
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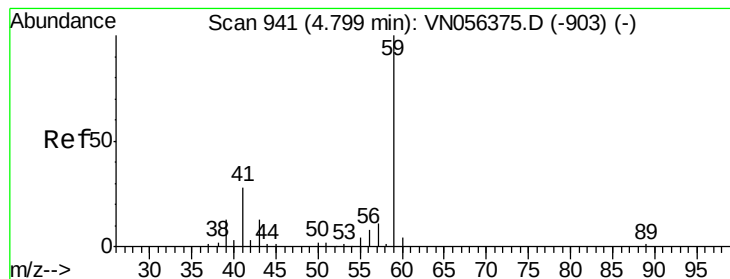
200

0

2.05 2.10

Time-->





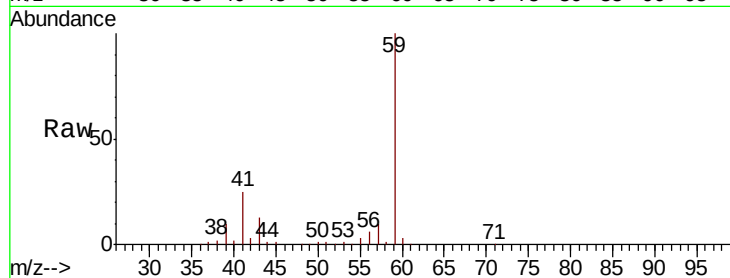
#11

Tert butyl alcohol
 Concen: 2196.484 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. -0.01 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

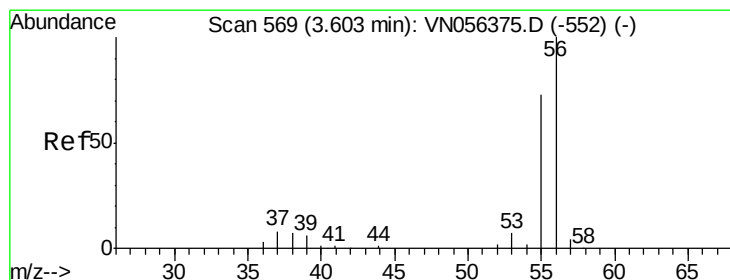
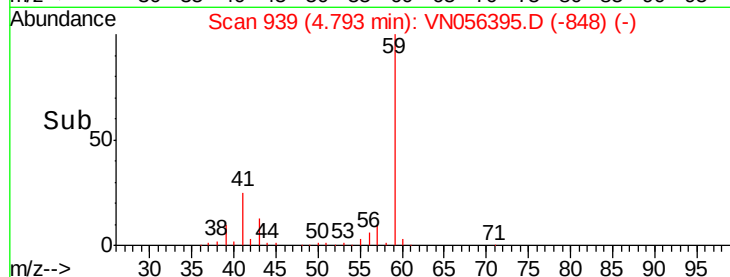
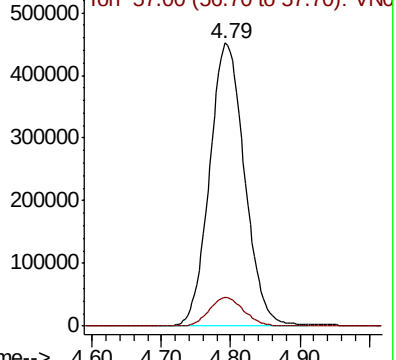
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 59 Resp: 1586716

Ion	Ratio	Lower	Upper
59	100		
57	10.0	7.6	11.4



Abundance Ion 59.00 (58.70 to 59.70): VN056395.D (-848) (-)

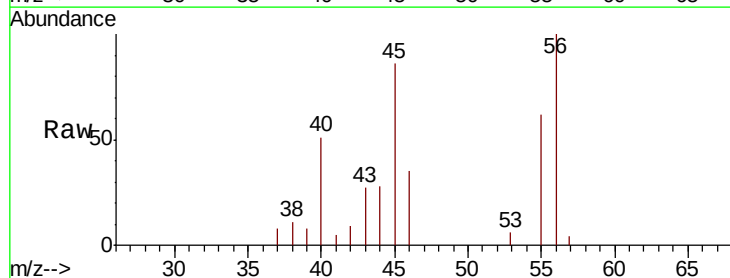


#13

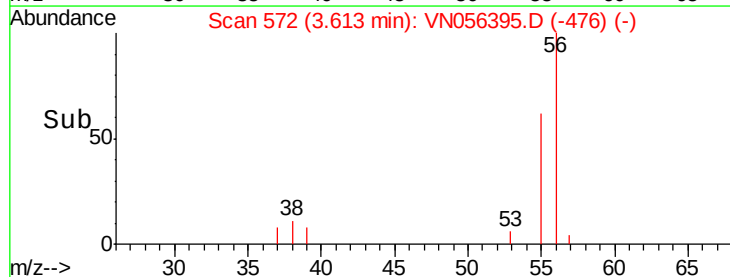
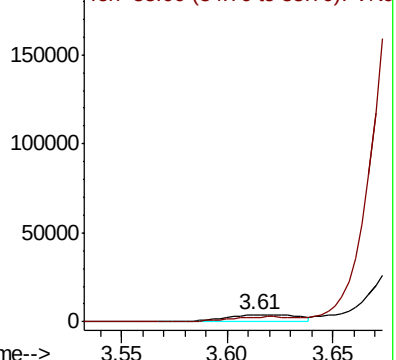
Acrolein
 Concen: 16.060 ug/l
 RT: 3.61 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

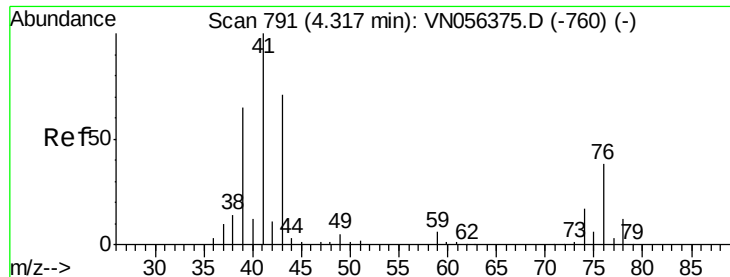
Tgt Ion: 56 Resp: 9778

Ion	Ratio	Lower	Upper
56	100		
55	0.0	57.1	85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN056395.D (-476) (-)

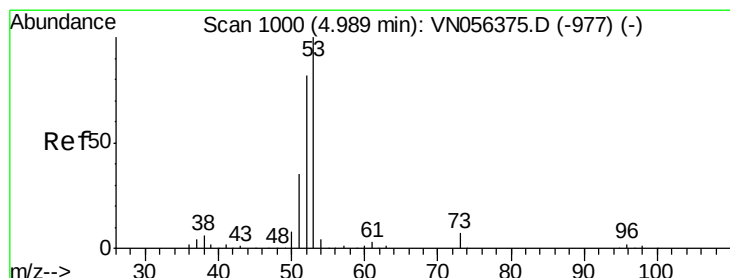
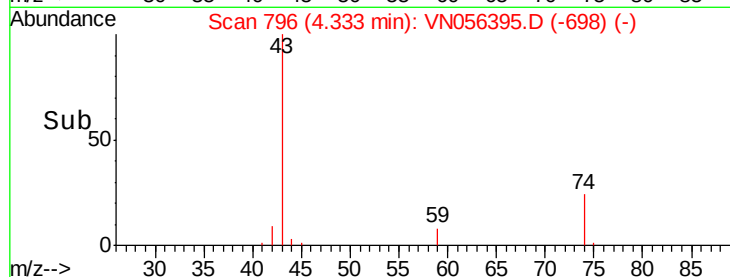
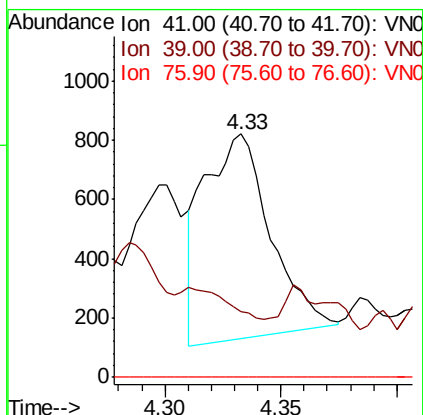
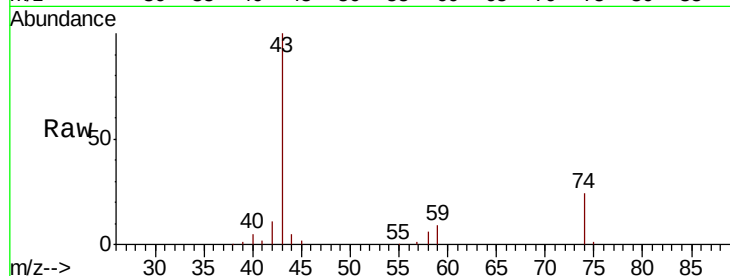




#14
Allvl chloride
Concen: 0.240 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.02 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

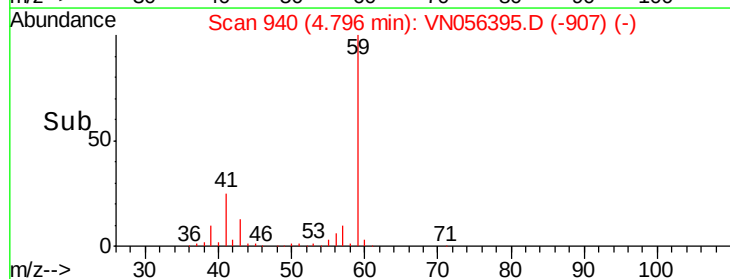
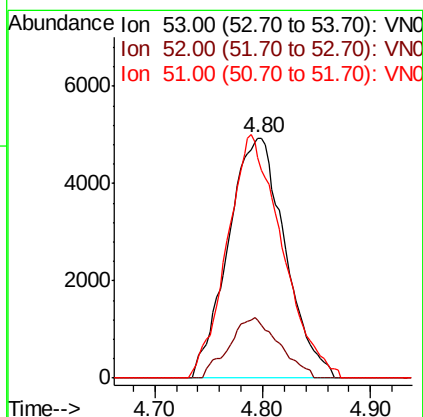
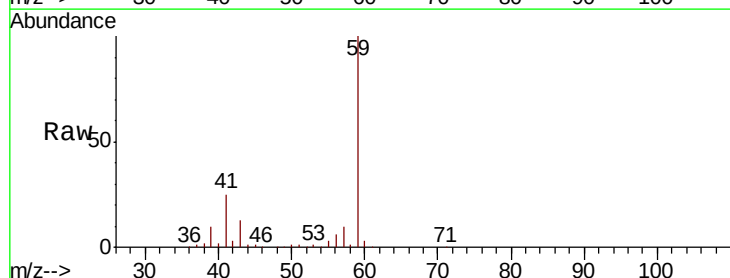
Instrument :
MSVOA_N
ClientSampled :

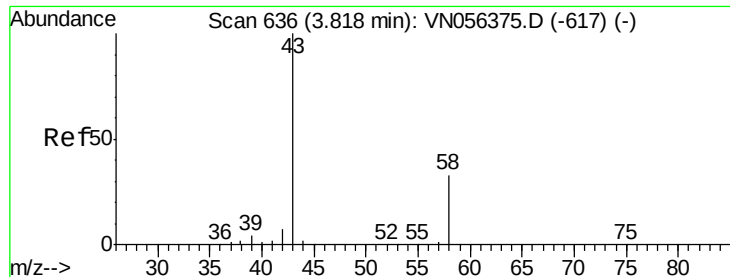
Tot Ion: 41 Resp: 1368
Ion Ratio Lower Upper
41 100
39 0.0 48.6 73.0#
76 0.0 26.6 40.0#



#15
Acrylonitrile
Concen: 9.038 ug/l
RT: 4.80 min Scan# 940
Delta R.T. -0.19 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion: 53 Resp: 18063
Ion Ratio Lower Upper
53 100
52 22.2 65.9 98.9#
51 97.8 28.3 42.5#





#16

Acetone

Concen: 155.128 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

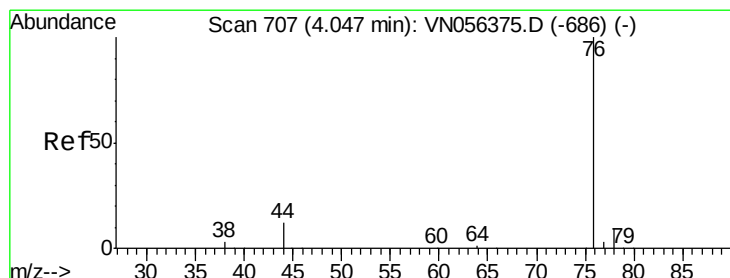
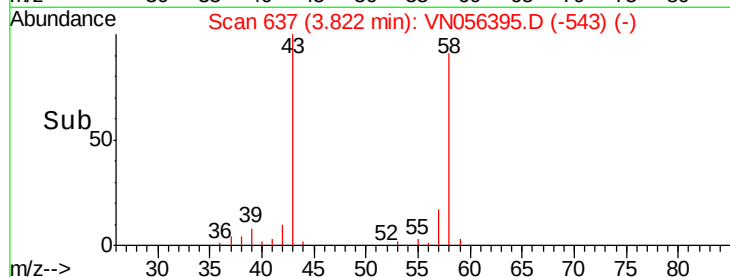
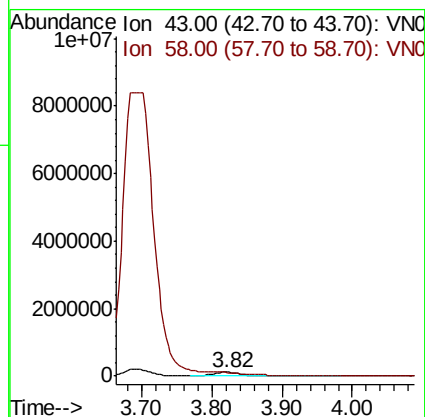
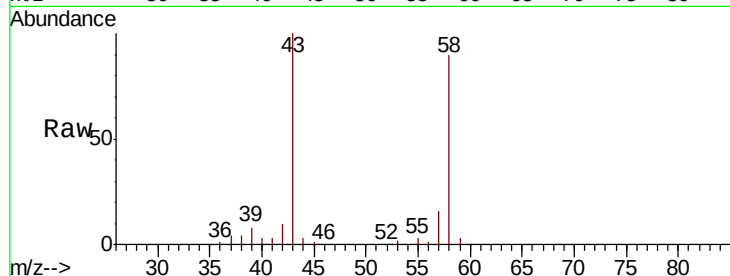
ClientSampled :

Tot Ion: 43 Resp: 333352

Ion Ratio Lower Upper

43 100

58 80.3 26.4 39.6#



#17

Carbon Disulfide

Concen: 0.294 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN056395.D

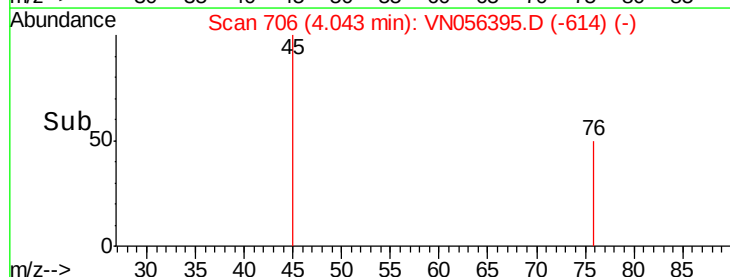
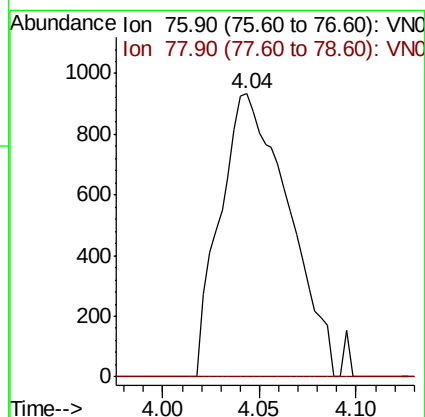
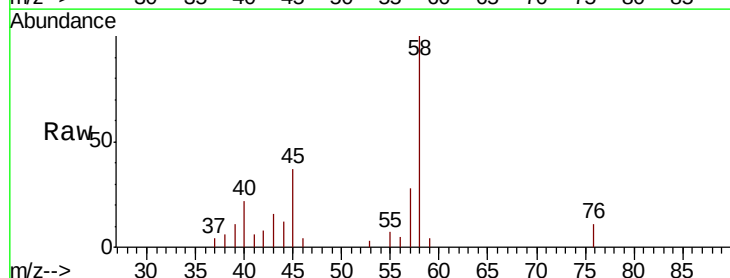
Acq: 20 Jun 2019 12:18

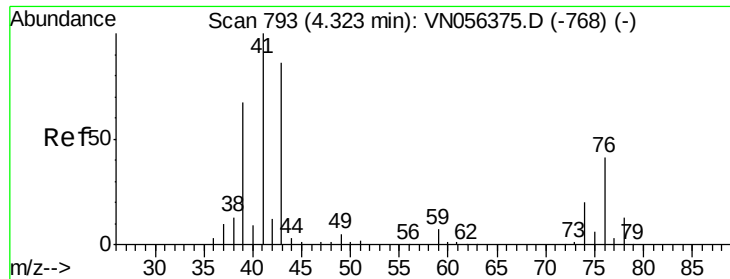
Tgt Ion: 76 Resp: 2286

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

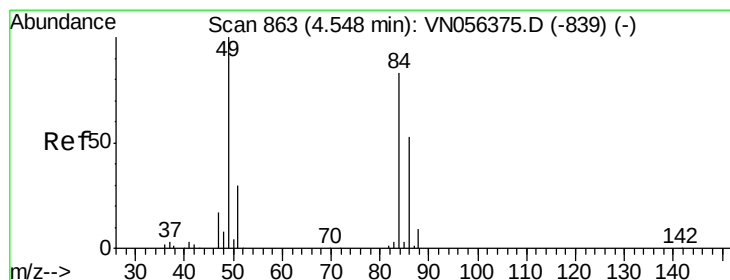
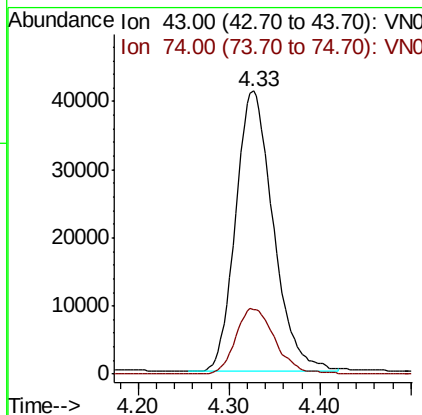
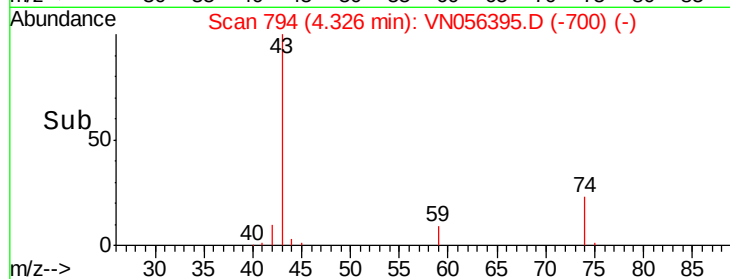
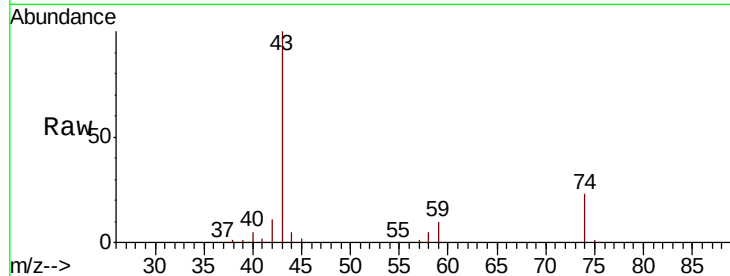




#18
Methyl Acetate
Concen: 27.785 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

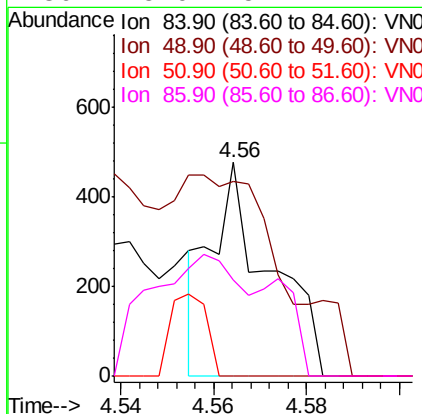
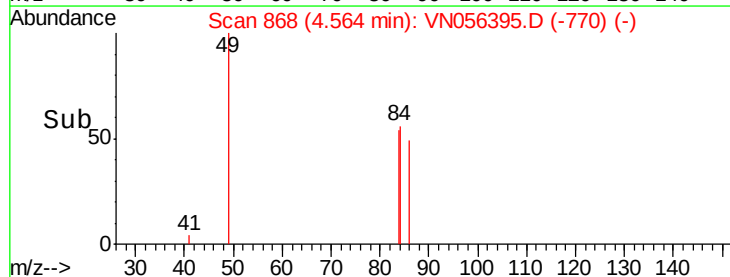
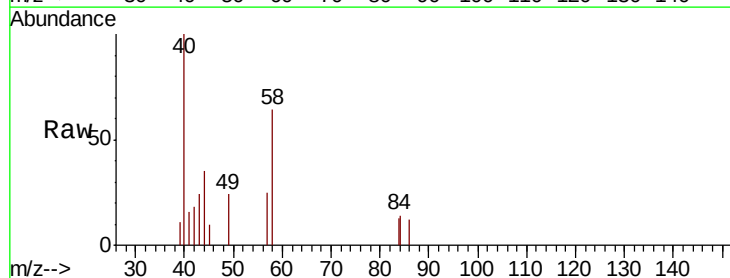
Instrument :
MSVOA_N
ClientSampled :

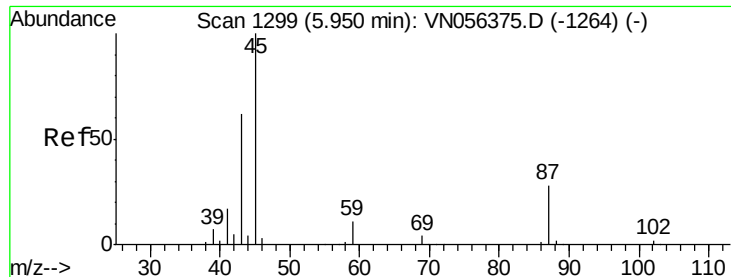
Tot Ion: 43 Resp: 118565
Ion Ratio Lower Upper
43 100
74 24.3 19.2 28.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 868
Delta R.T. 0.02 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion: 84 Resp: 411
Ion Ratio Lower Upper
84 100
49 56.9 96.4 144.6#
51 0.0 28.6 43.0#
86 45.0 51.4 77.2#





#22

Diisopropyl ether

Concen: 26.011 ug/l

RT: 6.07 min Scan# 1335

Delta R.T. 0.12 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 45 Resp: 310871

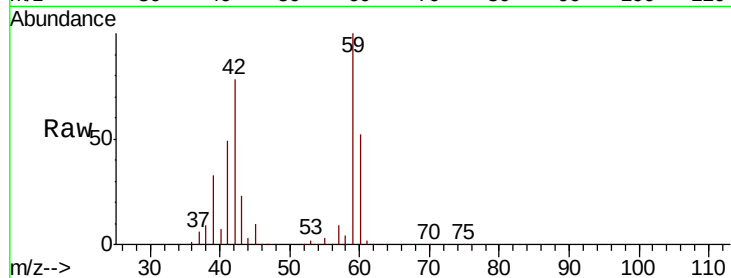
Ion Ratio Lower Upper

45 100

43 220.4 50.4 75.6#

87 0.0 23.0 34.4#

59 957.0 9.1 13.7#

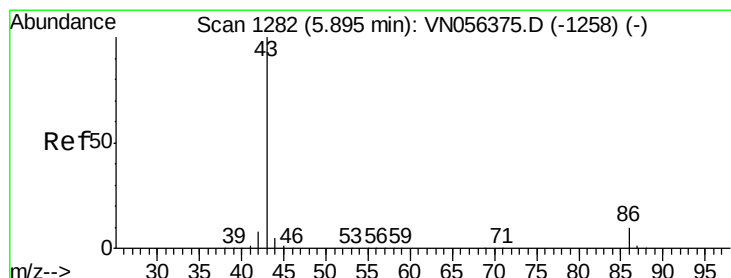
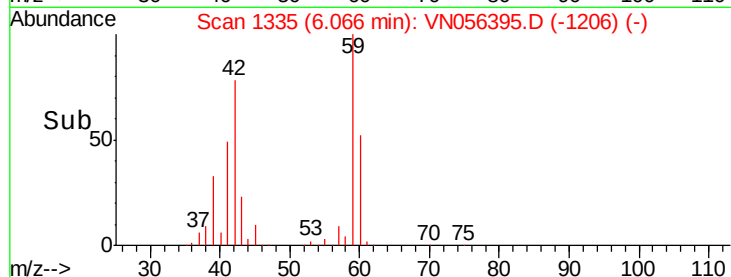
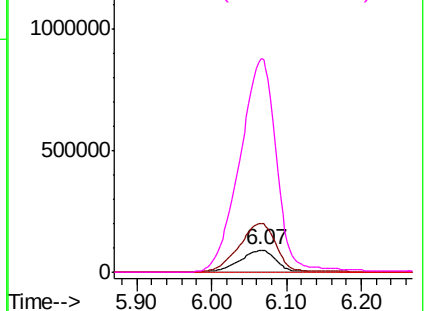


Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0



#23

Vinyl Acetate

Concen: 74.279 ug/l

RT: 6.07 min Scan# 1335

Delta R.T. 0.17 min

Lab File: VN056395.D

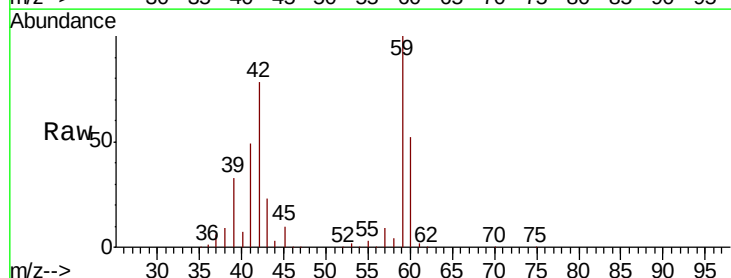
Acq: 20 Jun 2019 12:18

Tgt Ion: 43 Resp: 700188

Ion Ratio Lower Upper

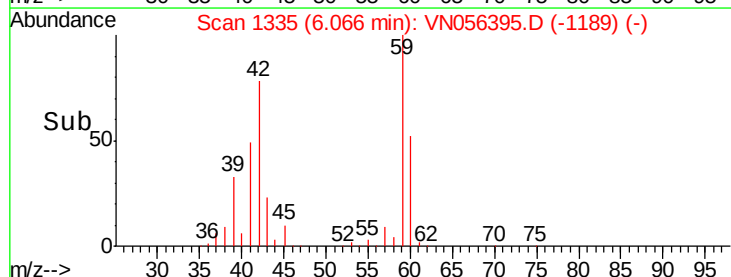
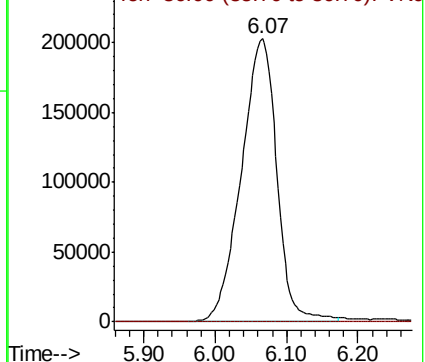
43 100

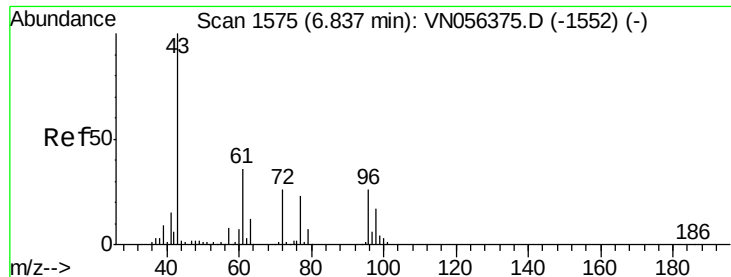
86 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#25

2-Butanone

Concen: 345.426 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

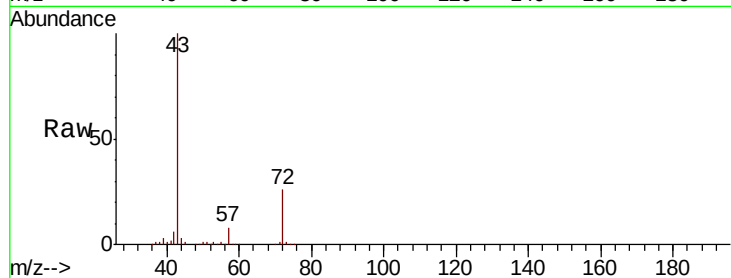
ClientSampleId :

Tot Ion: 43 Resp: 982413

Ion Ratio Lower Upper

43 100

72 26.3 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

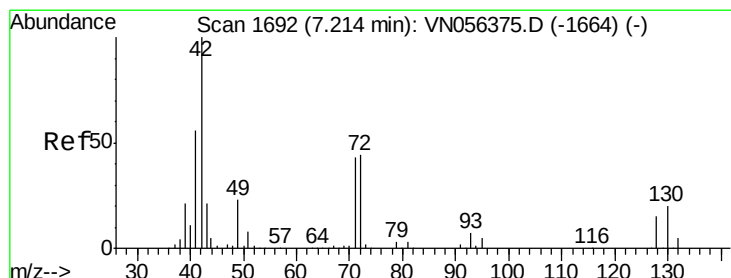
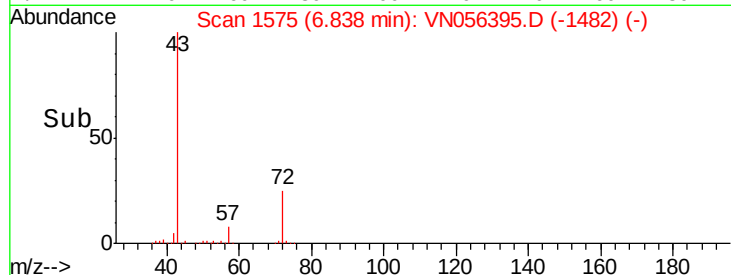
300000

200000

100000

0

Time--> 6.70 6.80 6.90



#29

Tetrahydrofuran

Concen: 0.854 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

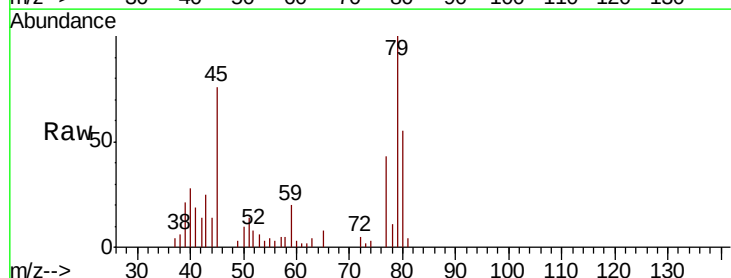
Tgt Ion: 42 Resp: 1485

Ion Ratio Lower Upper

42 100

72 0.0 34.7 52.1#

71 4.4 33.0 49.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

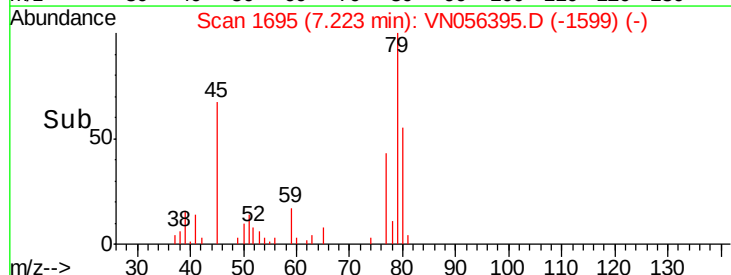
7.22

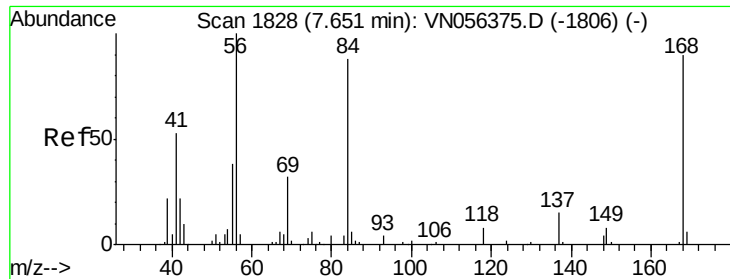
1000

500

0

Time--> 7.15 7.20 7.25

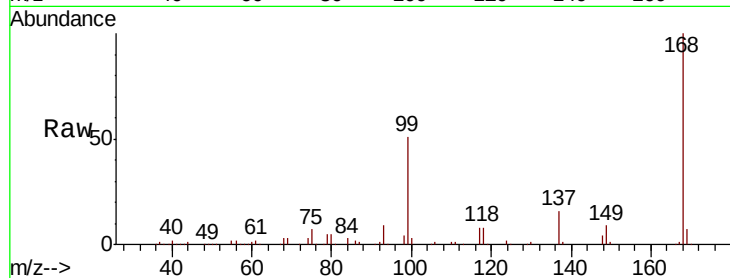




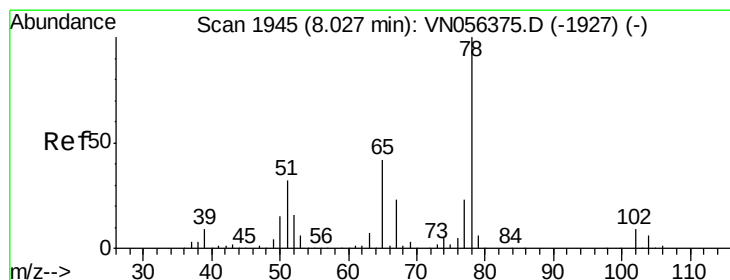
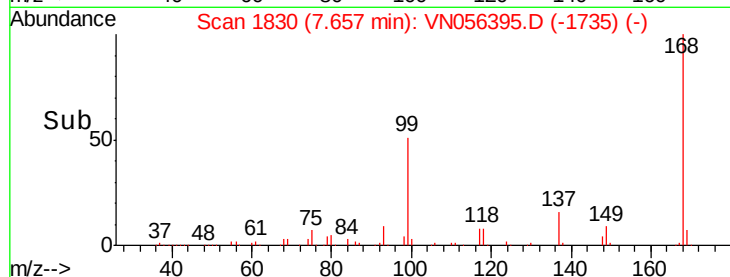
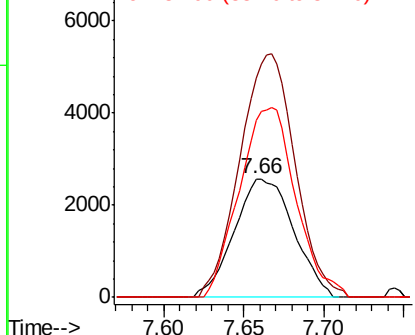
#31
Cyclohexane
Concen: 0.990 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 6559
Ion Ratio Lower Upper
56 100
69 184.7 25.8 38.6#
84 149.4 69.4 104.0#

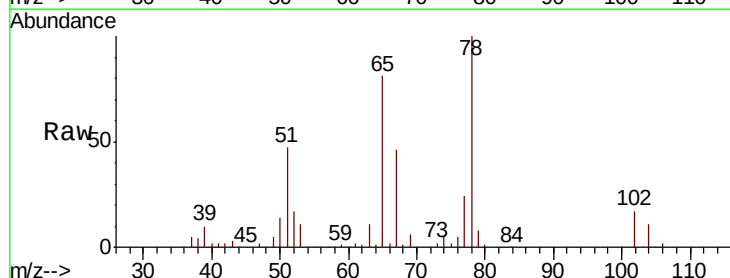


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

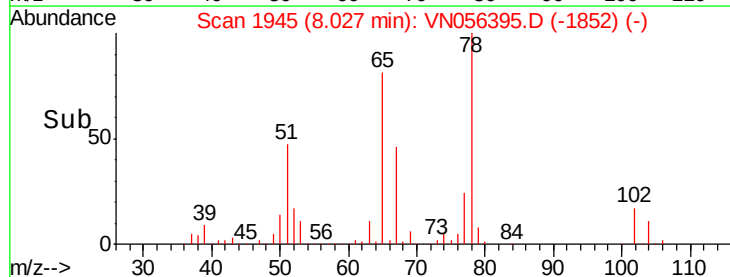
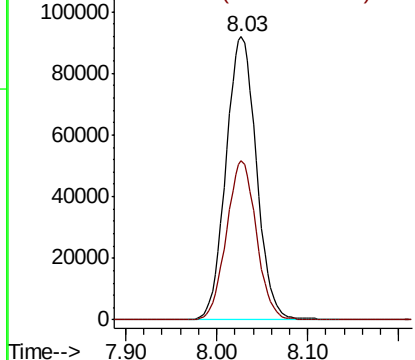


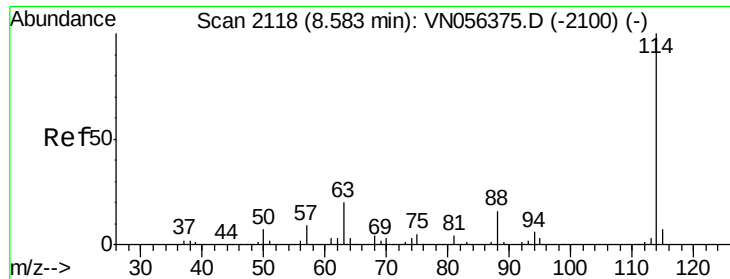
#33
1,2-Dichloroethane-d4
Concen: 49.863 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion: 65 Resp: 213865
Ion Ratio Lower Upper
65 100
67 55.3 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: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

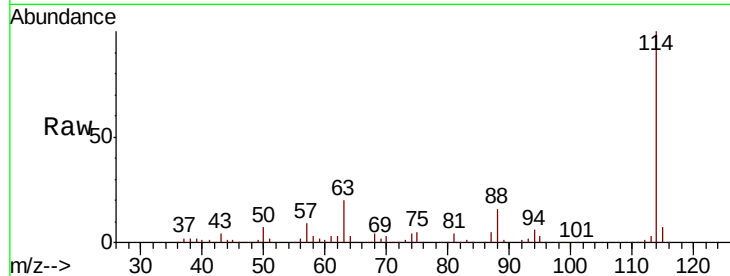
Tot Ion:114 Resp: 646690

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

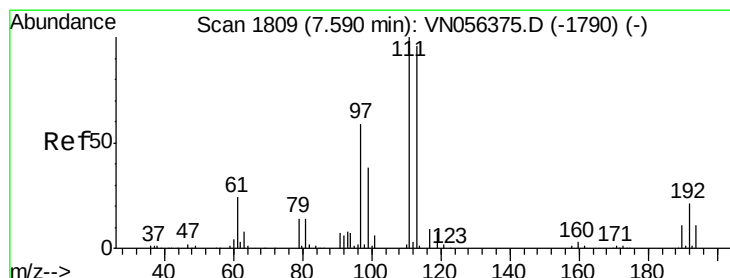
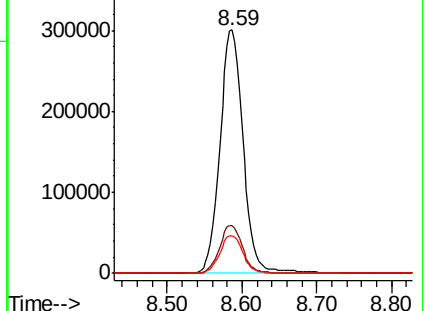
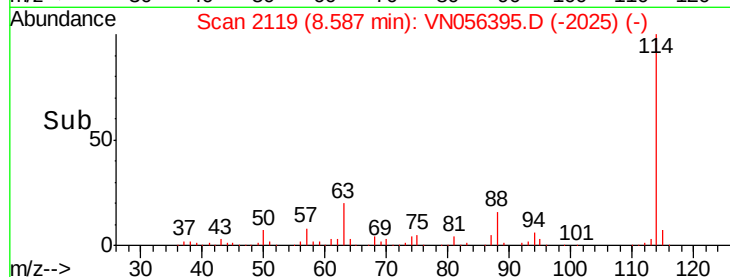
88 15.6 0.0 31.4



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: 46.777 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

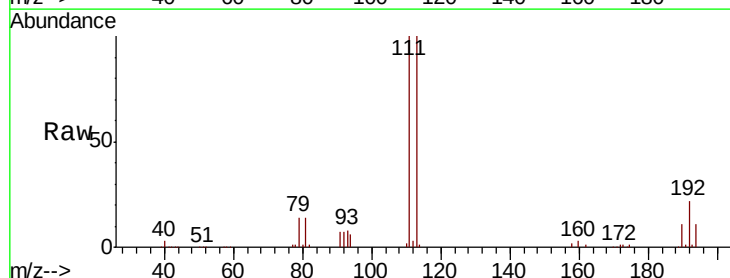
Tgt Ion:113 Resp: 188711

Ion Ratio Lower Upper

113 100

111 102.0 82.9 124.3

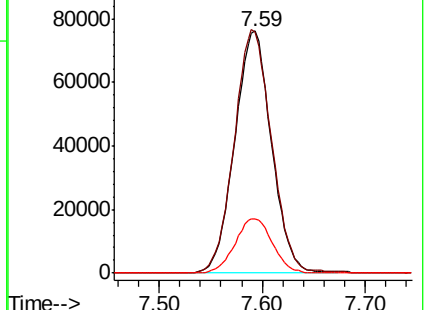
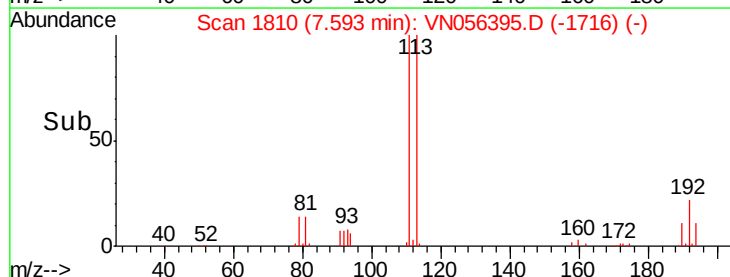
192 22.9 17.7 26.5

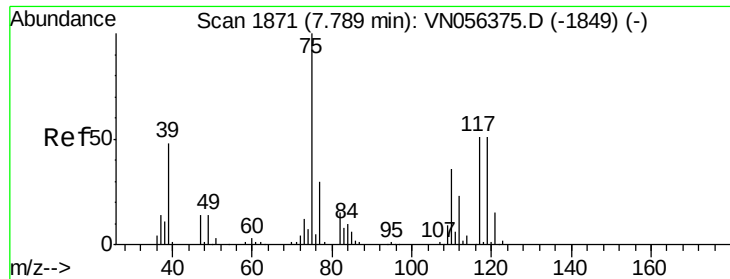


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.393 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

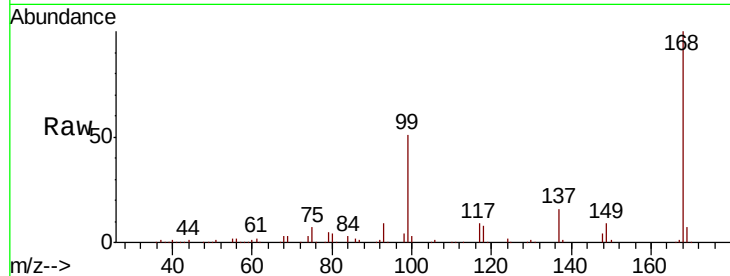
Tot Ion: 75 Resp: 25005

Ion Ratio Lower Upper

75 100

110 2.4 18.1 54.3#

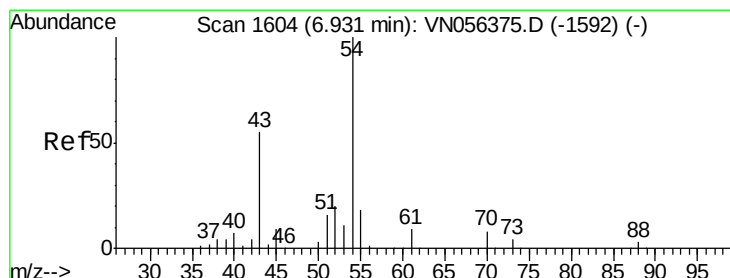
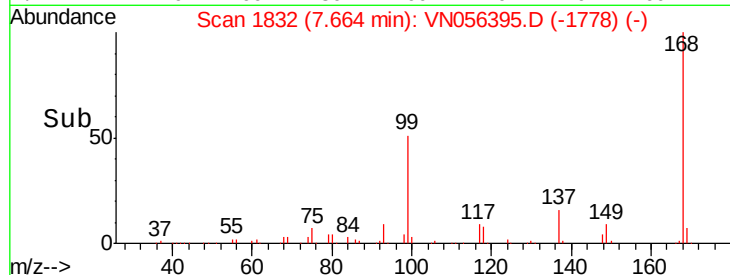
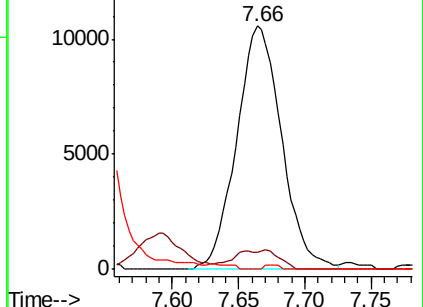
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 175.626 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.09 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

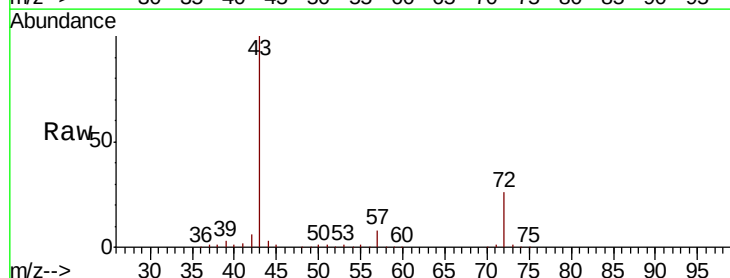
Tgt Ion: 43 Resp: 982413

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

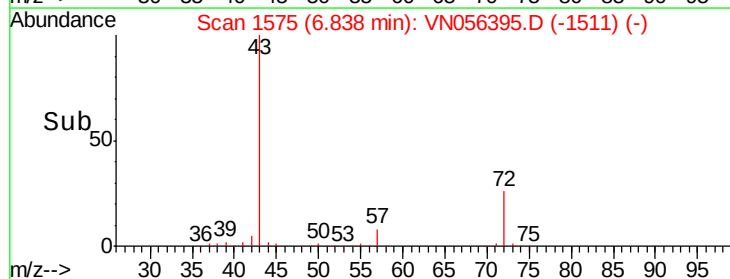
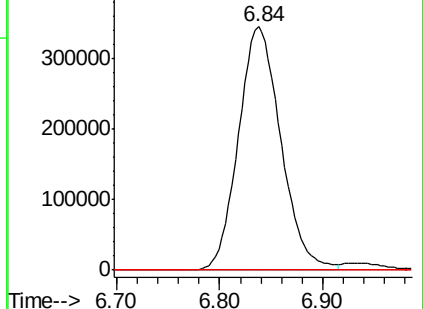
70 0.0 8.3 12.5#

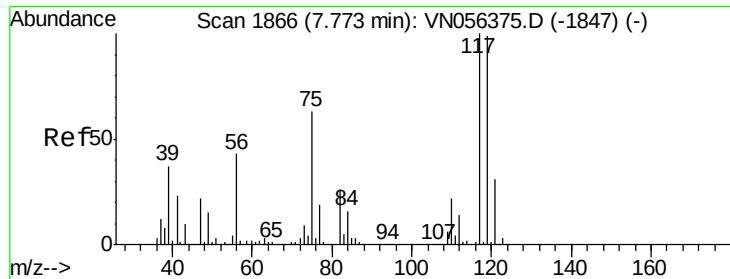


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

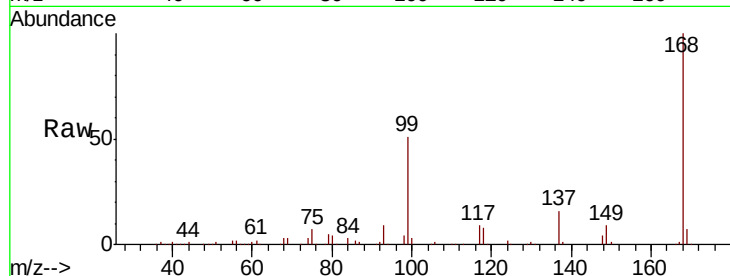




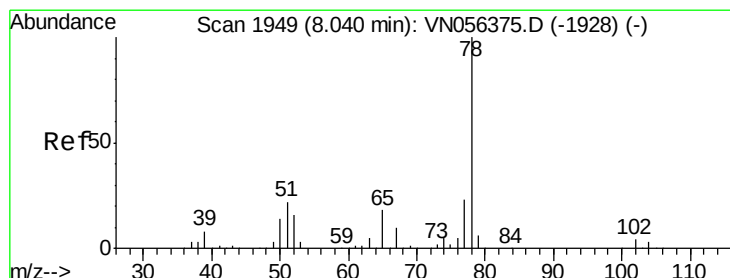
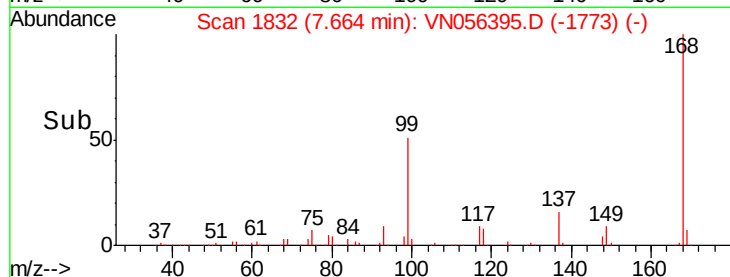
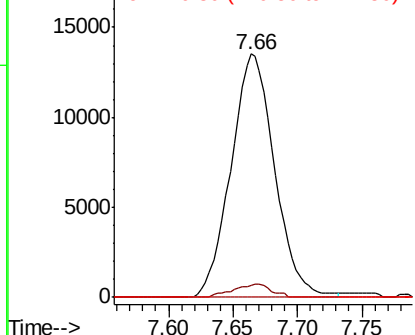
#38
Carbon Tetrachloride
Concen: 6.398 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 31848
Ion Ratio Lower Upper
117 100
119 5.1 79.1 118.7#
121 0.0 24.8 37.2#

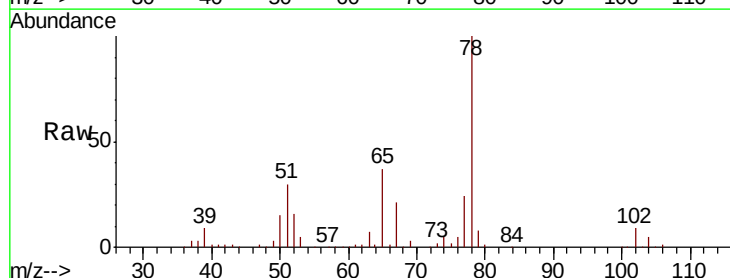


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

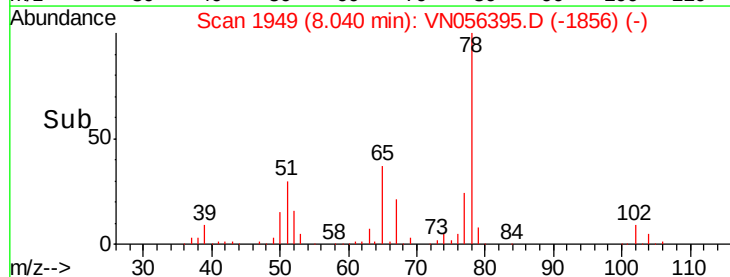
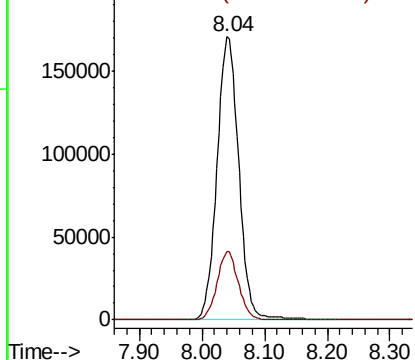


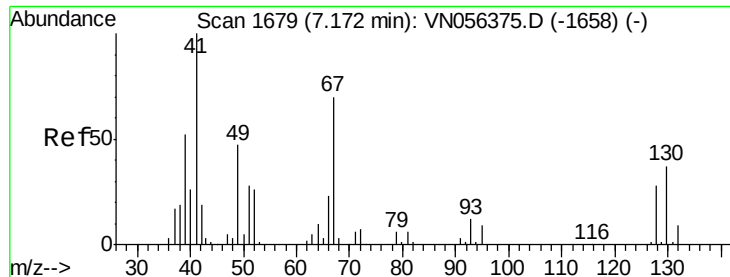
#40
Benzene
Concen: 23.538 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion: 78 Resp: 412119
Ion Ratio Lower Upper
78 100
77 24.1 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V

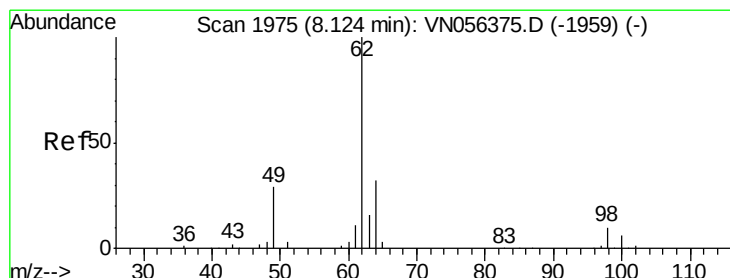
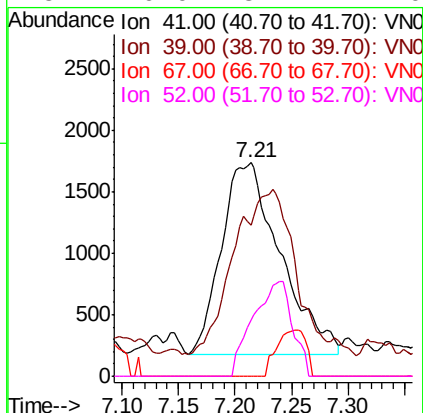
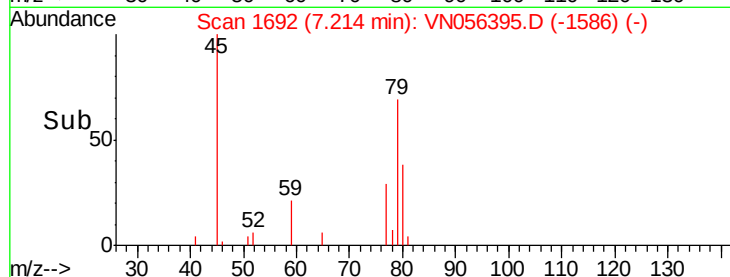
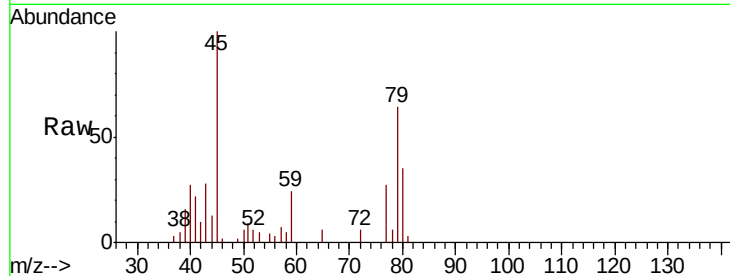




#41
Methacrylonitrile
Concen: 2.271 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.04 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

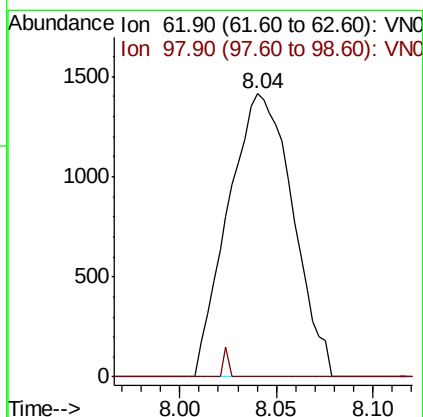
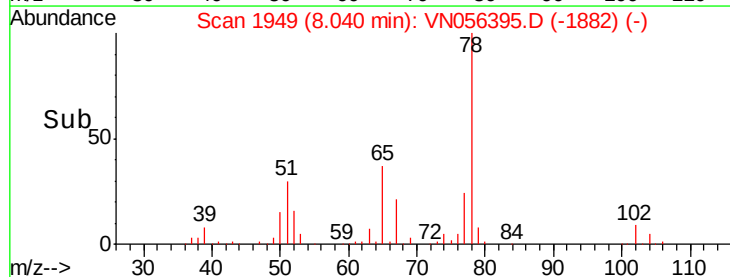
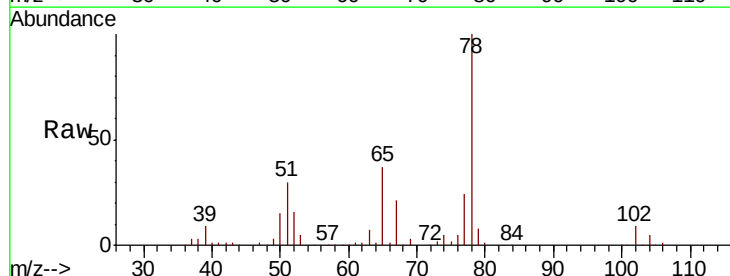
Instrument :
MSVOA_N
ClientSampled :

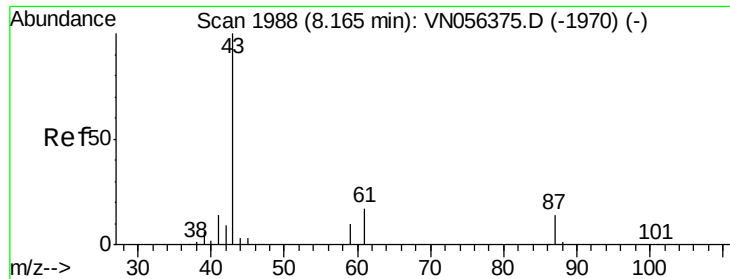
Tot Ion: 41 Resp: 5610
Ion Ratio Lower Upper
41 100
39 30.6 55.3 82.9#
67 0.0 79.2 118.8#
52 0.0 31.4 47.0#



#42
1,2-Dichloroethane
Concen: 0.568 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.08 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion: 62 Resp: 3280
Ion Ratio Lower Upper
62 100
98 0.9 0.0 19.4





#43

Isopropyl Acetate

Concen: 1.056 ug/l

RT: 8.29 min Scan# 2027

Delta R.T. 0.13 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

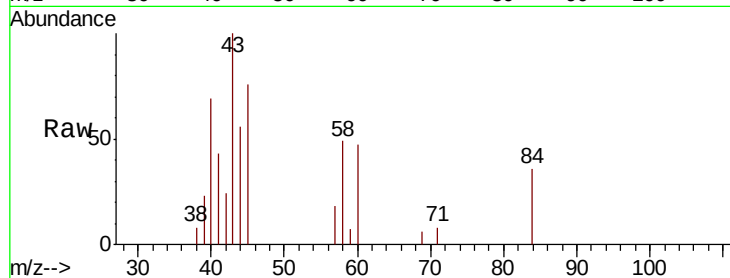
Tot Ion: 43 Resp: 9106

Ion Ratio Lower Upper

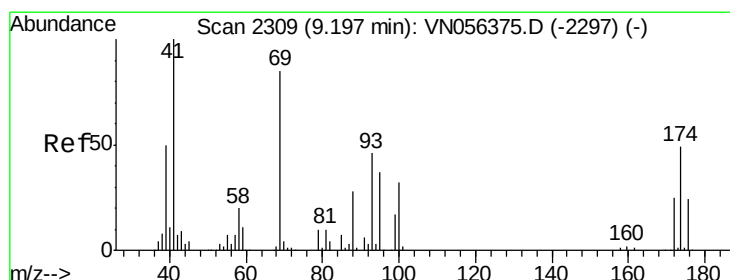
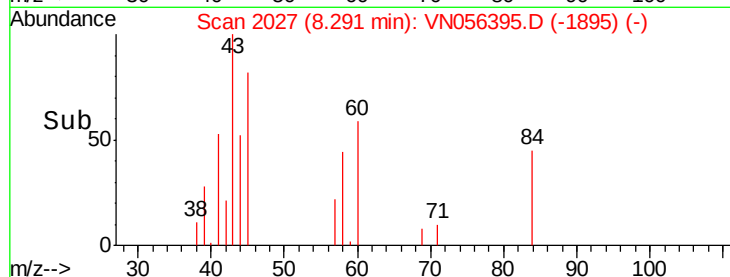
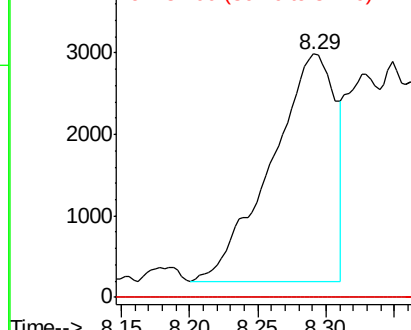
43 100

61 0.0 22.0 33.0#

87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 0.284 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.03 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

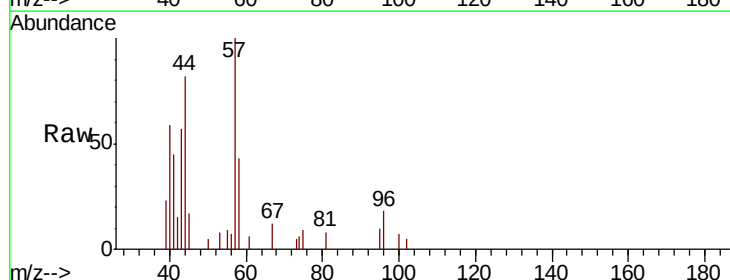
Tgt Ion: 41 Resp: 1227

Ion Ratio Lower Upper

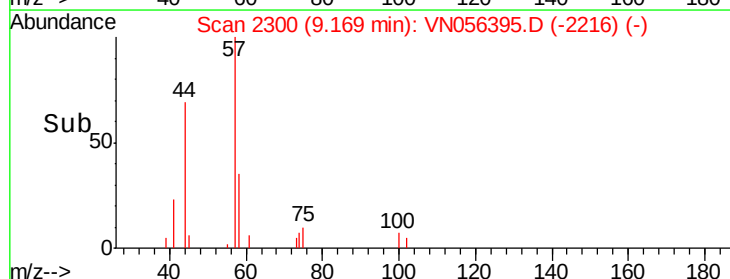
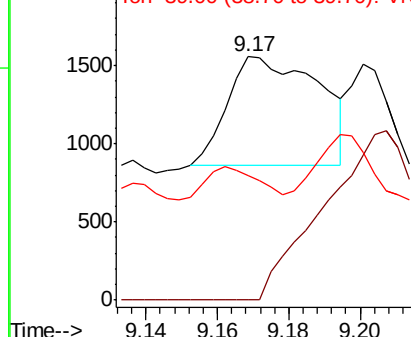
41 100

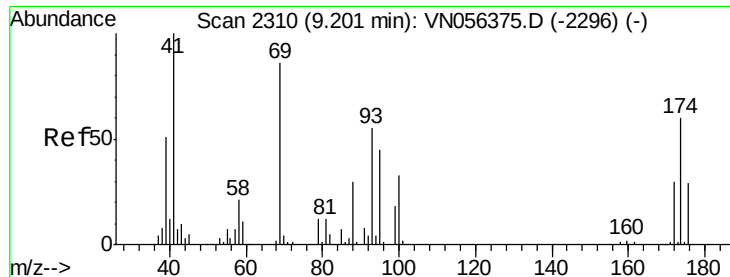
69 0.0 72.6 109.0#

39 83.6 42.6 63.8#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 17.124 ug/l

RT: 9.21 min Scan# 2314

Delta R.T. 0.01 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :

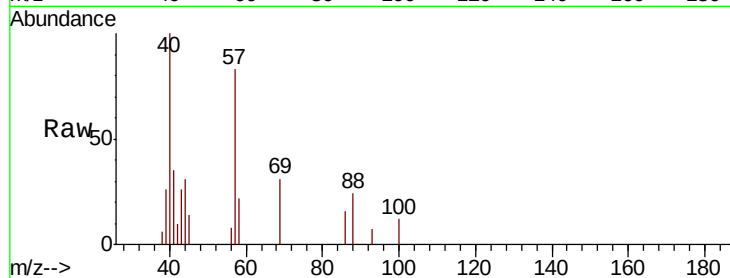
Tot Ion: 88 Resp: 1536

Ion Ratio Lower Upper

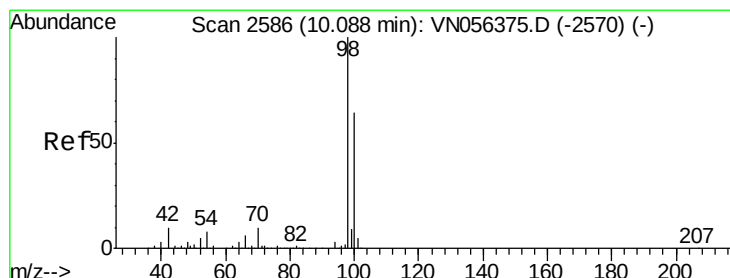
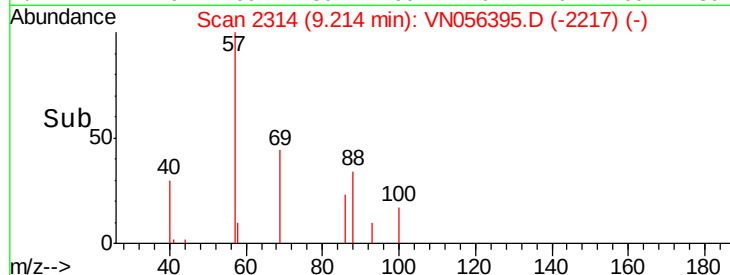
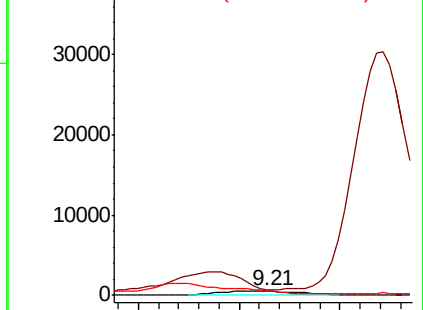
88 100

43 0.0 22.0 33.0#

58 0.0 51.8 77.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.360 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056395.D

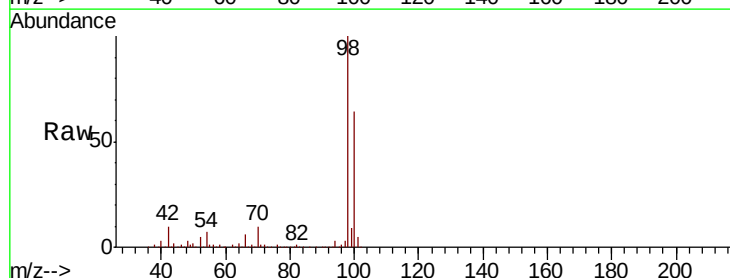
Acq: 20 Jun 2019 12:18

Tgt Ion: 98 Resp: 821936

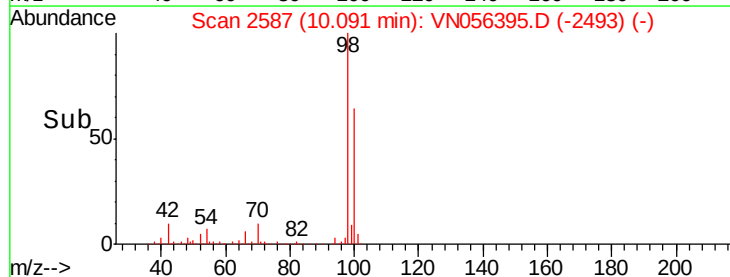
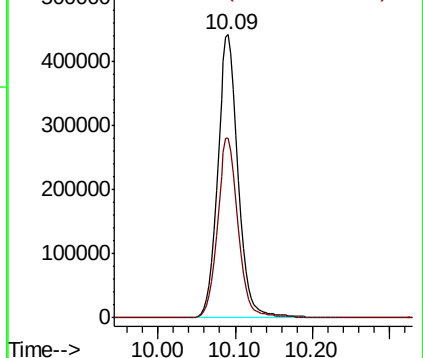
Ion Ratio Lower Upper

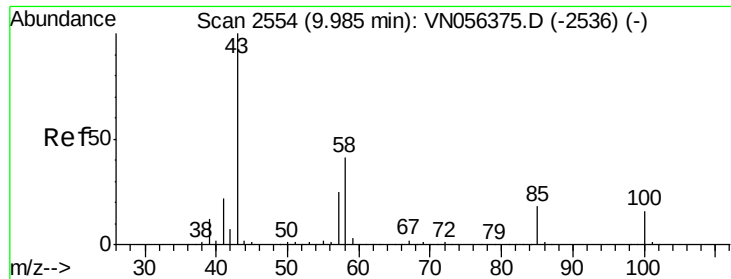
98 100

100 64.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.485 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

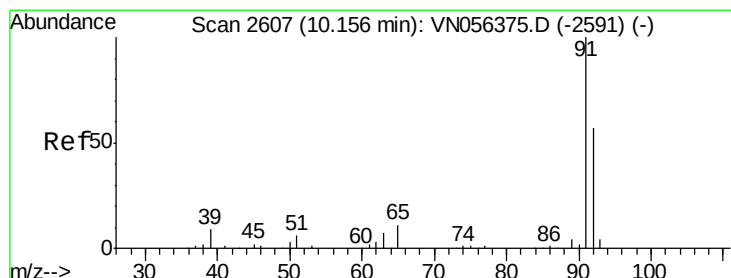
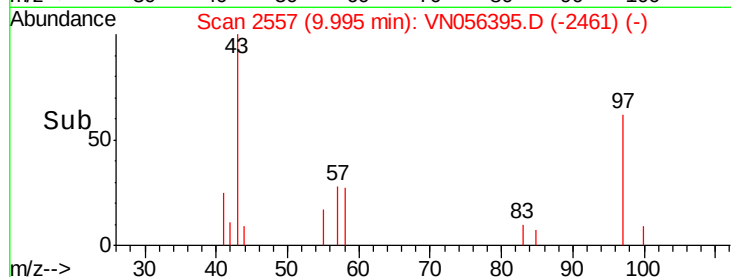
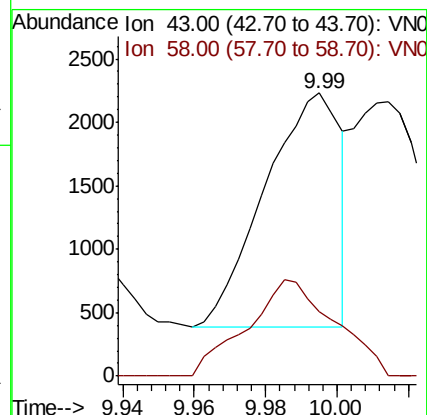
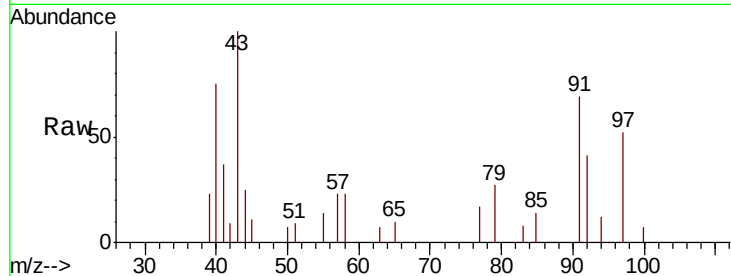
ClientSampleId :

Tot Ion: 43 Resp: 2700

Ion Ratio Lower Upper

43 100

58 47.9 31.8 47.8#



#52

Toluene

Concen: 22.551 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056395.D

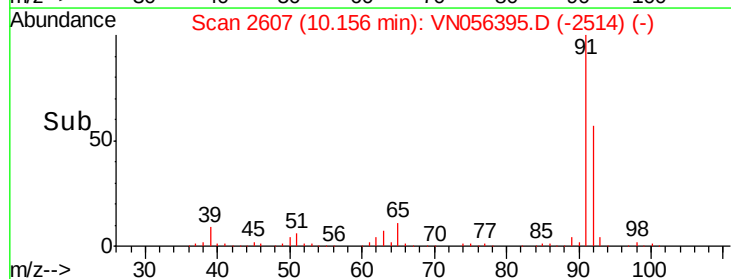
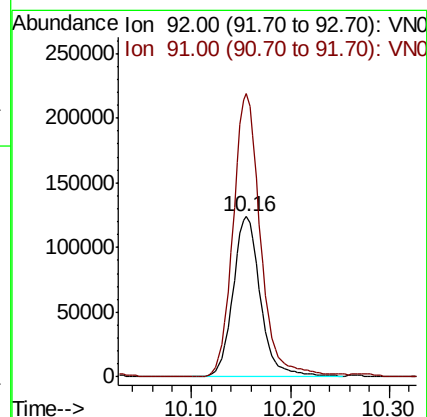
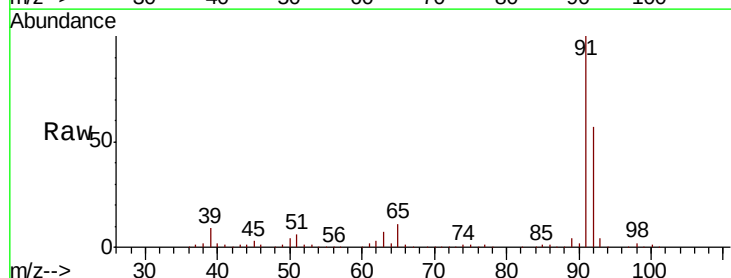
Acq: 20 Jun 2019 12:18

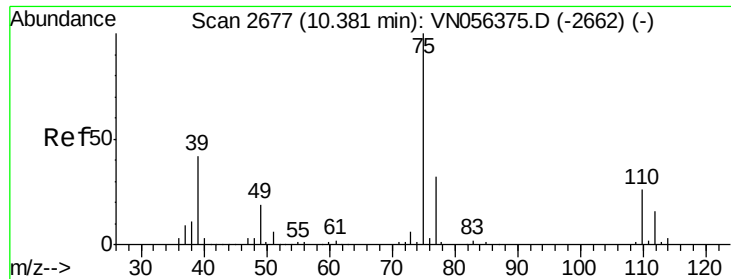
Tgt Ion: 92 Resp: 241396

Ion Ratio Lower Upper

92 100

91 176.0 140.6 211.0





#53

t-1,3-Dichloropropene

Concen: 2.907 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

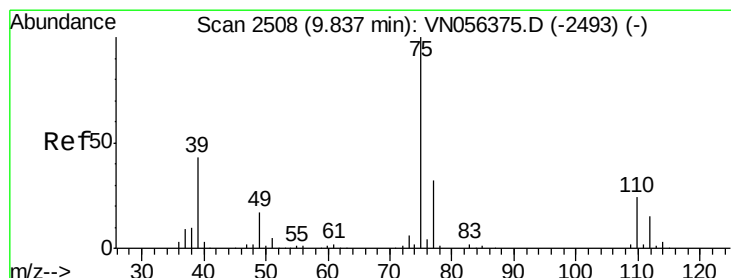
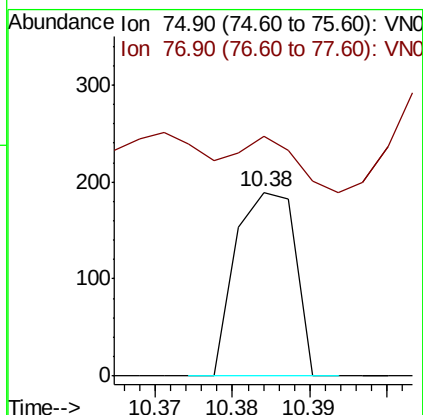
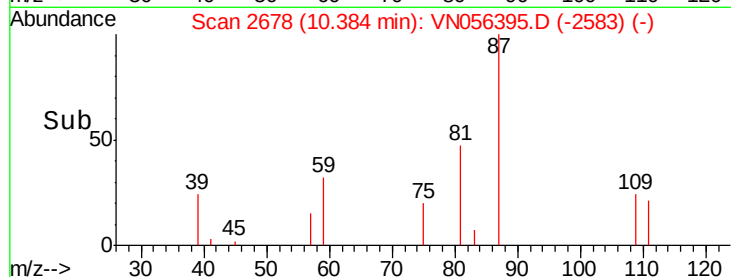
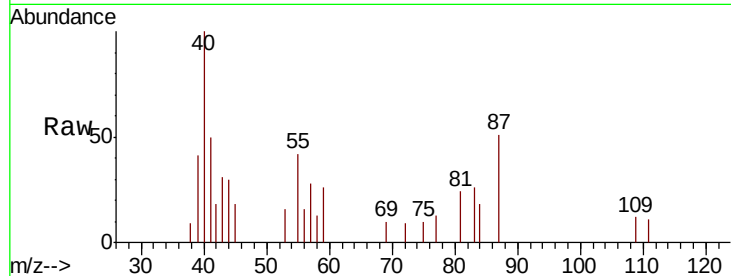
ClientSampleId :

Tot Ion: 75 Resp: 101

Ion Ratio Lower Upper

75 100

77 30.7 25.4 38.2



#54

cis-1,3-Dichloropropene

Concen: 0.209 ug/l

RT: 9.93 min Scan# 2538

Delta R.T. 0.10 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

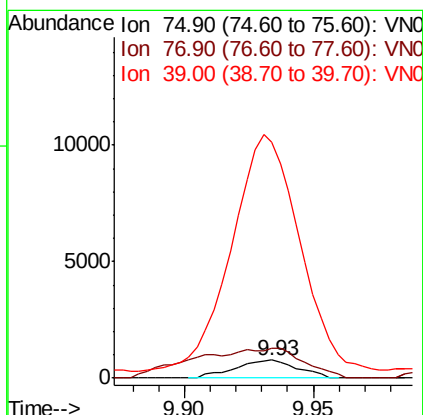
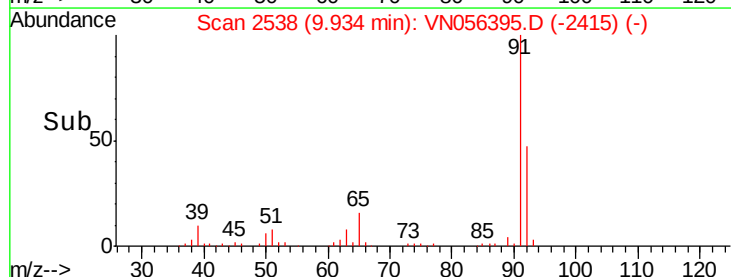
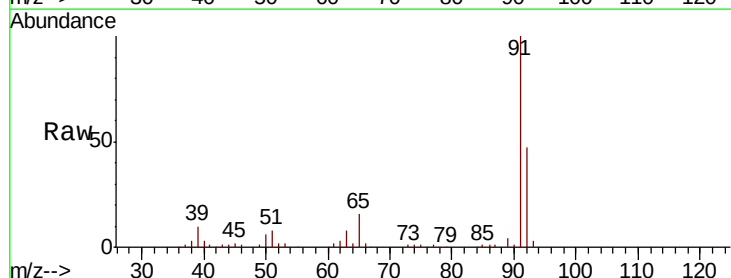
Tgt Ion: 75 Resp: 1305

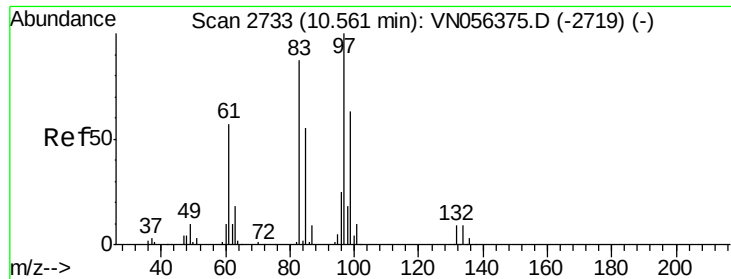
Ion Ratio Lower Upper

75 100

77 143.7 25.2 37.8#

39 1210.6 34.2 51.4#

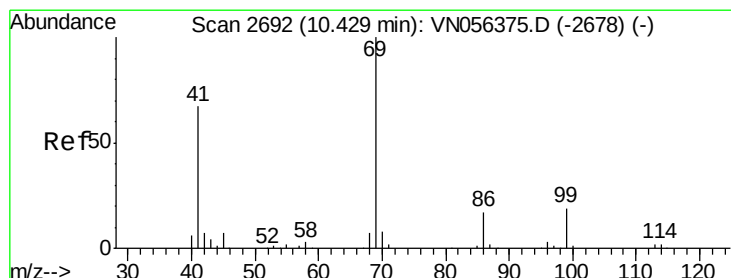
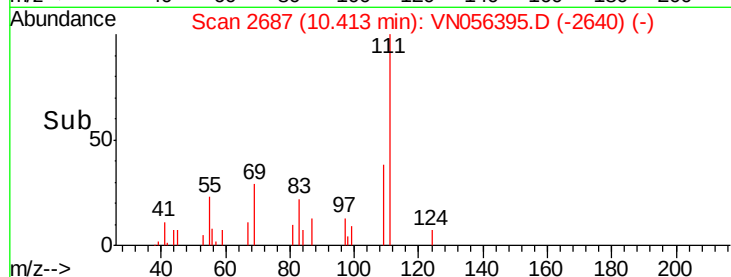
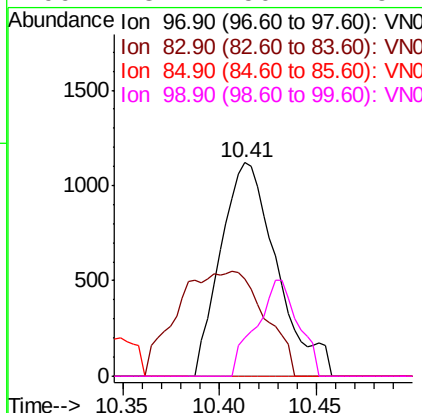
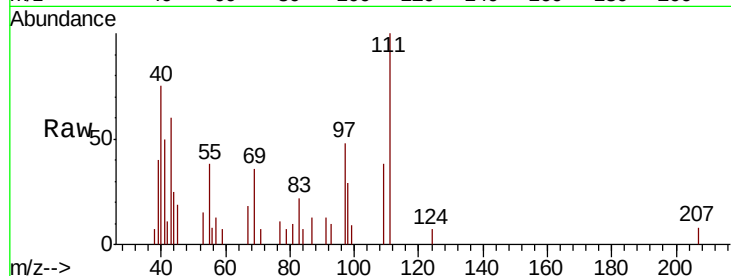




#55
 1,1,2-Trichloroethane
 Concen: 0.525 ug/l
 RT: 10.41 min Scan# 2687
 Delta R.T. -0.15 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

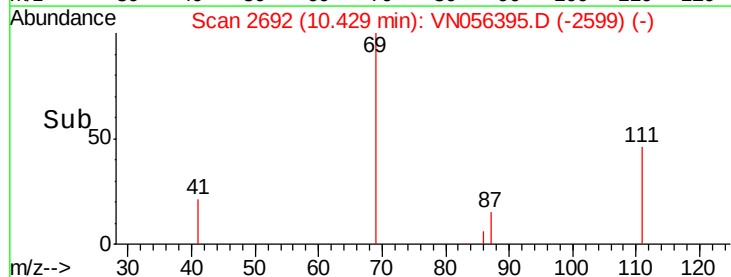
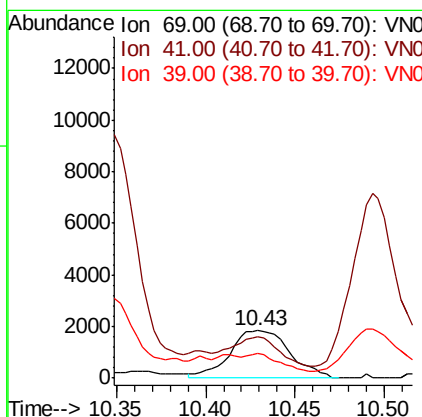
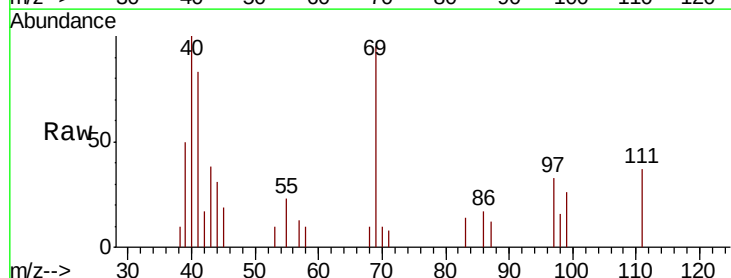
Instrument :
 MSVOA_N
 ClientSampleId :

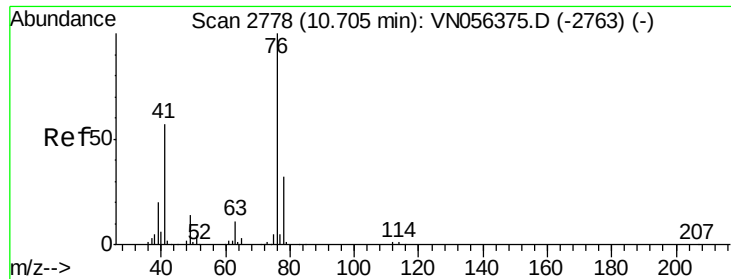
Tot Ion: 97 Resp: 2258
 Ion Ratio Lower Upper
 97 100
 83 45.7 69.8 104.6#
 85 0.0 43.8 65.8#
 99 18.1 50.2 75.2#



#56
 Ethyl methacrylate
 Concen: 0.690 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

Tgt Ion: 69 Resp: 4337
 Ion Ratio Lower Upper
 69 100
 41 47.2 51.4 77.2#
 39 0.0 24.7 37.1#

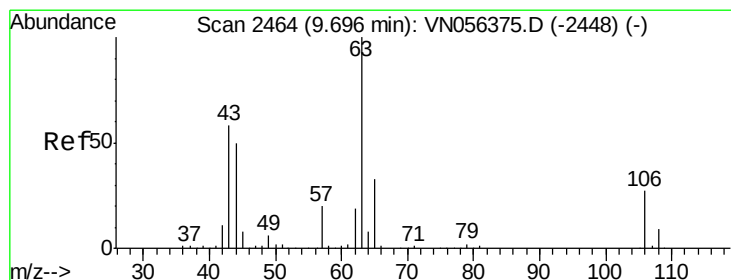
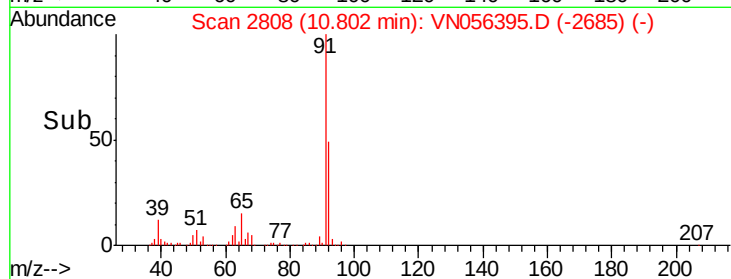
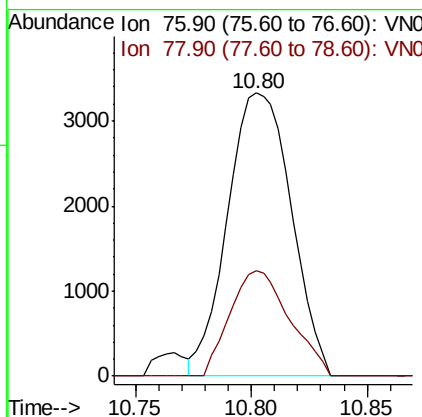
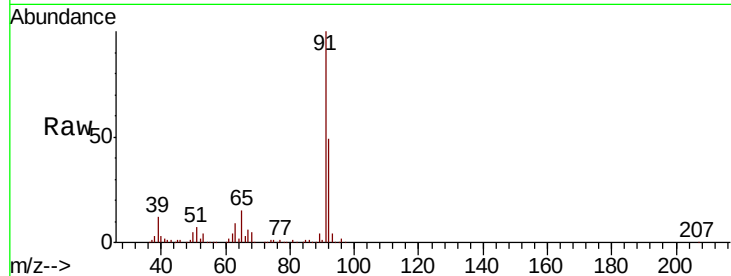




#57
 1,3-Dichloropropane
 Concen: 0.880 ug/l
 RT: 10.80 min Scan# 2808
 Delta R.T. 0.10 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

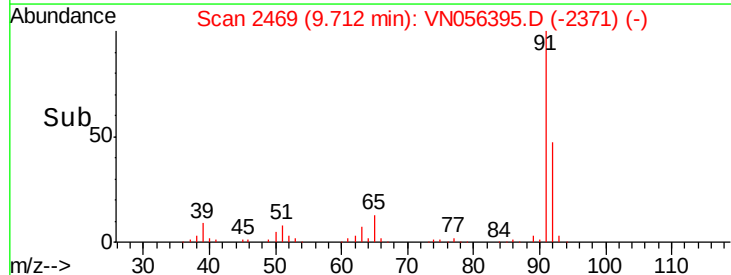
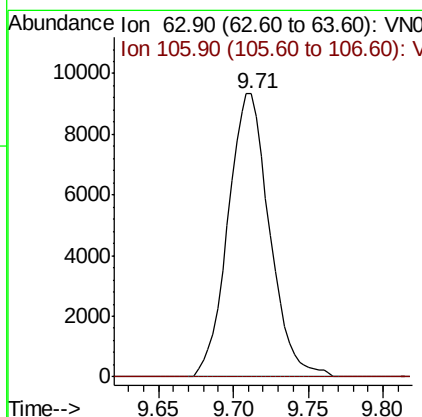
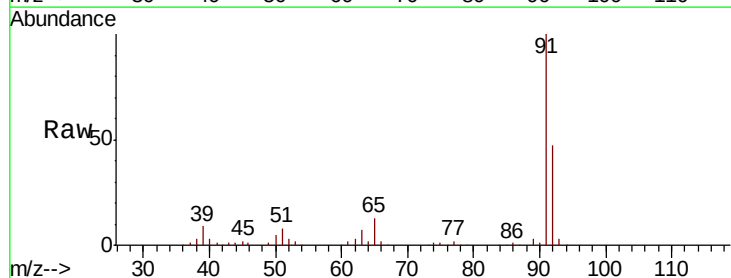
Instrument :
 MSVOA_N
 ClientSampleId :

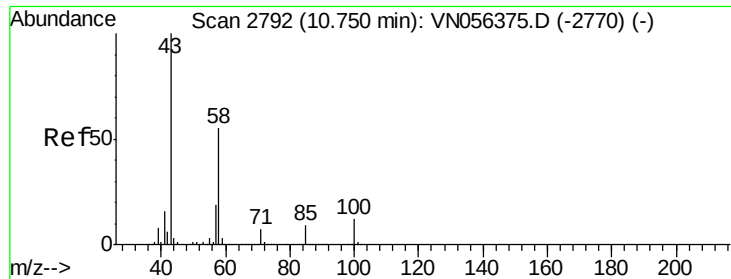
Tot Ion: 76 Resp: 6361
 Ion Ratio Lower Upper
 76 100
 78 34.8 25.9 38.9



#58
 2-Chloroethyl Vinyl ether
 Concen: 7.989 ug/l
 RT: 9.71 min Scan# 2469
 Delta R.T. 0.02 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

Tgt Ion: 63 Resp: 18047
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.6 32.4#

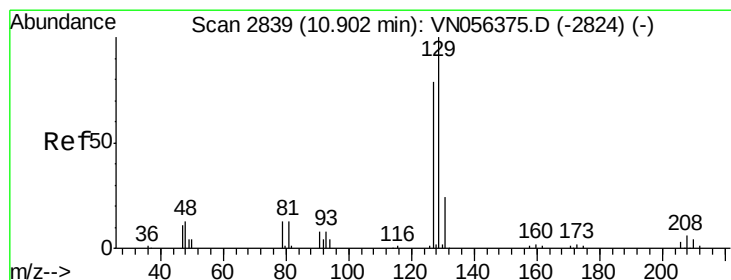
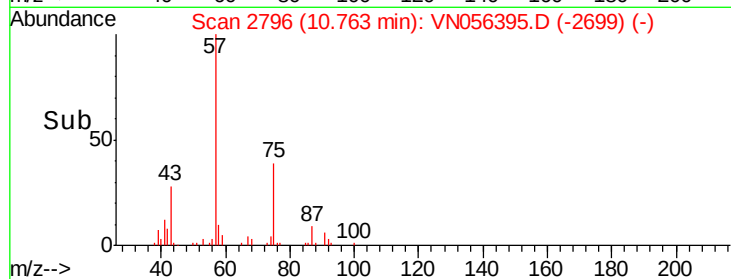
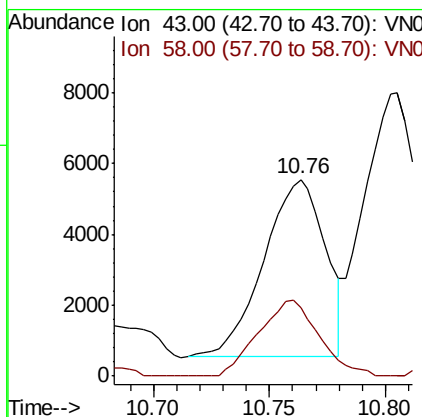
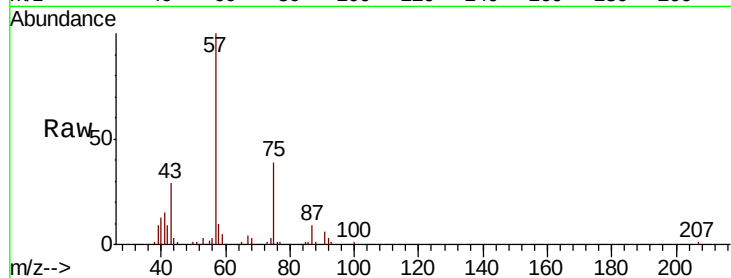




#59
2-Hexanone
Concen: 2.252 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

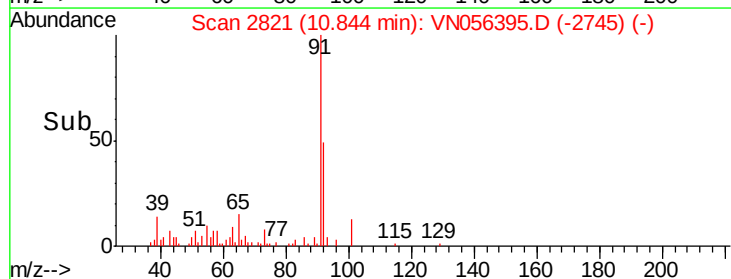
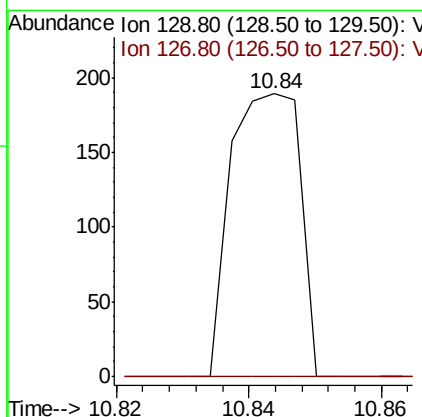
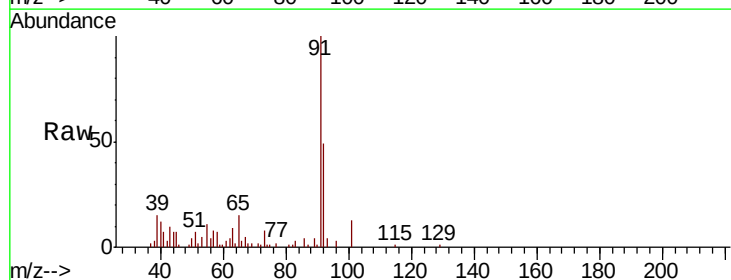
Instrument :
MSVOA_N
ClientSampleId :

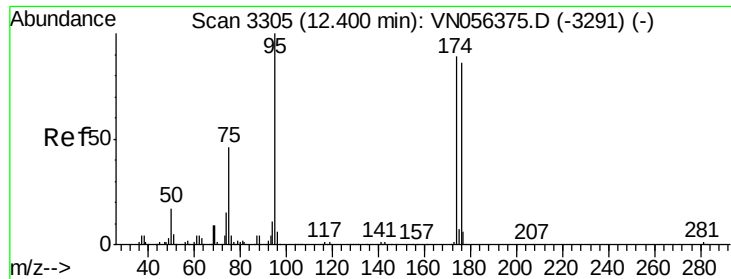
Tot Ion: 43 Resp: 9213
Ion Ratio Lower Upper
43 100
58 42.5 27.8 83.4



#60
Dibromochloromethane
Concen: 2.412 ug/l
RT: 10.84 min Scan# 2821
Delta R.T. -0.06 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion:129 Resp: 138
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#

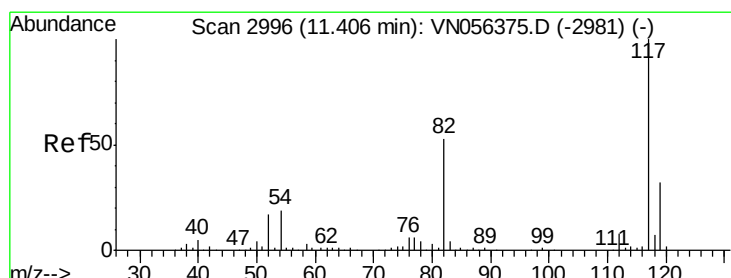
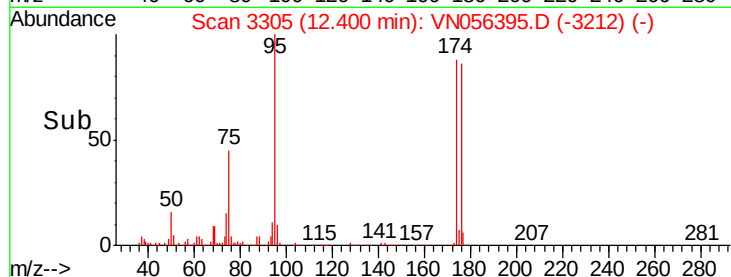
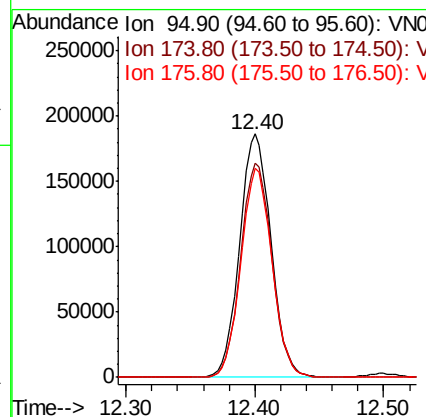
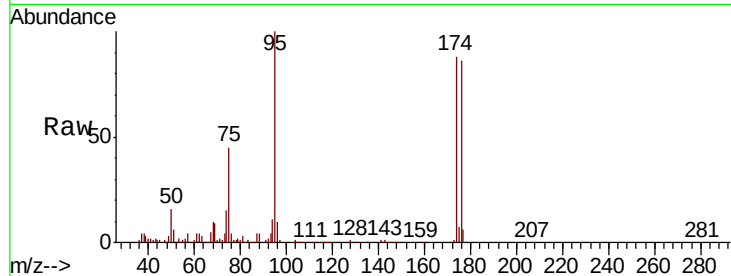




#62
4-Bromofluorobenzene
Concen: 60.232 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

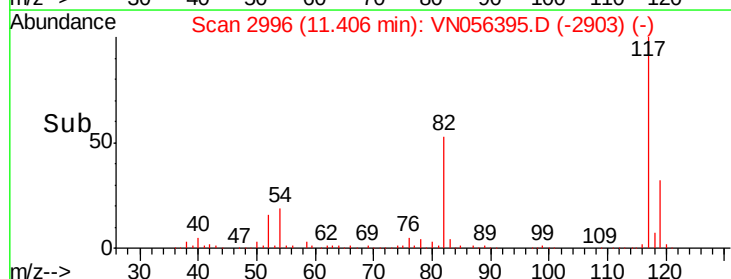
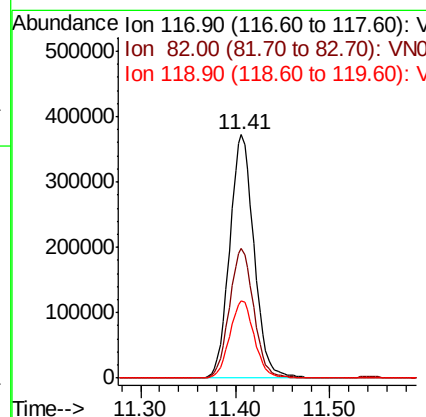
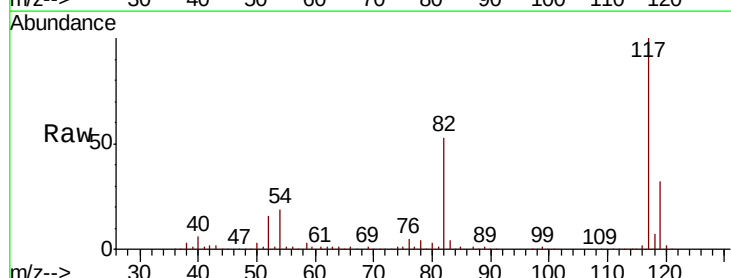
Instrument :
MSVOA_N
ClientSampleId :

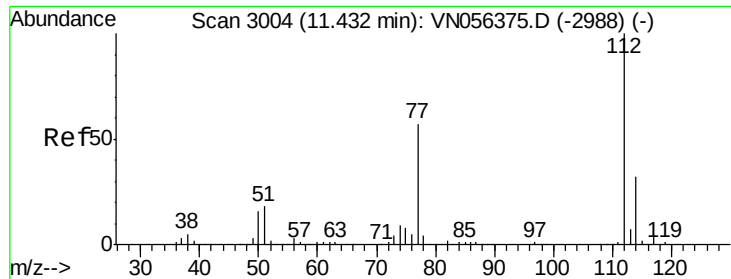
Tot Ion: 95 Resp: 315193
Ion Ratio Lower Upper
95 100
174 87.4 0.0 179.4
176 85.1 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion: 117 Resp: 664617
Ion Ratio Lower Upper
117 100
82 53.1 42.0 63.0
119 31.6 25.3 37.9

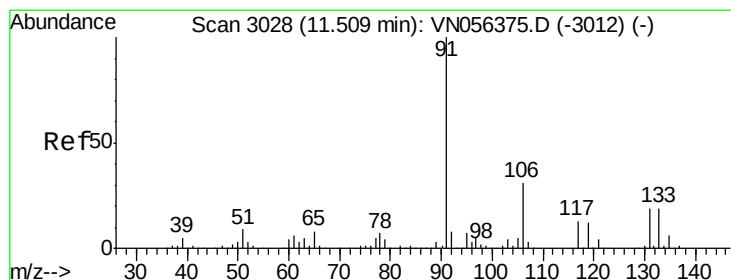
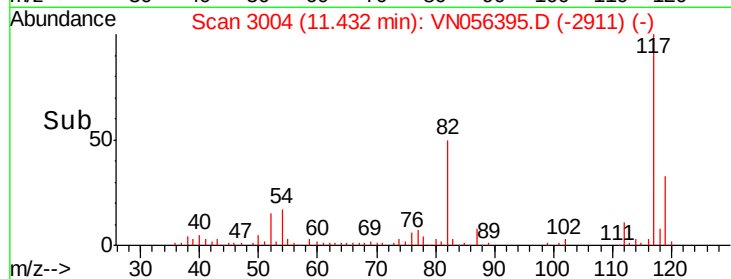
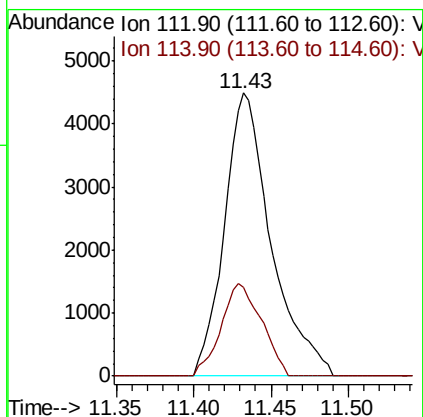
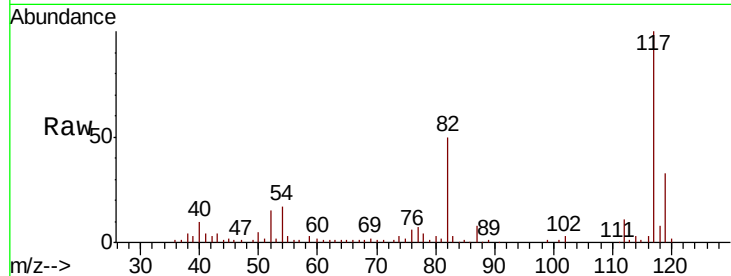




#65
Chlorobenzene
Concen: 0.703 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

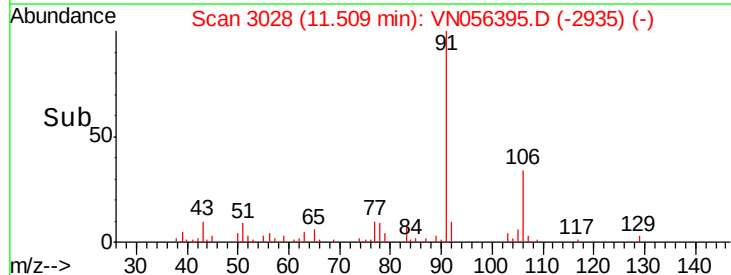
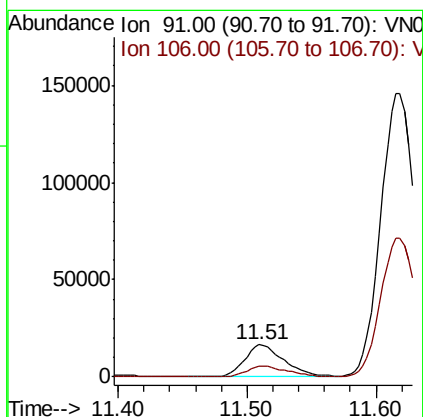
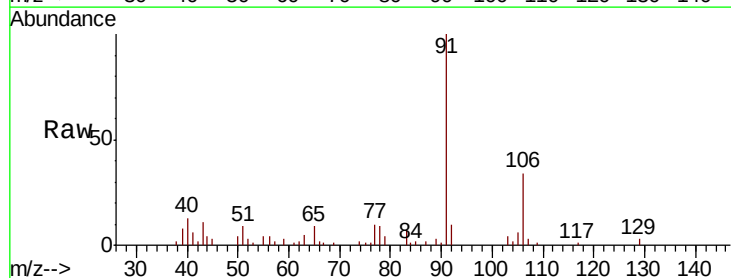
Instrument :
MSVOA_N
ClientSampled :

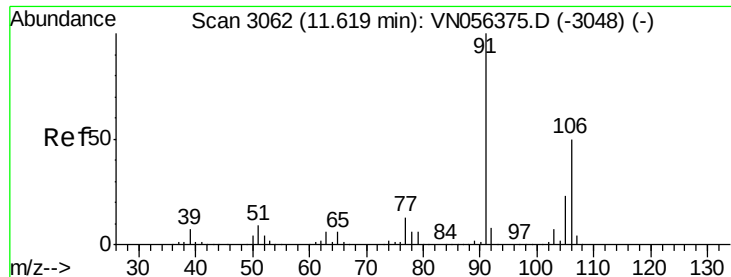
Tot Ion:112 Resp: 9387
Ion Ratio Lower Upper
112 100
114 31.5 25.4 38.2



#67
Ethyl Benzene
Concen: 1.521 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion: 91 Resp: 35657
Ion Ratio Lower Upper
91 100
106 34.3 25.1 37.7

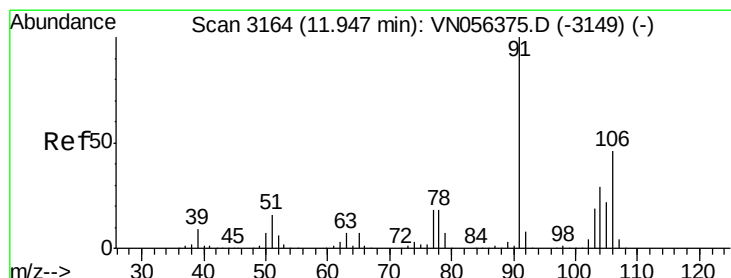
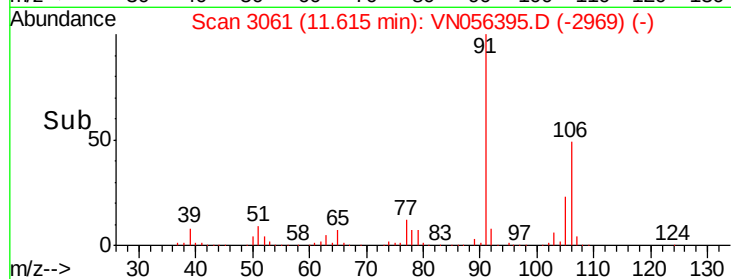
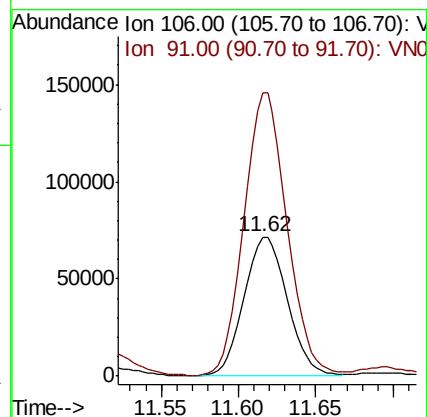
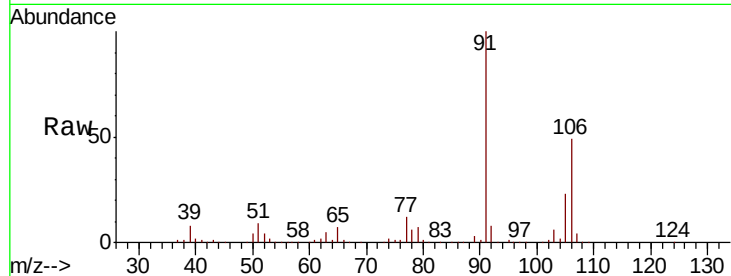




#68
m/p-Xylenes
Concen: 16.336 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

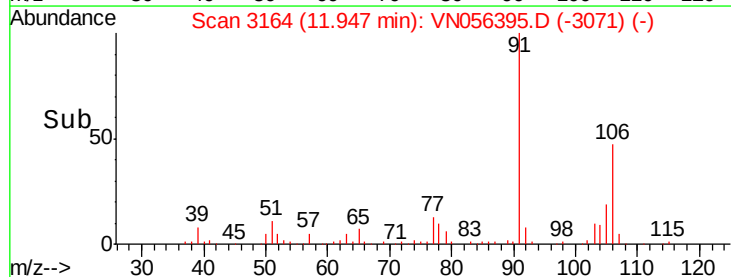
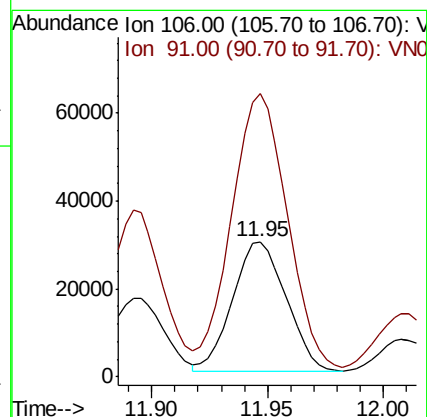
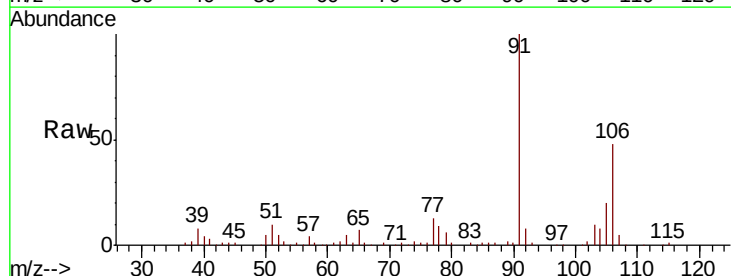
Instrument :
MSVOA_N
ClientSampled :

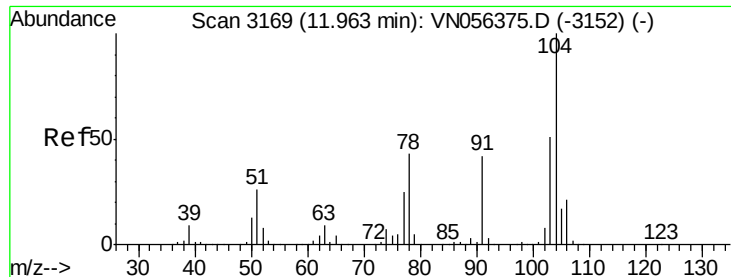
Tot Ion:106 Resp: 140386
Ion Ratio Lower Upper
106 100
91 200.9 160.1 240.1



#69
o-Xylene
Concen: 5.529 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion:106 Resp: 47008
Ion Ratio Lower Upper
106 100
91 234.6 107.1 321.3

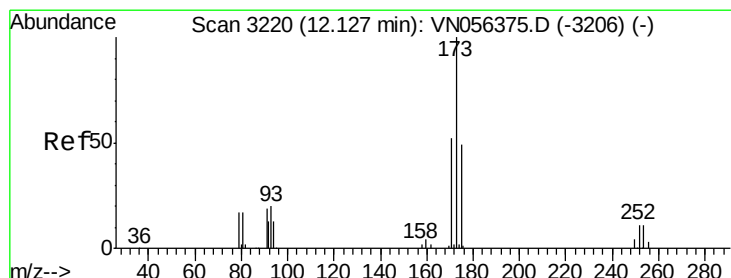
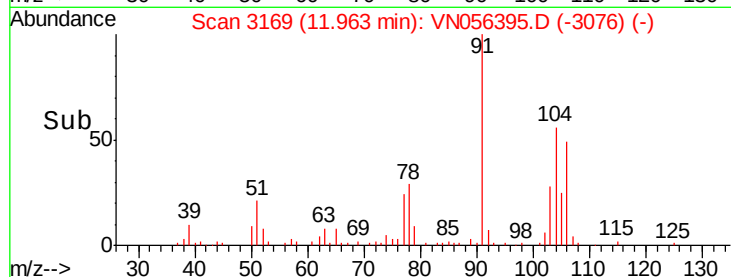
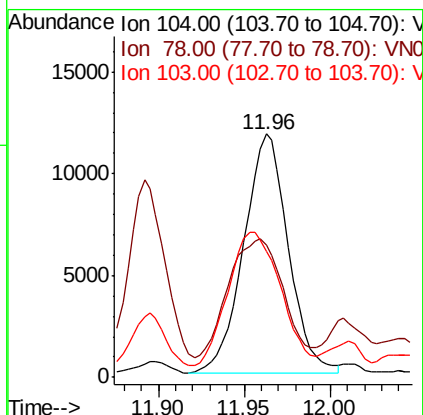
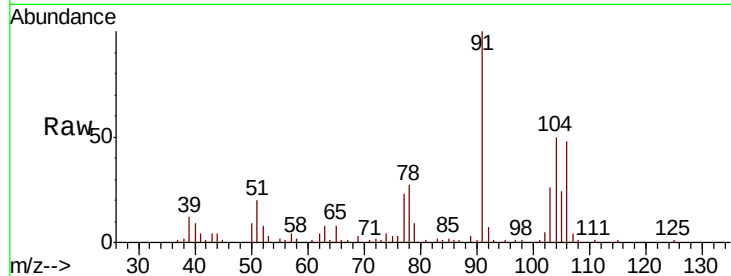




#70
Stvrene
Concen: 1.551 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

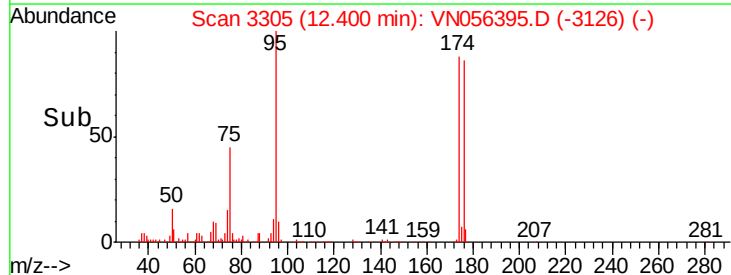
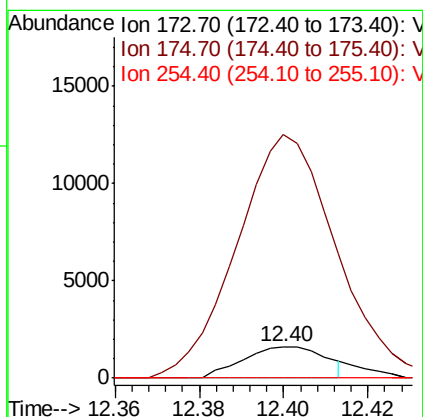
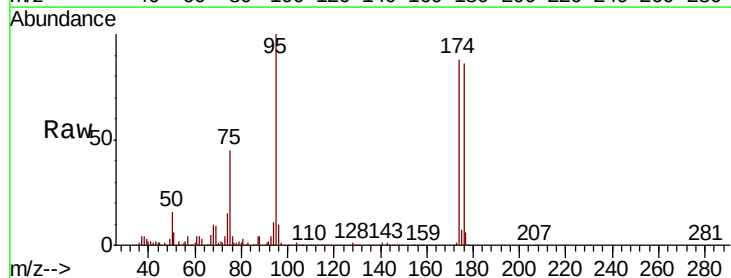
Instrument :
MSVOA_N
ClientSampled :

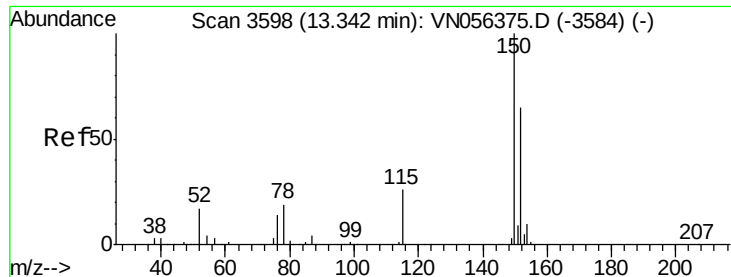
Tot Ion:104 Resp: 21081
Ion Ratio Lower Upper
104 100
78 63.1 38.6 57.8#
103 77.7 43.9 65.9#



#71
Bromoform
Concen: 3.708 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion:173 Resp: 2197
Ion Ratio Lower Upper
173 100
175 823.4 24.4 73.4#
254 0.0 0.0 0.0



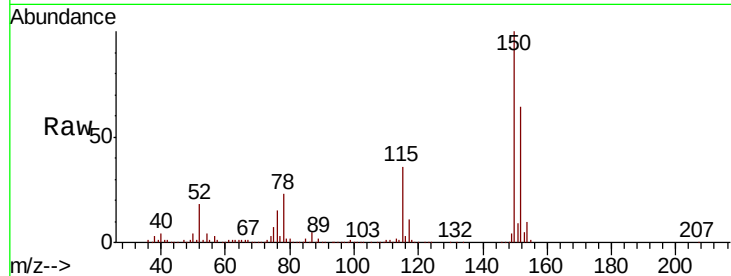


#72

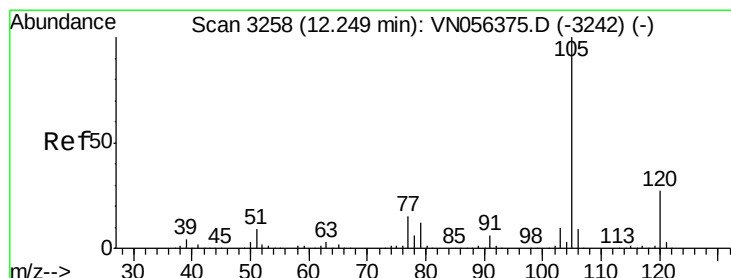
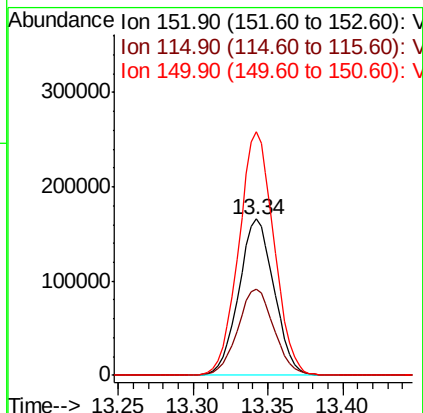
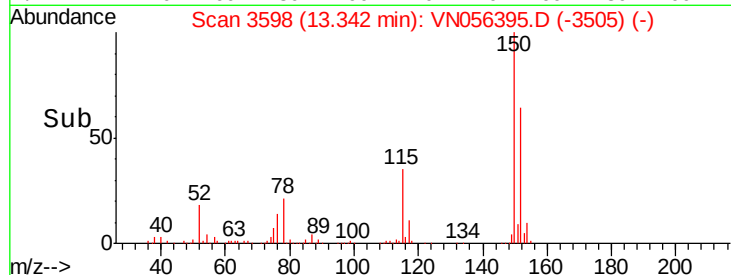
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.1	84.4
150	155.0	0.0	348.4



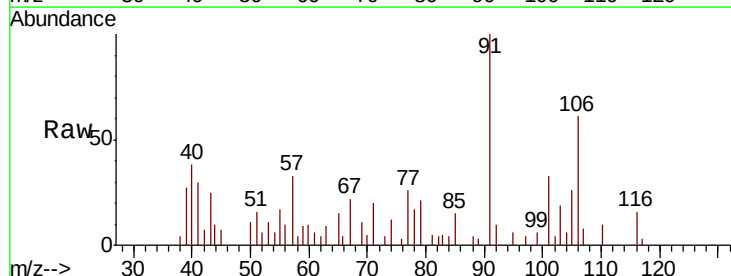
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



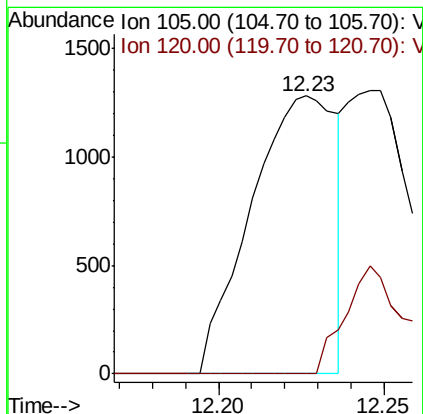
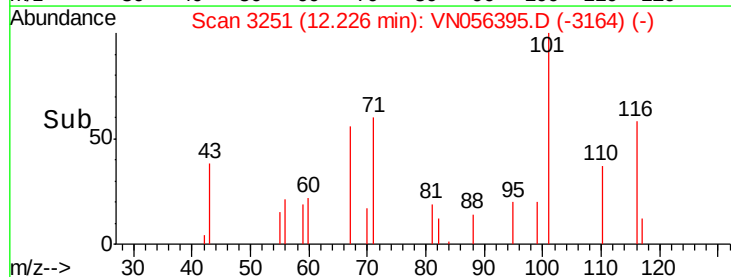
#73

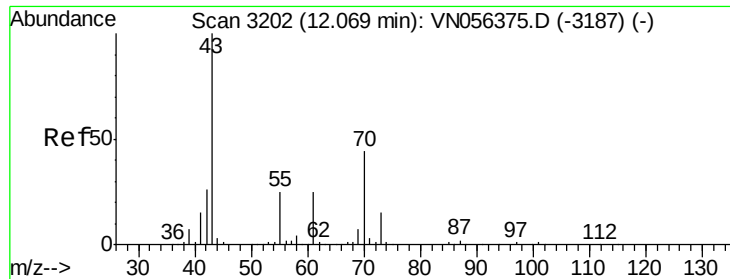
Isopropylbenzene
Concen: Below Cal
RT: 12.23 min Scan# 3251
Delta R.T. -0.02 min
Lab File: VN056395.D
Acq: 20 Jun 2019 12:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.4	40.2



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





#74

N-amvl acetate

Concen: 0.935 ug/l

RT: 11.99 min Scan# 3179

Delta R.T. -0.07 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 8118

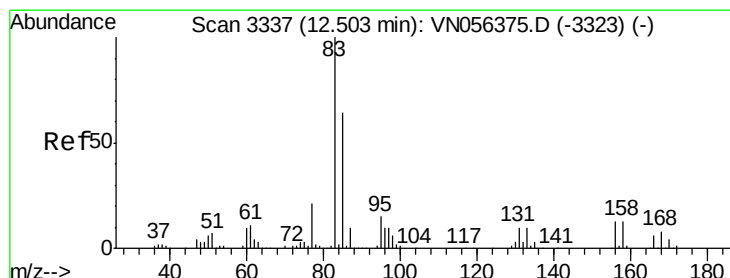
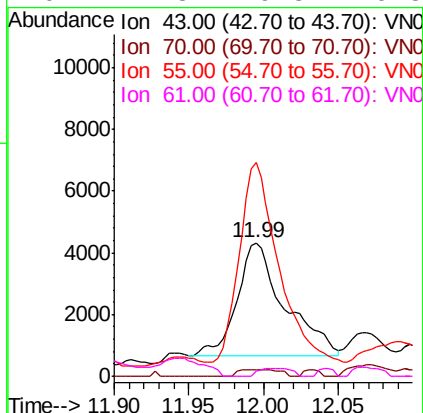
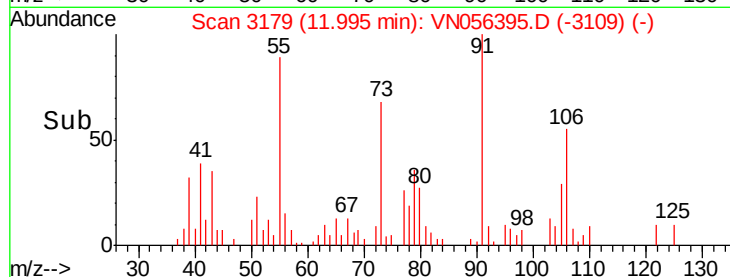
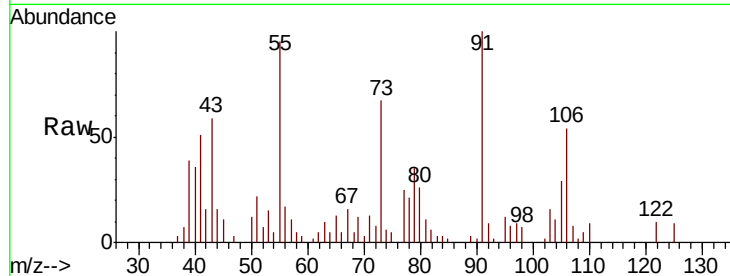
Ion Ratio Lower Upper

43 100

70 5.0 34.9 52.3#

55 146.8 20.4 30.6#

61 4.8 19.8 29.8#



#75

1,1,2,2-Tetrachloroethane

Concen: 38.094 ug/l

RT: 12.36 min Scan# 3294

Delta R.T. -0.14 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

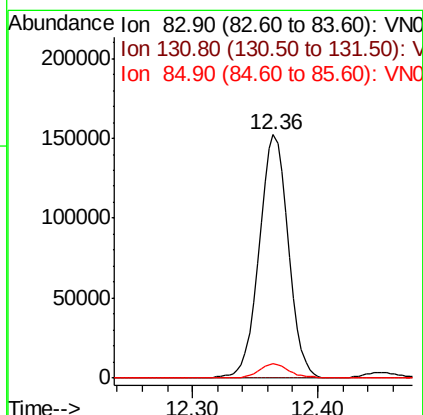
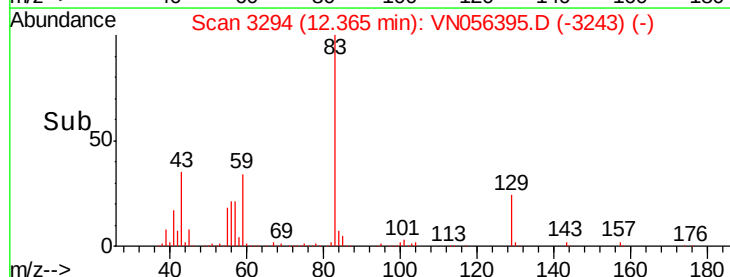
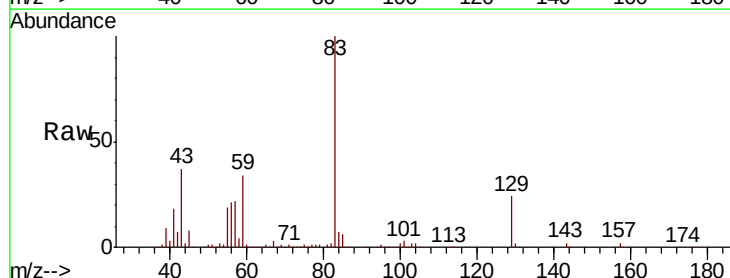
Tgt Ion: 83 Resp: 246203

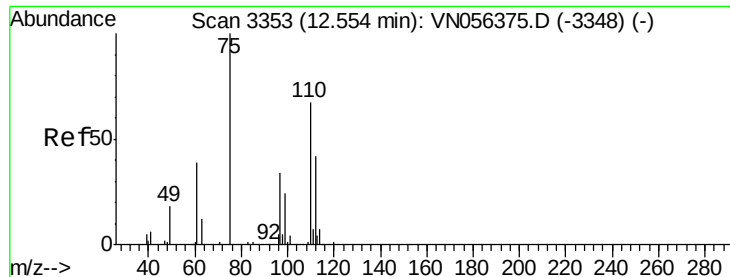
Ion Ratio Lower Upper

83 100

131 0.2 5.3 15.8#

85 6.0 32.4 97.0#





#76

1,2,3-Trichloropropane

Concen: 25.172 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

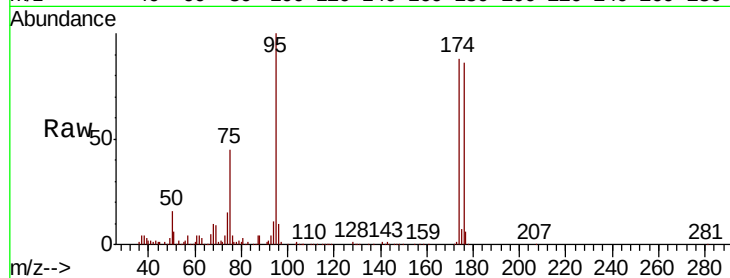
ClientSampleId :

Tot Ion: 75 Resp: 142338

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

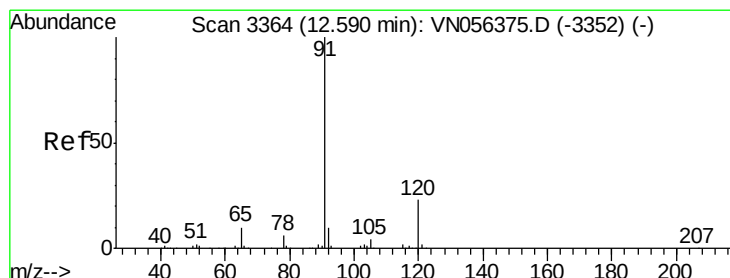
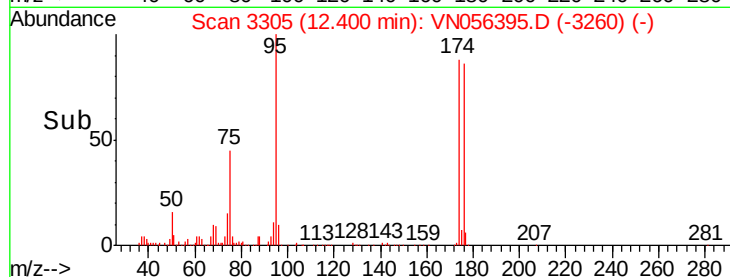


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

Time-->



#78

n-propylbenzene

Concen: 6.443 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN056395.D

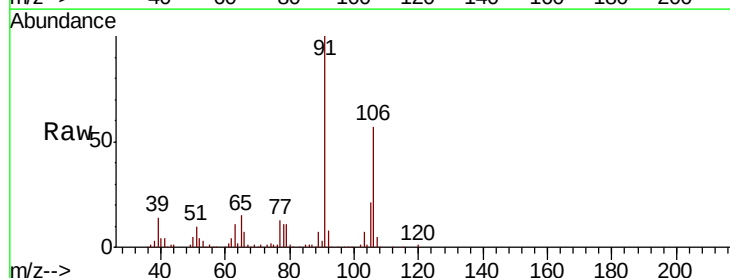
Acq: 20 Jun 2019 12:18

Tgt Ion: 91 Resp: 160907

Ion Ratio Lower Upper

91 100

120 0.6 11.8 35.4#

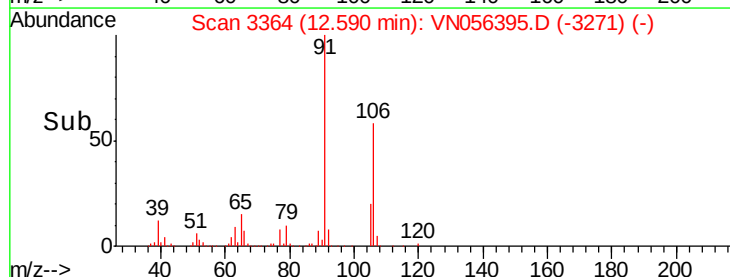


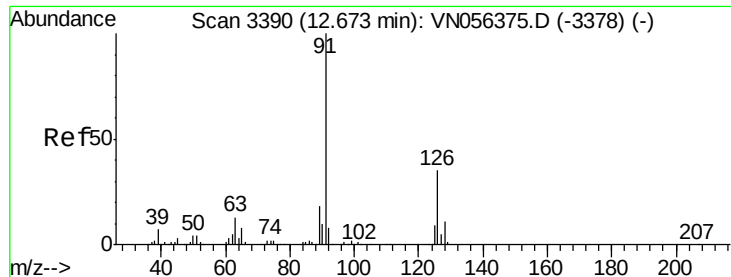
Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.59

Time-->





#79

2-Chlorotoluene

Concen: 9.712 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

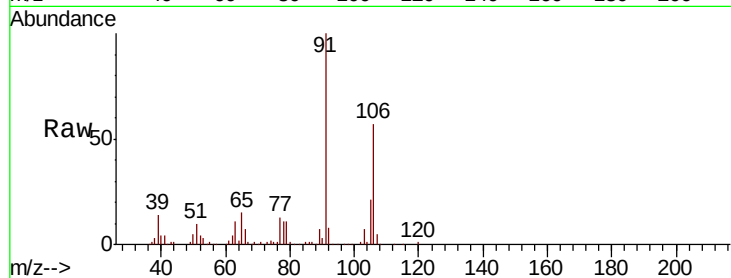
ClientSampleId :

Tot Ion: 91 Resp: 160907

Ion Ratio Lower Upper

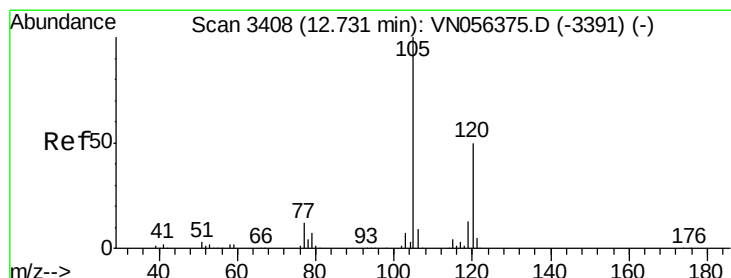
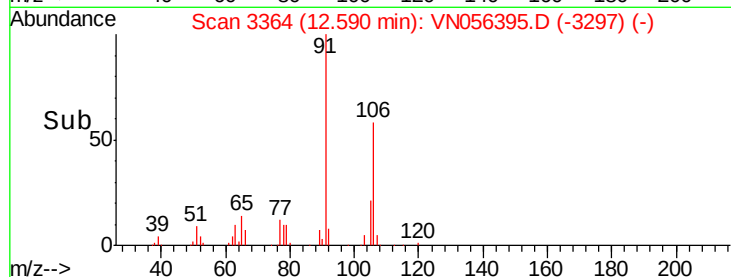
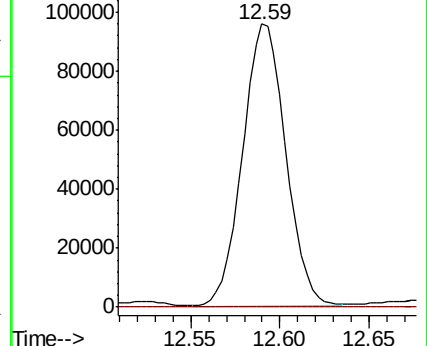
91 100

126 0.0 17.6 52.8#



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: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056395.D

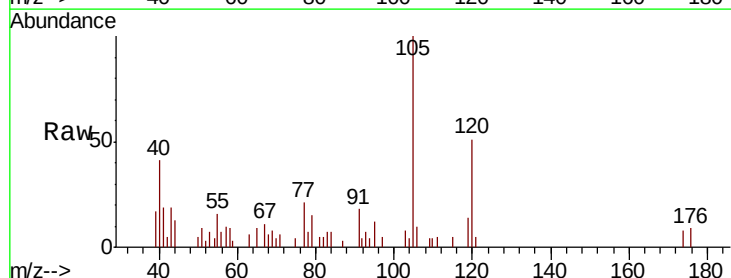
Acq: 20 Jun 2019 12:18

Tgt Ion:105 Resp: 7737

Ion Ratio Lower Upper

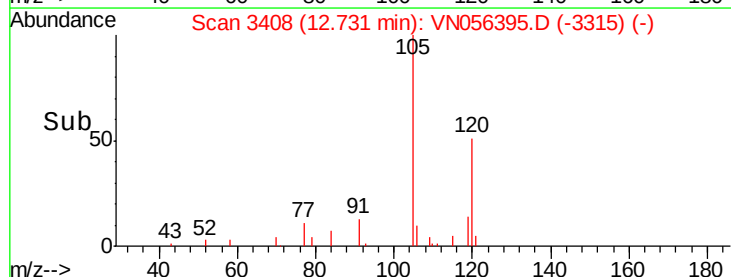
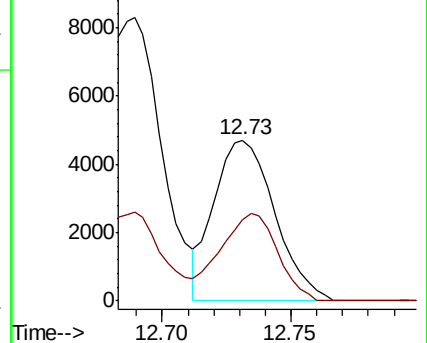
105 100

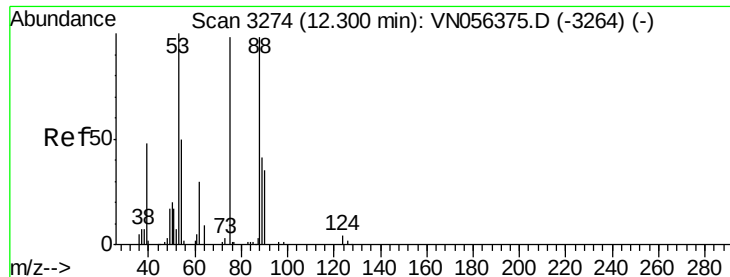
120 51.1 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 89.464 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

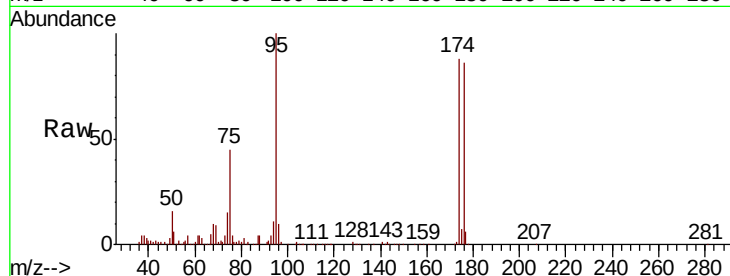
Tot Ion: 75 Resp: 142338

Ion Ratio Lower Upper

75 100

53 5.7 83.9 125.9#

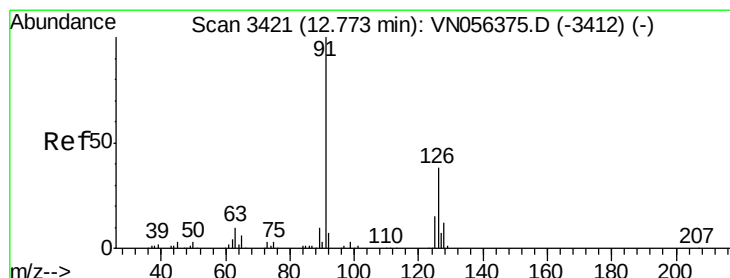
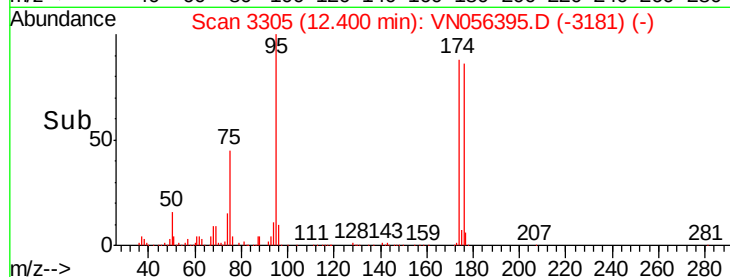
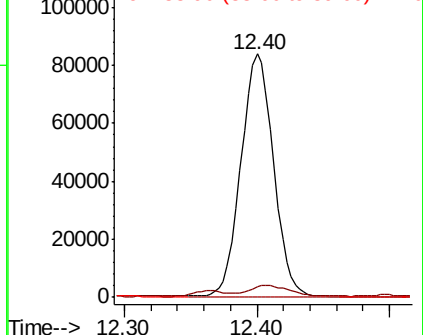
89 0.0 35.0 52.6#



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



#82

4-Chlorotoluene

Concen: 10.906 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.18 min

Lab File: VN056395.D

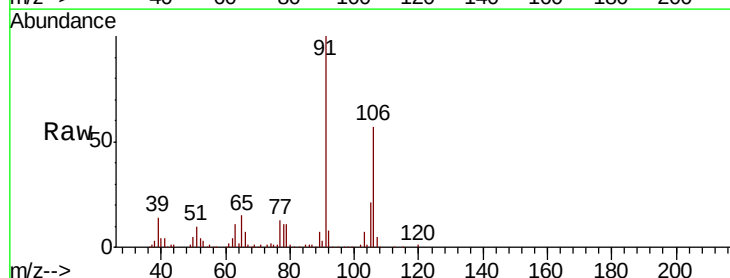
Acq: 20 Jun 2019 12:18

Tgt Ion: 91 Resp: 160807

Ion Ratio Lower Upper

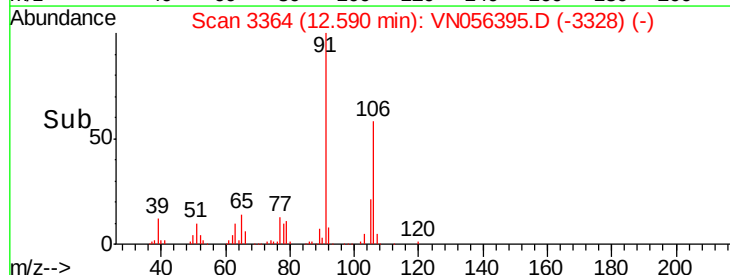
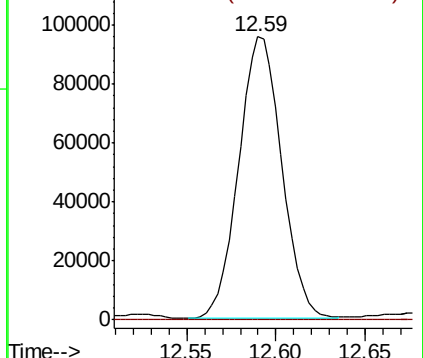
91 100

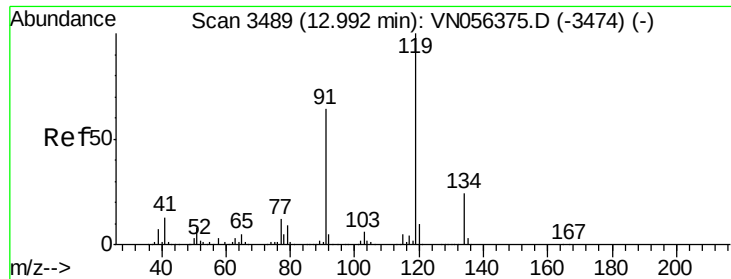
126 0.0 17.3 52.0#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

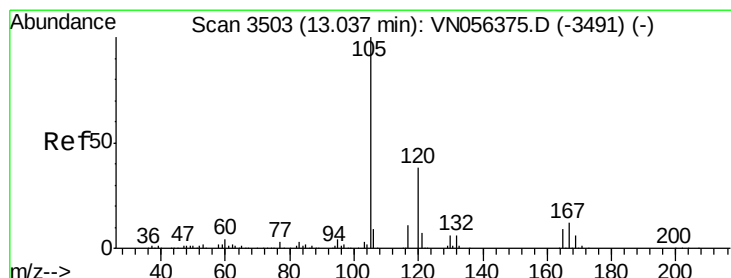
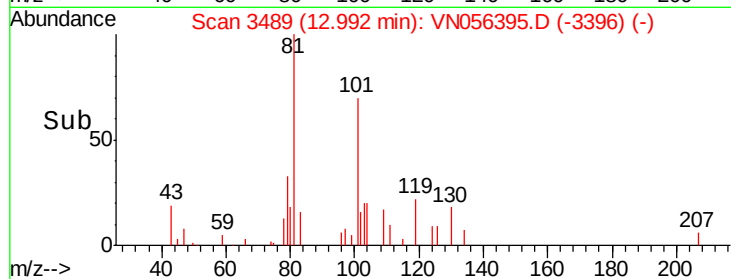
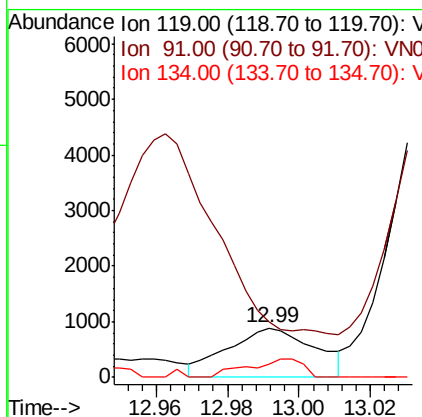
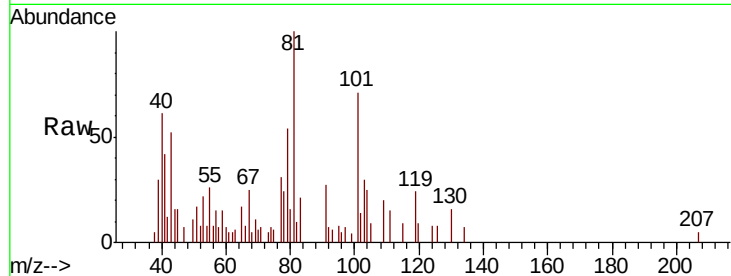




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

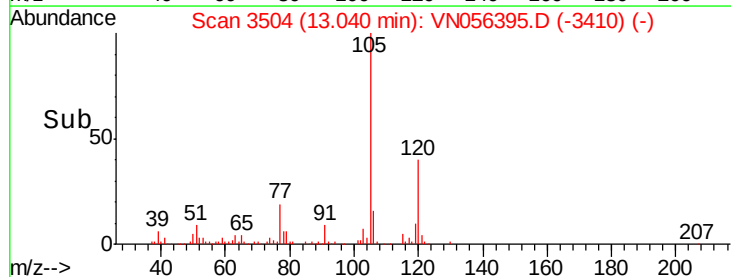
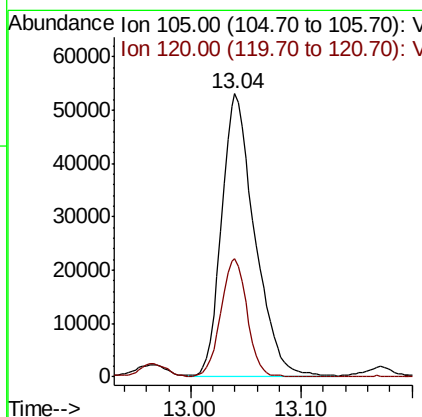
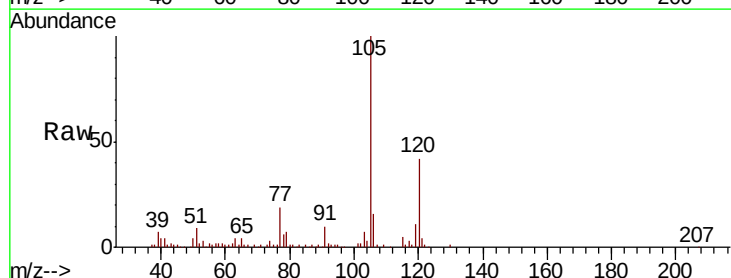
Instrument :
 MSVOA_N
 ClientSampleId :

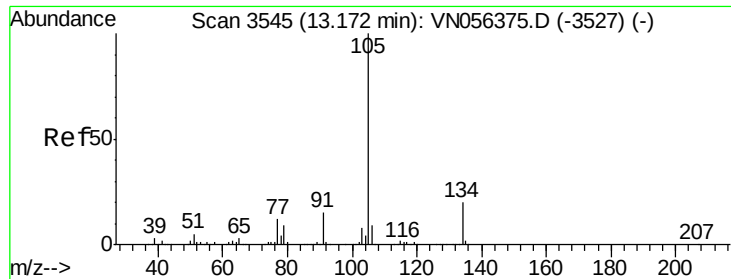
Tot Ion:119 Resp: 1497
 Ion Ratio Lower Upper
 119 100
 91 0.0 31.6 94.7#
 134 23.6 13.2 39.5



#84
 1,2,4-Trimethylbenzene
 Concen: 5.948 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

Tgt Ion:105 Resp: 109198
 Ion Ratio Lower Upper
 105 100
 120 33.4 22.9 68.8





#85

sec-Butylbenzene

Concen: 4.975 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

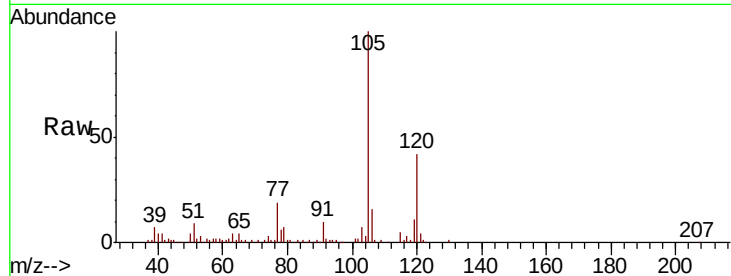
ClientSampled :

Tot Ion:105 Resp: 109198

Ion Ratio Lower Upper

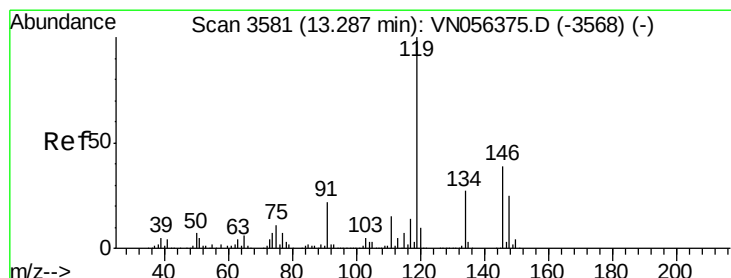
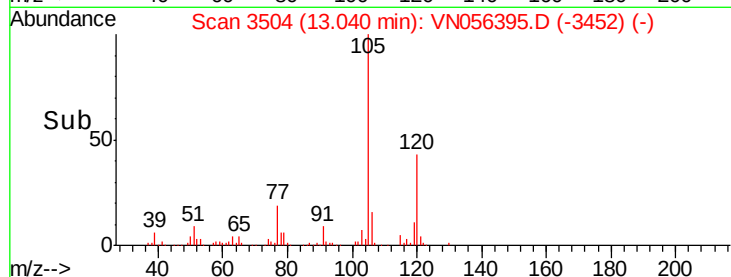
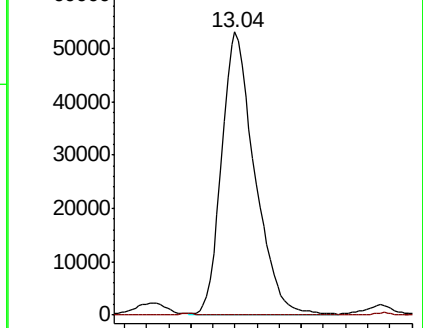
105 100

134 0.0 10.2 30.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.204 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

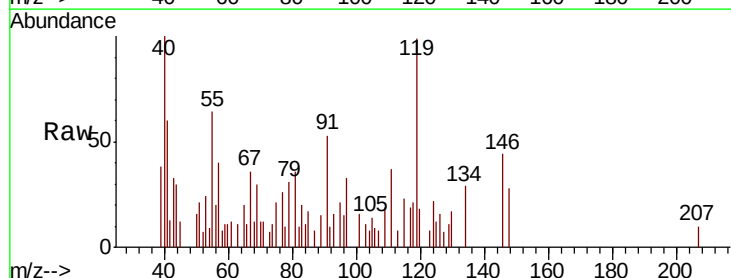
Tgt Ion:119 Resp: 3848

Ion Ratio Lower Upper

119 100

134 25.9 13.5 40.4

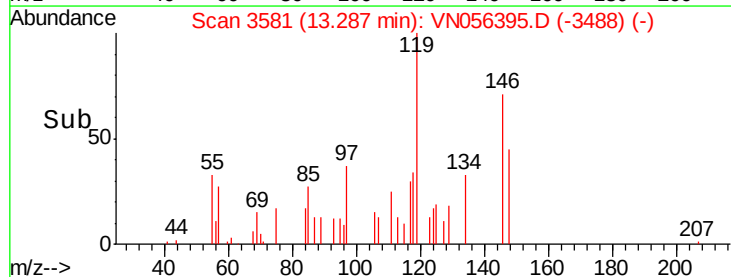
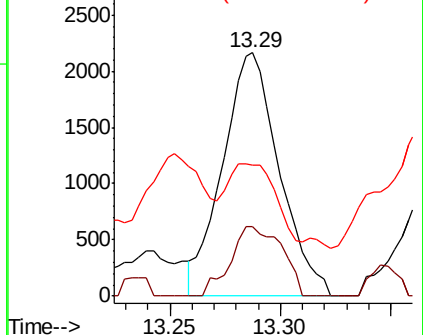
91 26.5 11.2 33.5

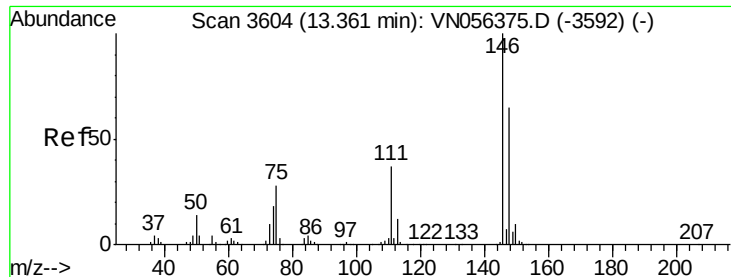


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

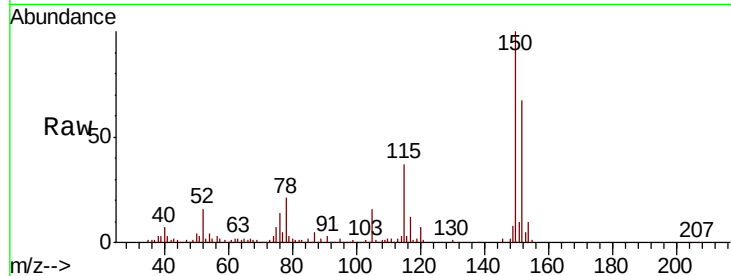




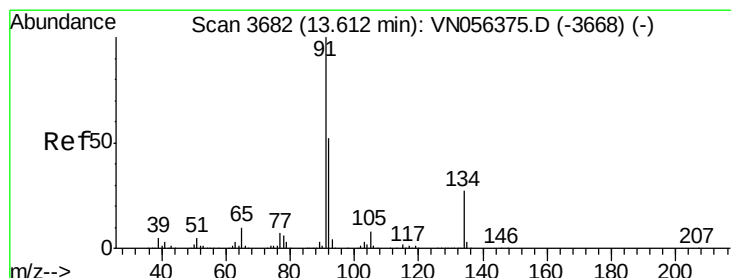
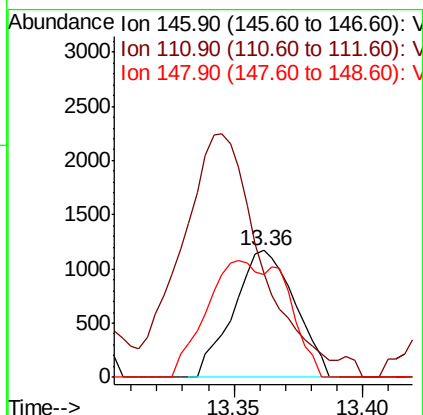
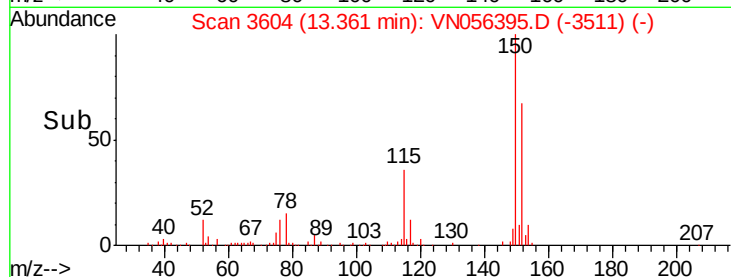
#88
 1,4-Dichlorobenzene
 Concen: 0.217 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 1940
 Ion Ratio Lower Upper
 146 100
 111 251.1 18.4 55.4#
 148 83.5 32.4 97.0

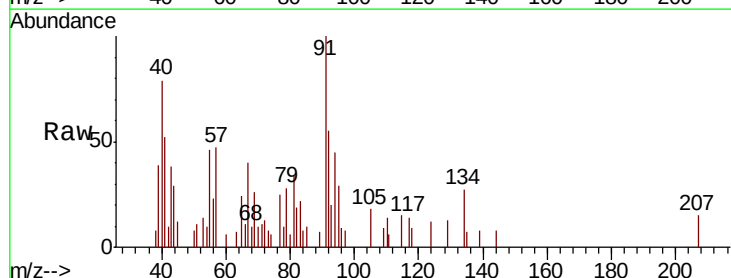


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

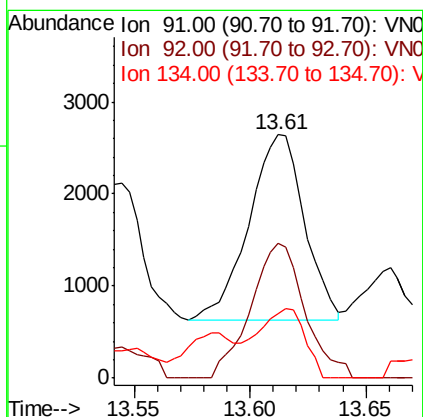
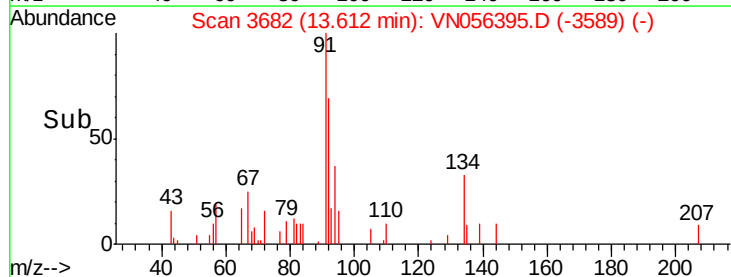


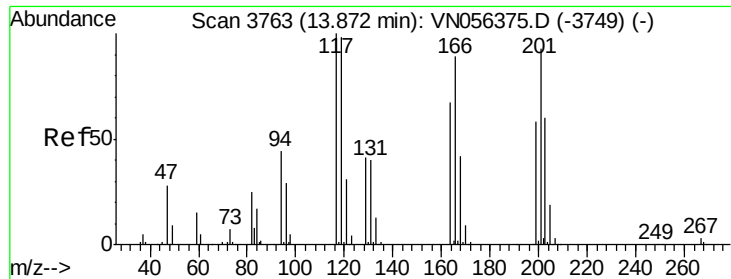
#89
 n-Butylbenzene
 Concen: 0.235 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

Tgt Ion: 91 Resp: 3348
 Ion Ratio Lower Upper
 91 100
 92 70.9 26.2 78.5
 134 31.5 13.4 40.2



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.700 ug/l

RT: 13.85 min Scan# 3757

Delta R.T. -0.02 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

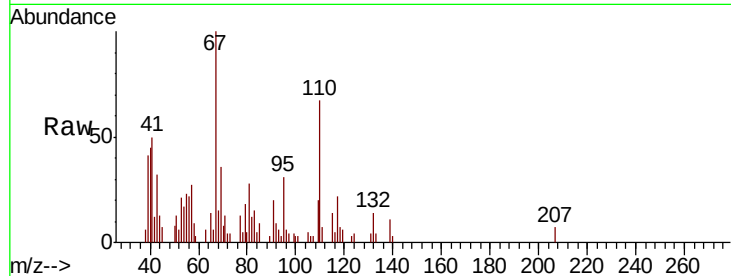
ClientSampled :

Tot Ion:117 Resp: 2055

Ion Ratio Lower Upper

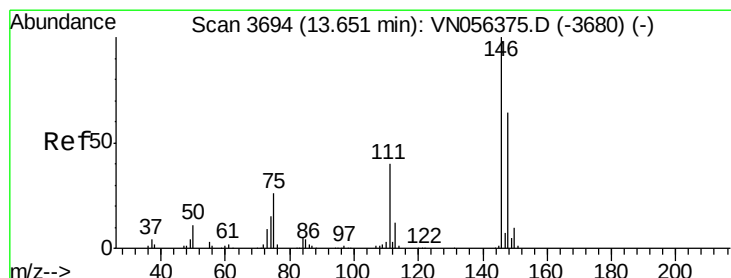
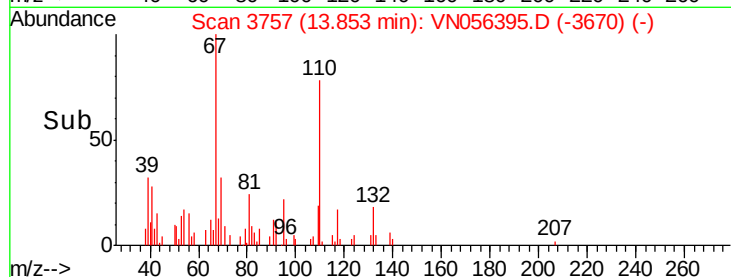
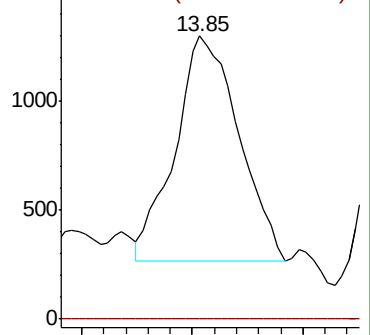
117 100

201 0.0 45.9 137.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.215 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.01 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

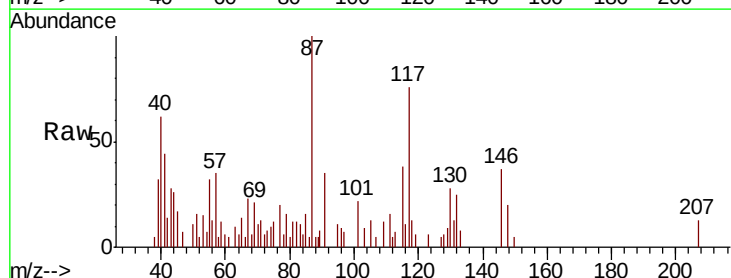
Tgt Ion:146 Resp: 1968

Ion Ratio Lower Upper

146 100

111 33.1 19.3 57.9

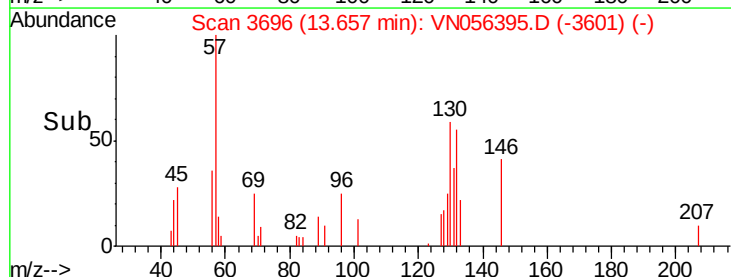
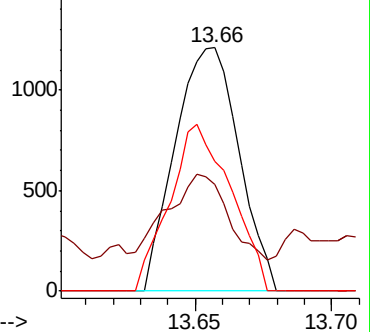
148 66.0 32.0 96.0

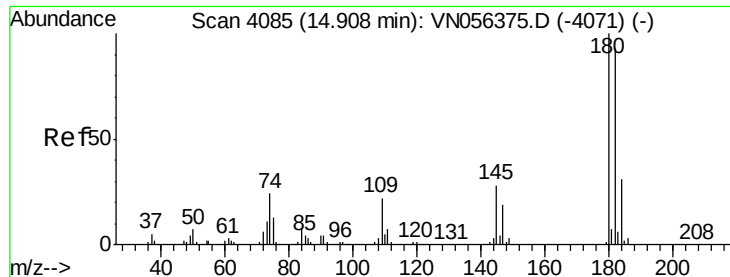


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

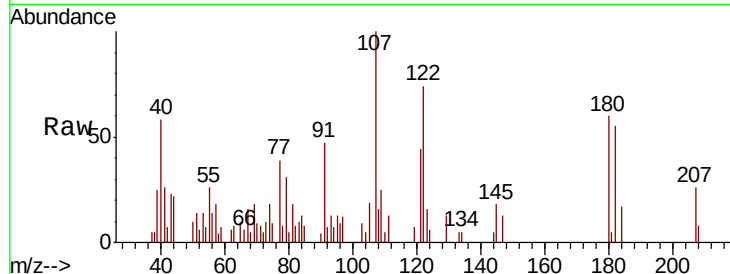




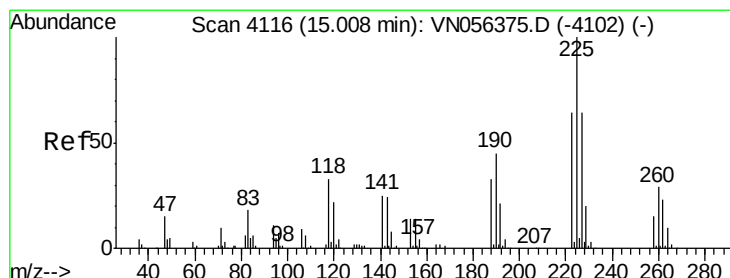
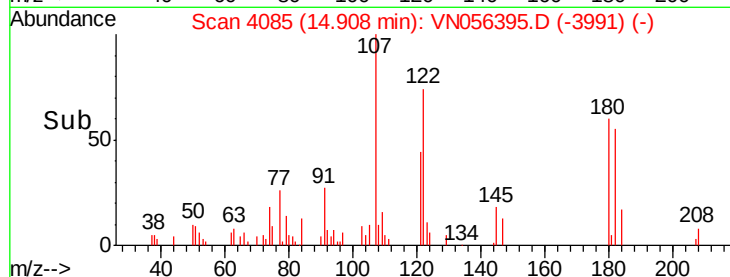
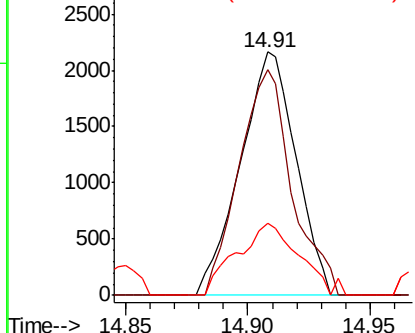
#93
 1,2,4-Trichlorobenzene
 Concen: 6.248 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 3407
 Ion Ratio Lower Upper
 180 100
 182 88.3 46.9 140.6
 145 33.6 14.4 43.0

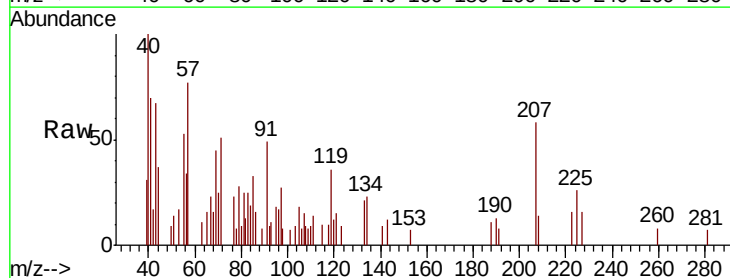


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

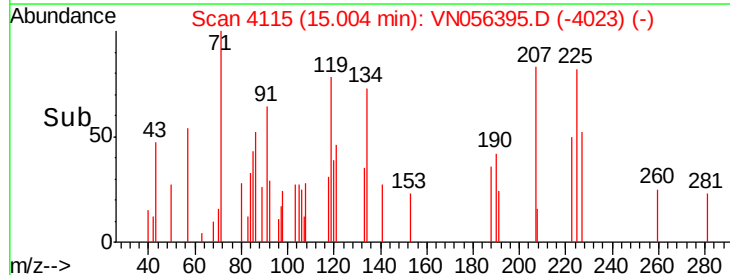
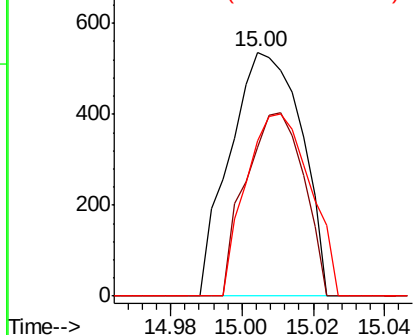


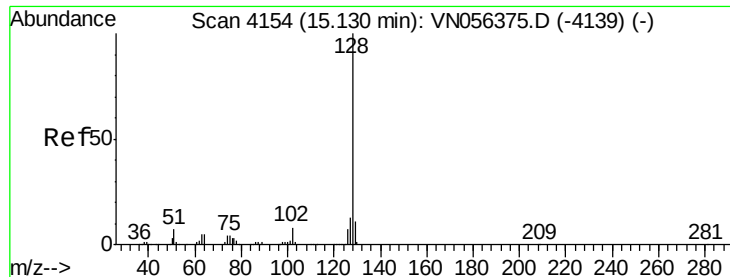
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056395.D
 Acq: 20 Jun 2019 12:18

Tgt Ion:225 Resp: 741
 Ion Ratio Lower Upper
 225 100
 223 61.3 31.4 94.3
 227 67.1 32.1 96.3



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: 11.975 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

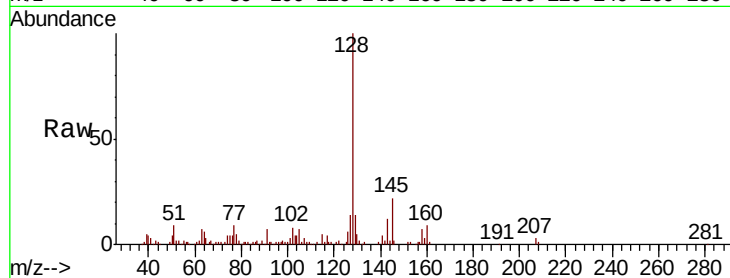
Tot Ion:128 Resp: 93821

Ion Ratio Lower Upper

128 100

127 14.5 10.2 15.2

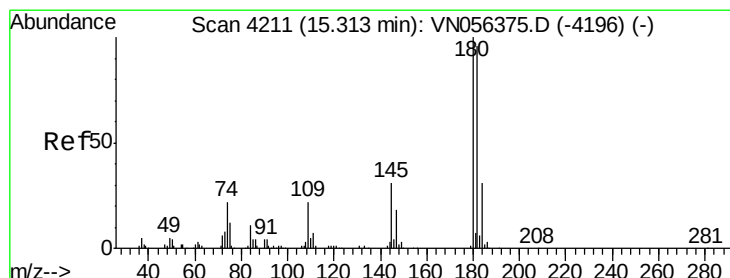
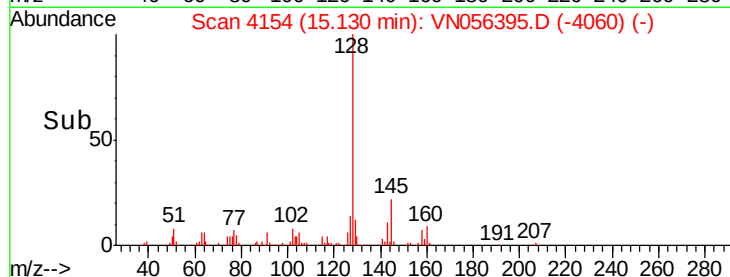
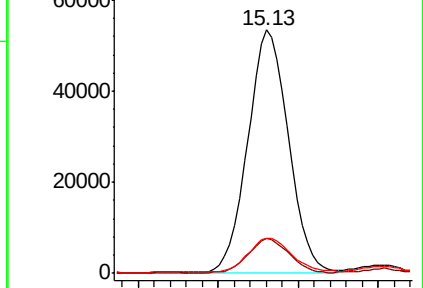
129 16.4 8.6 12.8#



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: 5.197 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056395.D

Acq: 20 Jun 2019 12:18

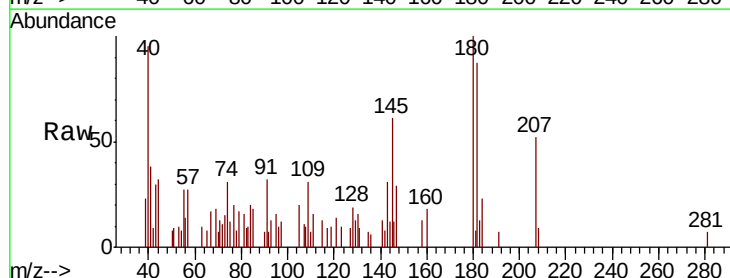
Tgt Ion:180 Resp: 3889

Ion Ratio Lower Upper

180 100

182 99.2 48.3 144.8

145 139.0 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

