

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058593.D
 Acq On : 8 Oct 2019 1:14
 Operator : JC/SP
 Sample : K5197-05MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:11:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	444161	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	750825	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	683895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	327973	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	311379	47.97	ug/l	0.00
Spiked Amount						
			Recovery	=	95.94%	
35) Dibromofluoromethane	7.57	113	229649	49.90	ug/l	0.00
Spiked Amount						
			Recovery	=	99.80%	
50) Toluene-d8	10.08	98	879299	48.78	ug/l	0.00
Spiked Amount						
			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	12.41	95	334092	51.26	ug/l	0.00
Spiked Amount						
			Recovery	=	102.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	214663	44.077	ug/l	98
3) Chloromethane	2.04	50	300700	56.161	ug/l	99
4) Vinyl Chloride	2.17	62	289824	55.257	ug/l	100
5) Bromomethane	2.54	94	140683	50.497	ug/l	100
6) Chloroethane	2.68	64	177115	56.357	ug/l	98
7) Trichlorofluoromethane	3.00	101	355138	56.108	ug/l	98
8) Diethyl Ether	3.39	74	140094	51.298	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	204537	47.582	ug/l	99
10) Methyl Iodide	3.93	142	216479	45.418	ug/l	99
11) Tert butyl alcohol	4.76	59	225631	312.914	ug/l	98
12) 1,1-Dichloroethene	3.71	96	205043	48.936	ug/l	99
13) Acrolein	3.58	56	71163	310.293	ug/l	98
14) Allyl chloride	4.30	41	393726	51.636	ug/l	93
15) Acrylonitrile	4.96	53	600927	285.952	ug/l	99
16) Acetone	3.79	43	526883	238.127	ug/l	99
17) Carbon Disulfide	4.03	76	540511	48.938	ug/l	99
18) Methyl Acetate	4.30	43	280574	50.418	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	798577	54.017	ug/l	100
20) Methylene Chloride	4.53	84	252451	49.441	ug/l	97
21) trans-1,2-Dichloroethene	5.02	96	225720	48.445	ug/l	98
22) Diisopropyl ether	5.93	45	859255	52.366	ug/l	99
23) Vinyl Acetate	5.87	43	3284585	265.478	ug/l	99
24) 1,1-Dichloroethane	5.82	63	477651	51.724	ug/l	99
25) 2-Butanone	6.81	43	786236	258.813	ug/l	99
26) 2,2-Dichloropropane	6.80	77	297357	39.167	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	276697	50.811	ug/l	97
28) Bromochloromethane	7.18	49	193566	52.437	ug/l	100
29) Tetrahydrofuran	7.19	42	522310	270.894	ug/l	99
30) Chloroform	7.36	83	478400	51.123	ug/l	100
31) Cyclohexane	7.64	56	402360	44.792	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	412224	53.643	ug/l	98
36) 1,1-Dichloropropene	7.78	75	347817	48.447	ug/l	100
37) Ethyl Acetate	6.91	43	318051	52.252	ug/l	99
38) Carbon Tetrachloride	7.76	117	350796	54.132	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	375259	44.759	ug/l	99
40) Benzene	8.03	78	1035875	50.195	ug/l	100
41) Methacrylonitrile	7.15	41	165058	58.944	ug/l	93
42) 1,2-Dichloroethane	8.11	62	399317	49.735	ug/l	100
43) Isopropyl Acetate	8.15	43	567801	49.606	ug/l #	89
44) Trichloroethene	8.82	130	292260	57.355	ug/l	96
45) 1,2-Dichloropropane	9.11	63	286541	51.772	ug/l	99
46) Dibromomethane	9.20	93	178522	50.933	ug/l	99
47) Bromodichloromethane	9.39	83	377049	56.777	ug/l	99
48) Methyl methacrylate	9.19	41	278091	53.356	ug/l	95
49) 1,4-Dioxane	9.19	88	94513	1356.175	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	1705805	290.128	ug/l	100
52) Toluene	10.15	92	640481	49.308	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	402877	55.737	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	427985	53.341	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	257318	54.405	ug/l	98
56) Ethyl methacrylate	10.43	69	397327	55.362	ug/l	96
57) 1,3-Dichloropropane	10.71	76	447972	53.100	ug/l	99
59) 2-Hexanone	10.75	43	1232218	287.823	ug/l	100
60) Dibromochloromethane	10.90	129	278672	56.975	ug/l	99
61) 1,2-Dibromoethane	11.00	107	257615	53.306	ug/l	99
64) Tetrachloroethene	10.63	164	2394868	551.177	ug/l	97
65) Chlorobenzene	11.44	112	687170	50.549	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	260180	56.805	ug/l	100
67) Ethyl Benzene	11.51	91	1262406	51.269	ug/l	100
68) m/p-Xylenes	11.62	106	922257	99.550	ug/l	99
69) o-Xylene	11.95	106	449725	50.428	ug/l	99
70) Stvrene	11.97	104	750785	51.821	ug/l	99
71) Bromoform	12.13	173	184564	58.194	ug/l #	100
73) Isopropylbenzene	12.25	105	1220508	50.355	ug/l	99
74) N-amyl acetate	12.07	43	493345	51.163	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	376401	52.517	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	474014	79.128	ug/l #	100
77) Bromobenzene	12.53	156	291692	51.325	ug/l	98
78) n-propylbenzene	12.60	91	1412040	51.710	ug/l	99
79) 2-Chlorotoluene	12.68	91	845890	50.187	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	1036209	51.071	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	107000	54.248	ug/l	94
82) 4-Chlorotoluene	12.78	91	877813	51.040	ug/l	99
83) tert-Butylbenzene	13.00	119	877767	51.269	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	1046563	51.483	ug/l	99
85) sec-Butylbenzene	13.18	105	1159393	51.450	ug/l	99
86) p-Isopropyltoluene	13.30	119	1034832	52.170	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	523009	50.751	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	516430	50.368	ug/l	99
89) n-Butylbenzene	13.62	91	905983	50.422	ug/l	100
90) Hexachloroethane	13.88	117	181439	60.880	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	518951	52.410	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	74777	59.164	ug/l	99
93) 1,2,4-Trichlorobenzene	14.92	180	300126	54.852	ug/l	99

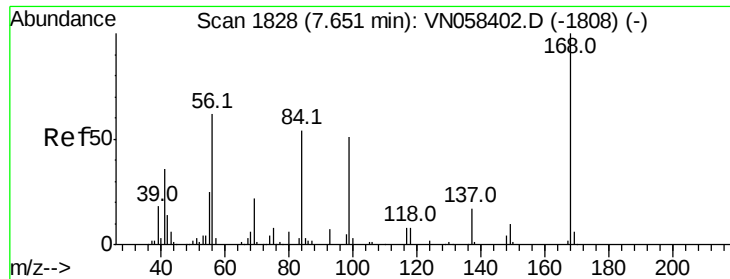
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.02	225	140129	49.827	ug/l	98
95) Naphthalene	15.13	128	869182	54.246	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	287928	52.489	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

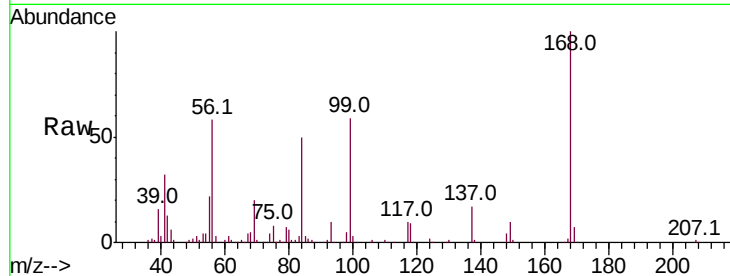
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 444161

Ion Ratio Lower Upper

168 100

99 58.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

100000

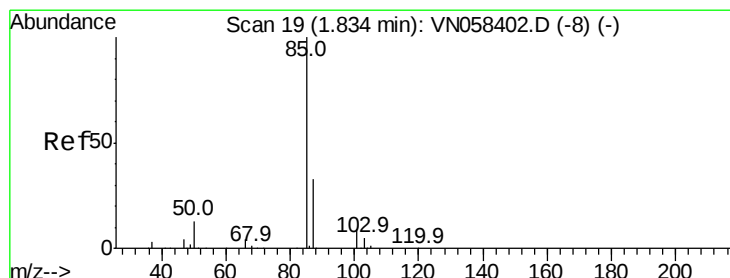
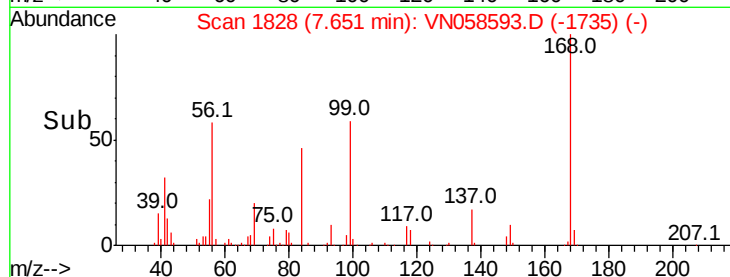
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 44.077 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058593.D

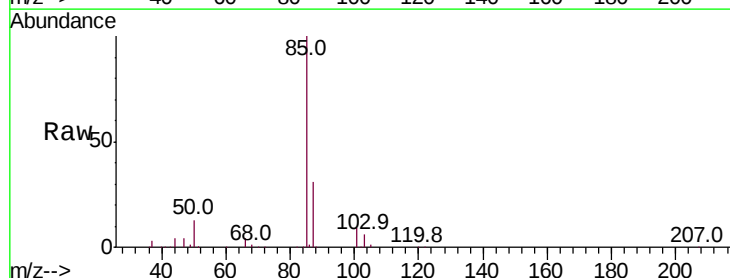
Acq: 8 Oct 2019 1:14

Tgt Ion: 85 Resp: 214663

Ion Ratio Lower Upper

85 100

87 31.5 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

150000

100000

50000

0

1.75

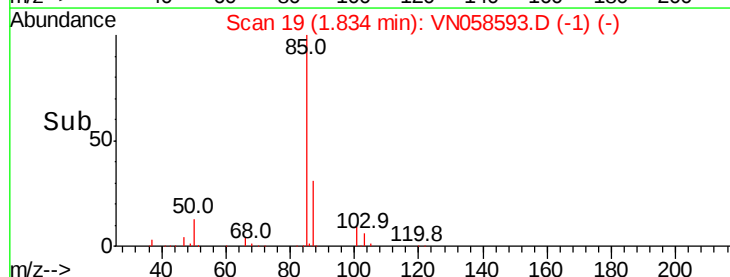
1.80

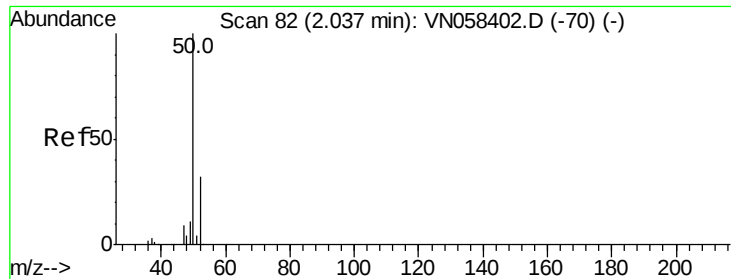
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 56.161 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

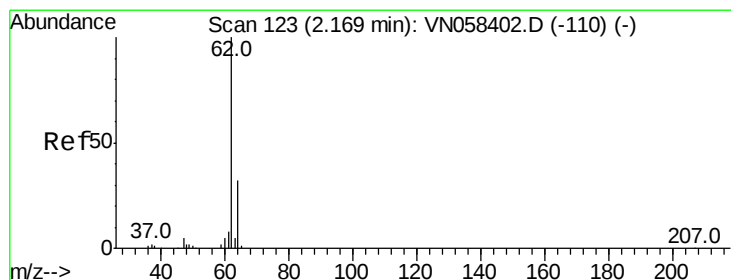
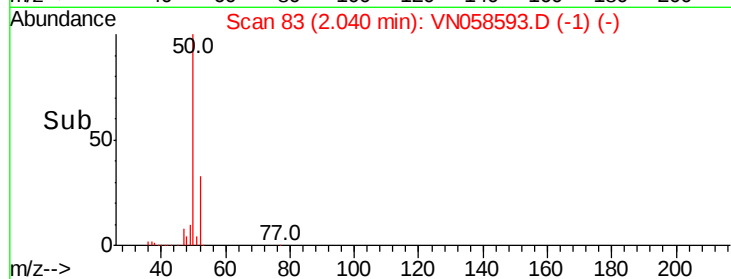
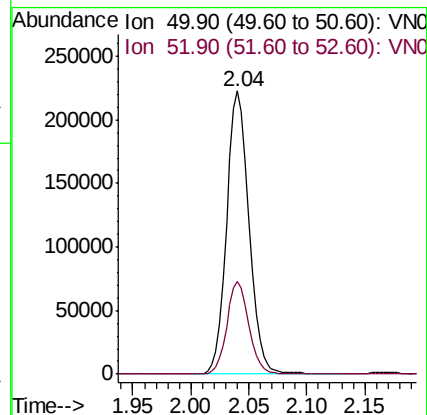
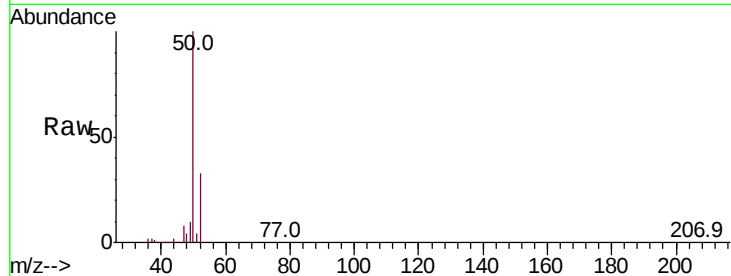
ClientSampleId :

Tot Ion: 50 Resp: 300700

Ion Ratio Lower Upper

50 100

52 32.7 25.9 38.9



#4

Vinyl Chloride

Concen: 55.257 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058593.D

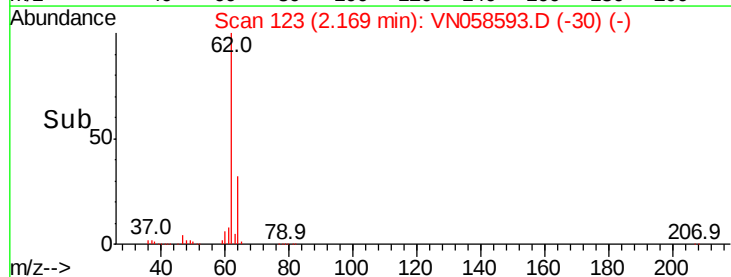
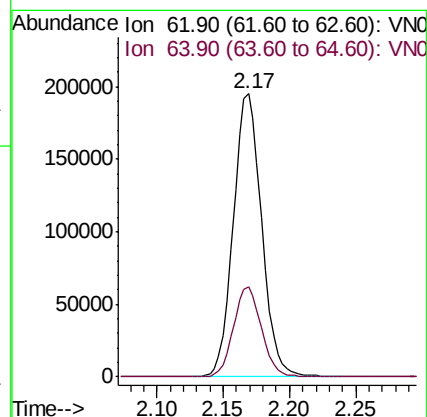
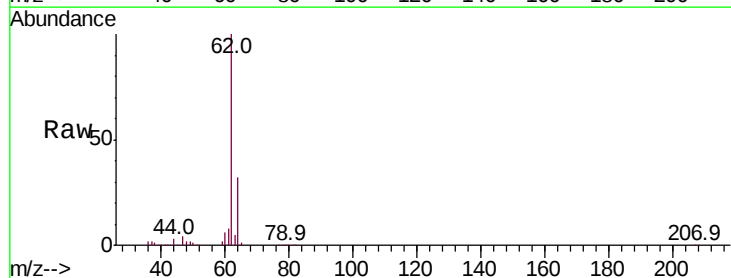
Acq: 8 Oct 2019 1:14

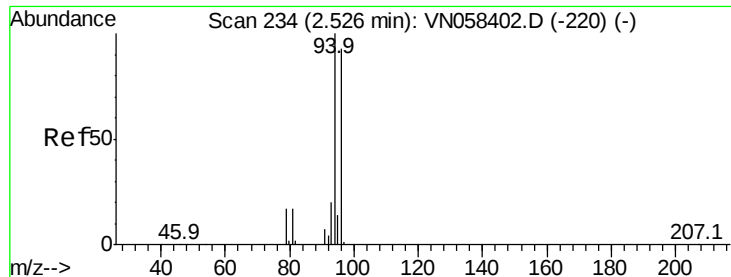
Tgt Ion: 62 Resp: 289824

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3





#5

Bromomethane

Concen: 50.497 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

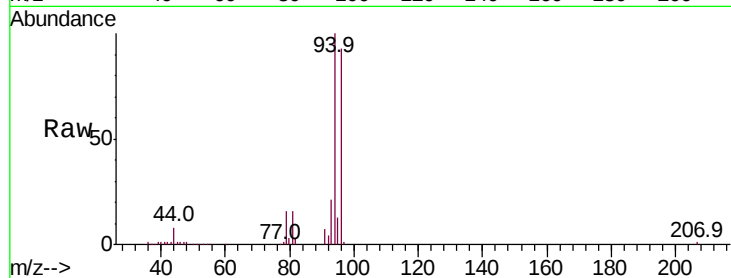
ClientSampleId :

Tot Ion: 94 Resp: 140683

Ion Ratio Lower Upper

94 100

96 93.2 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VN058402.D (-220) (-)

Ion 95.90 (95.60 to 96.60): VN058402.D (-220) (-)

2.54

80000

60000

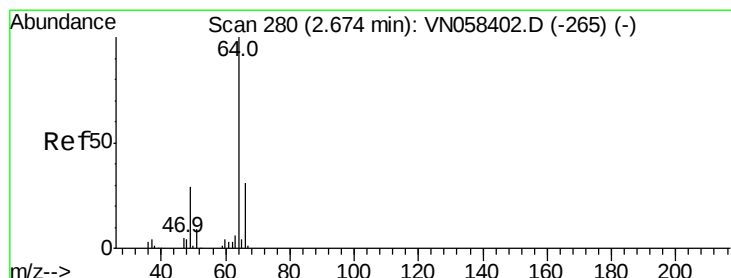
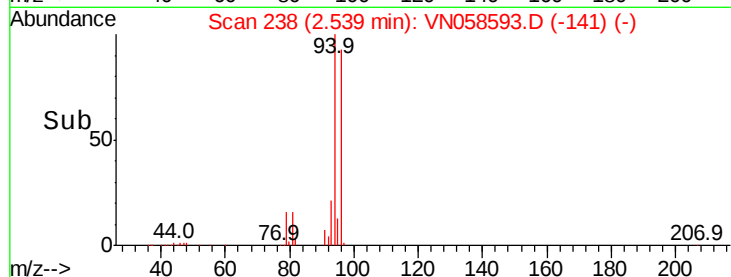
40000

20000

0

Time-->

2.45 2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 56.357 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.01 min

Lab File: VN058593.D

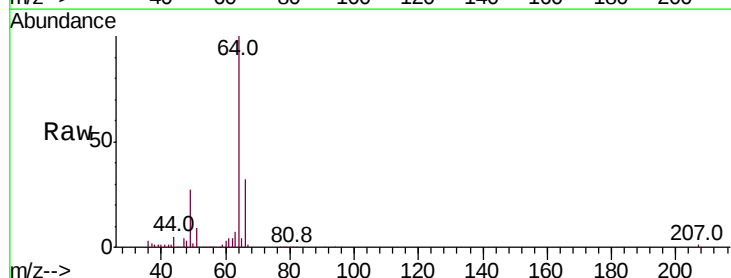
Acq: 8 Oct 2019 1:14

Tgt Ion: 64 Resp: 177115

Ion Ratio Lower Upper

64 100

66 31.8 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VN058402.D (-265) (-)

Ion 65.90 (65.60 to 66.60): VN058402.D (-265) (-)

2.68

100000

80000

60000

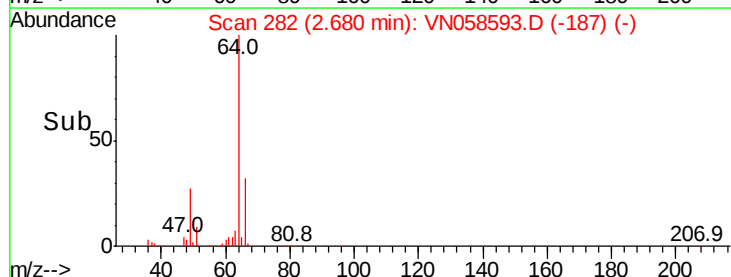
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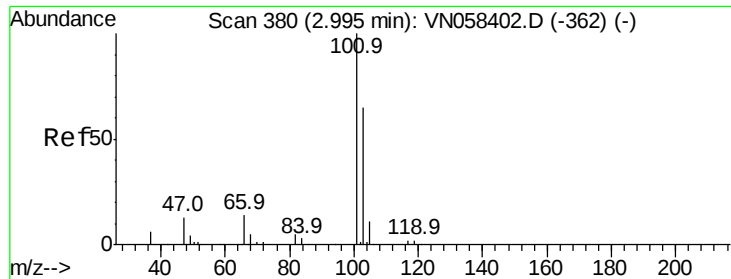
20000

0

Time-->

2.60 2.70 2.80



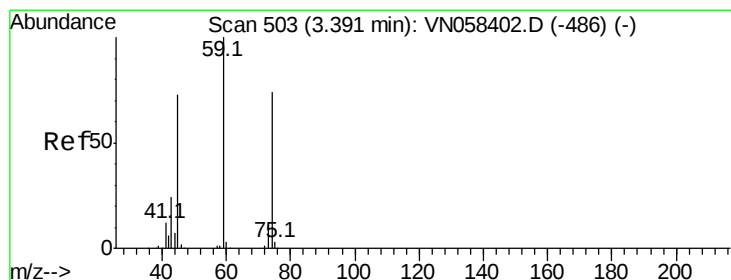
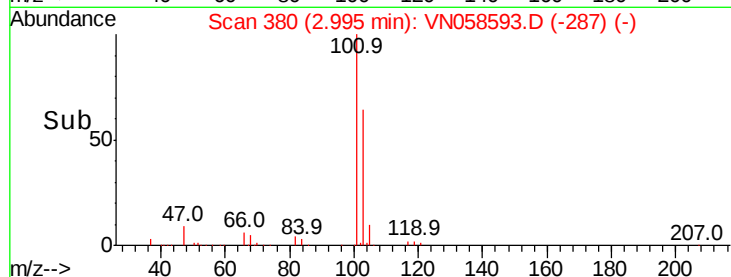
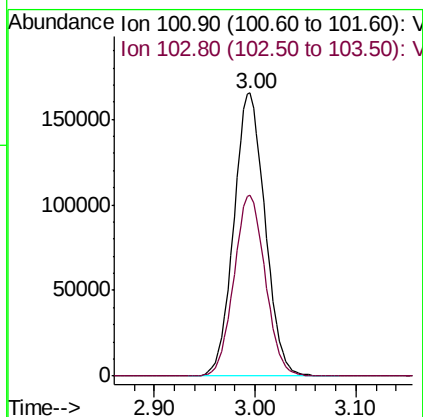
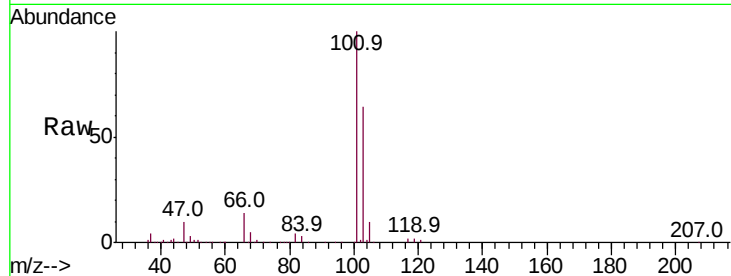


#7

Trichlorofluoromethane
Concen: 56.108 ug/l
RT: 3.00 min Scan# 380
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Instrument :
MSVOA_N
ClientSampled :

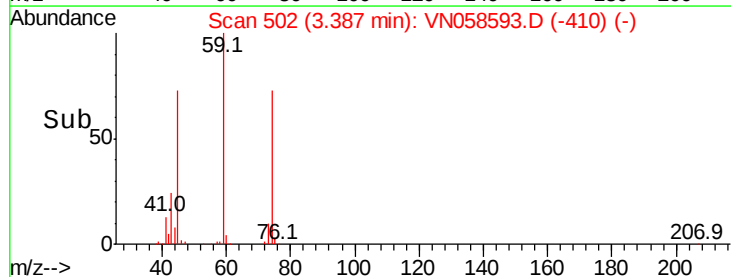
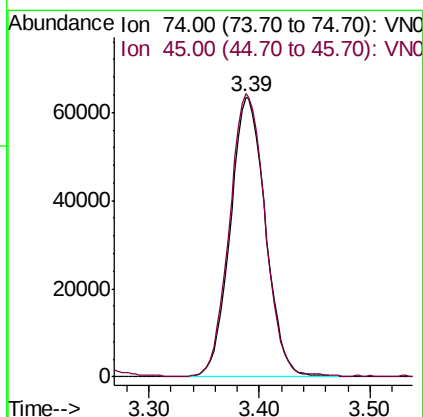
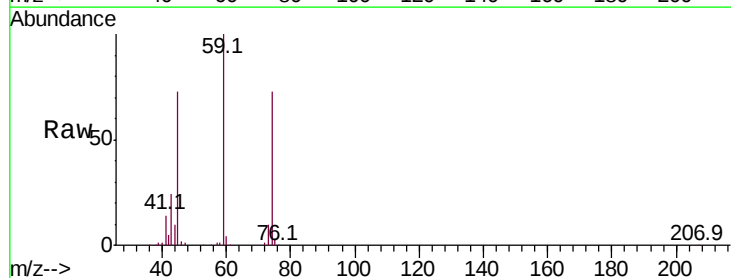
Tot Ion:101 Resp: 355138
Ion Ratio Lower Upper
101 100
103 64.0 52.3 78.5

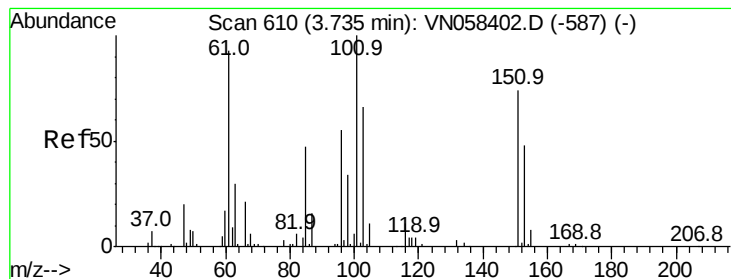


#8

Diethyl Ether
Concen: 51.298 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion: 74 Resp: 140094
Ion Ratio Lower Upper
74 100
45 102.3 50.5 151.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.582 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

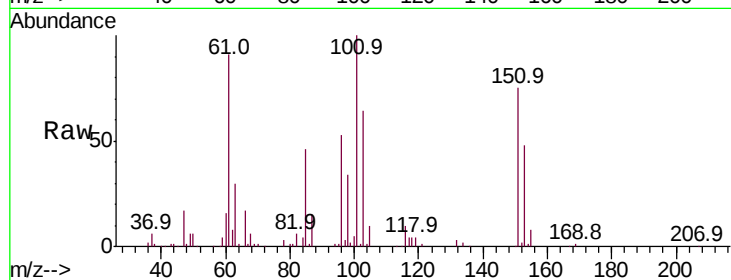
Tot Ion:101 Resp: 204537

Ion Ratio Lower Upper

101 100

85 45.6 36.7 55.1

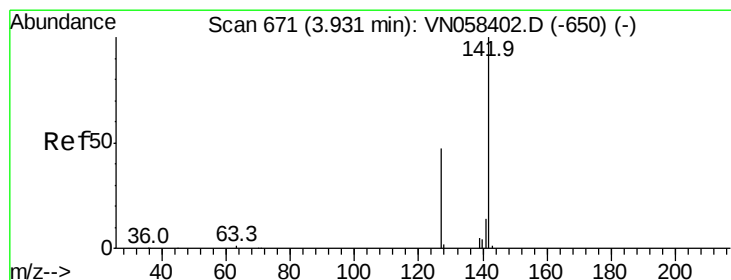
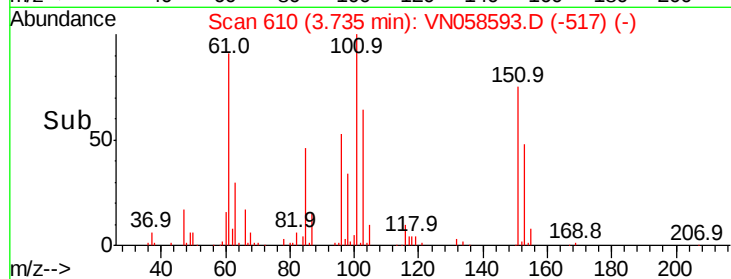
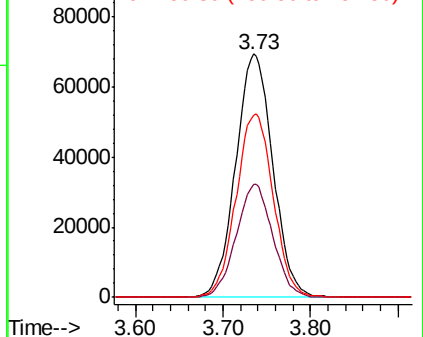
151 75.2 59.4 89.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 45.418 ug/l

RT: 3.93 min Scan# 670

Delta R.T. -0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

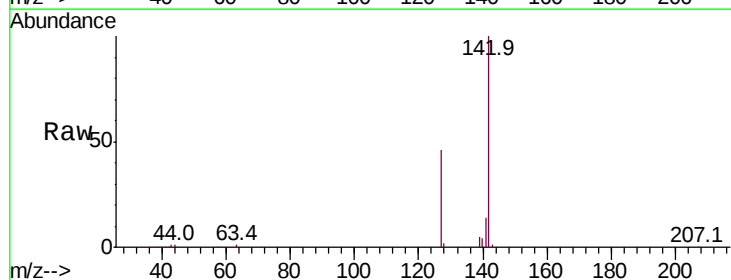
Tgt Ion:142 Resp: 216479

Ion Ratio Lower Upper

142 100

127 46.0 37.2 55.8

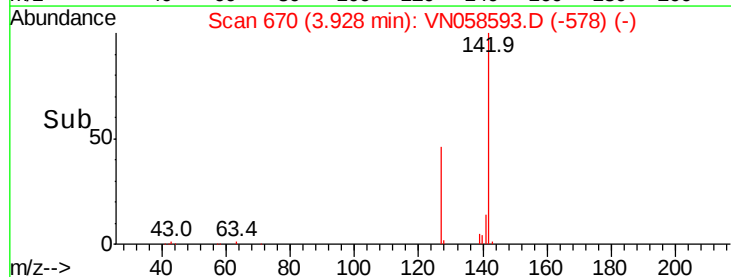
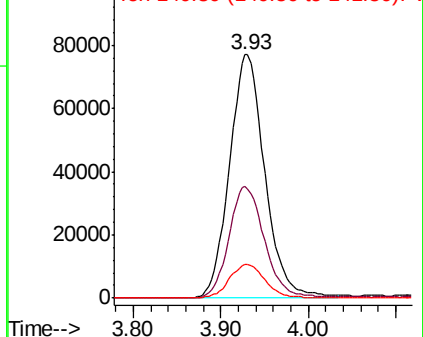
141 13.9 11.3 16.9

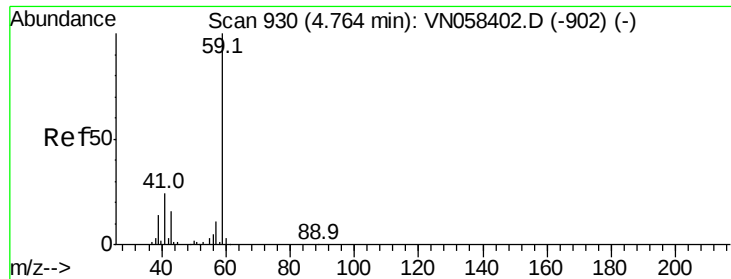


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



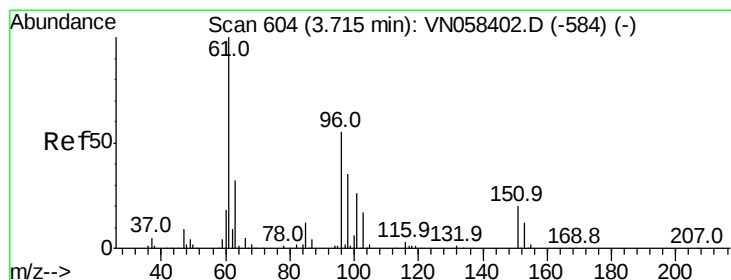
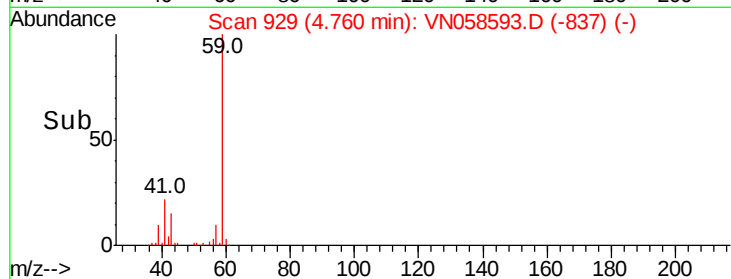
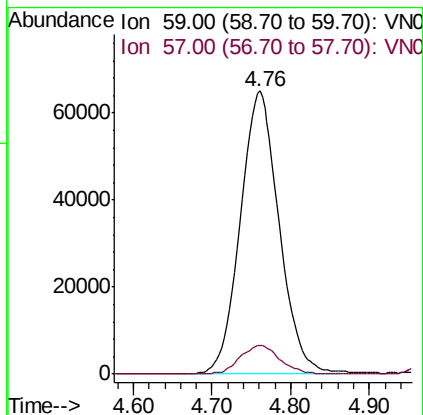
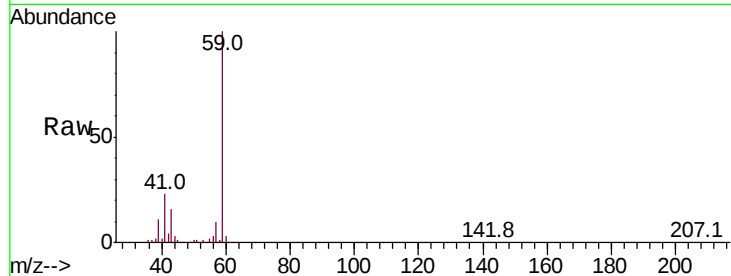


#11

Tert butyl alcohol
 Concen: 312.914 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. -0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

Instrument :
 MSVOA_N
 ClientSampleId :

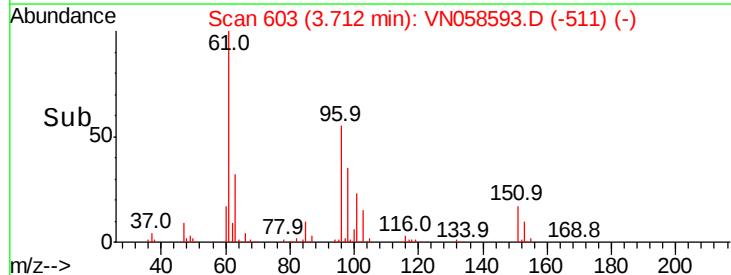
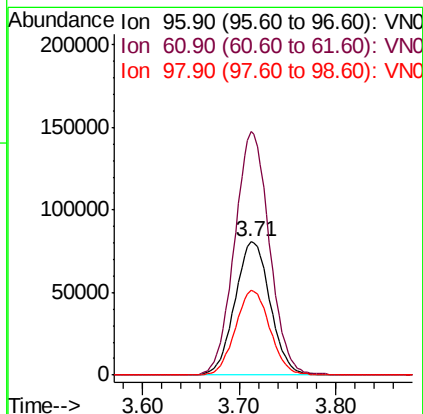
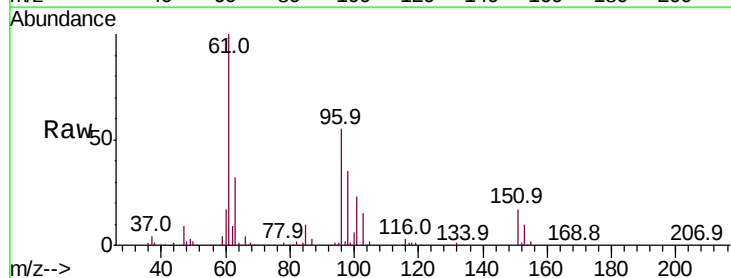
Tot Ion: 59 Resp: 225631
 Ion Ratio Lower Upper
 59 100
 57 10.5 9.0 13.4

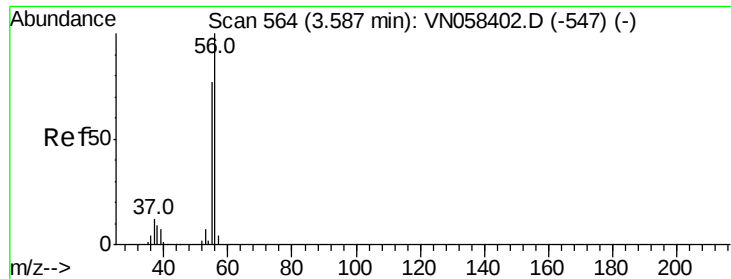


#12

1,1-Dichloroethene
 Concen: 48.936 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. -0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

Tgt Ion: 96 Resp: 205043
 Ion Ratio Lower Upper
 96 100
 61 182.6 146.7 220.1
 98 63.2 51.3 76.9





#13

Acrolein

Concen: 310.293 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

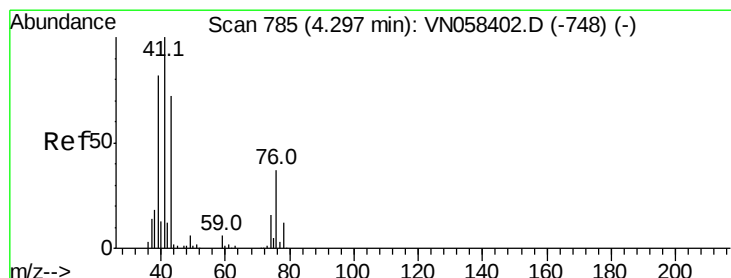
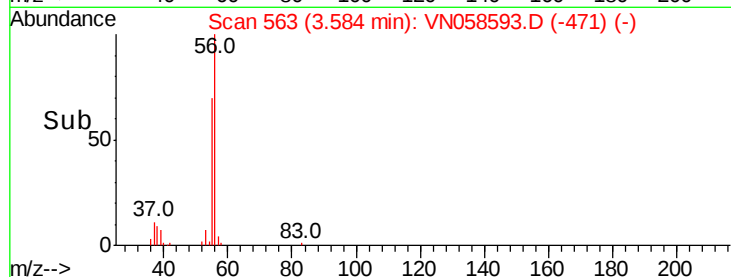
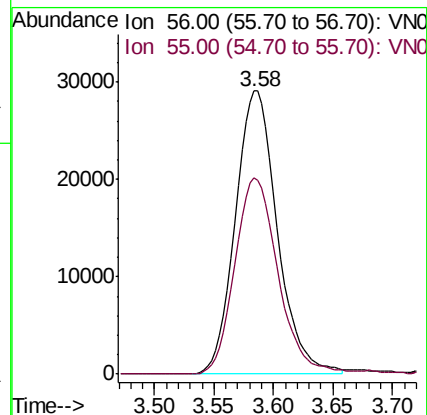
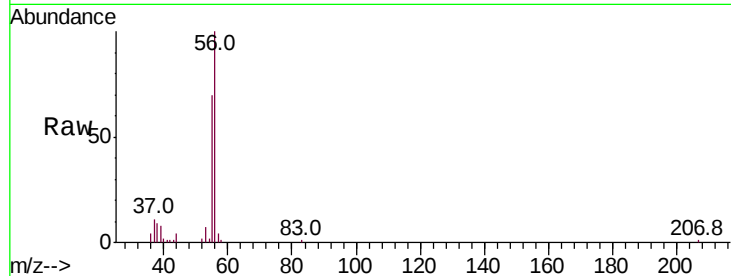
ClientSampleId :

Tot Ion: 56 Resp: 71163

Ion Ratio Lower Upper

56 100

55 71.5 58.3 87.5



#14

Allyl chloride

Concen: 51.636 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

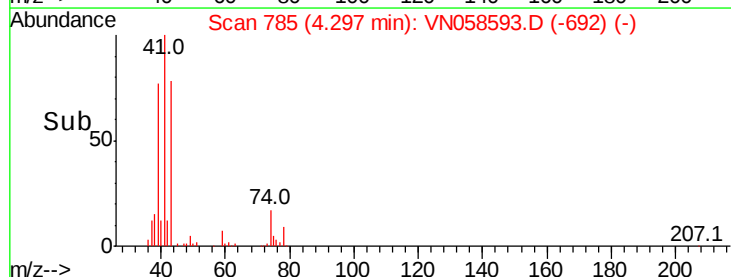
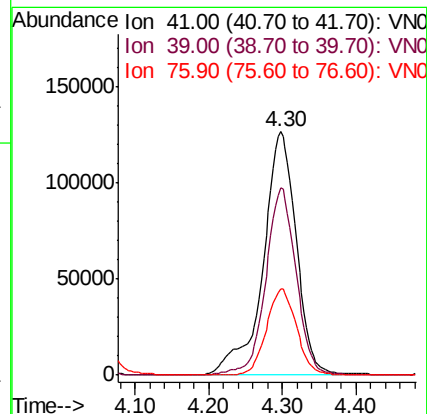
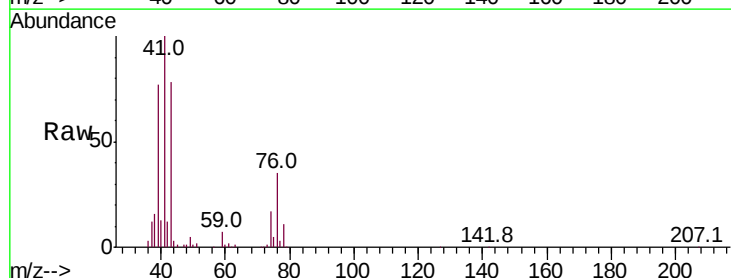
Tgt Ion: 41 Resp: 393726

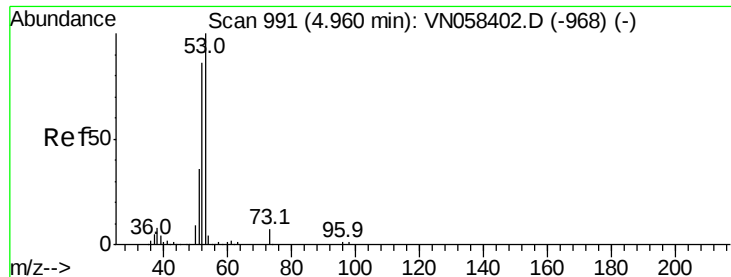
Ion Ratio Lower Upper

41 100

39 70.8 62.3 93.5

76 31.8 26.9 40.3





#15

Acrylonitrile

Concen: 285.952 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampled :

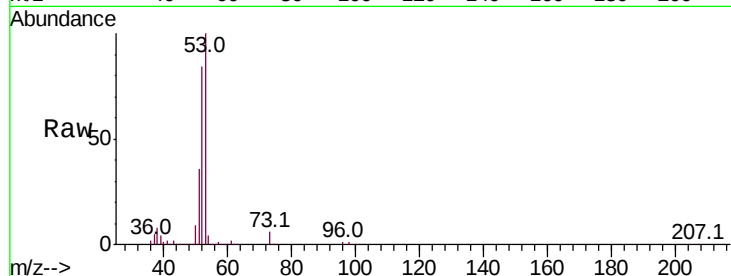
Tot Ion: 53 Resp: 600927

Ion Ratio Lower Upper

53 100

52 82.2 66.6 100.0

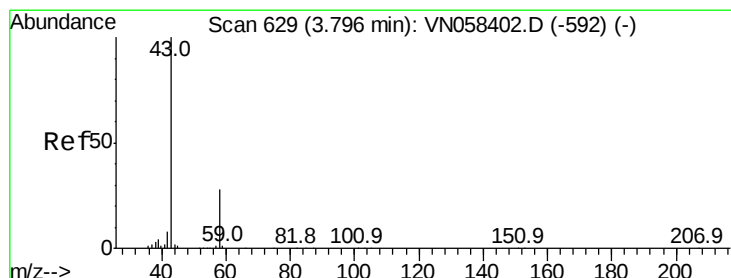
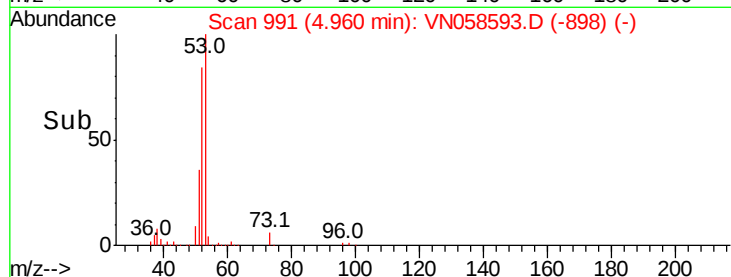
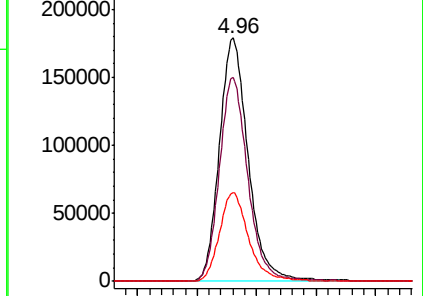
51 37.0 29.8 44.8



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 238.127 ug/l

RT: 3.79 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN058593.D

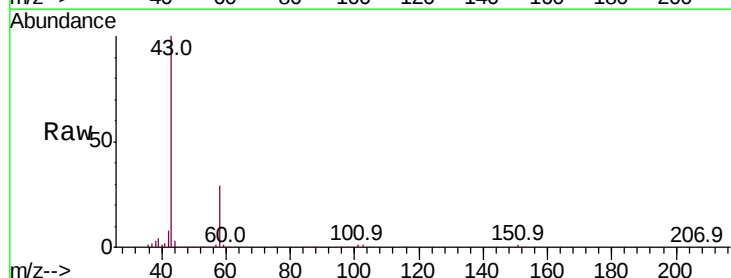
Acq: 8 Oct 2019 1:14

Tgt Ion: 43 Resp: 526883

Ion Ratio Lower Upper

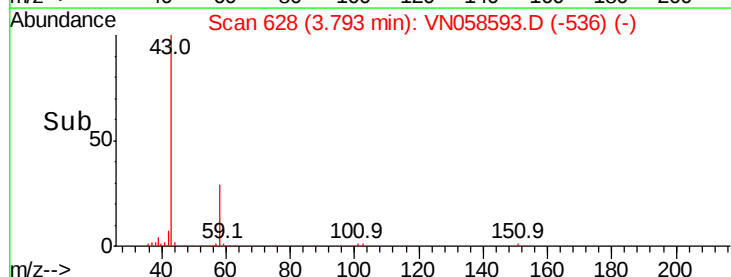
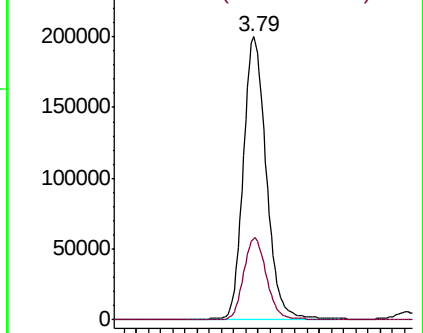
43 100

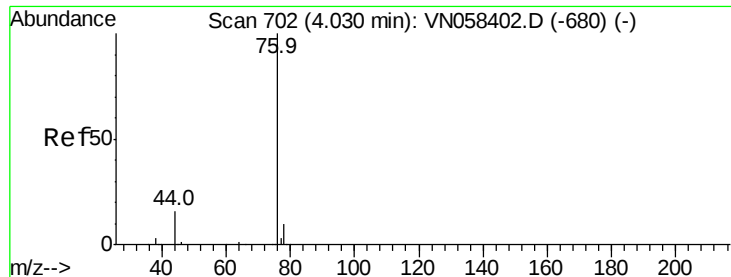
58 28.7 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

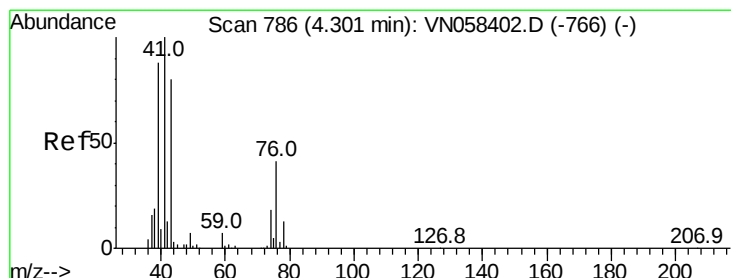
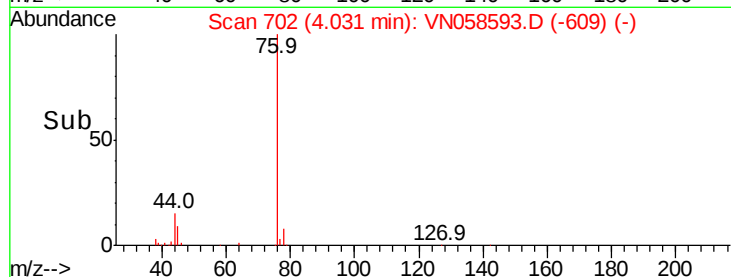
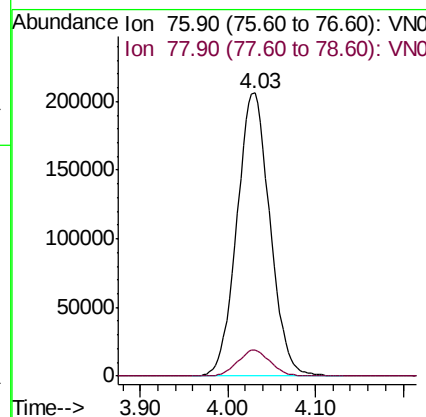
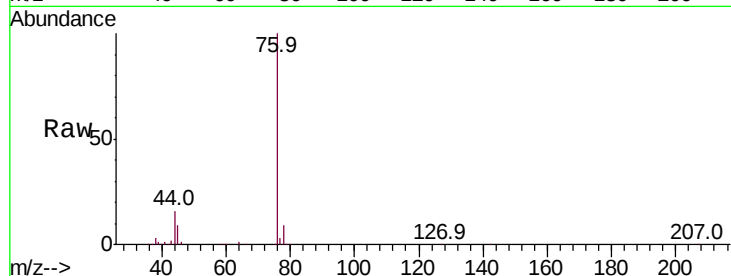




#17
Carbon Disulfide
Concen: 48.938 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

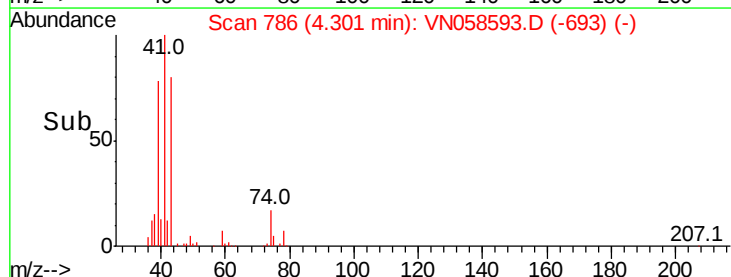
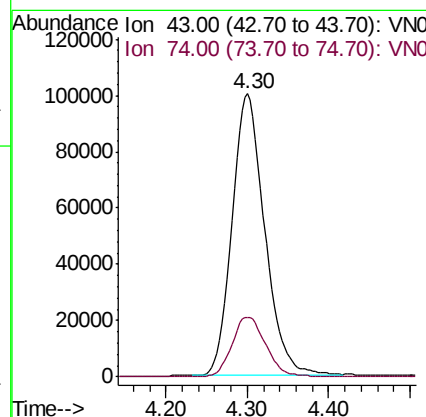
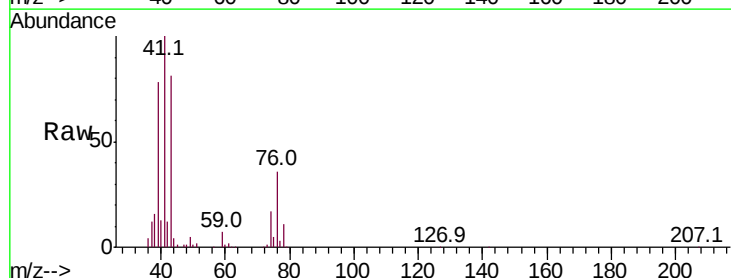
Instrument :
MSVOA_N
ClientSampleId :

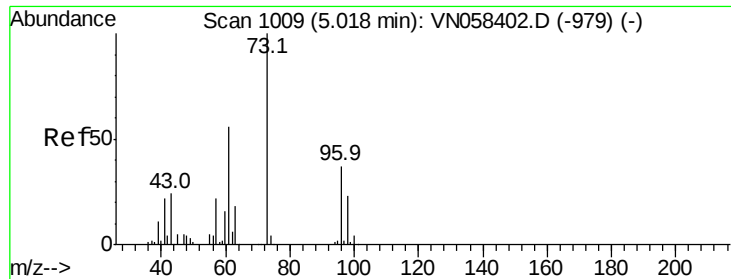
Tot Ion: 76 Resp: 540511
Ion Ratio Lower Upper
76 100
78 9.3 7.7 11.5



#18
Methyl Acetate
Concen: 50.418 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion: 43 Resp: 280574
Ion Ratio Lower Upper
43 100
74 22.0 18.0 27.0

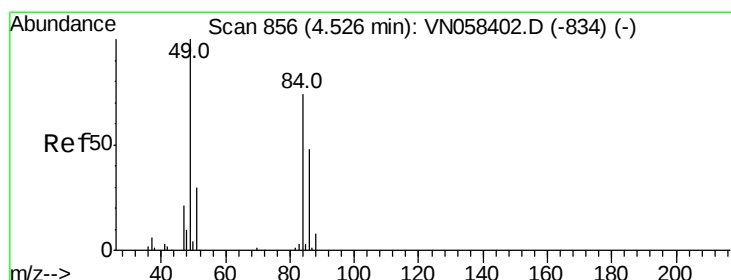
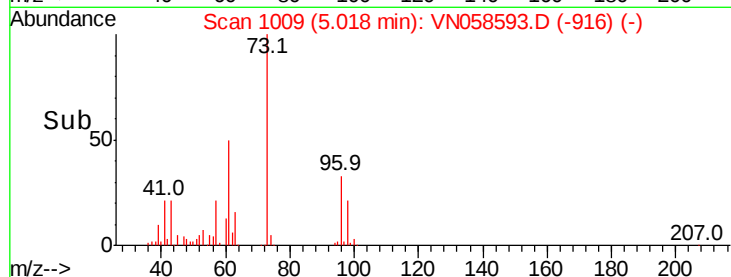
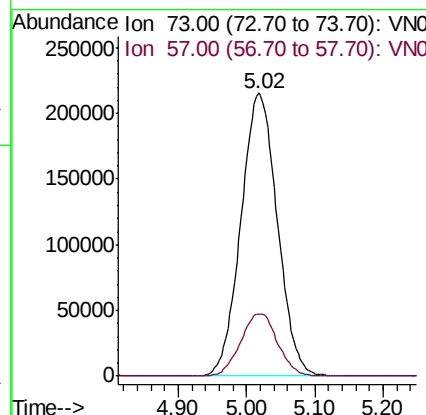
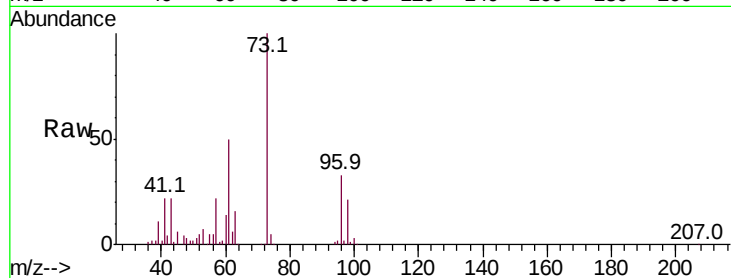




#19
Methvl tert-butvl Ether
Concen: 54.017 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

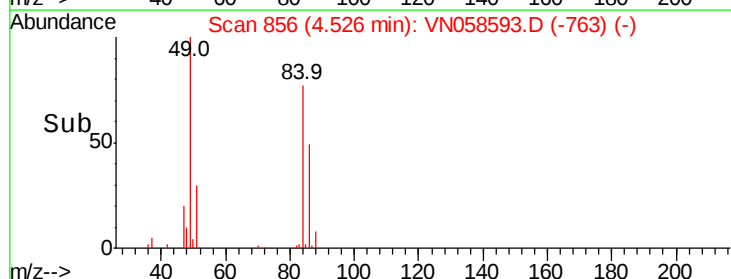
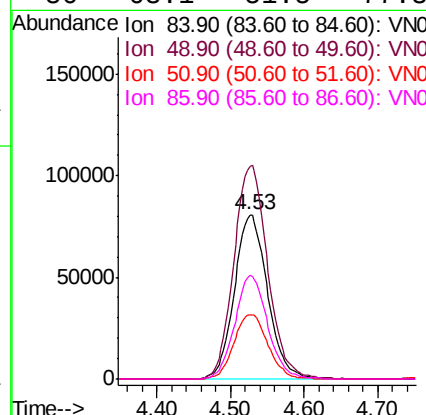
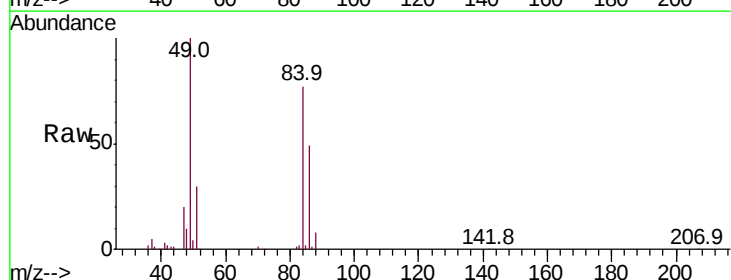
Instrument :
MSVOA_N
ClientSampleId :

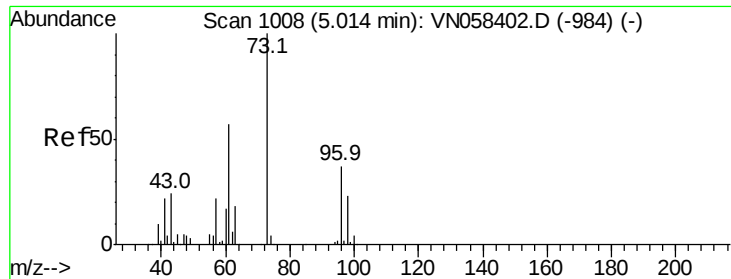
Tot Ion: 73 Resp: 798577
Ion Ratio Lower Upper
73 100
57 22.0 17.6 26.4



#20
Methylene Chloride
Concen: 49.441 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion: 84 Resp: 252451
Ion Ratio Lower Upper
84 100
49 129.8 107.9 161.9
51 39.3 32.8 49.2
86 63.1 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 48.445 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :
MSVOA_N
ClientSampled :

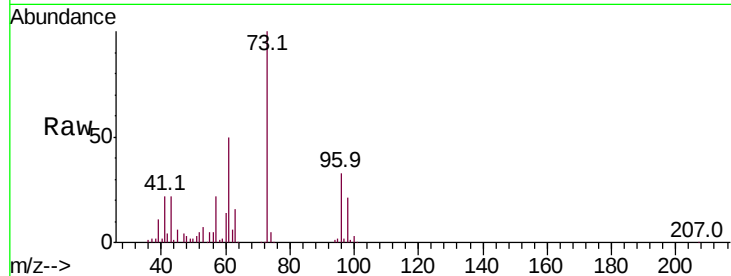
Tot Ion: 96 Resp: 225720

Ion Ratio Lower Upper

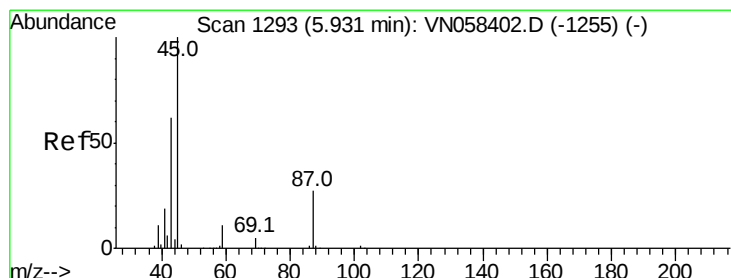
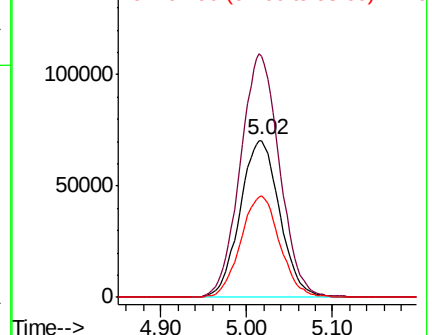
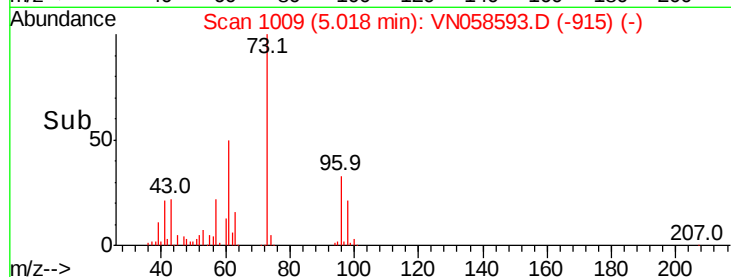
96 100

61 154.3 121.9 182.9

98 64.9 49.3 73.9



Abundance Ion 95.90 (95.60 to 96.60): VNC
150000 Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 52.366 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Tgt Ion: 45 Resp: 859255

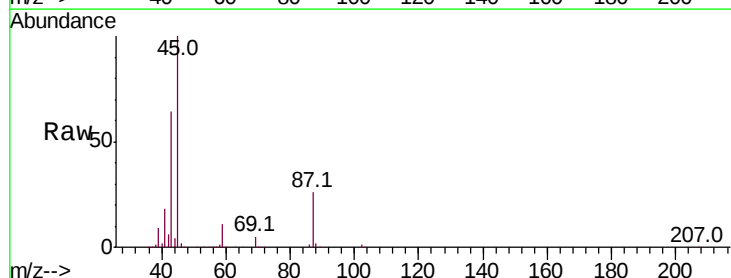
Ion Ratio Lower Upper

45 100

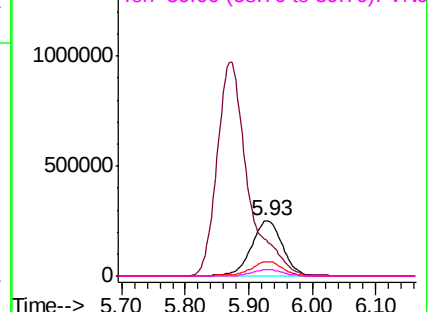
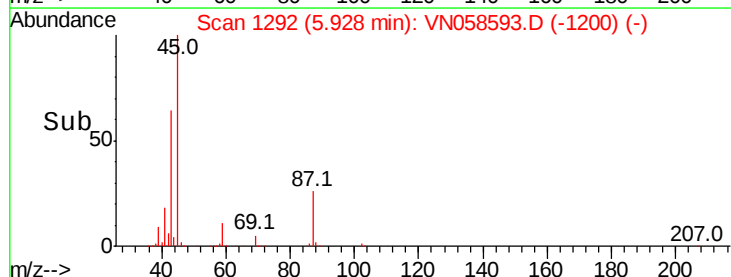
43 62.9 49.7 74.5

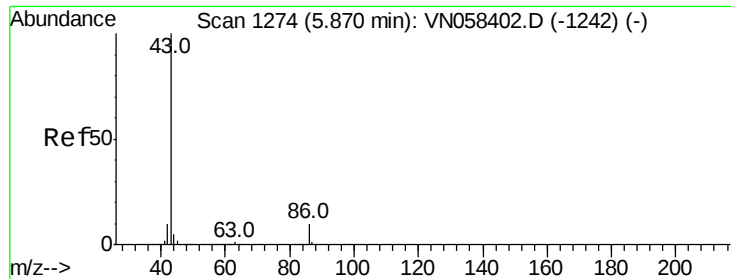
87 26.2 21.5 32.3

59 11.3 8.9 13.3



Abundance Ion 45.00 (44.70 to 45.70): VNC
1500000 Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 265.478 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

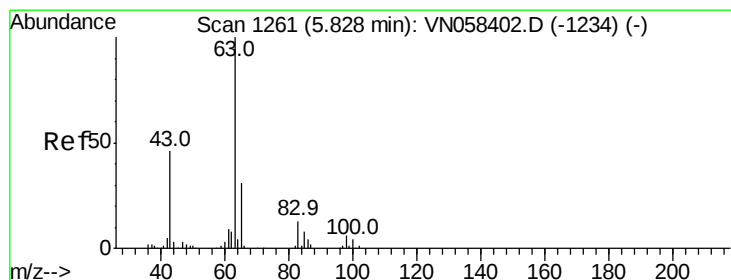
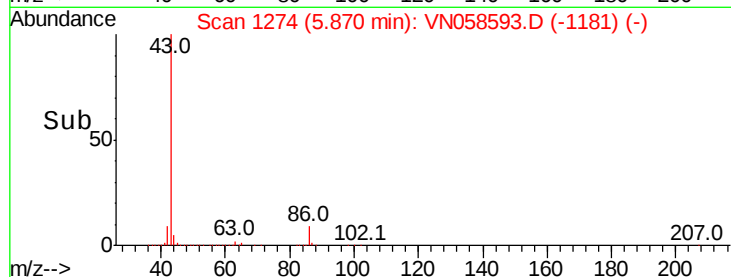
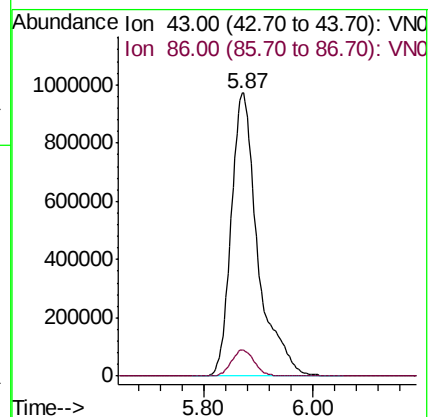
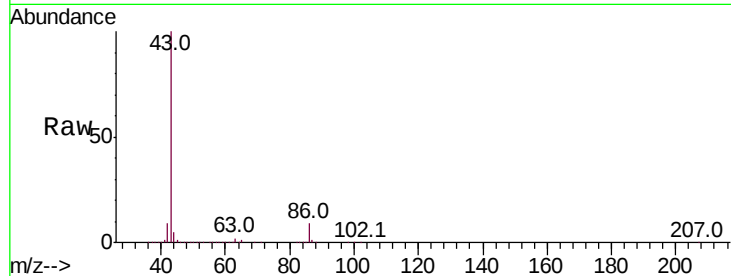
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3284585

Ion Ratio Lower Upper

43 100

86 9.4 7.7 11.5



#24

1,1-Dichloroethane

Concen: 51.724 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

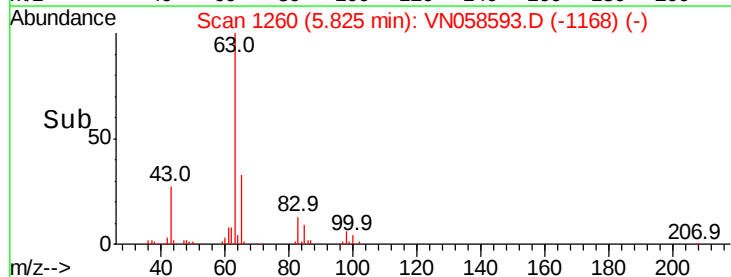
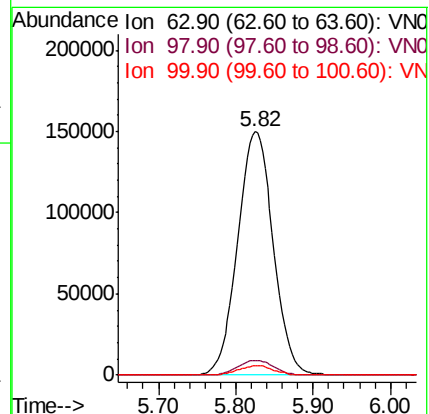
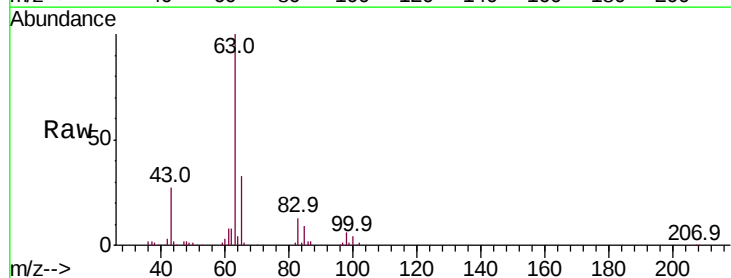
Tgt Ion: 63 Resp: 477651

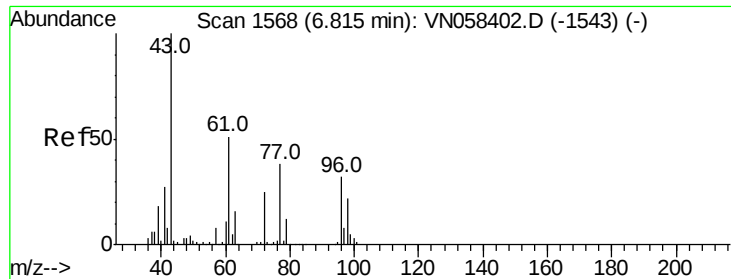
Ion Ratio Lower Upper

63 100

98 6.2 3.0 9.0

100 3.8 2.0 5.8





#25

2-Butanone

Concen: 258.813 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

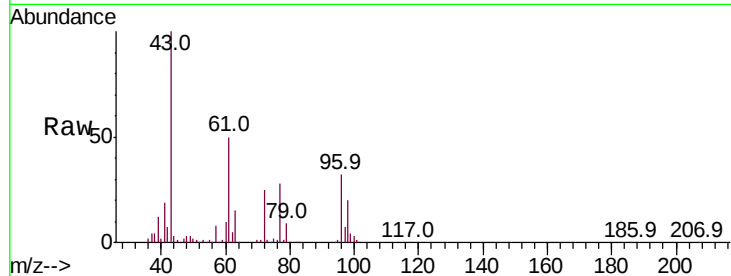
ClientSampled :

Tot Ion: 43 Resp: 786236

Ion Ratio Lower Upper

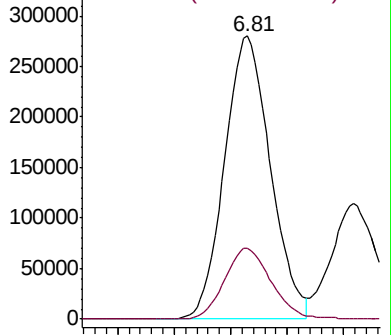
43 100

72 25.0 20.2 30.4

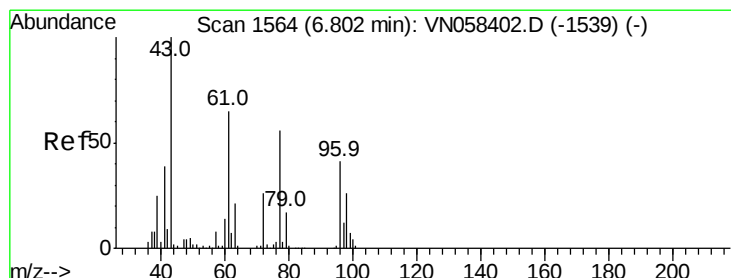
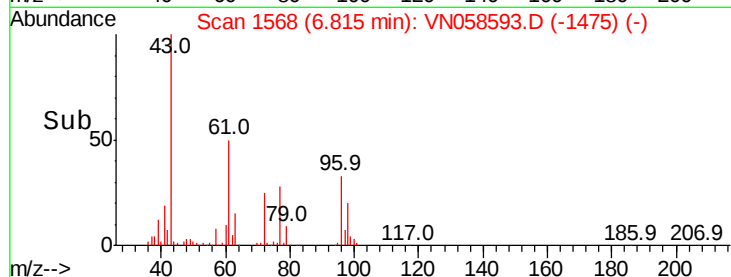


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->



#26

2,2-Dichloropropane

Concen: 39.167 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN058593.D

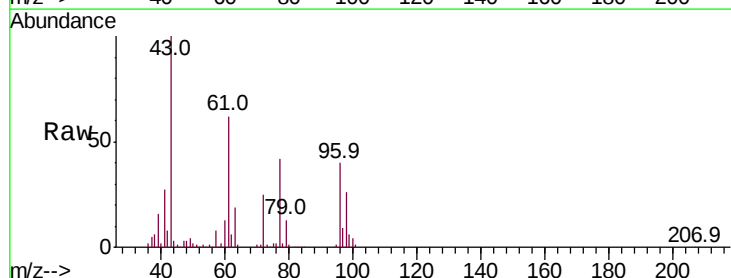
Acq: 8 Oct 2019 1:14

Tgt Ion: 77 Resp: 297357

Ion Ratio Lower Upper

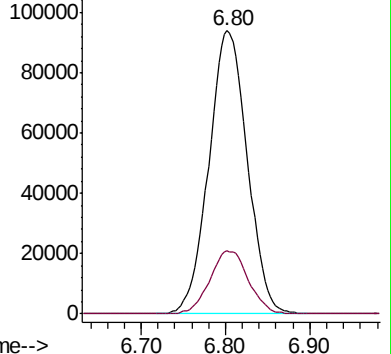
77 100

97 22.3 10.9 32.6

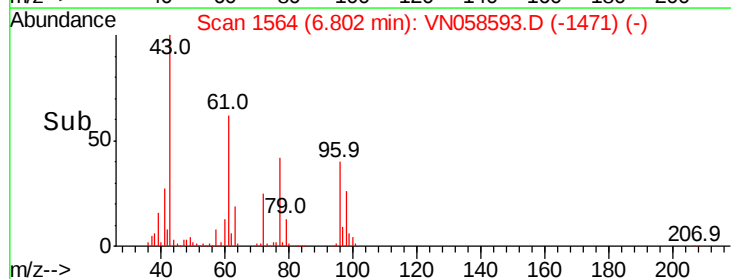


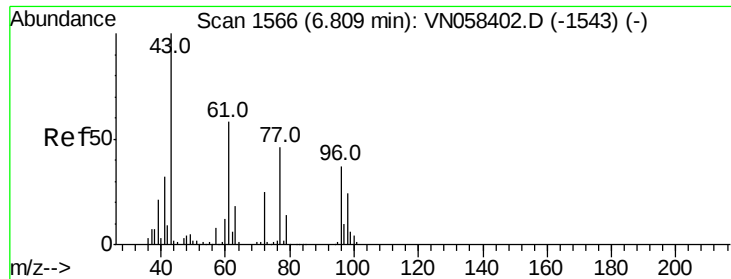
Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0



Time-->





#27

cis-1,2-Dichloroethene

Concen: 50.811 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :
MSVOA_N
ClientSampleId :

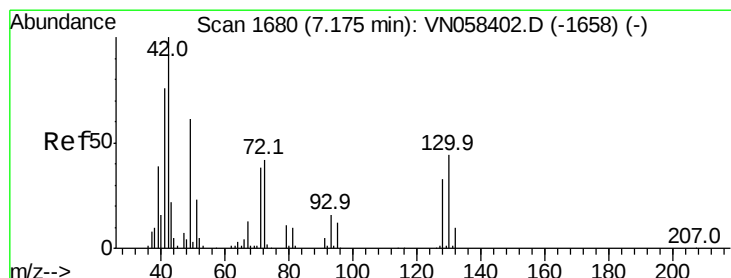
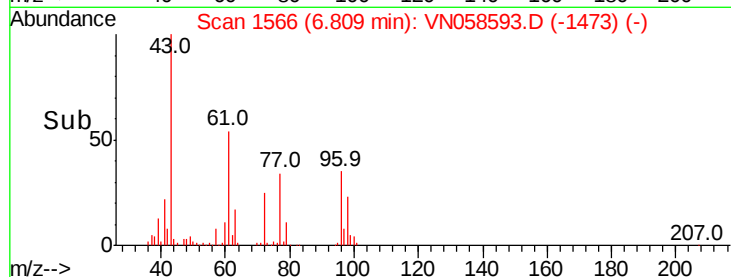
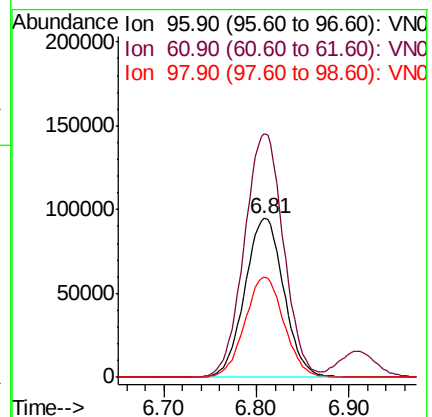
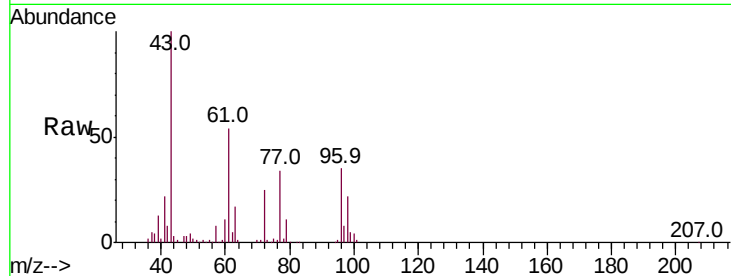
Tot Ion: 96 Resp: 276697

Ion Ratio Lower Upper

96 100

61 154.4 0.0 318.8

98 63.4 0.0 129.8



#28

Bromochloromethane

Concen: 52.437 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

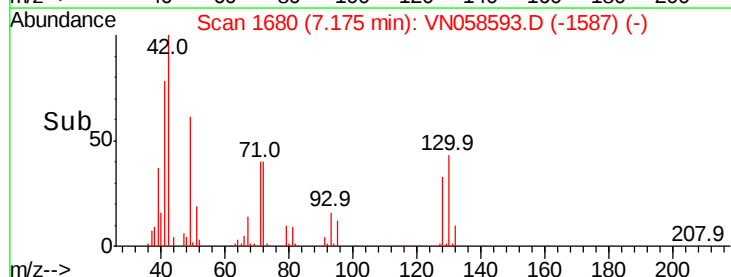
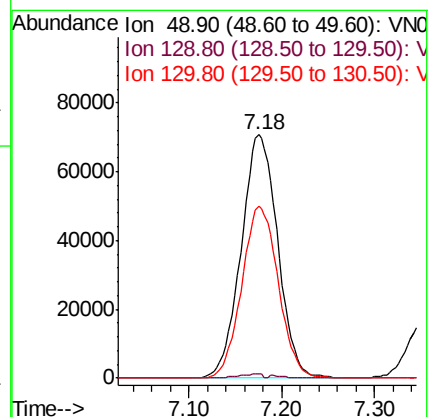
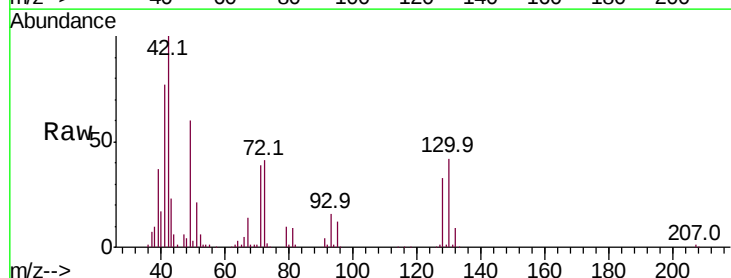
Tgt Ion: 49 Resp: 193566

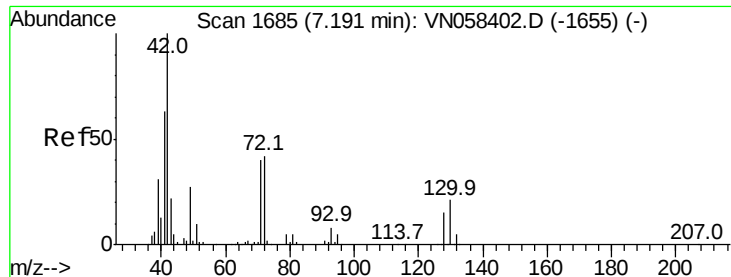
Ion Ratio Lower Upper

49 100

129 1.1 0.0 3.4

130 70.6 56.3 84.5

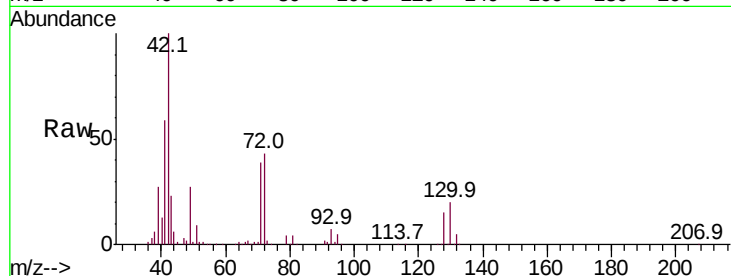




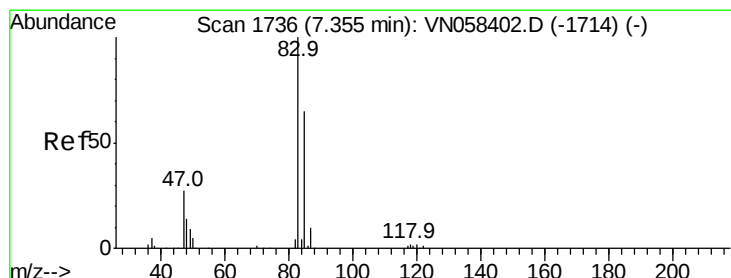
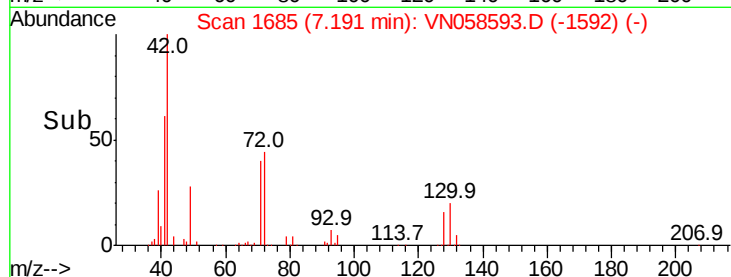
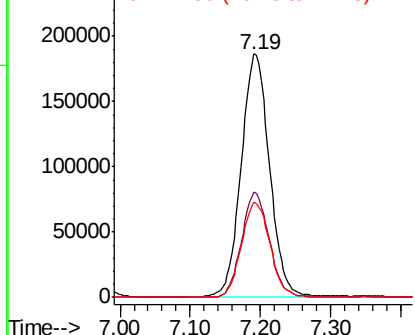
#29
Tetrahydrofuran
Concen: 270.894 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.7	50.5
71	39.0	31.8	47.6

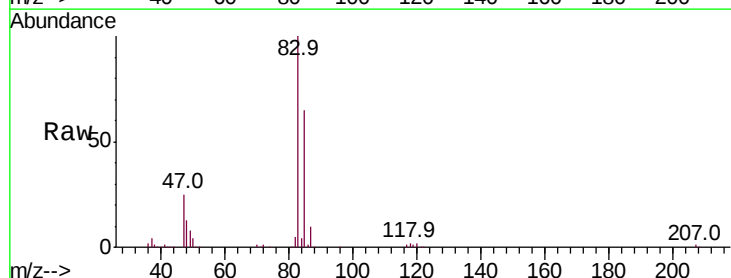


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

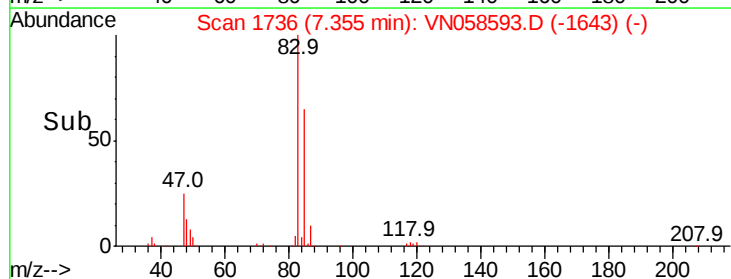
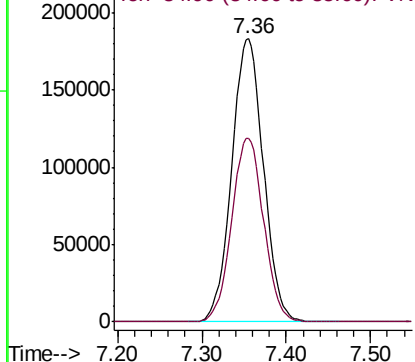


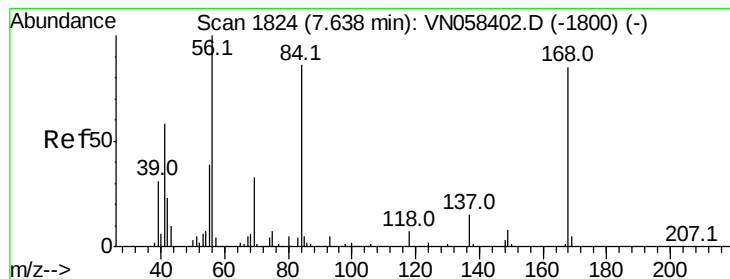
#30
Chloroform
Concen: 51.123 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.0	78.0



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 44.792 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :
MSVOA_N
ClientSampled :

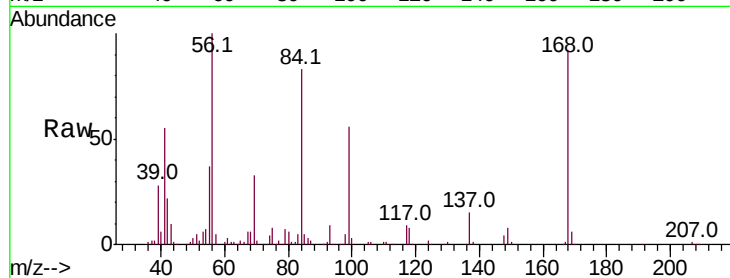
Tot Ion: 56 Resp: 402360

Ion Ratio Lower Upper

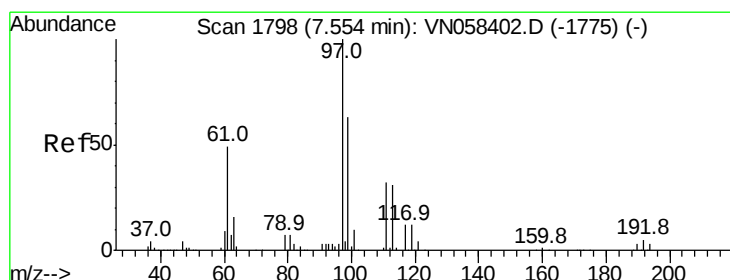
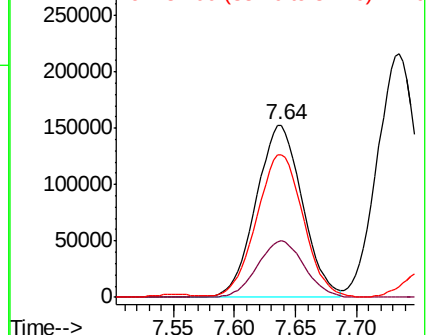
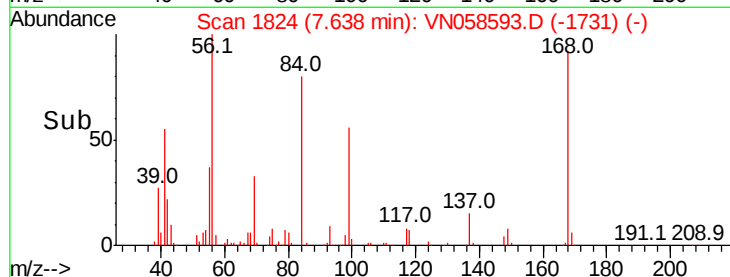
56 100

69 32.7 26.2 39.4

84 81.7 67.6 101.4



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



#32

1,1,1-Trichloroethane

Concen: 53.643 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

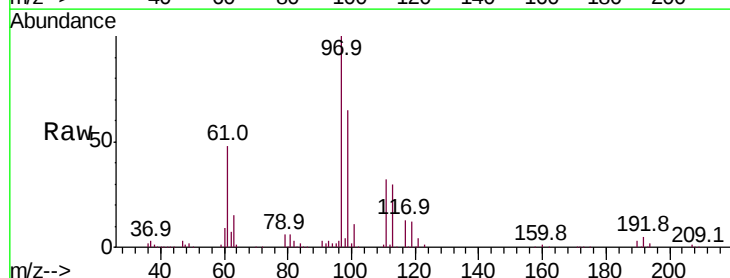
Tgt Ion: 97 Resp: 412224

Ion Ratio Lower Upper

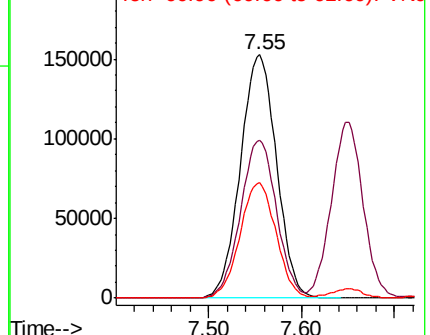
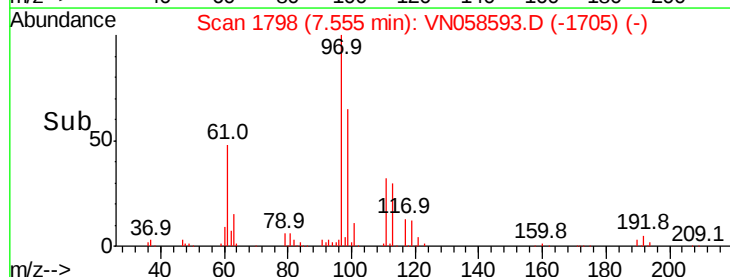
97 100

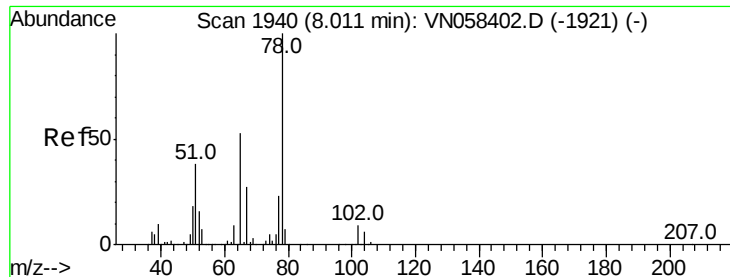
99 64.8 51.1 76.7

61 47.5 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





#33

1,2-Dichloroethane-d4

Concen: 47.973 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

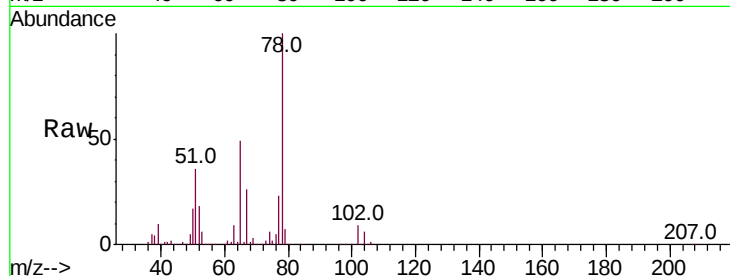
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 311379

Ion Ratio Lower Upper

65 100

67 52.0 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058402.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN058402.D (-1921) (-)

8.01

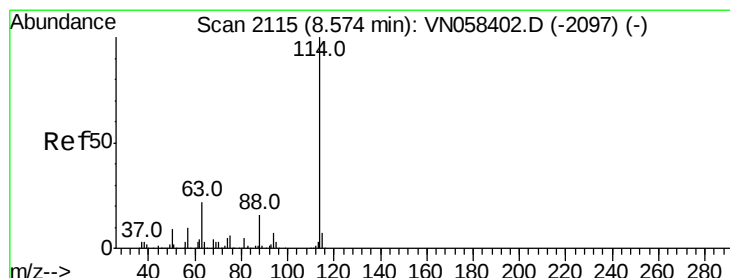
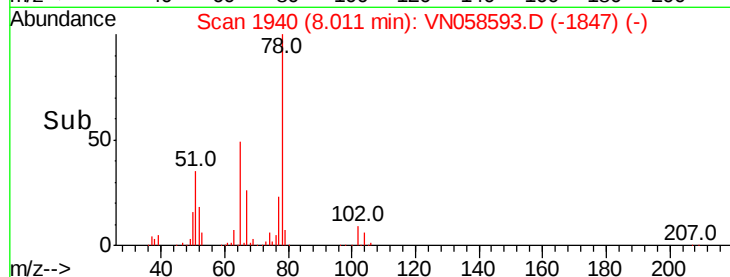
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

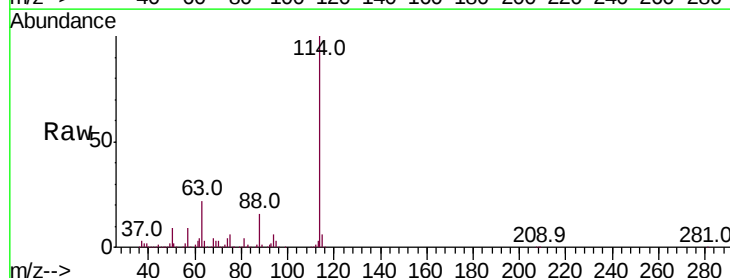
Tgt Ion: 114 Resp: 750825

Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.0

88 16.3 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN058402.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN058402.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN058402.D (-2097) (-)

8.57

500000

400000

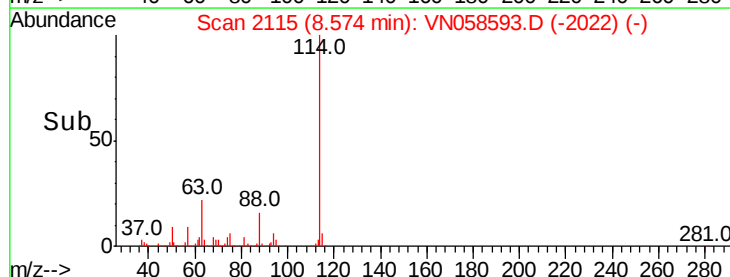
300000

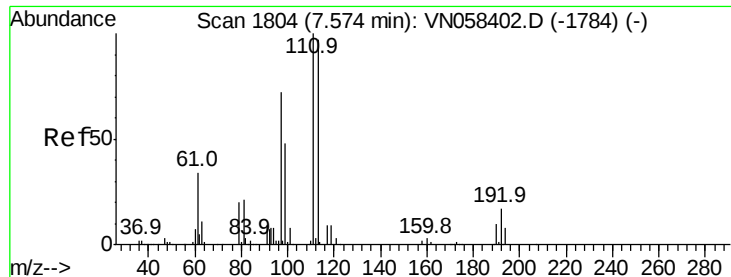
200000

100000

0

Time--> 8.50 8.60 8.70

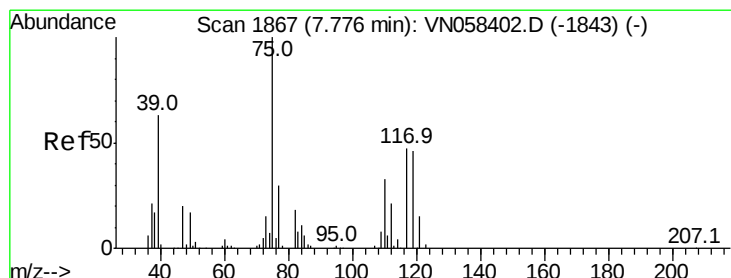
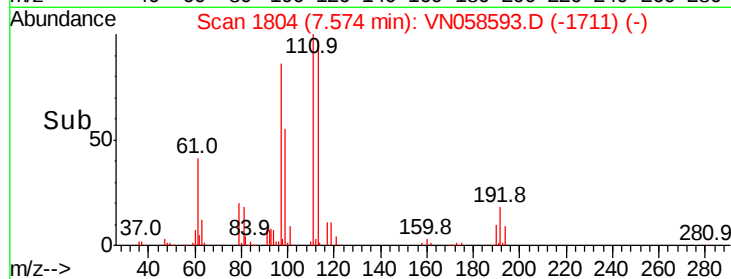
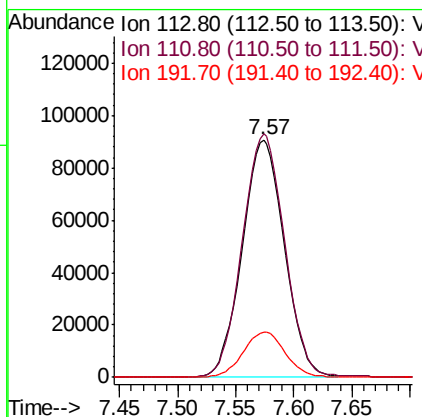
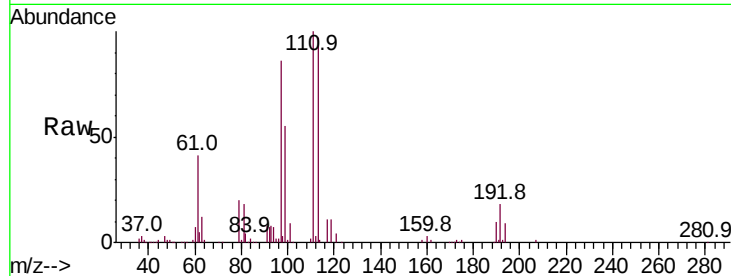




#35
 Dibromofluoromethane
 Concen: 49.905 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

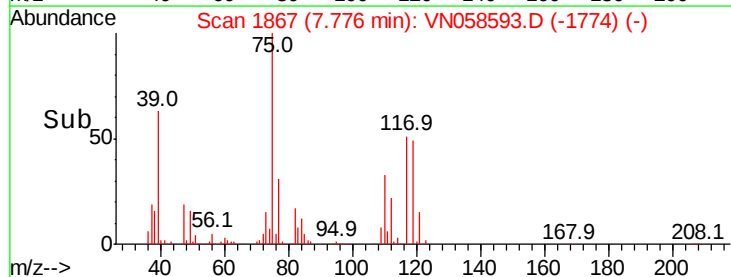
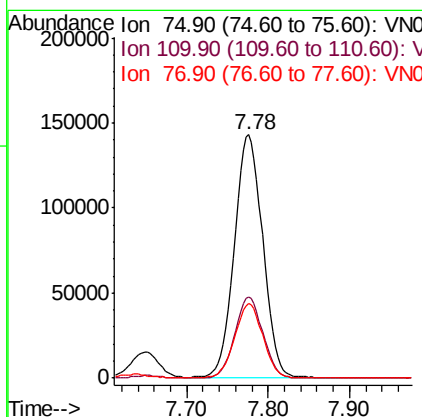
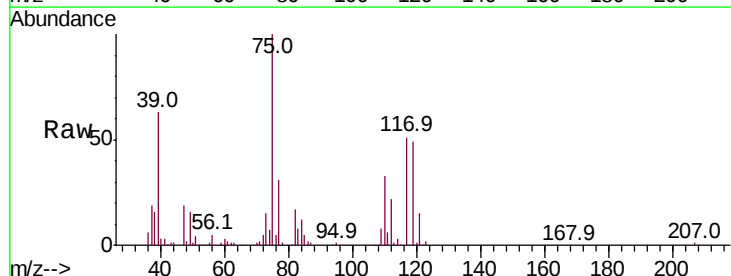
Instrument :
 MSVOA_N
 ClientSampleId :

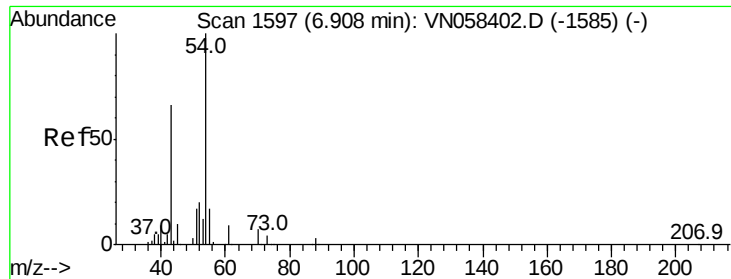
Tot Ion:113 Resp: 229649
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.4 125.2
 192 19.1 14.9 22.3



#36
 1,1-Dichloropropene
 Concen: 48.447 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

Tgt Ion: 75 Resp: 347817
 Ion Ratio Lower Upper
 75 100
 110 32.6 16.4 49.2
 77 30.7 24.3 36.5





#37

Ethyl Acetate

Concen: 52.252 ug/l

RT: 6.91 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

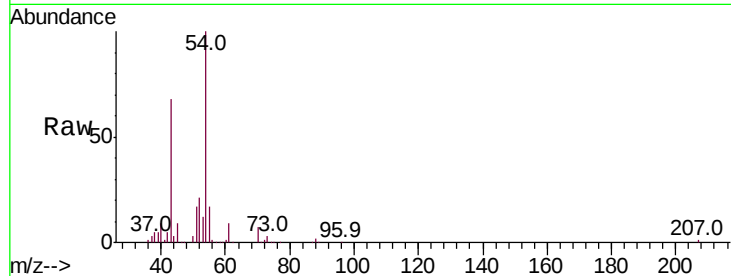
Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 318051

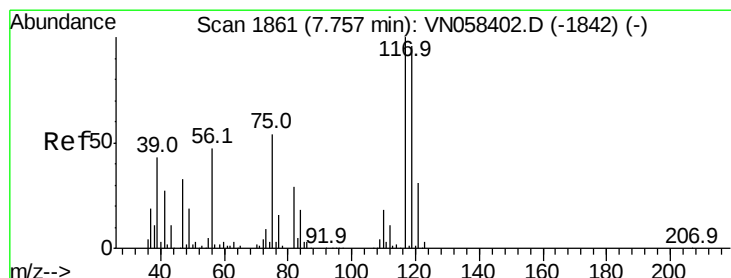
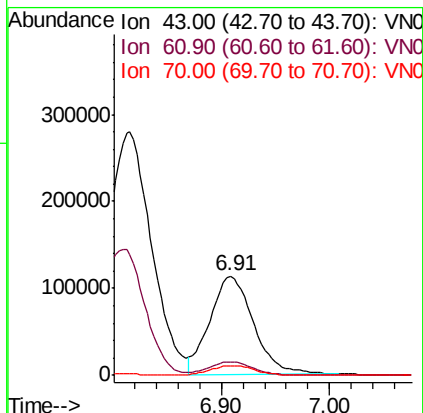
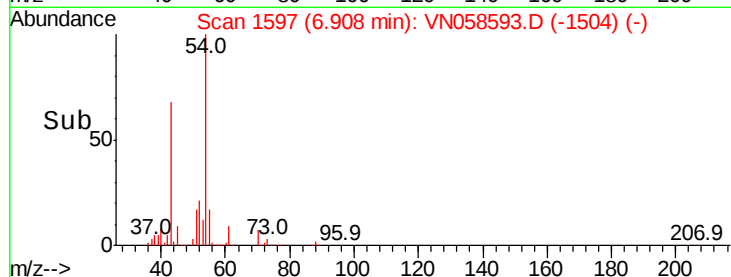
Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.5	15.7
70	10.0	7.8	11.6



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: 54.132 ug/l

RT: 7.76 min Scan# 1861

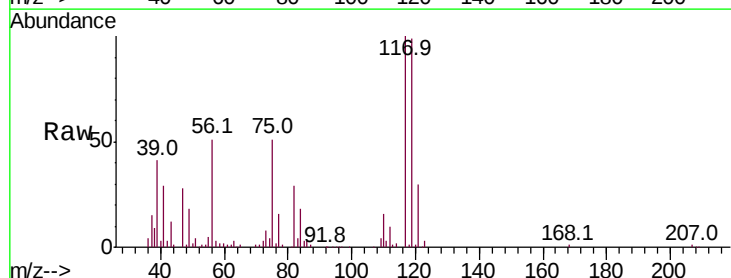
Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Tgt Ion: 117 Resp: 350796

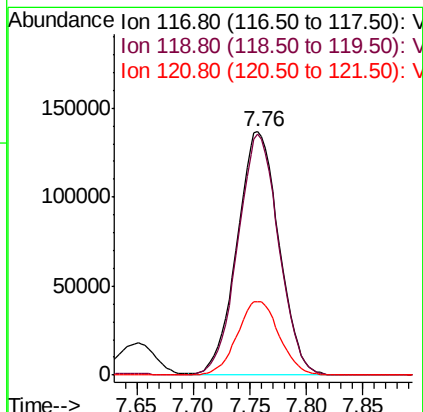
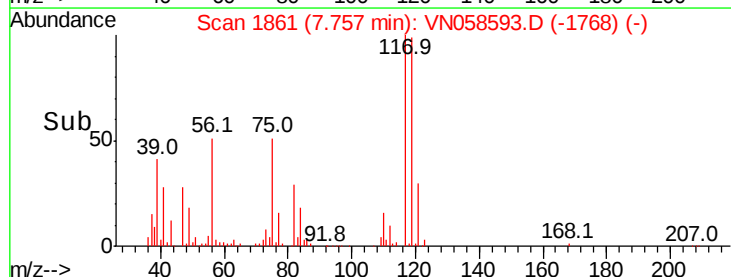
Ion	Ratio	Lower	Upper
117	100		
119	99.2	76.6	115.0
121	30.4	24.7	37.1

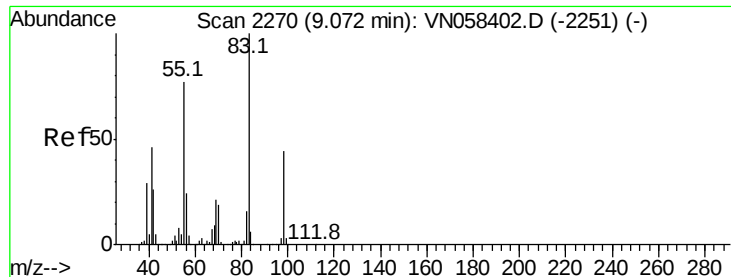


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

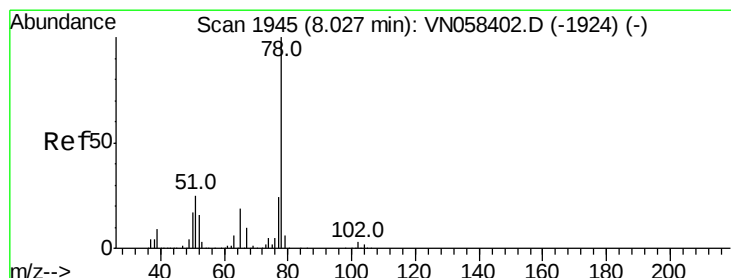
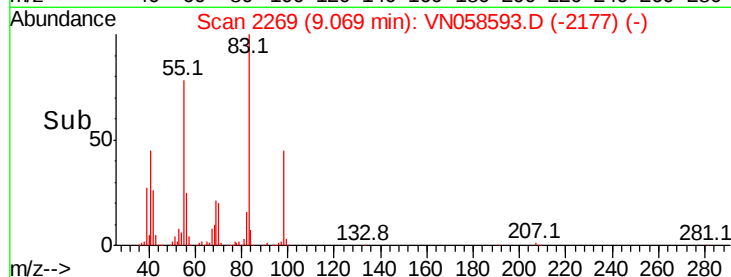
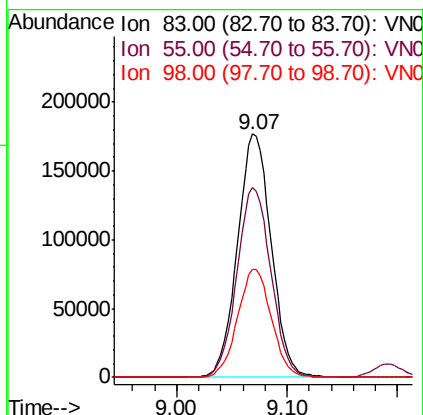
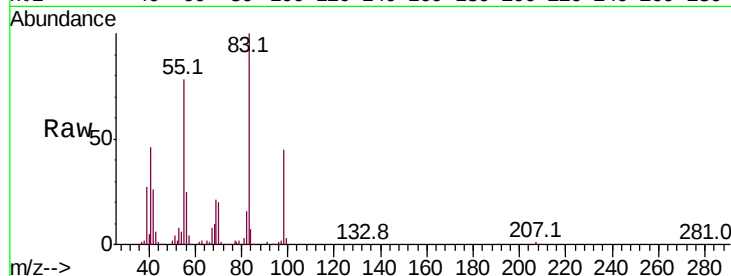




#39
Methvlcvclohexane
Concen: 44.759 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

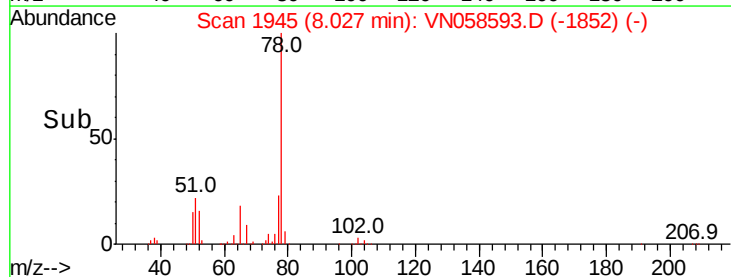
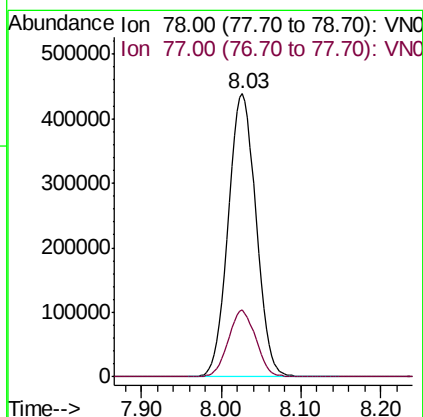
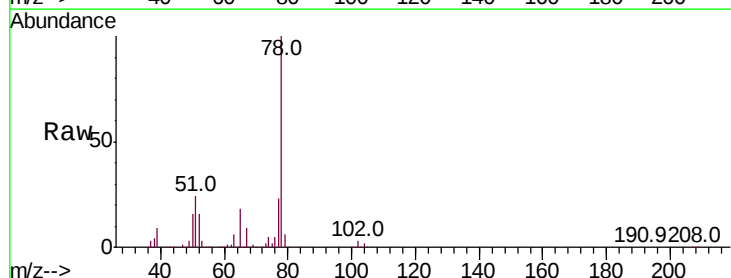
Instrument :
MSVOA_N
ClientSampleId :

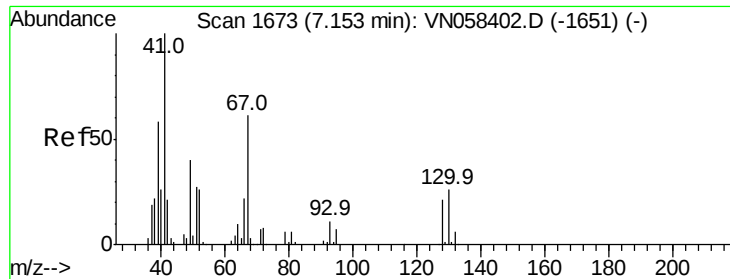
Tot Ion: 83 Resp: 375259
Ion Ratio Lower Upper
83 100
55 78.0 61.8 92.6
98 44.5 35.4 53.0



#40
Benzene
Concen: 50.195 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion: 78 Resp: 1035875
Ion Ratio Lower Upper
78 100
77 23.5 18.9 28.3

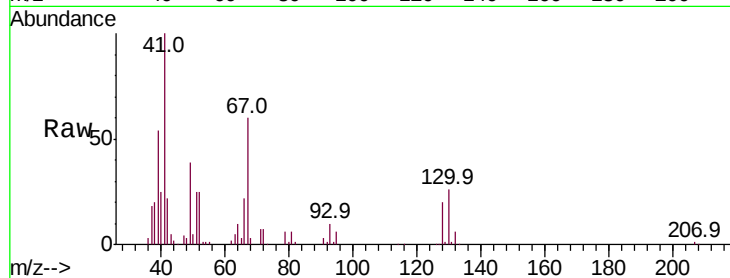




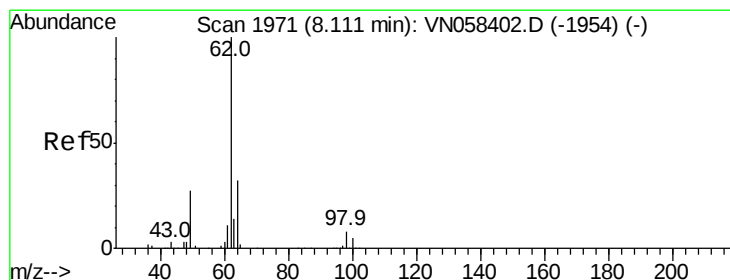
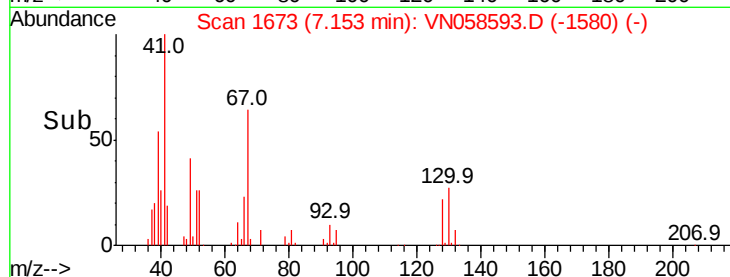
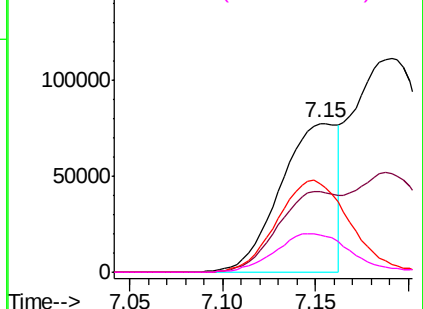
#41
Methacrylonitrile
Concen: 58.944 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 165058
Ion Ratio Lower Upper
41 100
39 60.0 50.2 75.4
67 79.5 70.2 105.4
52 35.3 31.4 47.0

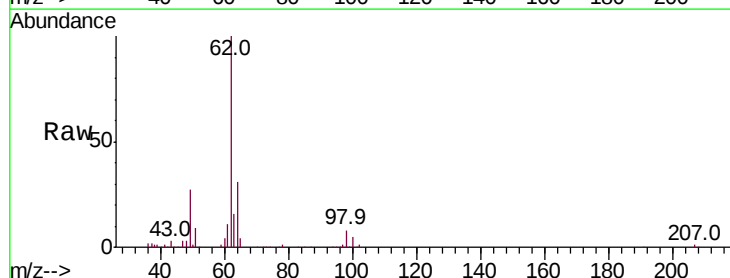


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

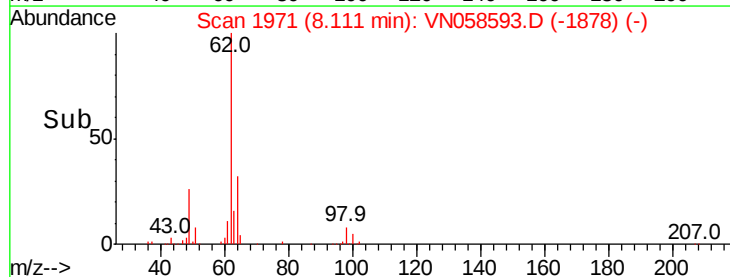
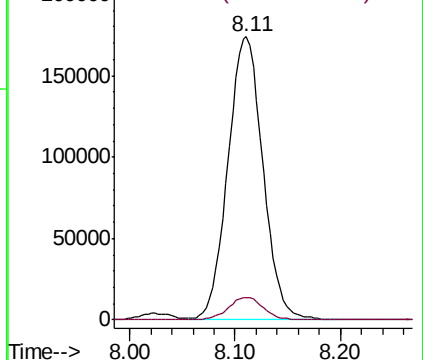


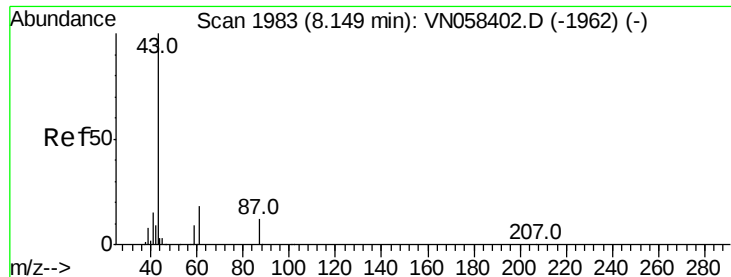
#42
1,2-Dichloroethane
Concen: 49.735 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion: 62 Resp: 399317
Ion Ratio Lower Upper
62 100
98 7.9 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 49.606 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :
MSVOA_N
ClientSampleId :

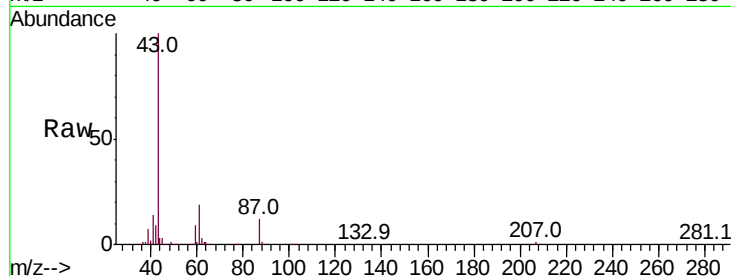
Tot Ion: 43 Resp: 567801

Ion Ratio Lower Upper

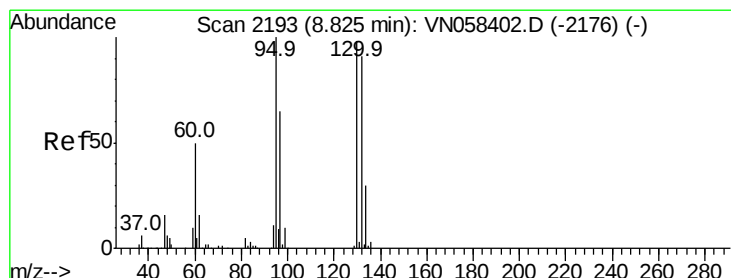
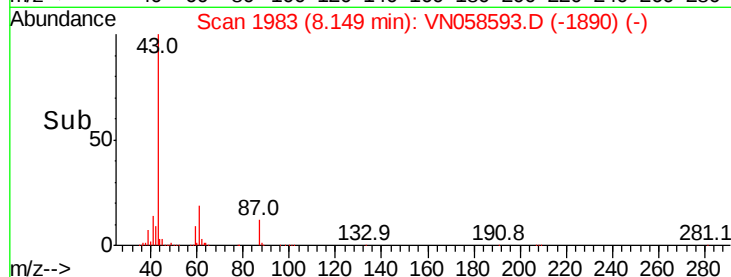
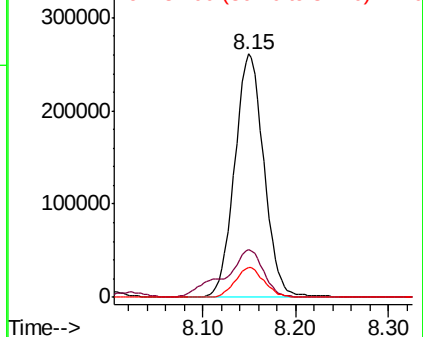
43 100

61 26.1 14.8 22.2#

87 12.4 9.7 14.5



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#44

Trichloroethene

Concen: 57.355 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058593.D

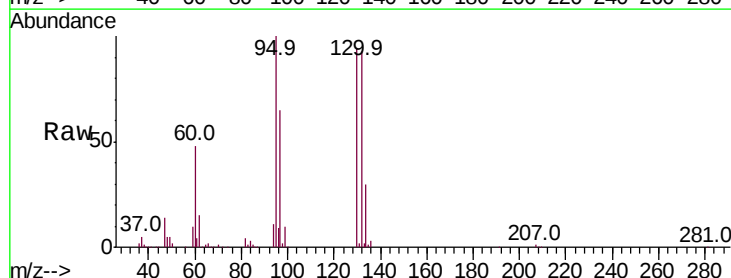
Acq: 8 Oct 2019 1:14

Tgt Ion:130 Resp: 292260

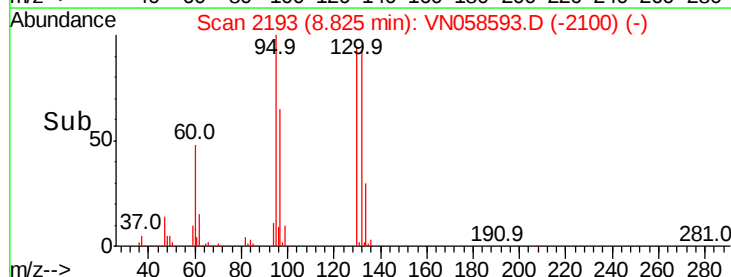
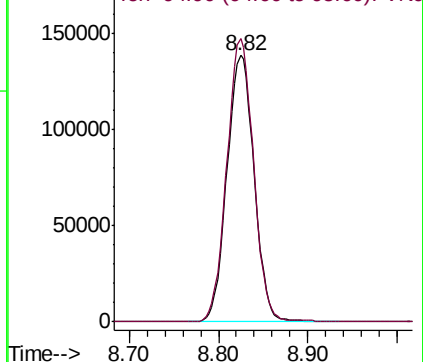
Ion Ratio Lower Upper

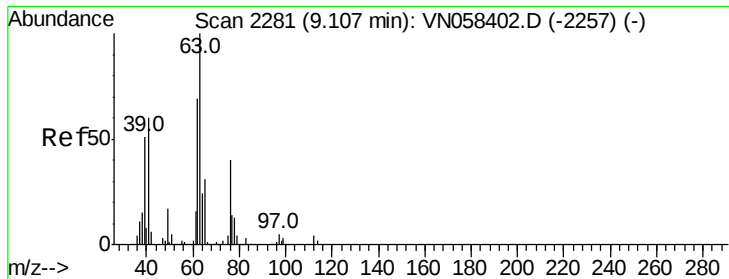
130 100

95 106.2 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#45

1,2-Dichloropropane

Concen: 51.772 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

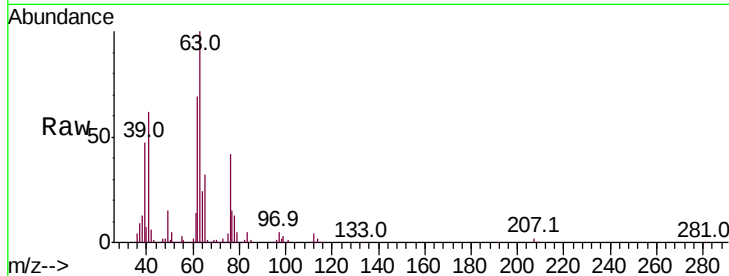
ClientSampleId :

Tot Ion: 63 Resp: 286541

Ion Ratio Lower Upper

63 100

65 31.6 25.0 37.4



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.11

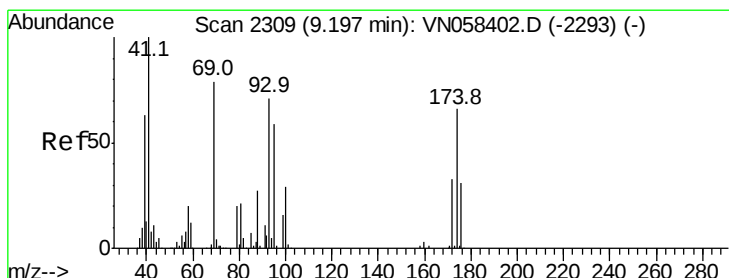
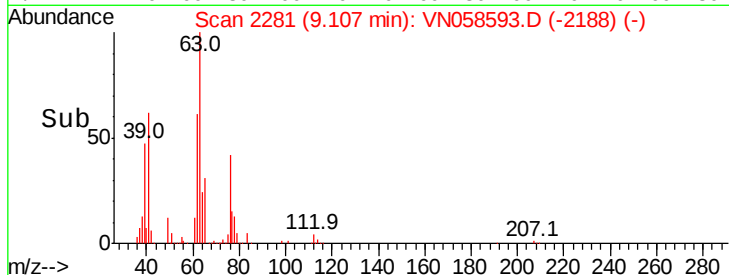
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 50.933 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

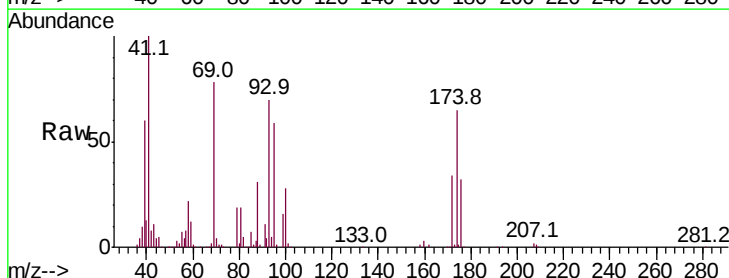
Tgt Ion: 93 Resp: 178522

Ion Ratio Lower Upper

93 100

95 83.1 67.0 100.4

174 94.7 74.2 111.2



Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO

120000

100000

80000

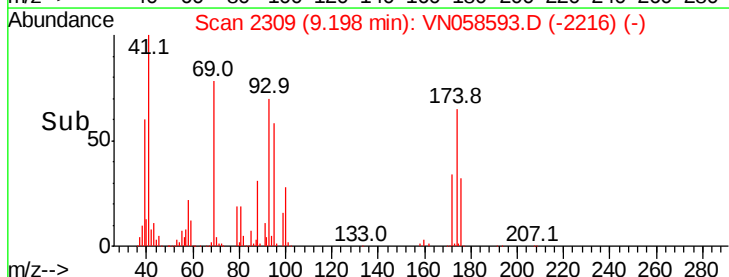
60000

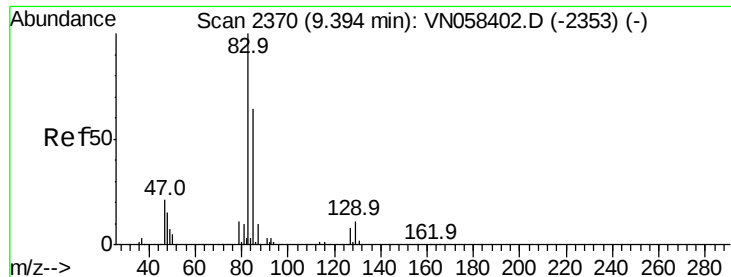
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 56.777 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

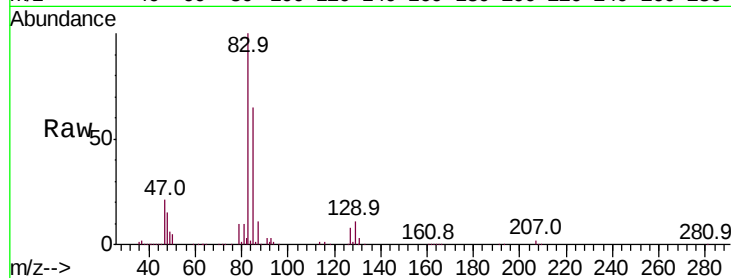
Tot Ion: 83 Resp: 377049

Ion Ratio Lower Upper

83 100

85 64.8 51.2 76.8

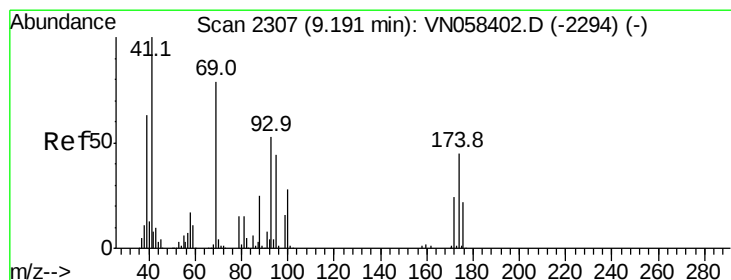
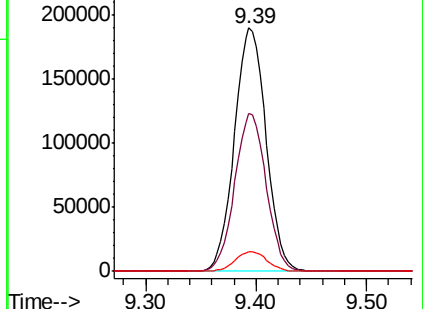
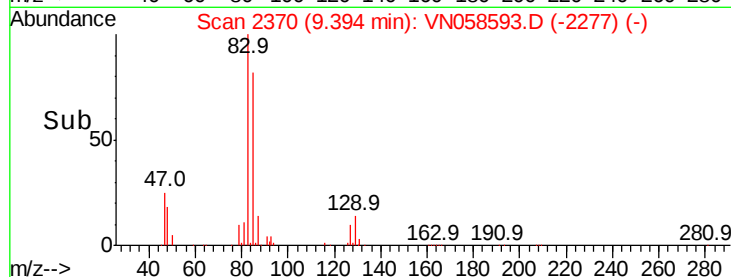
127 8.1 6.3 9.5



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC

Ion 126.80 (126.50 to 127.50): VNC



#48

Methyl methacrylate

Concen: 53.356 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

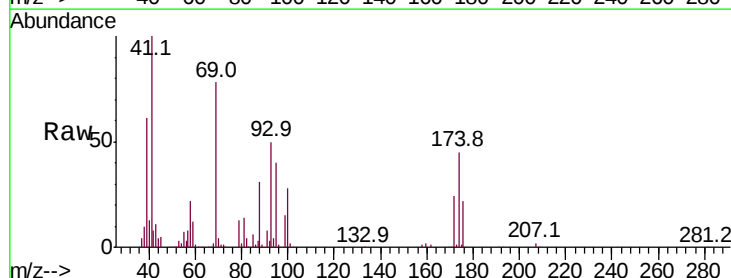
Tgt Ion: 41 Resp: 278091

Ion Ratio Lower Upper

41 100

69 78.3 64.7 97.1

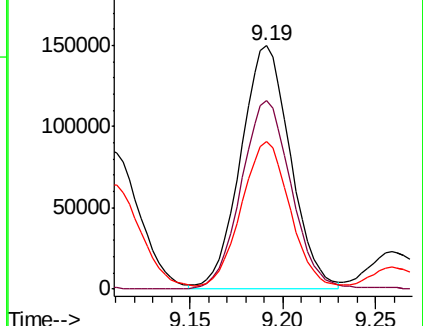
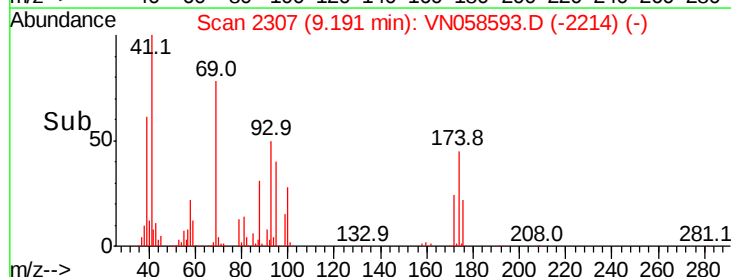
39 60.1 52.9 79.3

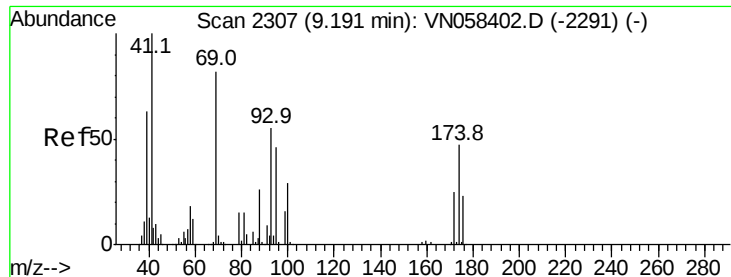


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

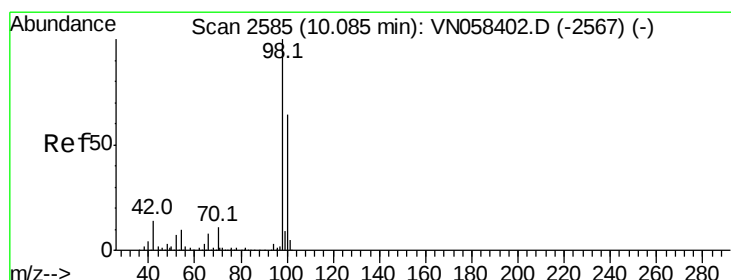
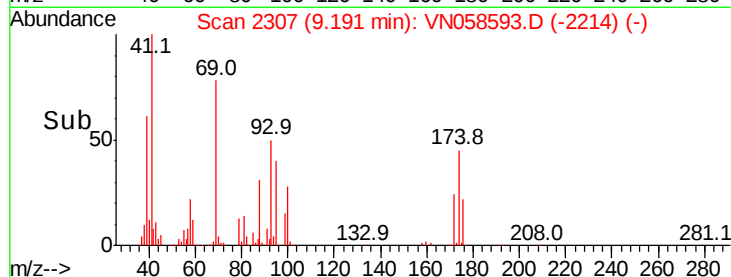
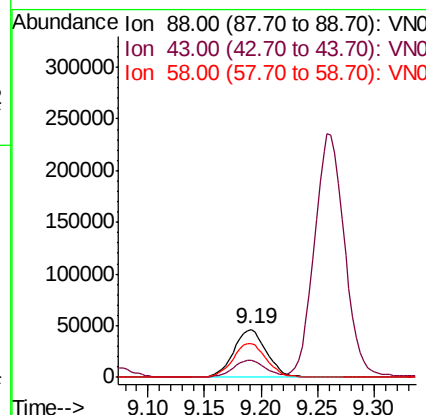
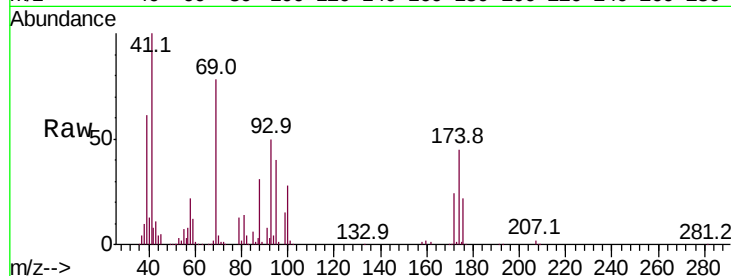




#49
1,4-Dioxane
Concen: 1356.175 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

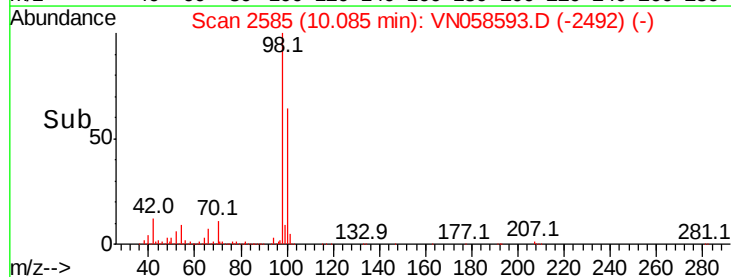
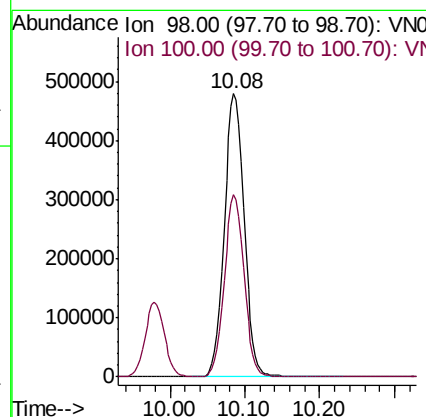
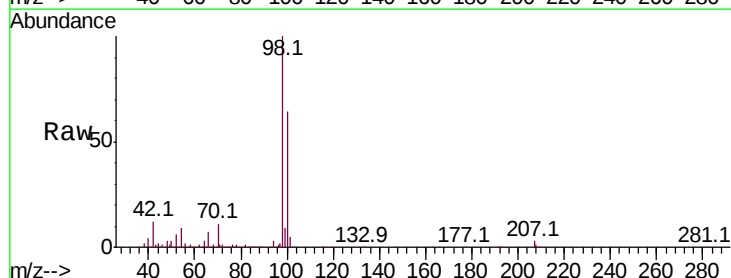
Instrument :
MSVOA_N
ClientSampleId :

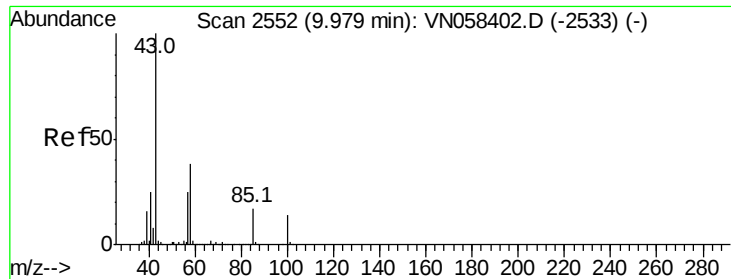
Tot Ion: 88 Resp: 94513
Ion Ratio Lower Upper
88 100
43 34.5 31.1 46.7
58 71.4 58.1 87.1



#50
Toluene-d8
Concen: 48.777 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion: 98 Resp: 879299
Ion Ratio Lower Upper
98 100
100 63.9 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 290.128 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

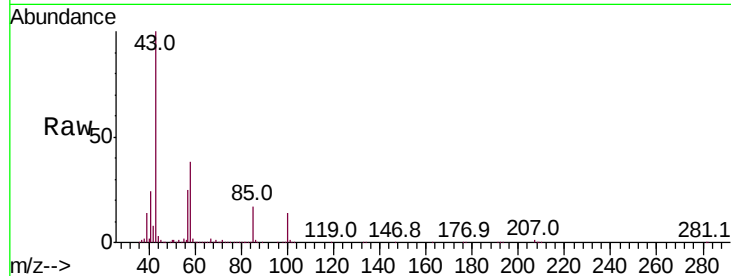
ClientSampled :

Tot Ion: 43 Resp: 1705805

Ion Ratio Lower Upper

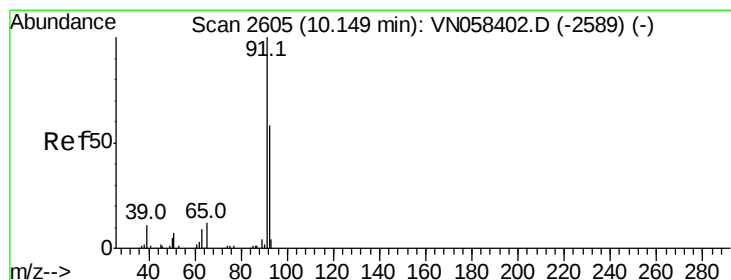
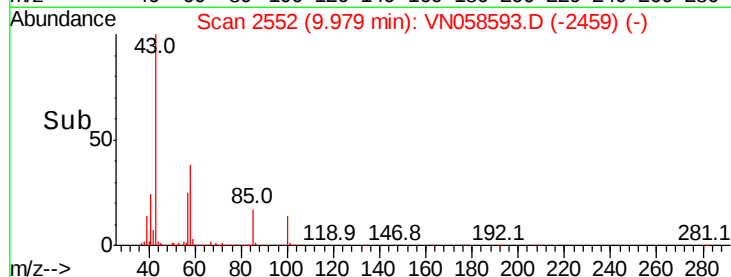
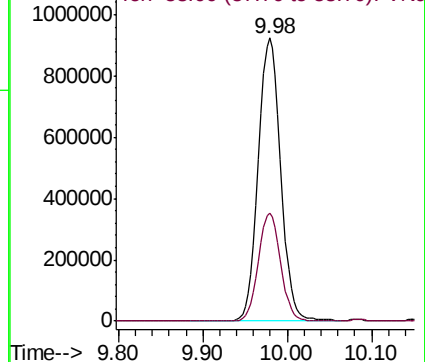
43 100

58 37.9 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 49.308 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058593.D

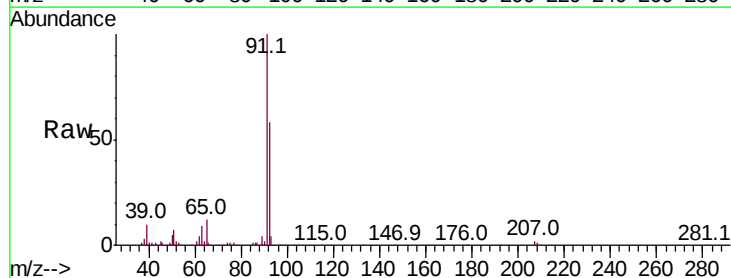
Acq: 8 Oct 2019 1:14

Tgt Ion: 92 Resp: 640481

Ion Ratio Lower Upper

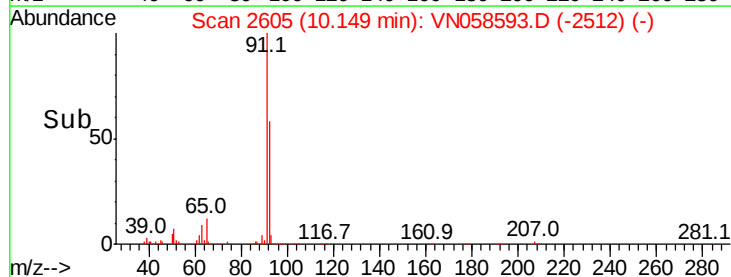
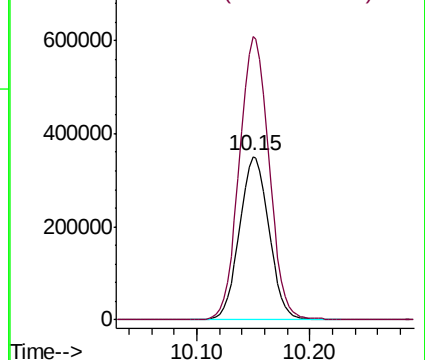
92 100

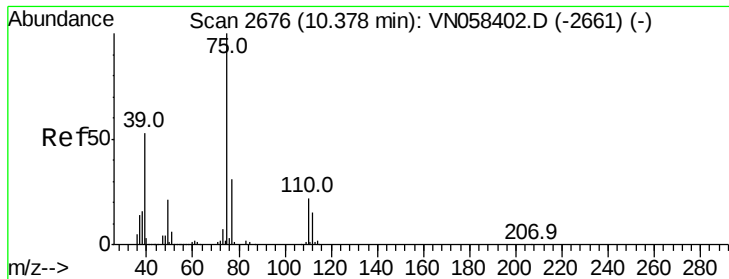
91 174.8 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 55.737 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

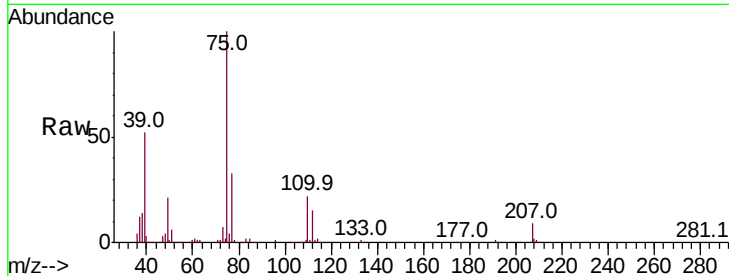
ClientSampleId :

Tot Ion: 75 Resp: 402877

Ion Ratio Lower Upper

75 100

77 32.2 25.2 37.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

250000

200000

150000

100000

50000

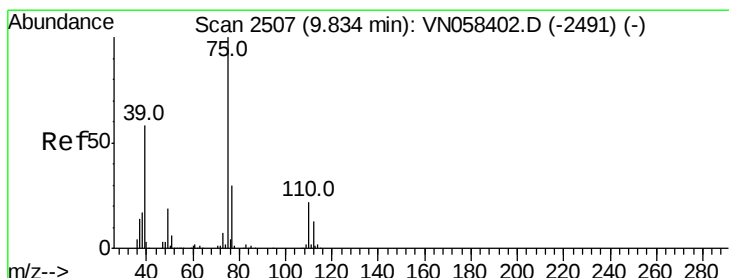
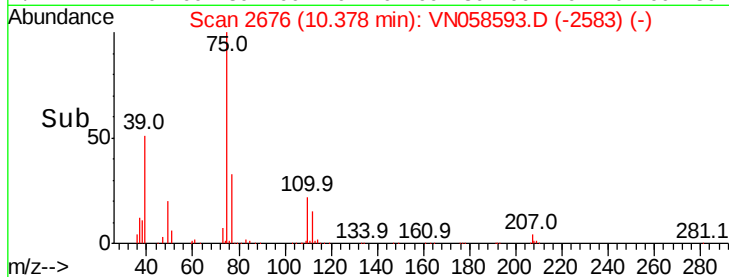
0

10.30

10.40

10.50

Time-->



#54

cis-1,3-Dichloropropene

Concen: 53.341 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

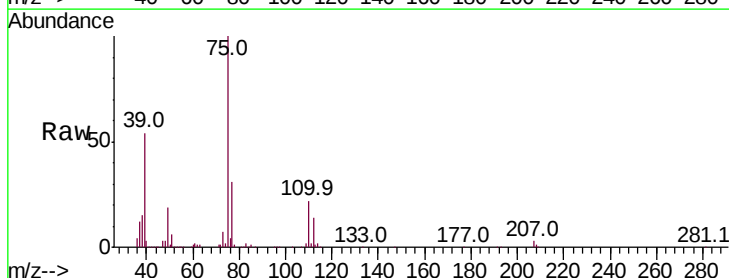
Tgt Ion: 75 Resp: 427985

Ion Ratio Lower Upper

75 100

77 30.8 24.2 36.4

39 53.8 46.4 69.6



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.83

300000

250000

200000

150000

100000

50000

0

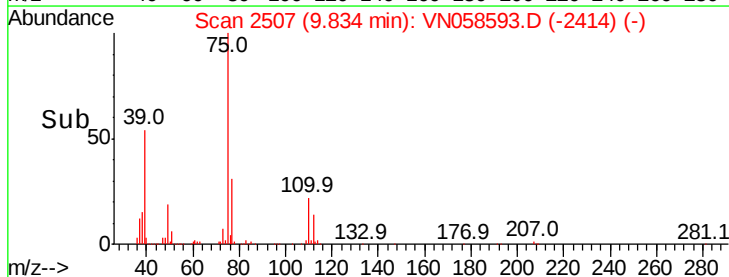
9.75

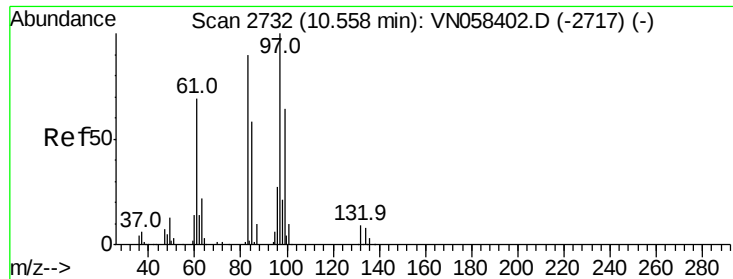
9.80

9.85

9.90

Time-->





#55

1,1,2-Trichloroethane

Concen: 54.405 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 97 Resp: 257318

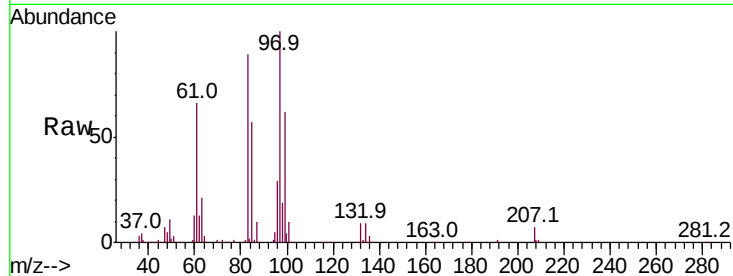
Ion Ratio Lower Upper

97 100

83 89.3 71.8 107.6

85 56.9 46.6 69.8

99 61.8 51.5 77.3

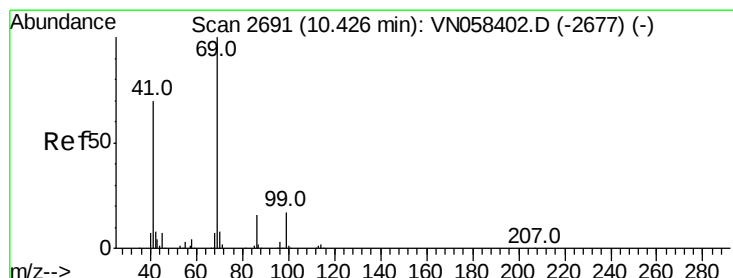
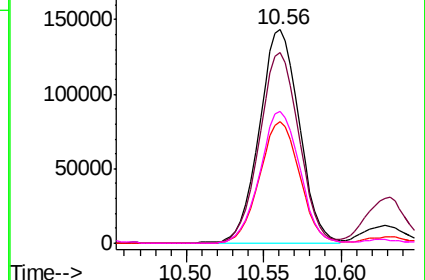
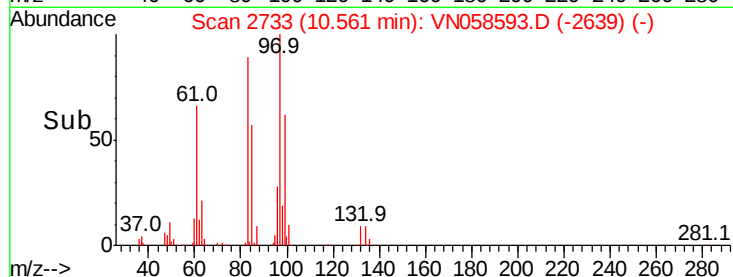


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 55.362 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

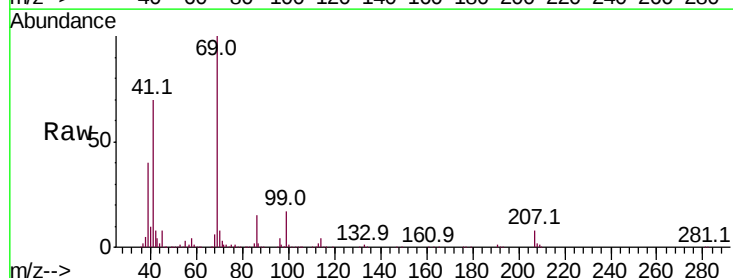
Tgt Ion: 69 Resp: 397327

Ion Ratio Lower Upper

69 100

41 69.6 56.3 84.5

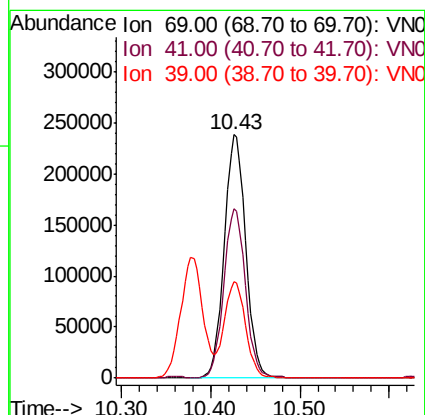
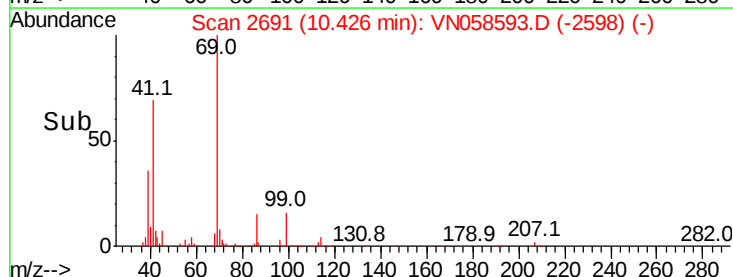
39 39.5 35.8 53.6

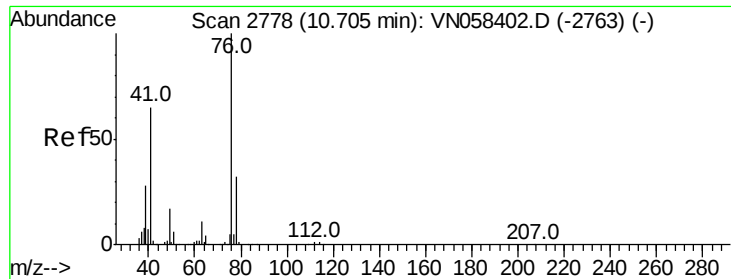


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 53.100 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

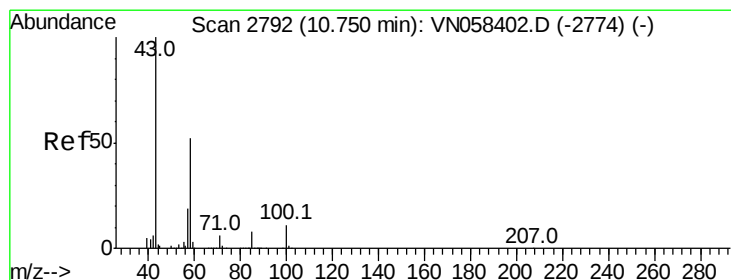
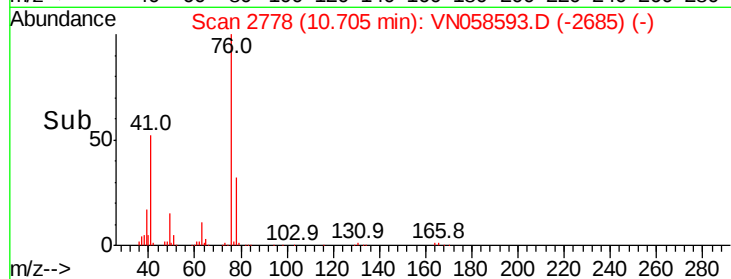
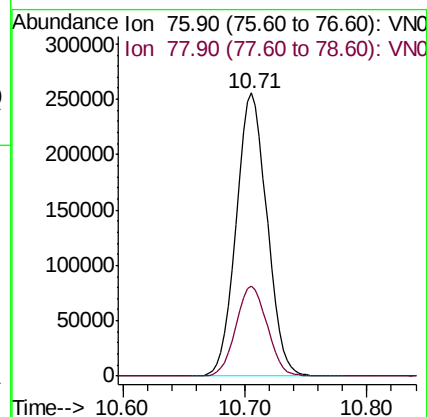
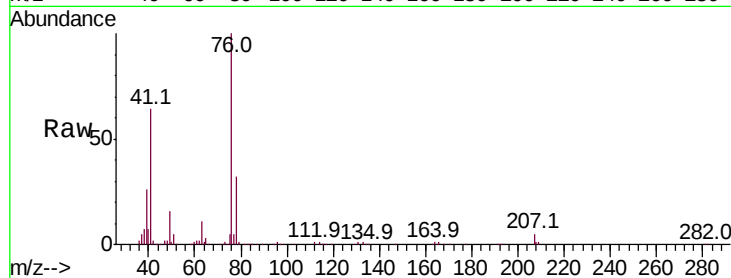
ClientSampled :

Tot Ion: 76 Resp: 447972

Ion Ratio Lower Upper

76 100

78 32.4 25.7 38.5



#59

2-Hexanone

Concen: 287.823 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN058593.D

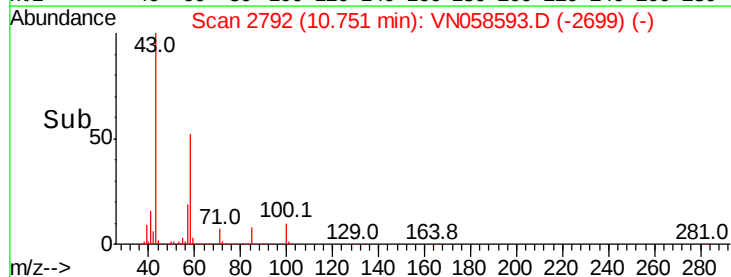
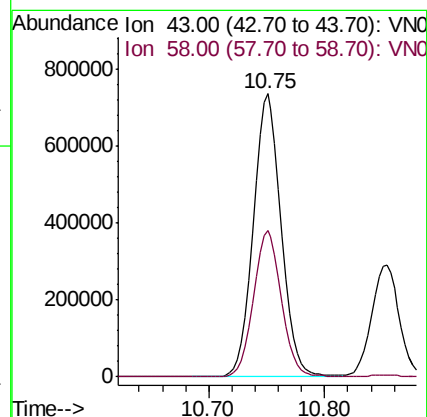
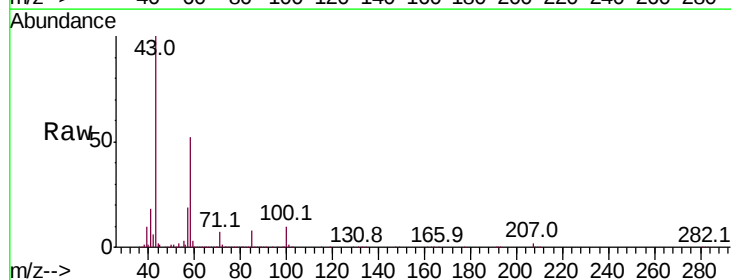
Acq: 8 Oct 2019 1:14

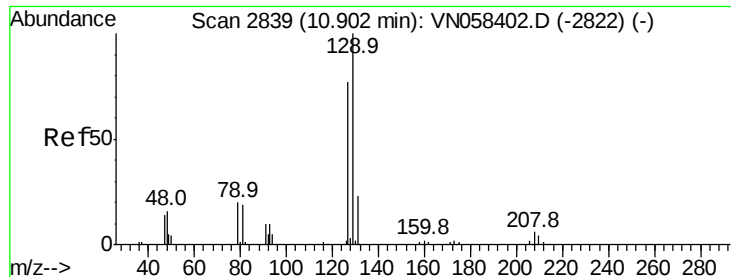
Tgt Ion: 43 Resp: 1232218

Ion Ratio Lower Upper

43 100

58 51.8 25.8 77.3





#60

Dibromochloromethane

Concen: 56.975 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

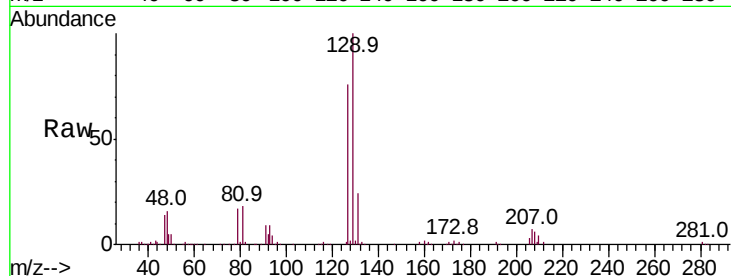
ClientSampleId :

Tot Ion:129 Resp: 278672

Ion Ratio Lower Upper

129 100

127 77.3 38.3 114.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

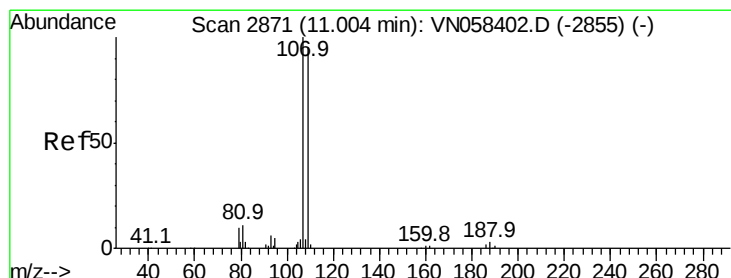
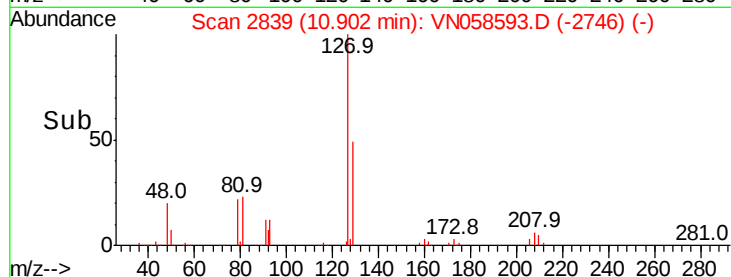
150000

100000

50000

0

Time--> 10.80 10.85 10.90 10.95



#61

1,2-Dibromoethane

Concen: 53.306 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058593.D

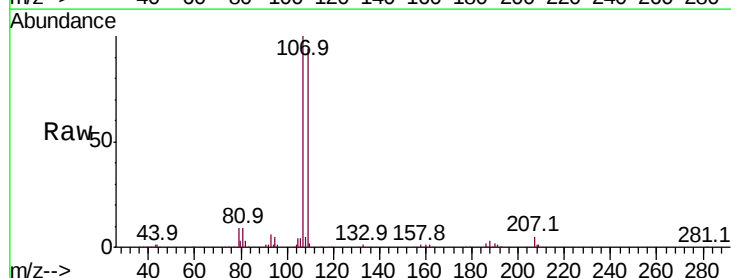
Acq: 8 Oct 2019 1:14

Tgt Ion:107 Resp: 257615

Ion Ratio Lower Upper

107 100

109 95.4 75.3 112.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

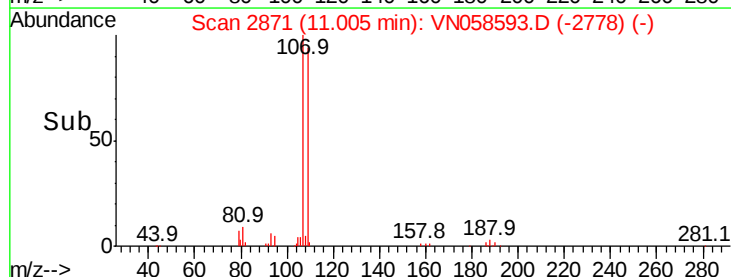
150000

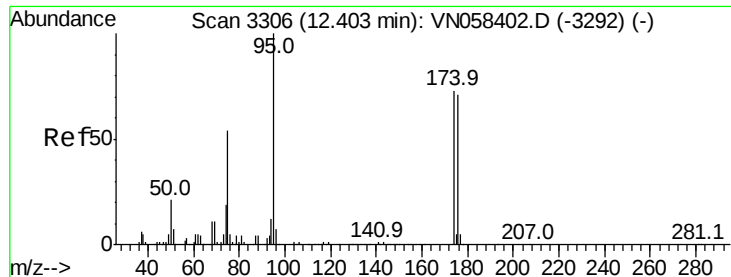
100000

50000

0

Time--> 10.90 11.00 11.10





#62

4-Bromofluorobenzene

Concen: 51.255 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampled :

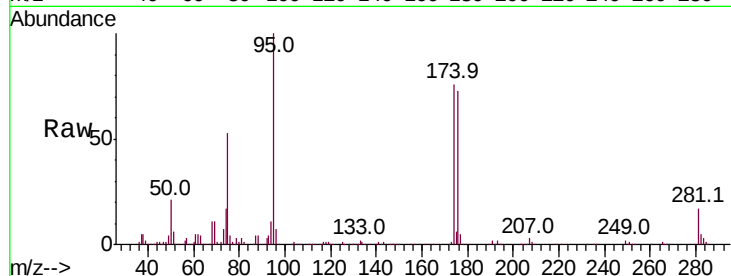
Tot Ion: 95 Resp: 334092

Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.6

176 73.9 0.0 146.2

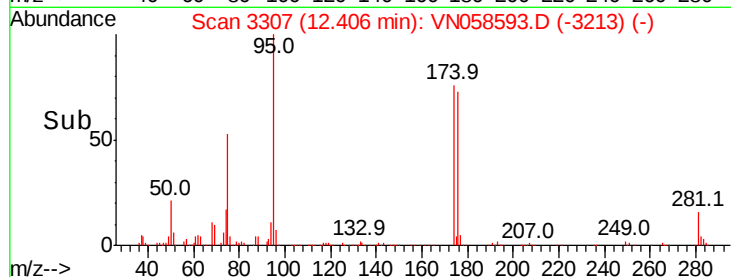


Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

Time-->

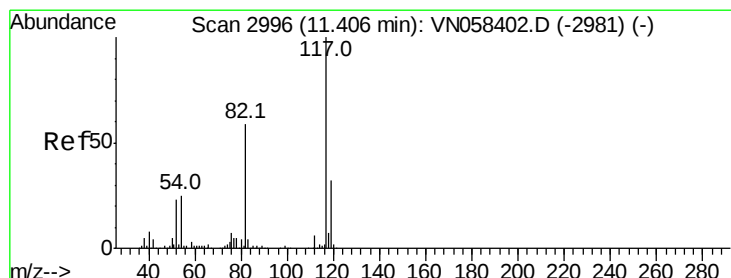


Abundance Ion 94.90 (94.60 to 95.60): VN058593.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058593.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058593.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

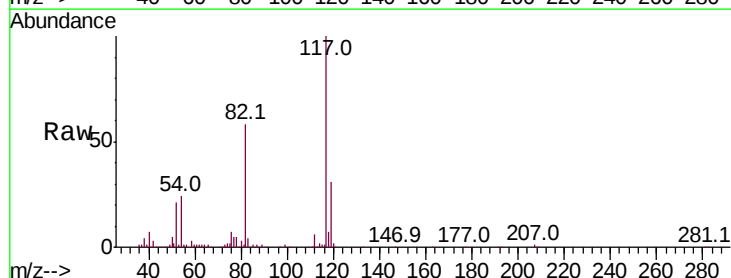
Tgt Ion: 117 Resp: 683895

Ion Ratio Lower Upper

117 100

82 57.7 47.4 71.0

119 31.2 25.5 38.3

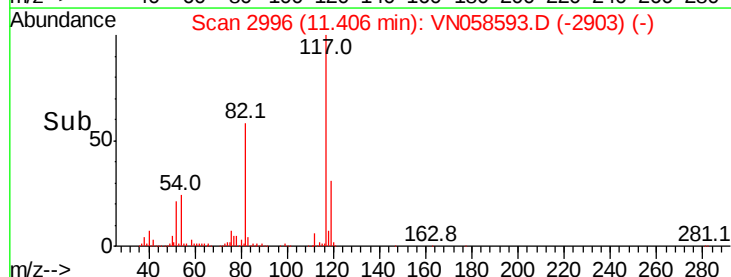


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

Time-->

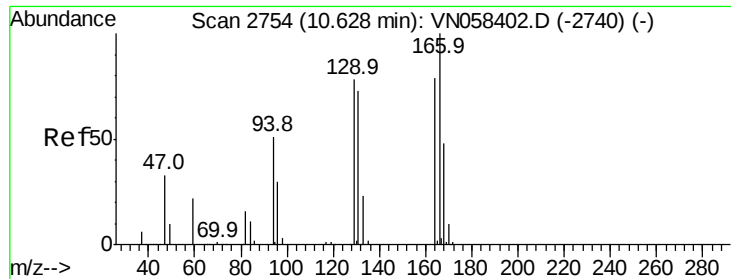


Abundance Ion 116.90 (116.60 to 117.60): VN058593.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058593.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058593.D (-2903) (-)

Time-->



#64

Tetrachloroethene

Concen: 551.177 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:164 Resp: 2394868

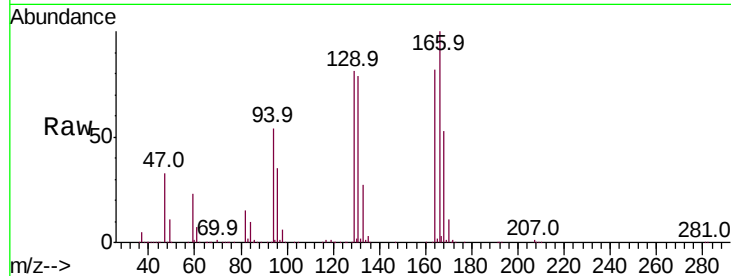
Ion Ratio Lower Upper

164 100

166 121.5 101.1 151.7

129 98.2 79.2 118.8

131 95.7 74.1 111.1



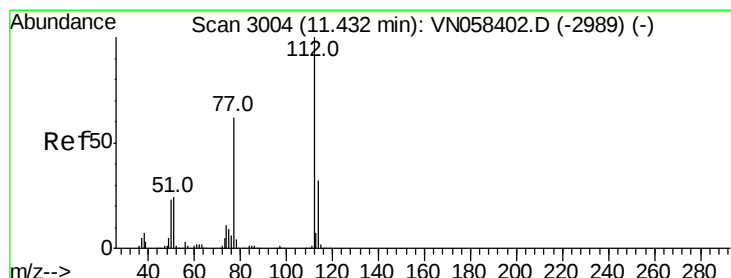
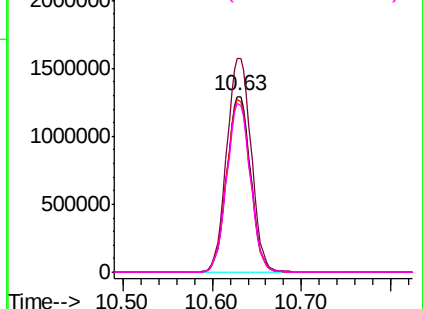
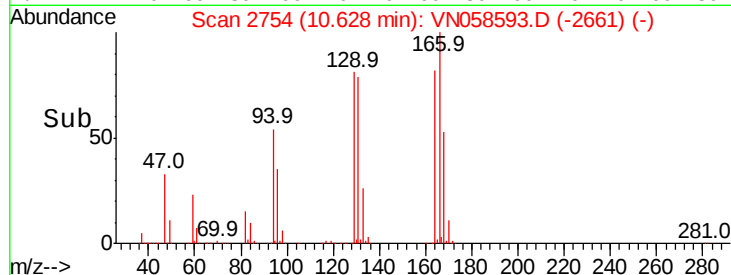
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 50.549 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN058593.D

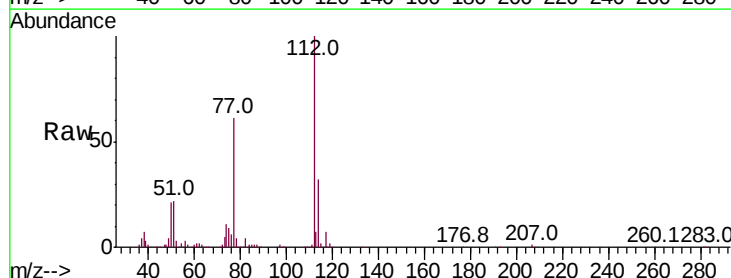
Acq: 8 Oct 2019 1:14

Tgt Ion:112 Resp: 687170

Ion Ratio Lower Upper

112 100

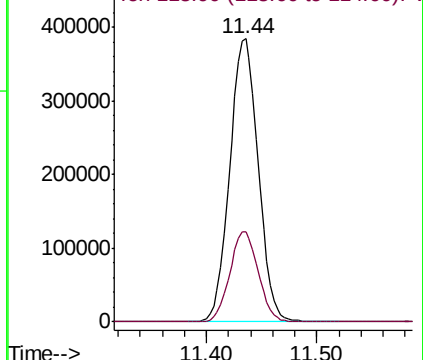
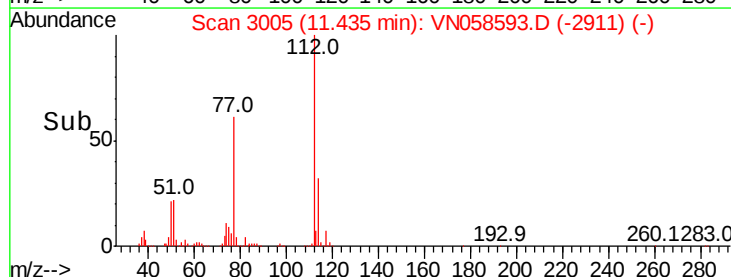
114 31.7 25.4 38.2

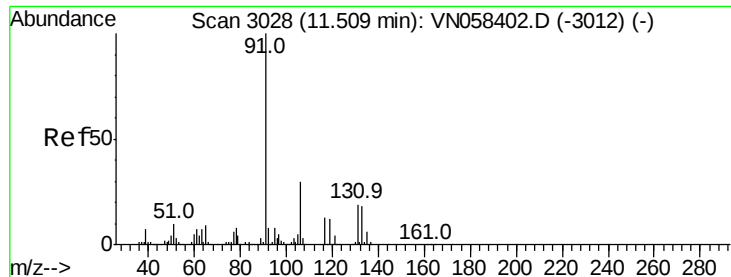


Abundance

Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 56.805 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

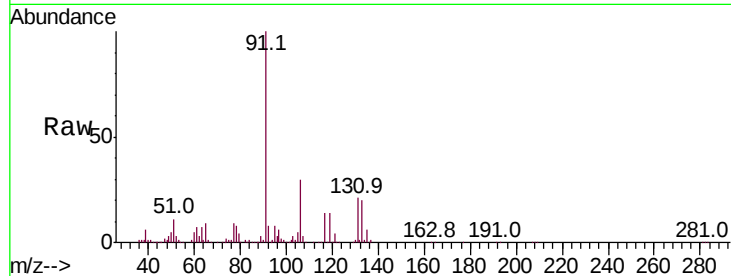
Tot Ion:131 Resp: 260180

Ion Ratio Lower Upper

131 100

133 95.7 47.8 143.3

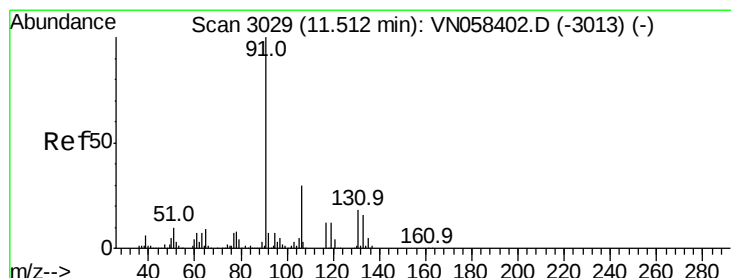
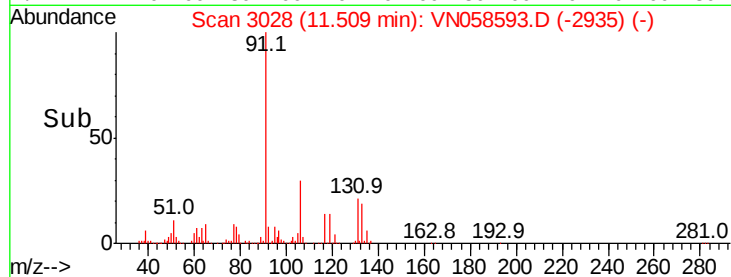
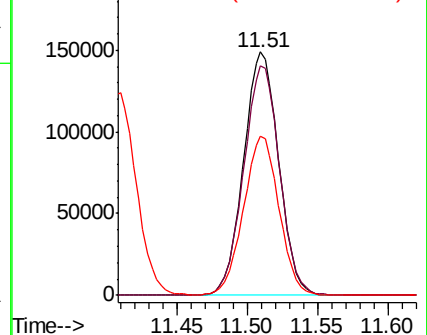
119 66.2 33.0 99.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 51.269 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058593.D

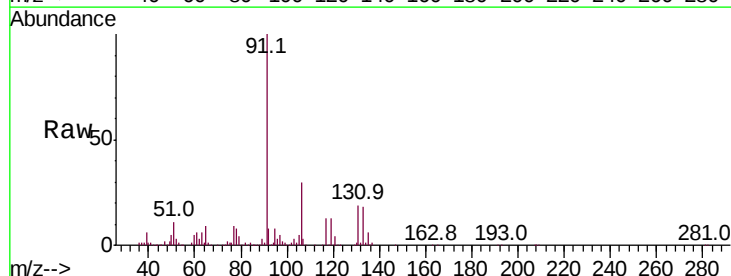
Acq: 8 Oct 2019 1:14

Tgt Ion: 91 Resp: 1262406

Ion Ratio Lower Upper

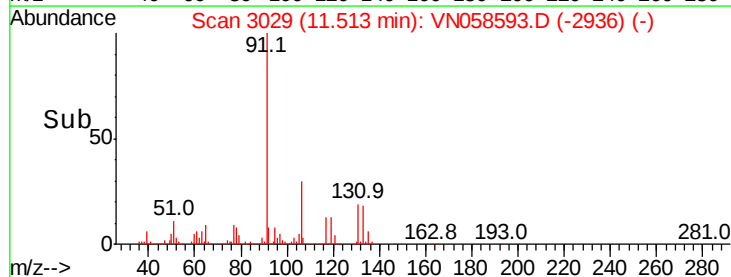
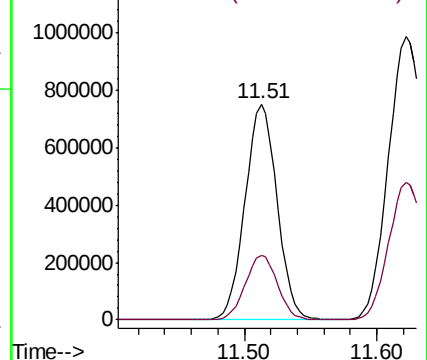
91 100

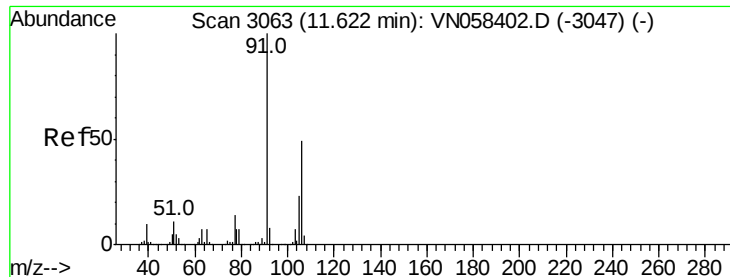
106 30.2 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

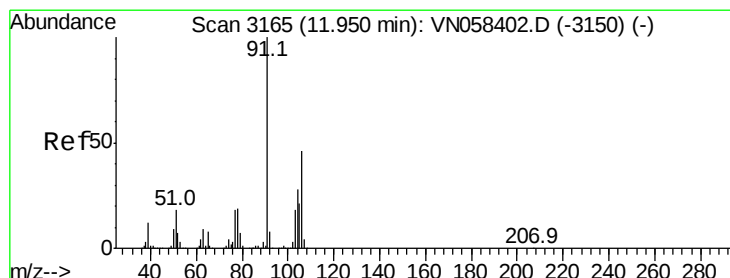
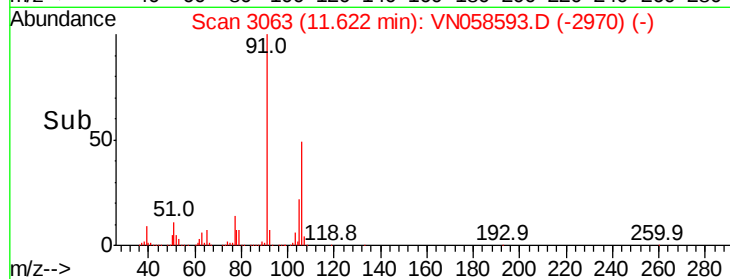
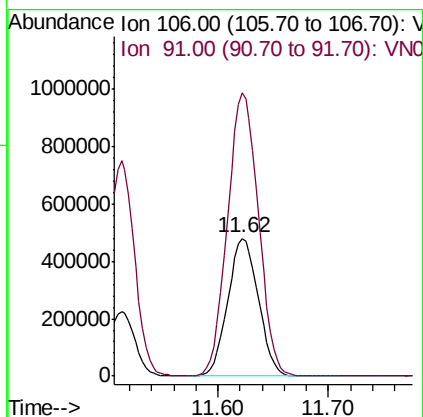
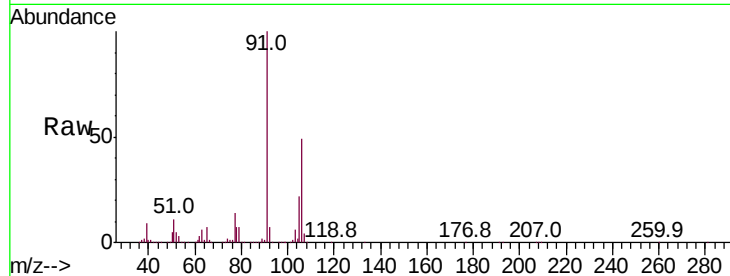




#68
m/p-Xylenes
Concen: 99.550 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

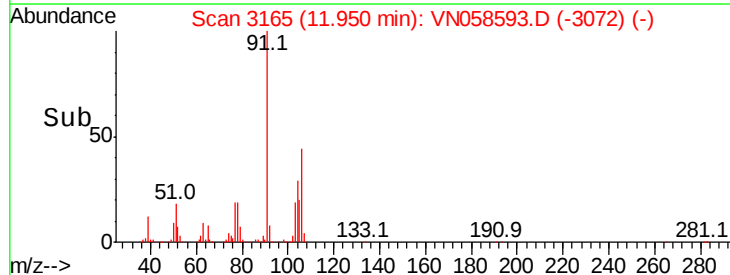
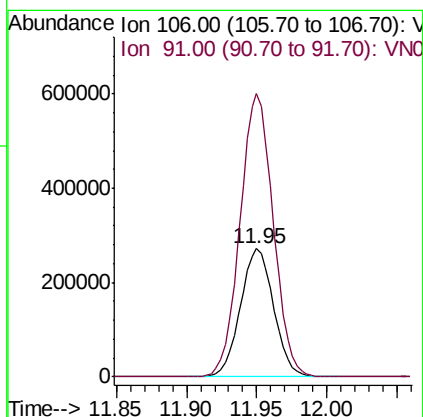
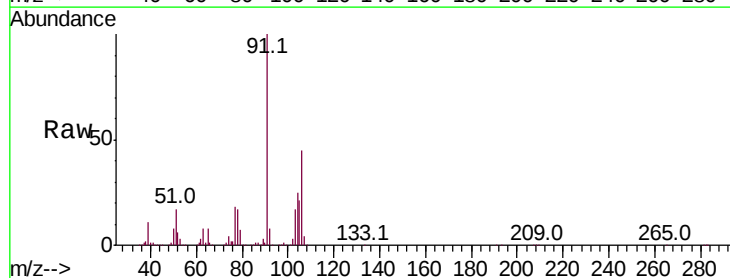
Instrument :
MSVOA_N
ClientSampleId :

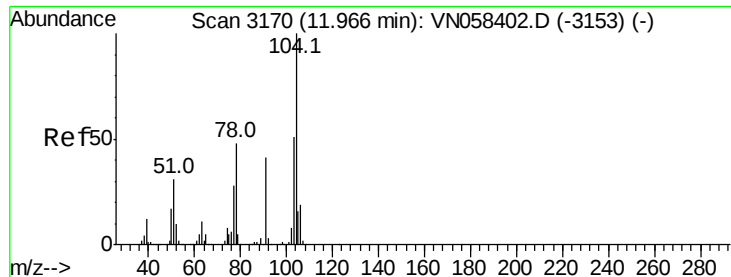
Tot Ion:106 Resp: 922257
Ion Ratio Lower Upper
106 100
91 208.1 165.0 247.4



#69
o-Xylene
Concen: 50.428 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion:106 Resp: 449725
Ion Ratio Lower Upper
106 100
91 220.2 109.1 327.4





#70

Stvrene

Concen: 51.821 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampled :

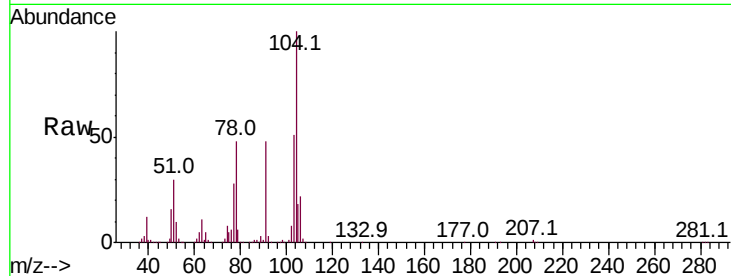
Tot Ion:104 Resp: 750785

Ion Ratio Lower Upper

104 100

78 52.4 42.8 64.2

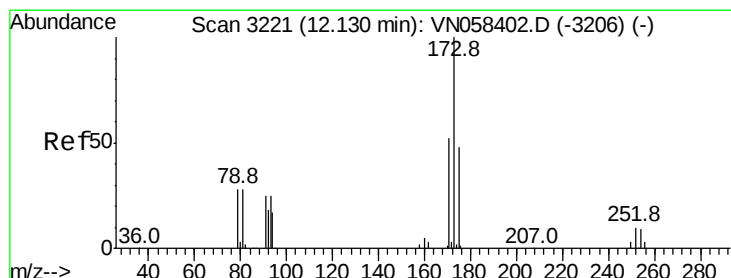
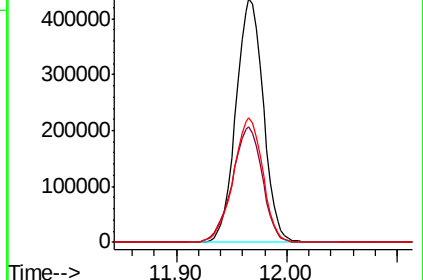
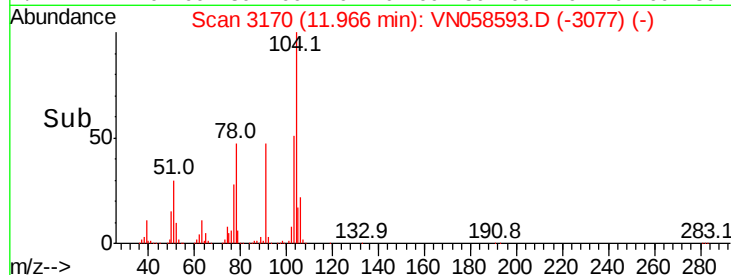
103 54.9 43.7 65.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 58.194 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

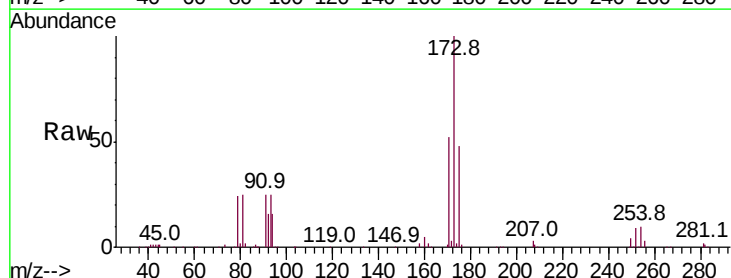
Tgt Ion:173 Resp: 184564

Ion Ratio Lower Upper

173 100

175 48.6 24.3 73.0

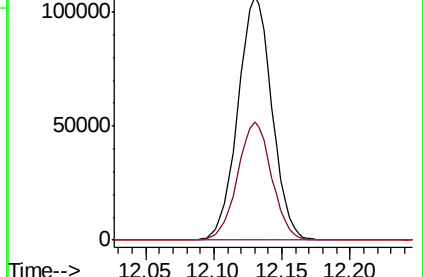
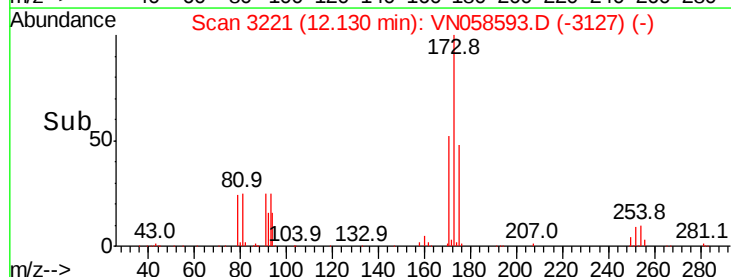
254 0.0 0.1 0.1#

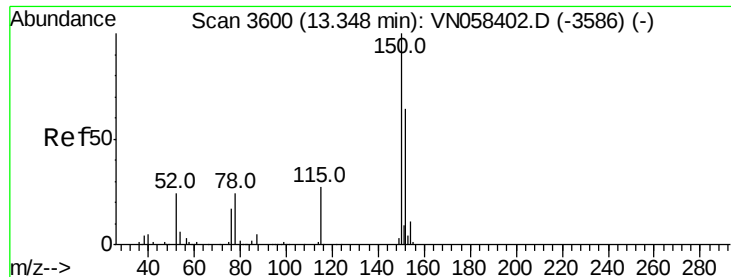


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

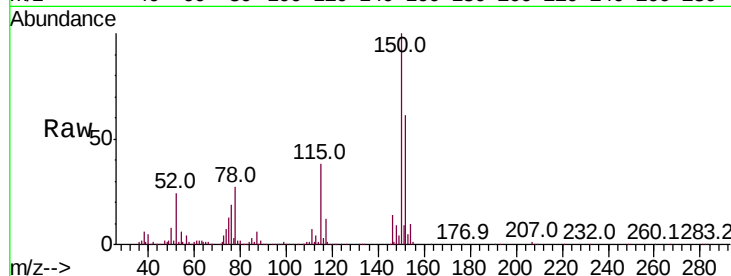
Tot Ion:152 Resp: 327973

Ion Ratio Lower Upper

152 100

115 60.6 30.0 90.0

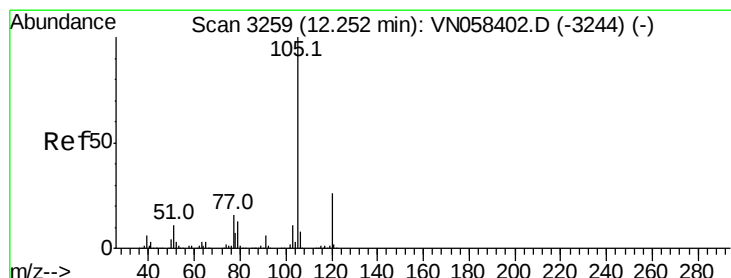
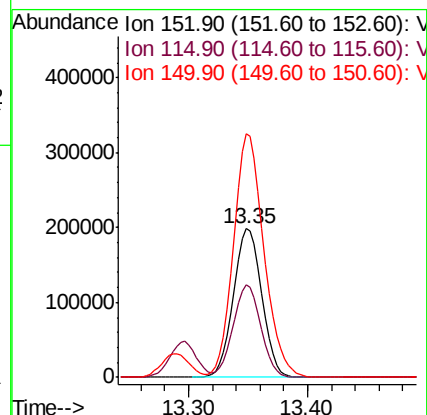
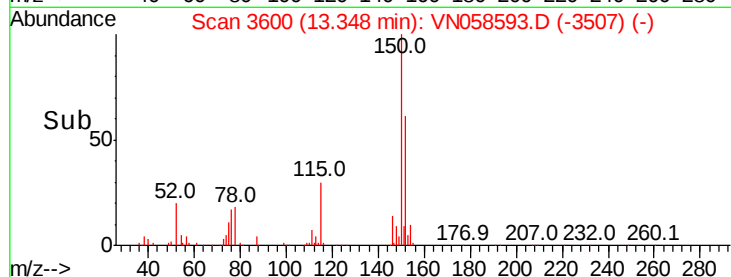
150 175.4 0.0 348.2



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: 50.355 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058593.D

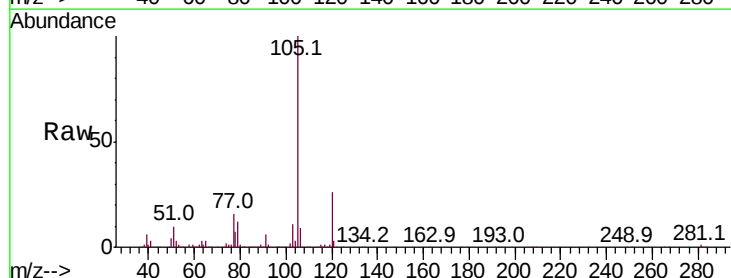
Acq: 8 Oct 2019 1:14

Tgt Ion:105 Resp: 1220508

Ion Ratio Lower Upper

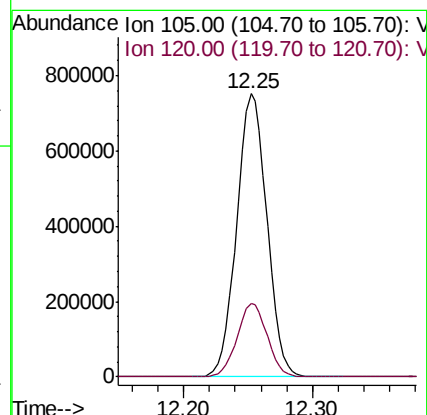
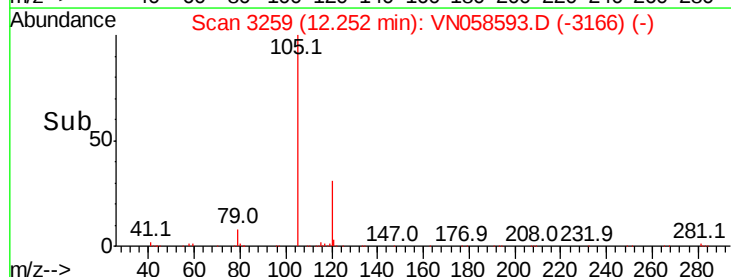
105 100

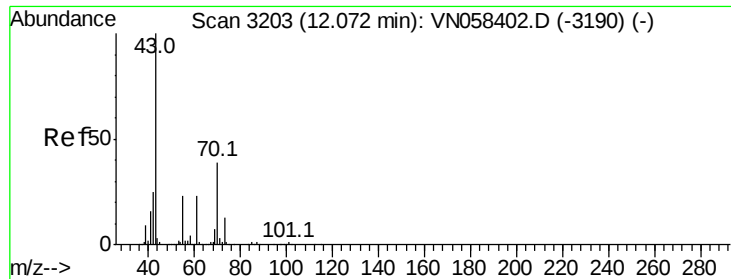
120 25.9 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 51.163 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 493345

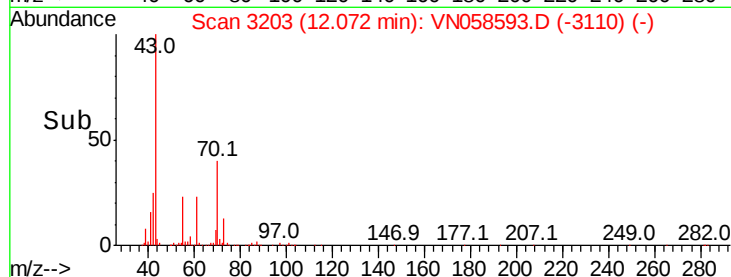
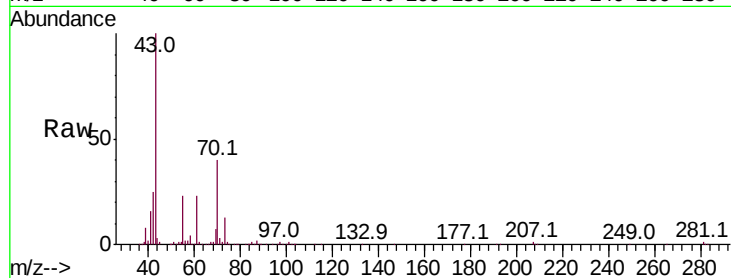
Ion Ratio Lower Upper

43 100

70 39.9 31.4 47.2

55 23.9 18.2 27.4

61 23.6 18.3 27.5

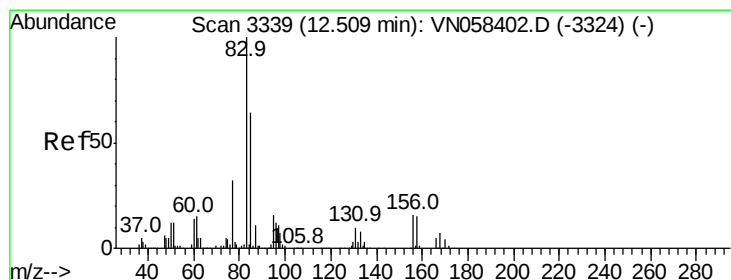
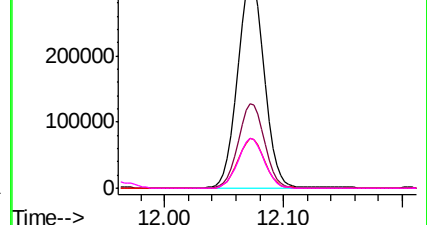


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 52.517 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

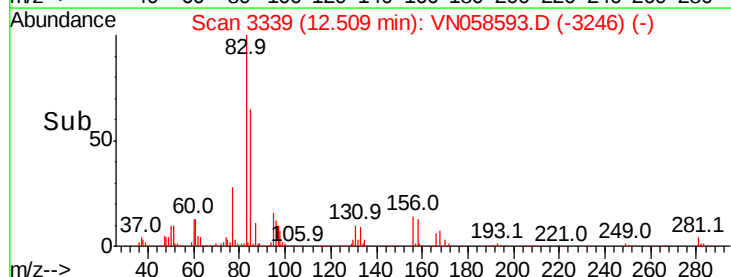
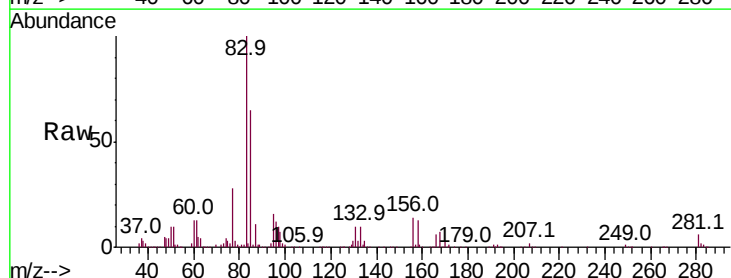
Tgt Ion: 83 Resp: 376401

Ion Ratio Lower Upper

83 100

131 10.0 4.9 14.7

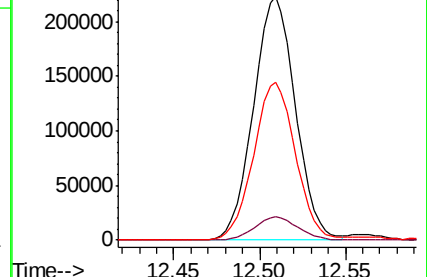
85 64.6 32.0 96.0

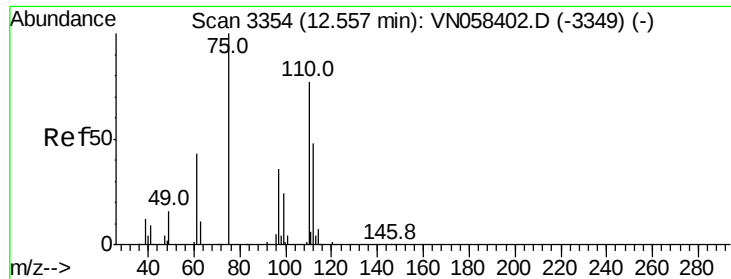


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0

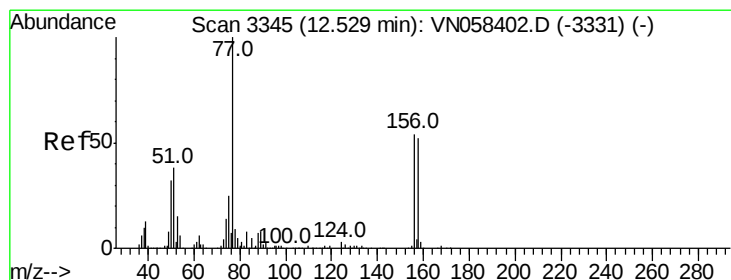
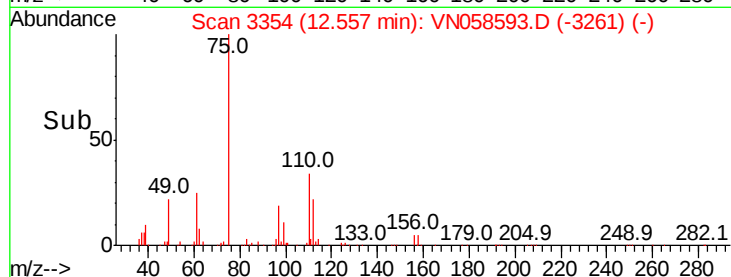
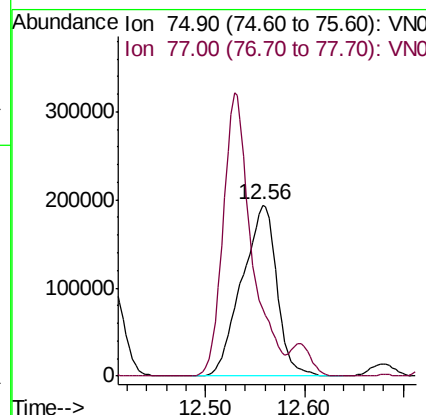
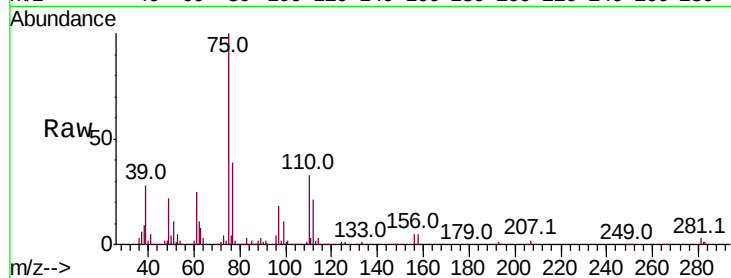




#76
 1,2,3-Trichloropropane
 Concen: 79.128 ug/l
 RT: 12.56 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

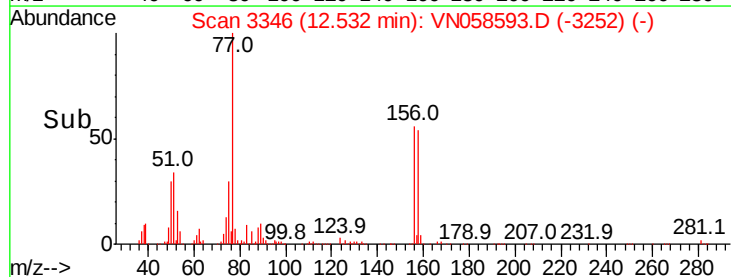
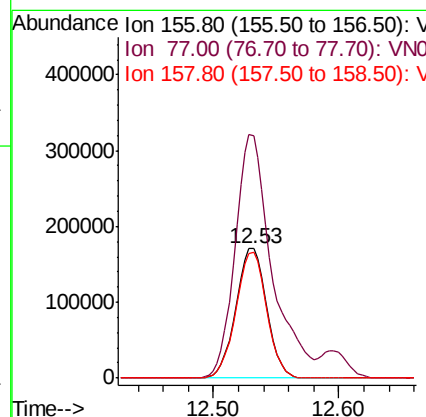
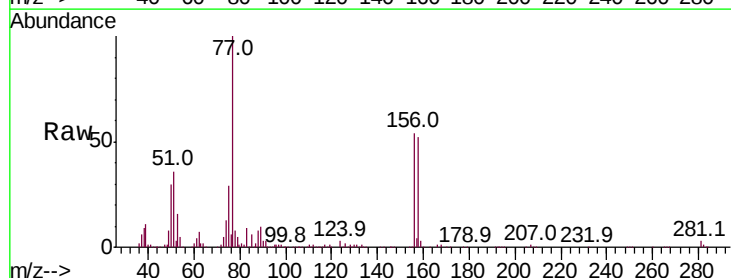
Instrument :
 MSVOA_N
 ClientSampleId :

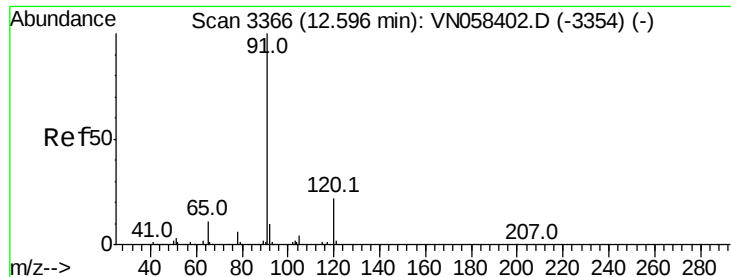
Tot Ion: 75 Resp: 474014
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#77
 Bromobenzene
 Concen: 51.325 ug/l
 RT: 12.53 min Scan# 3346
 Delta R.T. 0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

Tgt Ion: 156 Resp: 291692
 Ion Ratio Lower Upper
 156 100
 77 223.2 110.0 330.0
 158 97.0 47.9 143.8





#78

n-propylbenzene

Concen: 51.710 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

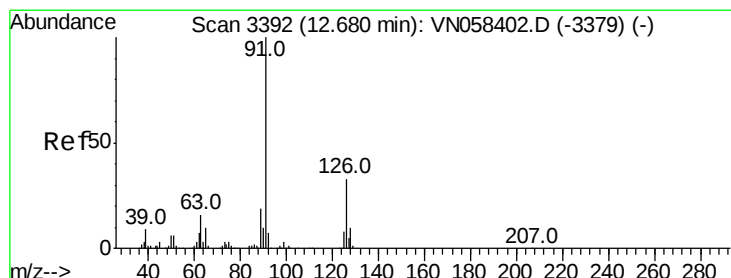
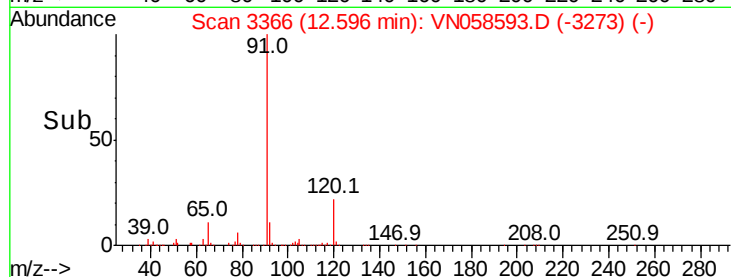
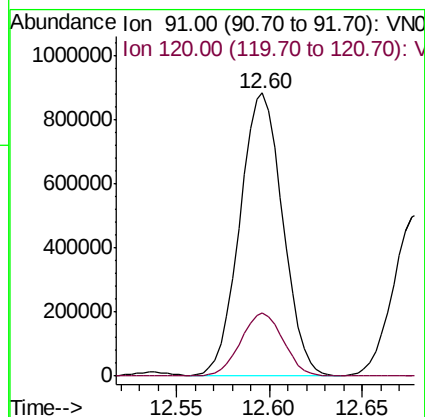
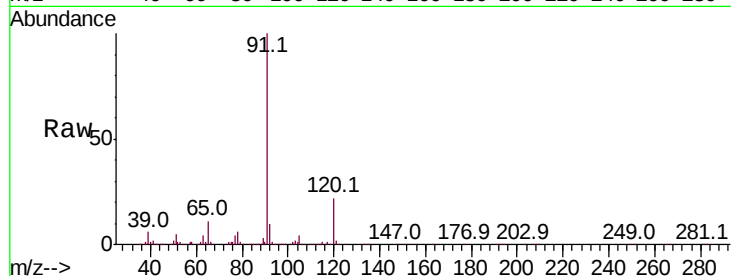
ClientSampled :

Tot Ion: 91 Resp: 1412040

Ion Ratio Lower Upper

91 100

120 22.2 10.9 32.9



#79

2-Chlorotoluene

Concen: 50.187 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058593.D

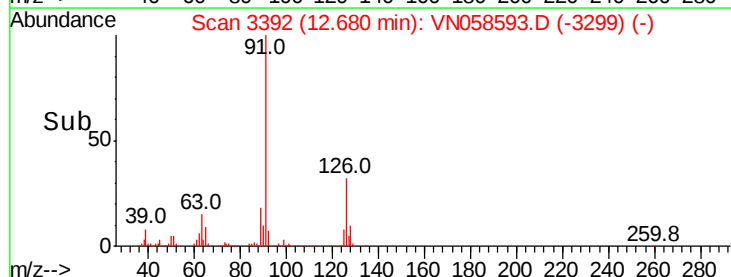
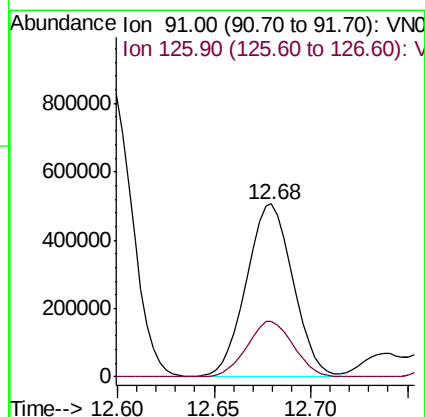
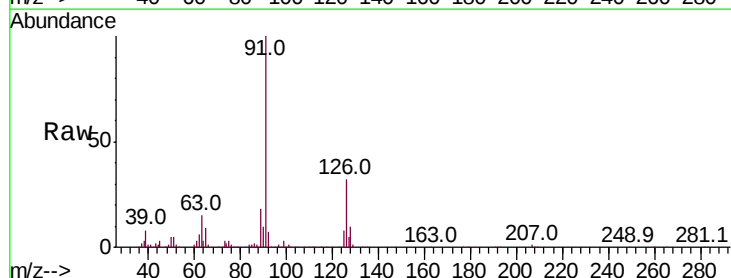
Acq: 8 Oct 2019 1:14

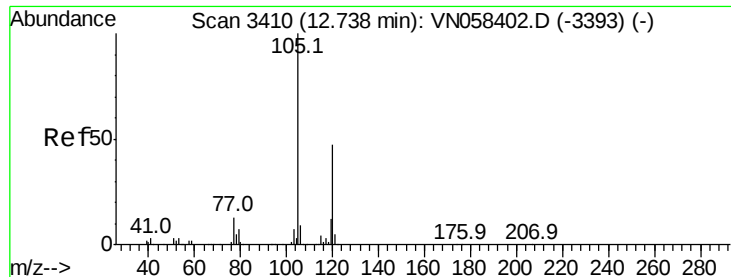
Tgt Ion: 91 Resp: 845890

Ion Ratio Lower Upper

91 100

126 32.3 16.2 48.6





#80

1,3,5-Trimethylbenzene

Concen: 51.071 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

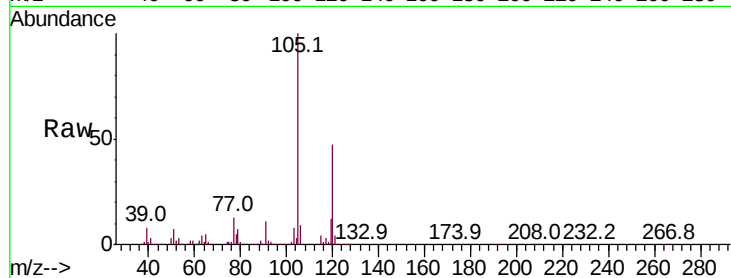
ClientSampleId :

Tot Ion:105 Resp: 1036209

Ion Ratio Lower Upper

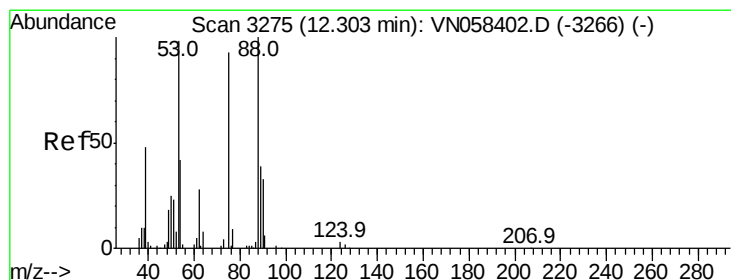
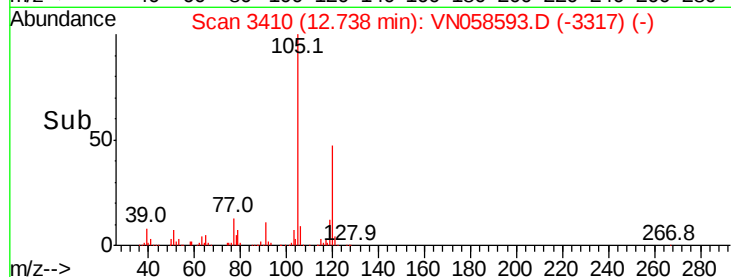
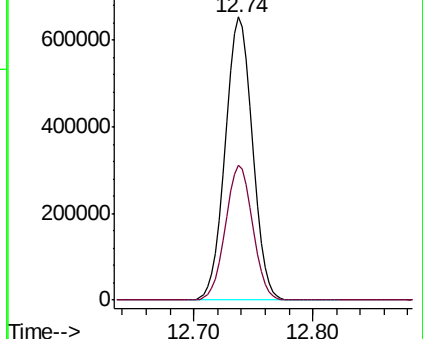
105 100

120 47.6 23.5 70.6



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: 54.248 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

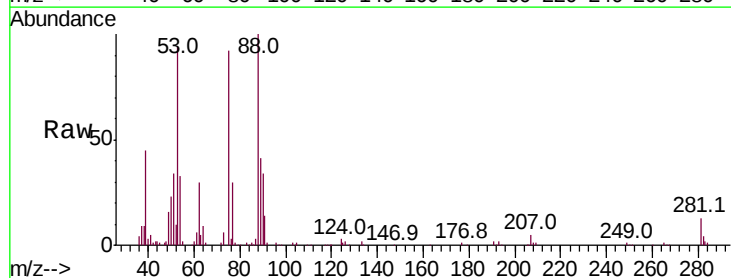
Tgt Ion: 75 Resp: 107000

Ion Ratio Lower Upper

75 100

53 99.4 85.4 128.0

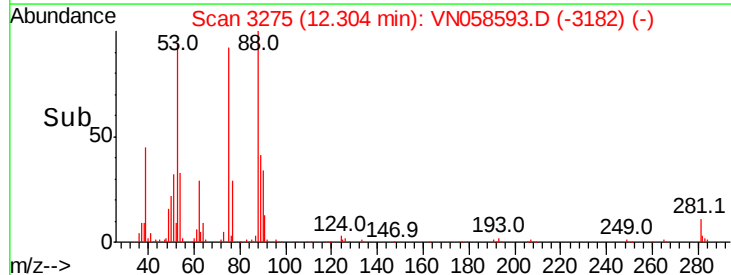
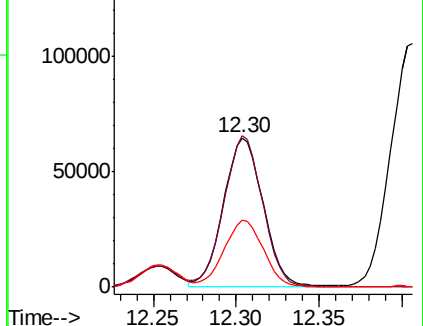
89 45.1 35.0 52.4

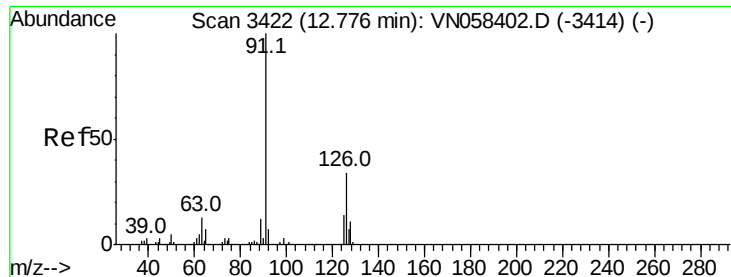


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

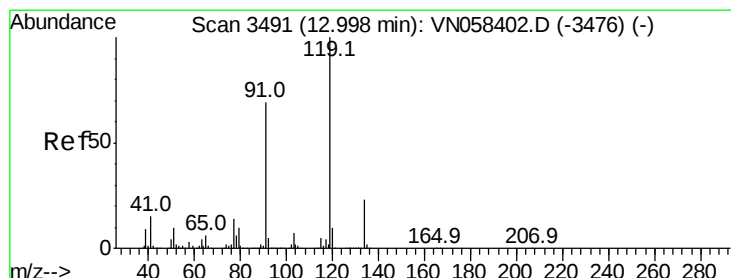
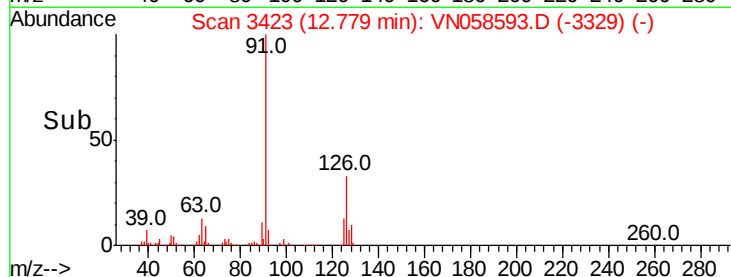
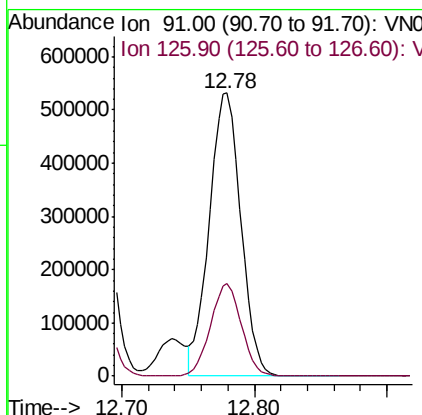
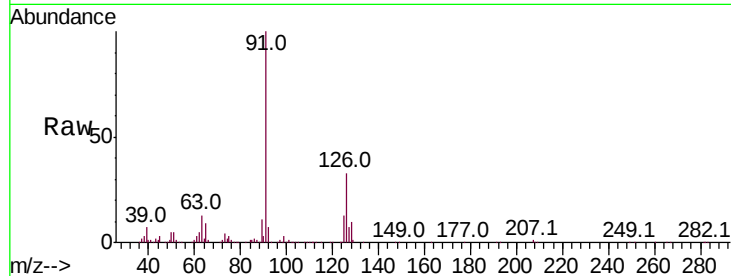




#82
4-Chlorotoluene
Concen: 51.040 ug/l
RT: 12.78 min Scan# 3423
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

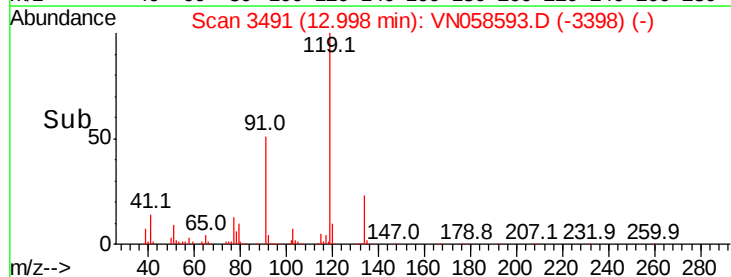
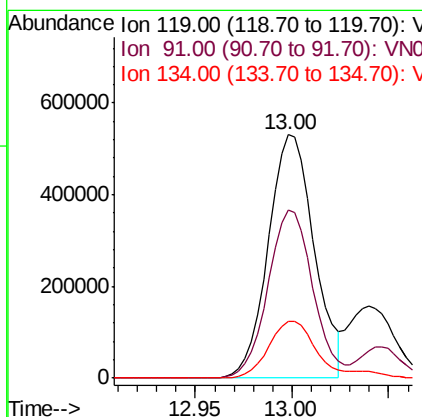
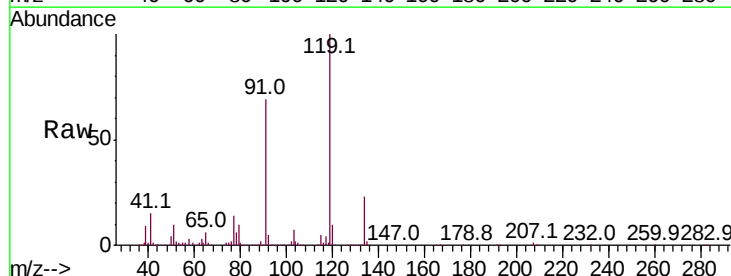
Instrument :
MSVOA_N
ClientSampleId :

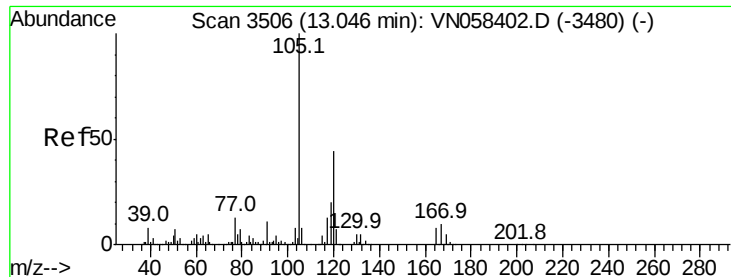
Tot Ion: 91 Resp: 877813
Ion Ratio Lower Upper
91 100
126 32.1 15.9 47.7



#83
tert-Butylbenzene
Concen: 51.269 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058593.D
Acq: 8 Oct 2019 1:14

Tgt Ion: 119 Resp: 877767
Ion Ratio Lower Upper
119 100
91 67.1 34.2 102.6
134 25.7 11.6 34.8





#84

1,2,4-Trimethylbenzene

Concen: 51.483 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

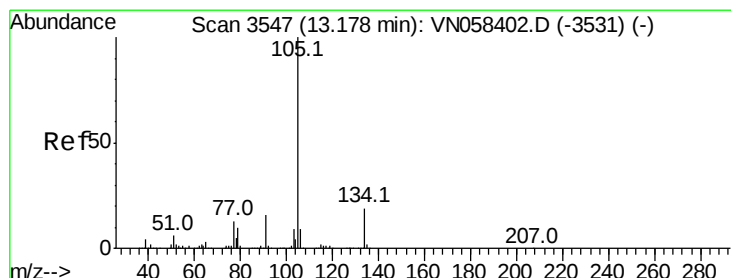
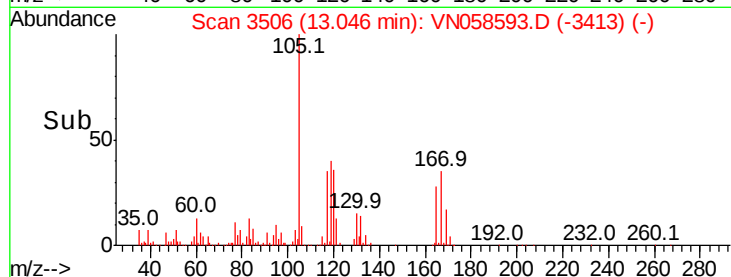
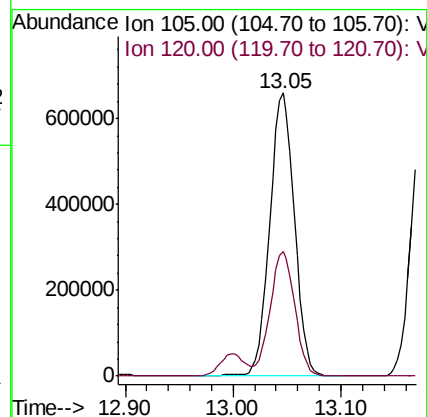
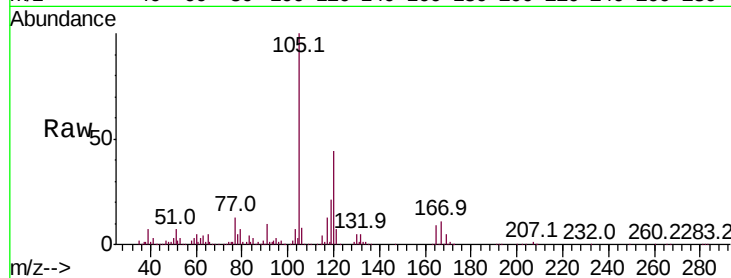
ClientSampled :

Tot Ion:105 Resp: 1046563

Ion Ratio Lower Upper

105 100

120 44.1 21.7 65.1



#85

sec-Butylbenzene

Concen: 51.450 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058593.D

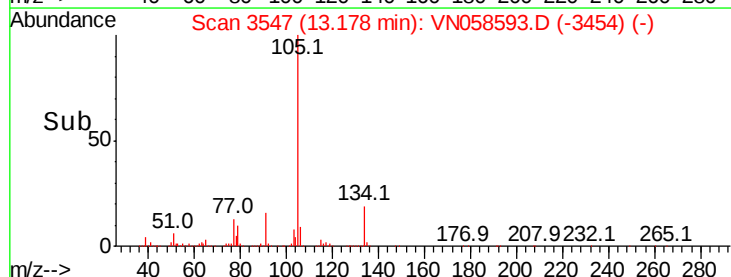
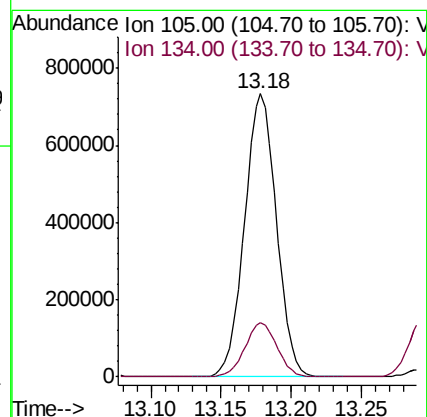
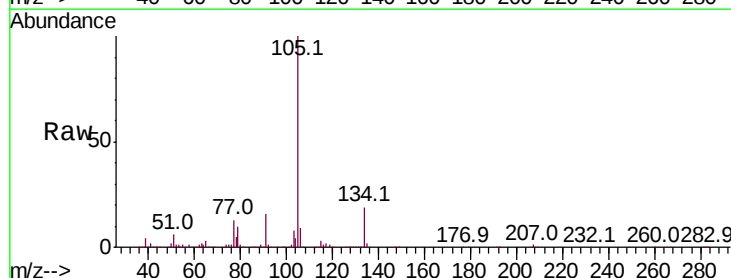
Acq: 8 Oct 2019 1:14

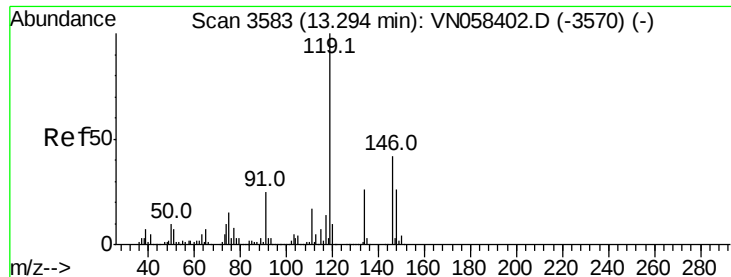
Tgt Ion:105 Resp: 1159393

Ion Ratio Lower Upper

105 100

134 19.2 9.4 28.2





#86

p-Isopropyltoluene

Concen: 52.170 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

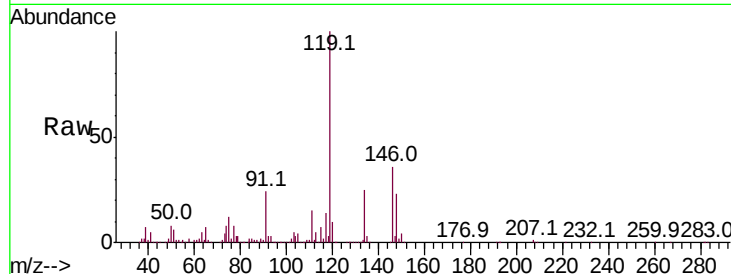
Tot Ion:119 Resp: 1034832

Ion Ratio Lower Upper

119 100

134 25.5 13.0 39.0

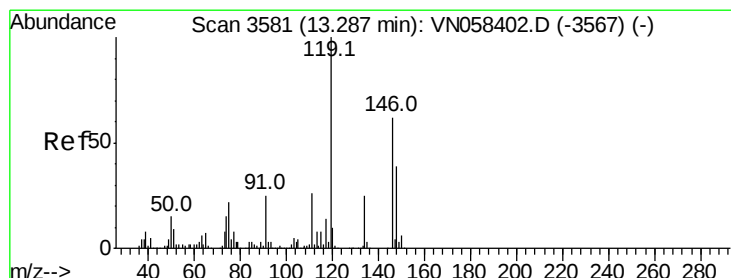
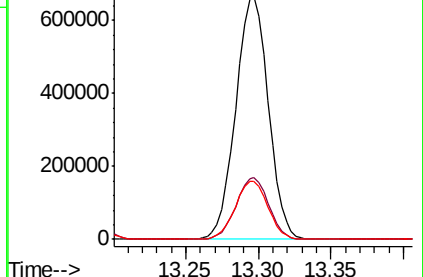
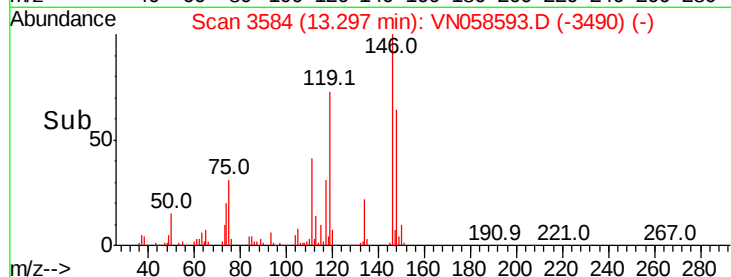
91 24.2 12.4 37.0



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



#87

1,3-Dichlorobenzene

Concen: 50.751 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

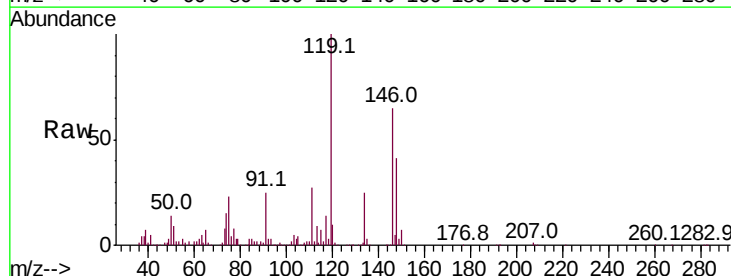
Tgt Ion:146 Resp: 523009

Ion Ratio Lower Upper

146 100

111 41.9 20.8 62.4

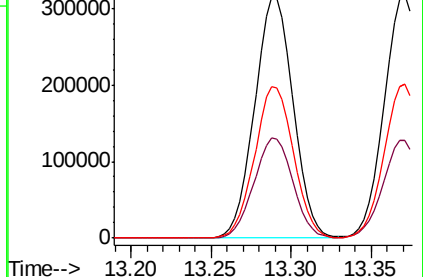
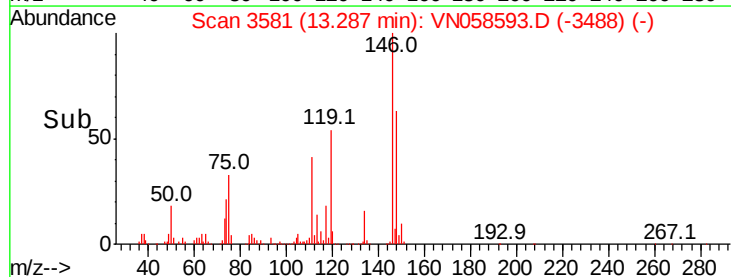
148 63.4 31.4 94.3

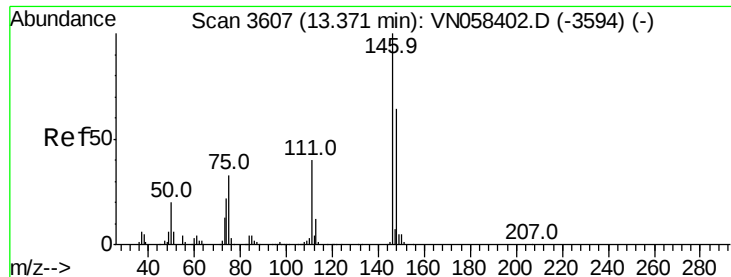


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

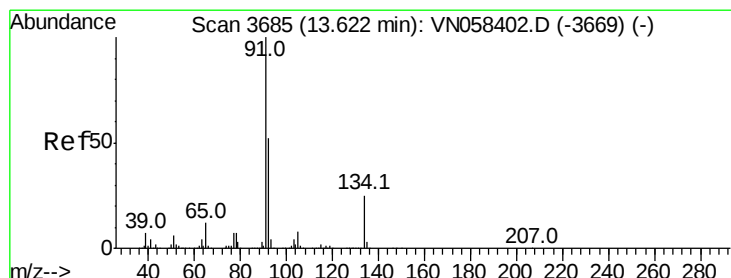
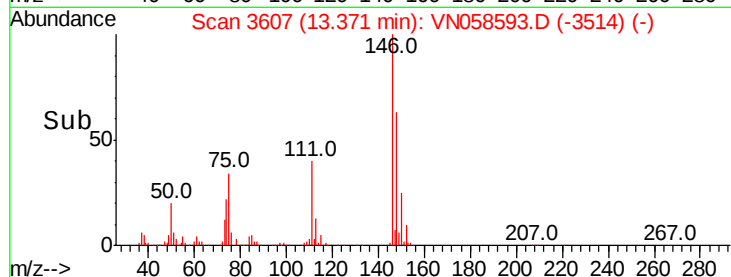
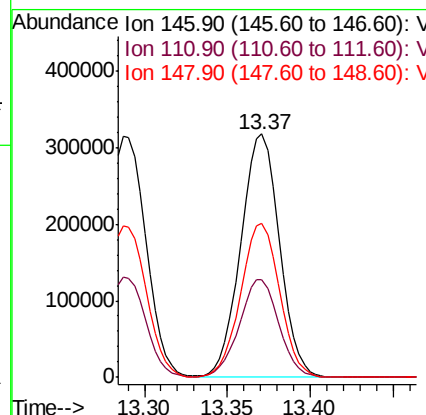
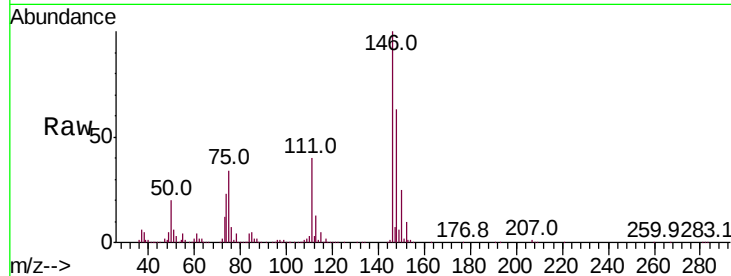




#88
 1,4-Dichlorobenzene
 Concen: 50.368 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

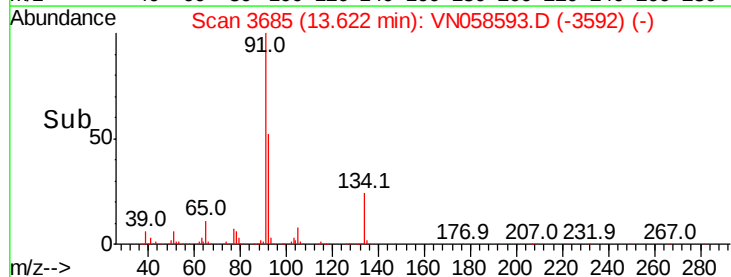
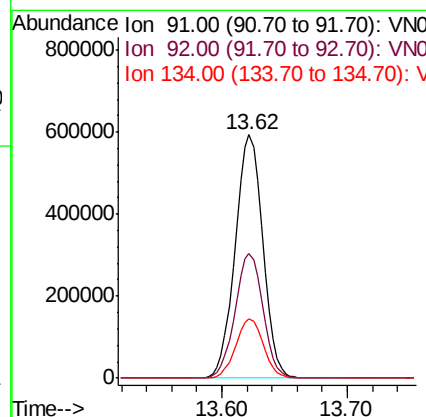
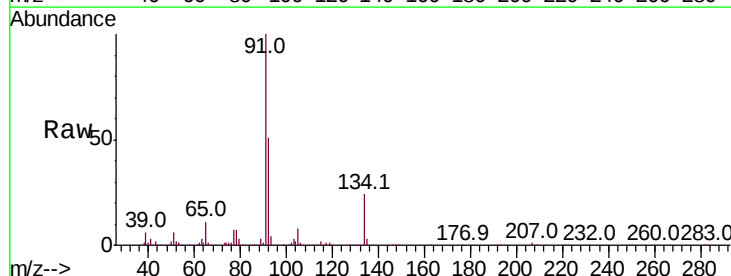
Instrument :
 MSVOA_N
 ClientSampled :

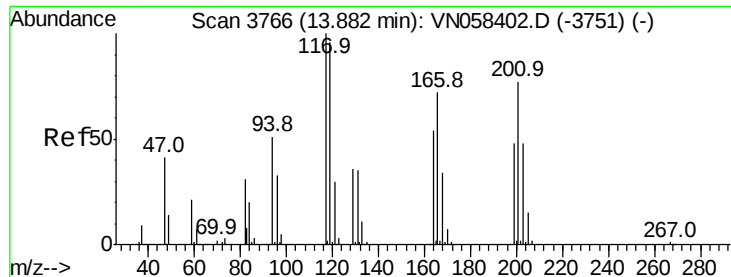
Tot Ion:146 Resp: 516430
 Ion Ratio Lower Upper
 146 100
 111 40.9 20.5 61.6
 148 63.8 31.5 94.5



#89
 n-Butylbenzene
 Concen: 50.422 ug/l
 RT: 13.62 min Scan# 3685
 Delta R.T. 0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

Tgt Ion: 91 Resp: 905983
 Ion Ratio Lower Upper
 91 100
 92 51.8 25.7 77.1
 134 24.5 12.2 36.6





#90

Hexachloroethane

Concen: 60.880 ug/l

RT: 13.88 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

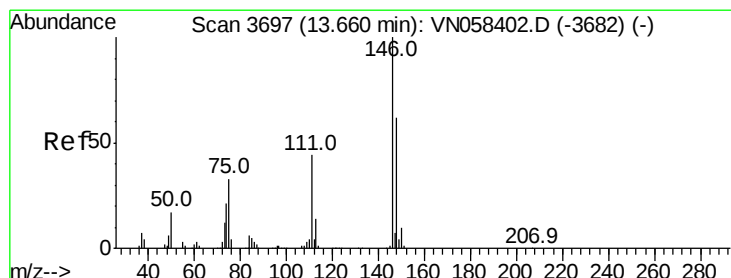
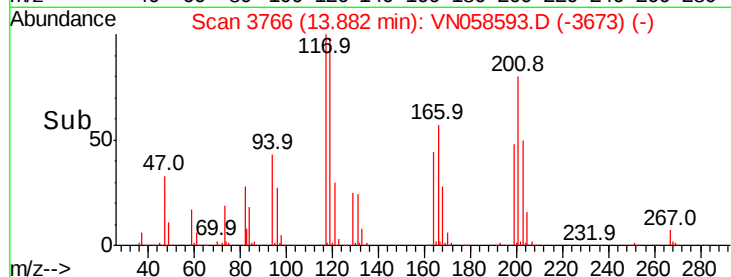
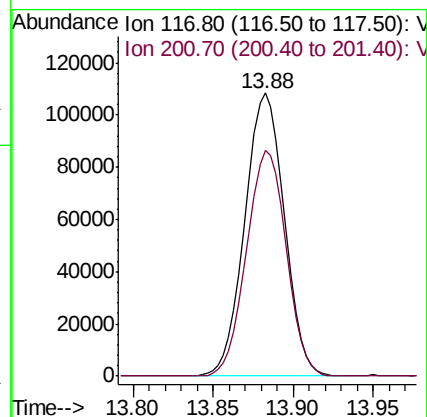
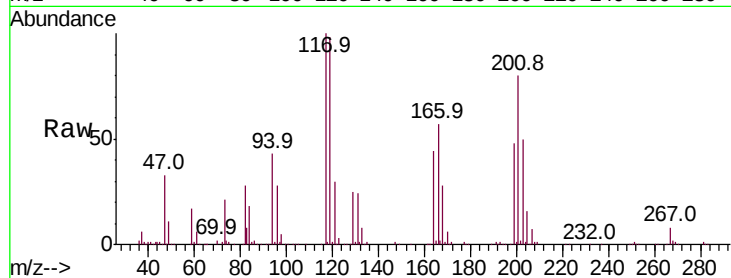
ClientSampled :

Tot Ion:117 Resp: 181439

Ion Ratio Lower Upper

117 100

201 80.6 38.6 116.0



#91

1,2-Dichlorobenzene

Concen: 52.410 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

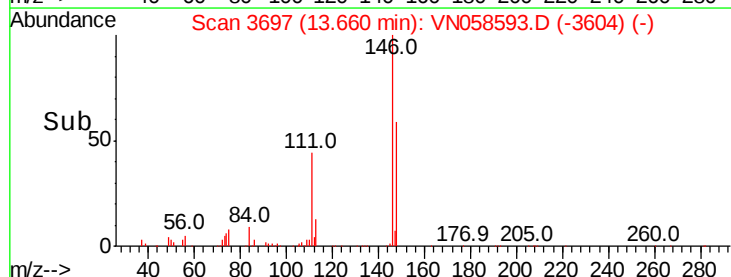
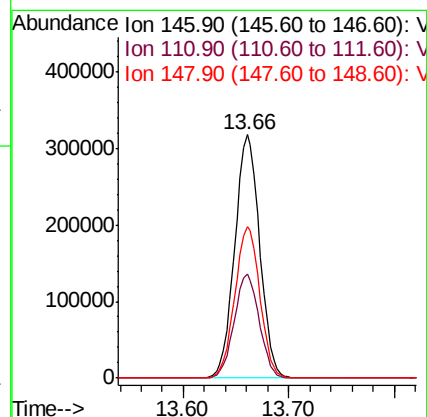
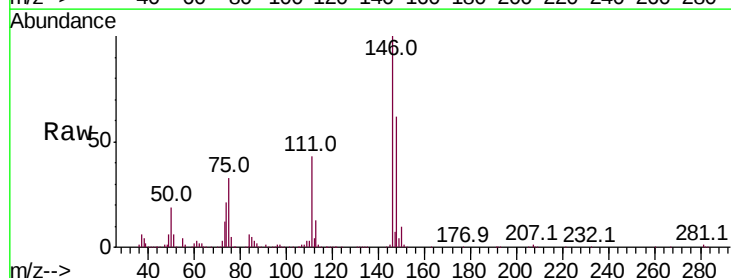
Tgt Ion:146 Resp: 518951

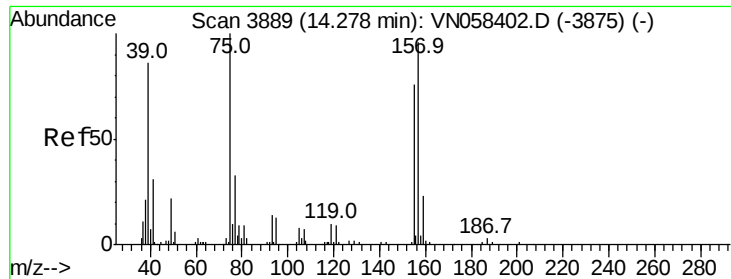
Ion Ratio Lower Upper

146 100

111 43.0 21.8 65.3

148 62.5 31.5 94.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 59.164 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampleId :

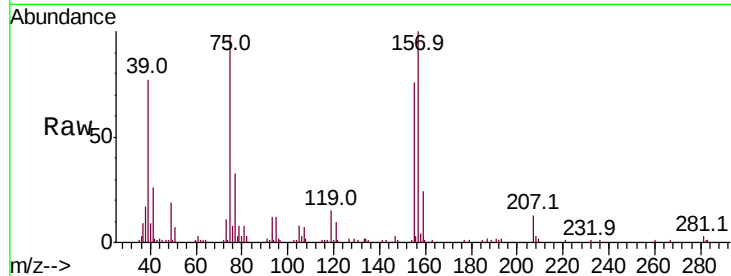
Tot Ion: 75 Resp: 74777

Ion Ratio Lower Upper

75 100

155 76.7 39.2 117.6

157 98.2 48.7 146.1



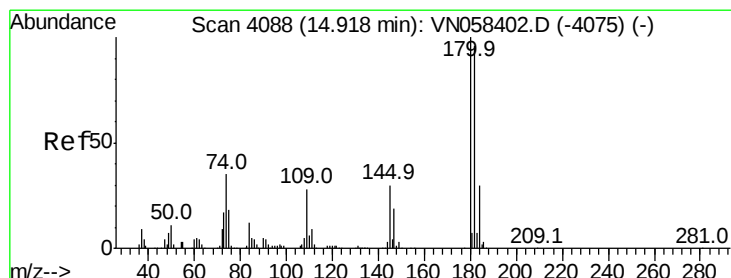
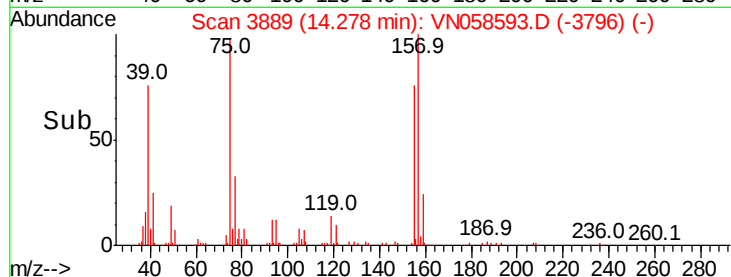
Abundance Ion 74.90 (74.60 to 75.60): VN058402.D (-3875) (-)

Ion 154.80 (154.50 to 155.50): VN058402.D (-3875) (-)

Ion 156.80 (156.50 to 157.50): VN058402.D (-3875) (-)

14.28

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 54.852 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

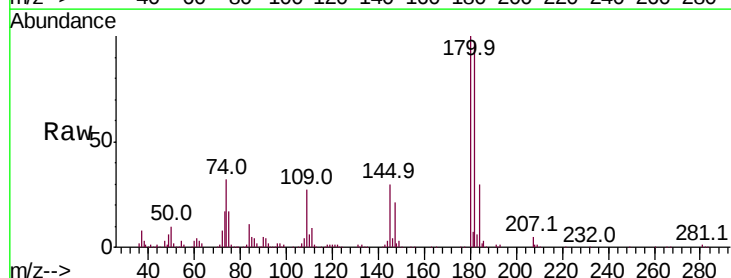
Tgt Ion: 180 Resp: 300126

Ion Ratio Lower Upper

180 100

182 96.0 47.4 142.3

145 30.8 15.3 45.9



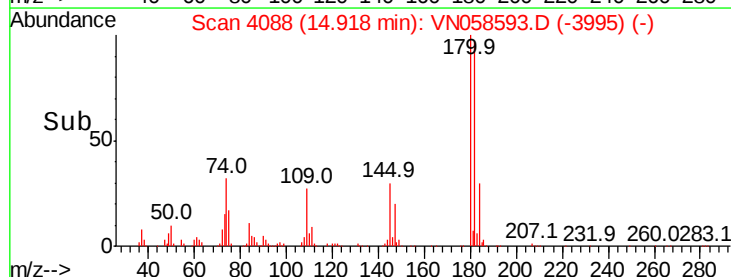
Abundance Ion 179.80 (179.50 to 180.50): VN058402.D (-4075) (-)

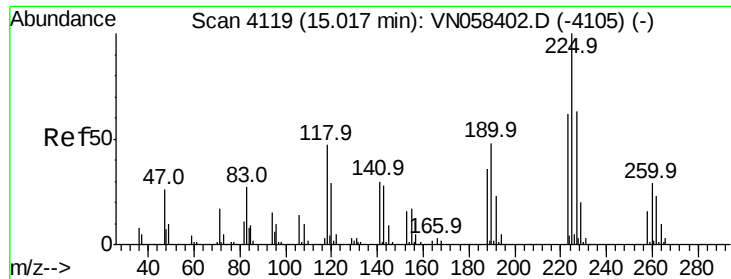
Ion 181.80 (181.50 to 182.50): VN058402.D (-4075) (-)

Ion 144.80 (144.50 to 145.50): VN058402.D (-4075) (-)

14.92

Time-->





#94

Hexachlorobutadiene

Concen: 49.827 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

Instrument :

MSVOA_N

ClientSampled :

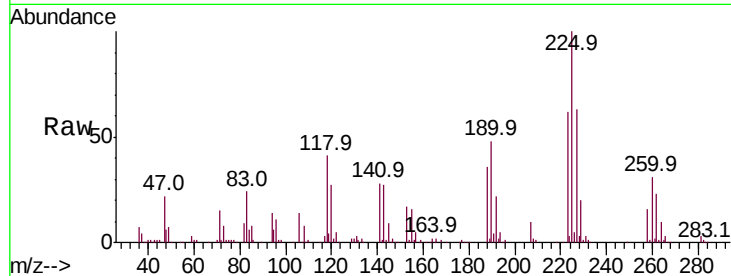
Tot Ion:225 Resp: 140129

Ion Ratio Lower Upper

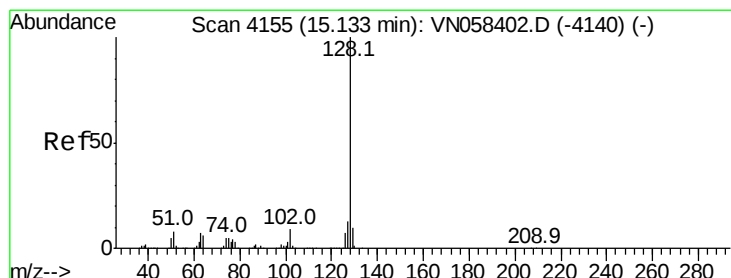
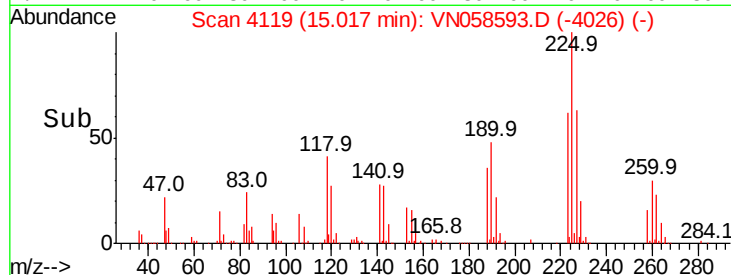
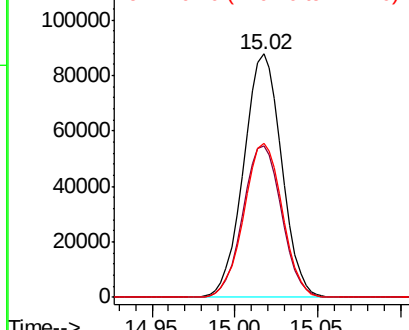
225 100

223 63.5 31.1 93.5

227 64.1 31.4 94.2



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



#95

Naphthalene

Concen: 54.246 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058593.D

Acq: 8 Oct 2019 1:14

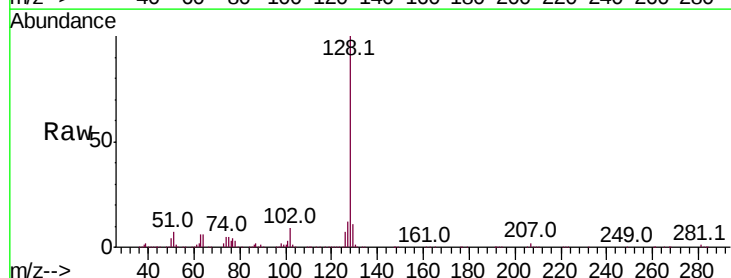
Tgt Ion:128 Resp: 869182

Ion Ratio Lower Upper

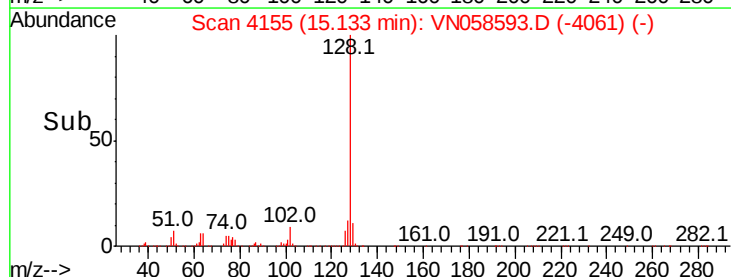
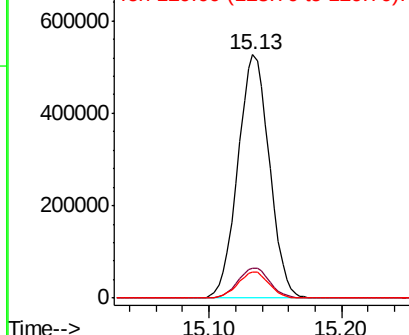
128 100

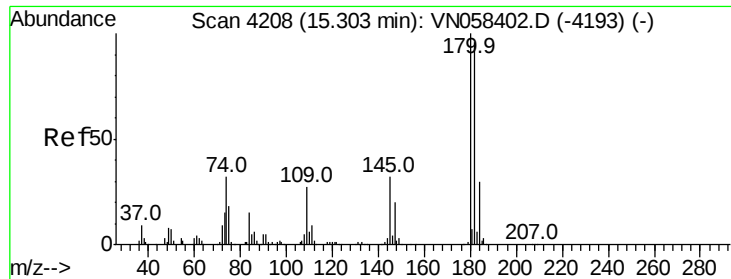
127 12.6 10.2 15.4

129 10.7 8.3 12.5



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

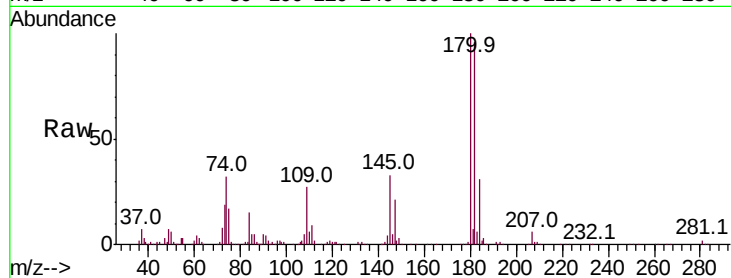




#96
 1,2,3-Trichlorobenzene
 Concen: 52.489 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. -0.00 min
 Lab File: VN058593.D
 Acq: 8 Oct 2019 1:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Resp	Lower	Upper
180	100	287928		
182	96.1	48.3	144.9	
145	32.8	16.1	48.3	



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

