

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102119\
 Data File : VN058883.D
 Acq On : 21 Oct 2019 13:17
 Operator : JC/SP
 Sample : K5452-08MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-MMW0422MSD

Quant Time: Oct 22 03:18:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	451360	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	732168	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	677908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	316146	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	323791	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.57	113	236330	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
50) Toluene-d8	10.08	98	913322	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	
62) 4-Bromofluorobenzene	12.40	95	335680	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	264059	46.923	ug/l	97
3) Chloromethane	2.04	50	331884	47.617	ug/l	100
4) Vinyl Chloride	2.17	62	343018	49.567	ug/l	99
5) Bromomethane	2.54	94	208189	48.041	ug/l	98
6) Chloroethane	2.68	64	209440	47.194	ug/l	97
7) Trichlorofluoromethane	3.00	101	408620	47.721	ug/l	99
8) Diethyl Ether	3.39	74	150221	50.767	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	216934	45.699	ug/l	99
10) Methyl Iodide	3.93	142	308748	49.452	ug/l	100
11) Tert butyl alcohol	4.76	59	260961	237.552	ug/l	100
12) 1,1-Dichloroethene	3.72	96	218265	49.053	ug/l	96
13) Acrolein	3.58	56	185383	245.600	ug/l	99
14) Allyl chloride	4.30	41	454649	50.495	ug/l	98
15) Acrylonitrile	4.96	53	703395	254.550	ug/l	99
16) Acetone	3.79	43	621335	189.943	ug/l	100
17) Carbon Disulfide	4.03	76	681155	47.523	ug/l	100
18) Methyl Acetate	4.30	43	343583	46.199	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	811528	52.086	ug/l	99
20) Methylene Chloride	4.53	84	266343	47.684	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	243545	49.562	ug/l	96
22) Diisopropyl ether	5.93	45	912122	51.792	ug/l	96
23) Vinyl Acetate	5.87	43	3903090	275.850	ug/l	100
24) 1,1-Dichloroethane	5.82	63	494857	48.459	ug/l	100
25) 2-Butanone	6.81	43	975811	229.802	ug/l	98
26) 2,2-Dichloropropane	6.80	77	420353	47.590	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	281895	50.218	ug/l	99
28) Bromochloromethane	7.18	49	164946	48.500	ug/l	98
29) Tetrahydrofuran	7.19	42	653720	251.662	ug/l	99
30) Chloroform	7.35	83	484662	47.314	ug/l	98
31) Cyclohexane	7.63	56	444245	46.697	ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	423355	49.033	ug/l	99
36) 1,1-Dichloropropene	7.77	75	369364	49.276	ug/l	100
37) Ethyl Acetate	6.90	43	440787	53.967	ug/l	99
38) Carbon Tetrachloride	7.76	117	365543	47.337	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	412273	48.982	ug/l	99
40) Benzene	8.02	78	1081760	49.145	ug/l	99
41) Methacrylonitrile	7.18	41	590658	162.371	ug/l #	100
42) 1,2-Dichloroethane	8.11	62	406177	47.903	ug/l	99
43) Isopropyl Acetate	8.15	43	658431	50.266	ug/l	100
44) Trichloroethene	8.82	130	261859	48.837	ug/l	99
45) 1,2-Dichloropropane	9.11	63	296656	49.149	ug/l	99
46) Dibromomethane	9.20	93	185858	48.708	ug/l	98
47) Bromodichloromethane	9.39	83	389125	49.479	ug/l	100
48) Methyl methacrylate	9.19	41	305980	51.485	ug/l	99
49) 1,4-Dioxane	9.19	88	91244	935.258	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	2039065	266.506	ug/l	99
52) Toluene	10.15	92	660232	50.580	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	440982	50.652	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	458557	49.300	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	260828	48.505	ug/l	99
56) Ethyl methacrylate	10.43	69	420914	46.742	ug/l	99
57) 1,3-Dichloropropane	10.70	76	463051	49.064	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.71	63	309	5.742	ug/l #	50
59) 2-Hexanone	10.75	43	1531521	259.042	ug/l	99
60) Dibromochloromethane	10.90	129	290717	50.228	ug/l	99
61) 1,2-Dibromoethane	11.00	107	272413	49.503	ug/l	99
64) Tetrachloroethene	10.63	164	229082	48.252	ug/l	99
65) Chlorobenzene	11.43	112	686130	49.715	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	264297	50.748	ug/l	98
67) Ethyl Benzene	11.51	91	1278117	52.792	ug/l	98
68) m/p-Xylenes	11.62	106	938281	104.504	ug/l	100
69) o-Xylene	11.95	106	447933	52.310	ug/l	100
70) Styrene	11.96	104	753206	47.733	ug/l	99
71) Bromoform	12.13	173	206653	51.170	ug/l #	98
73) Isopropylbenzene	12.25	105	1225957	53.062	ug/l	100
74) N-amyl acetate	12.07	43	581785	55.543	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	402652	49.563	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	549203	74.956	ug/l #	100
77) Bromobenzene	12.53	156	288169	50.602	ug/l	98
78) n-propylbenzene	12.59	91	1442646	52.824	ug/l	99
79) 2-Chlorotoluene	12.68	91	852477	51.001	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	1044375	53.801	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	146476	52.079	ug/l	99
82) 4-Chlorotoluene	12.78	91	879285	51.476	ug/l	100
83) tert-Butylbenzene	13.00	119	886968	53.433	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1038740	54.251	ug/l	99
85) sec-Butylbenzene	13.17	105	1181093	53.367	ug/l	99
86) p-Isopropyltoluene	13.29	119	1065144	54.545	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	516207	50.694	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	506500	49.682	ug/l	98
89) n-Butylbenzene	13.62	91	939843	52.392	ug/l	99
90) Hexachloroethane	13.88	117	197129	49.818	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	513522	51.309	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	86879	47.282	ug/l	98

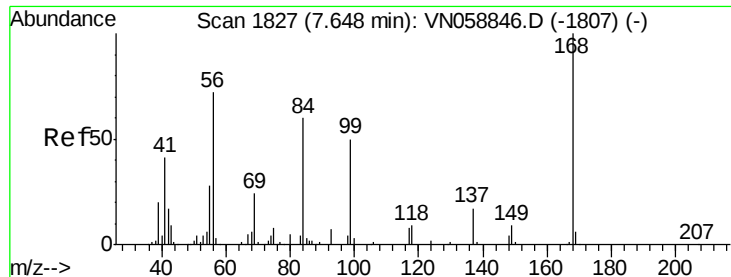
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	290411	46.290	ug/l	99
94) Hexachlorobutadiene	15.01	225	151812	46.799	ug/l	100
95) Naphthalene	15.13	128	848039	46.972	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	281971	46.164	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

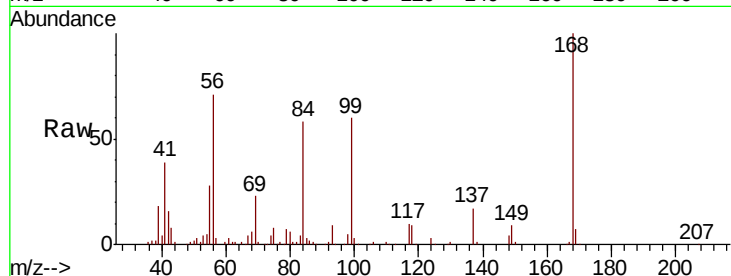
FA19-MMW0422MSD

Tot Ion:168 Resp: 451360

Ion Ratio Lower Upper

168 100

99 60.3 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VN058883.D (-1734) (-)

Ion 98.90 (98.60 to 99.60): VN058883.D (-1734) (-)

7.65

200000

150000

100000

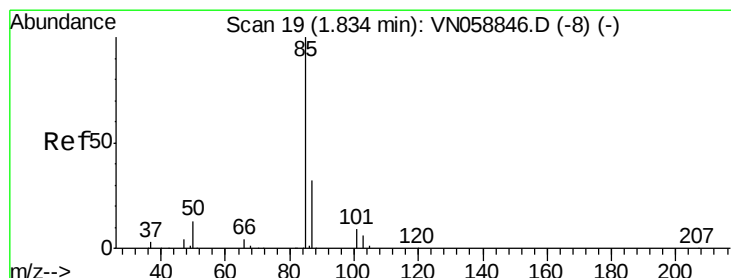
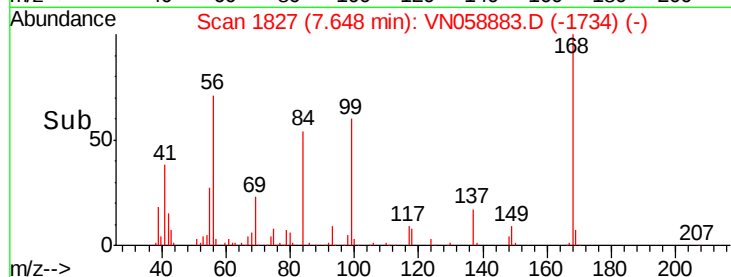
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 46.923 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058883.D

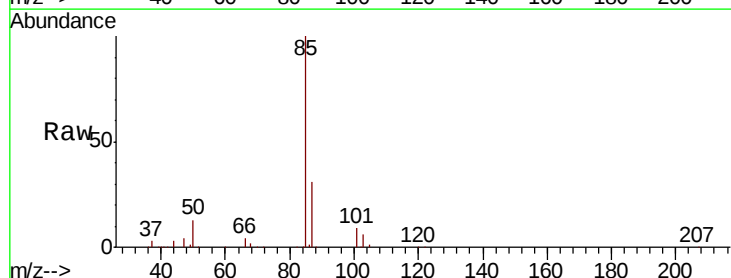
Acq: 21 Oct 2019 13:17

Tgt Ion: 85 Resp: 264059

Ion Ratio Lower Upper

85 100

87 30.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN058883.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN058883.D (-1) (-)

1.83

200000

150000

100000

50000

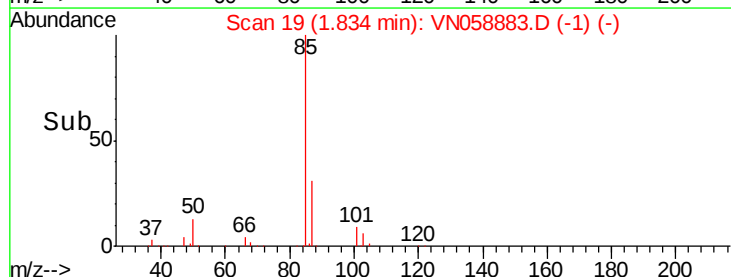
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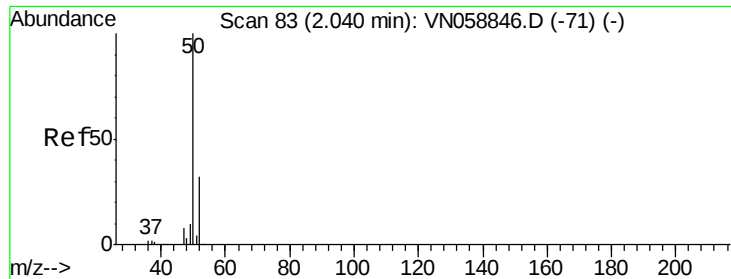
1.80

1.90

2.00

Time-->





#3

Chloromethane

Concen: 47.617 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

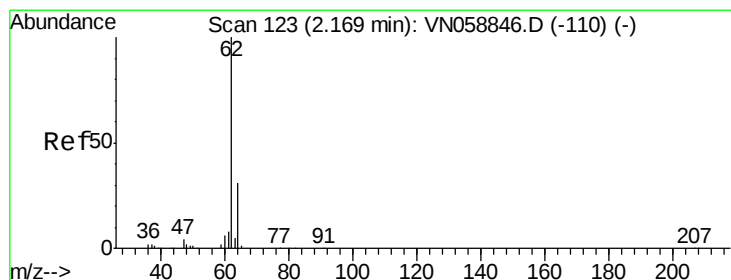
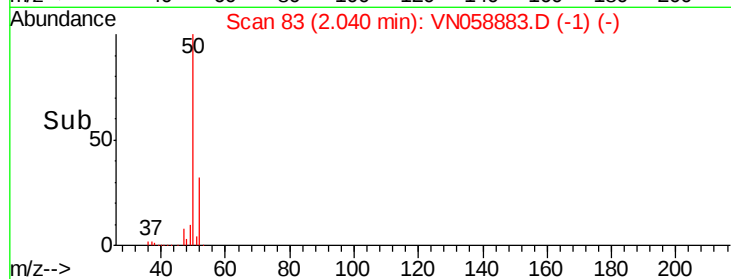
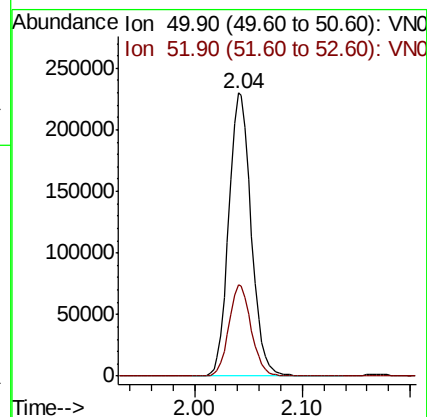
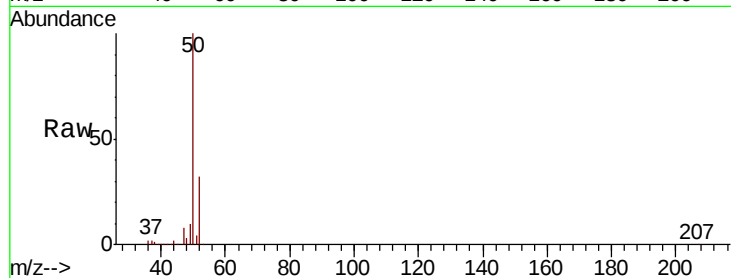
FA19-MMW0422MSD

Tot Ion: 50 Resp: 331884

Ion Ratio Lower Upper

50 100

52 32.2 25.7 38.5



#4

Vinyl Chloride

Concen: 49.567 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058883.D

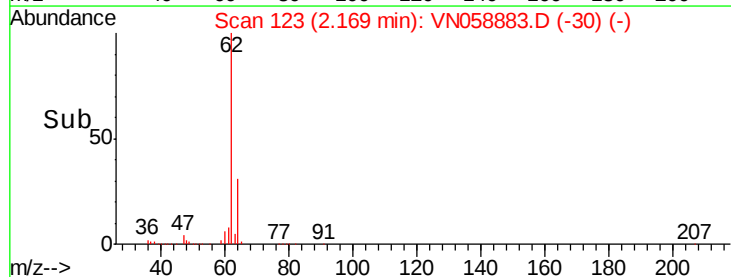
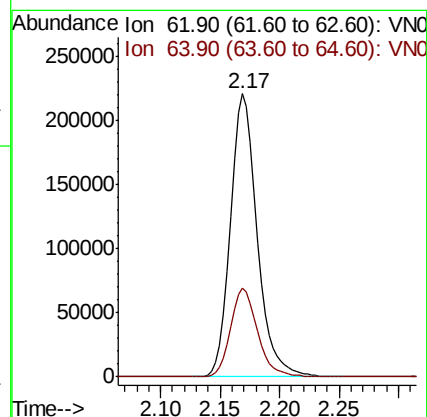
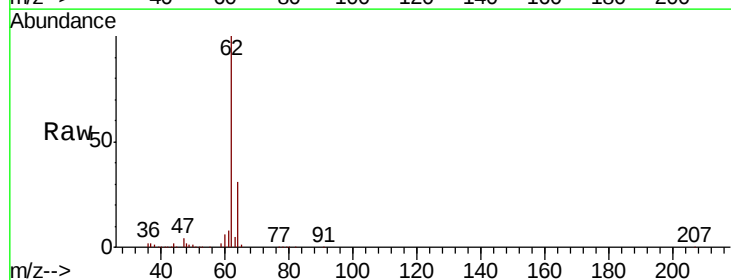
Acq: 21 Oct 2019 13:17

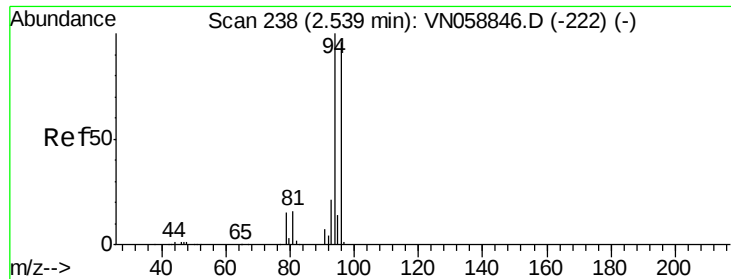
Tgt Ion: 62 Resp: 343018

Ion Ratio Lower Upper

62 100

64 31.3 24.6 36.8





#5

Bromomethane

Concen: 48.041 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

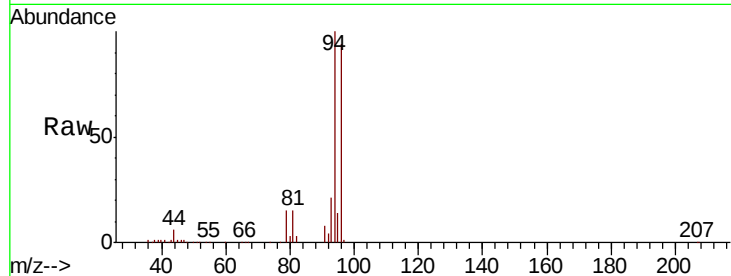
FA19-MMW0422MSD

Tot Ion: 94 Resp: 208189

Ion Ratio Lower Upper

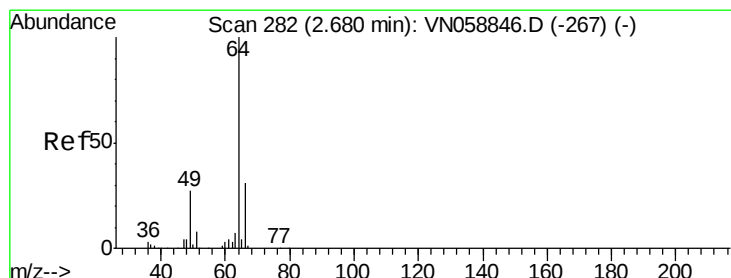
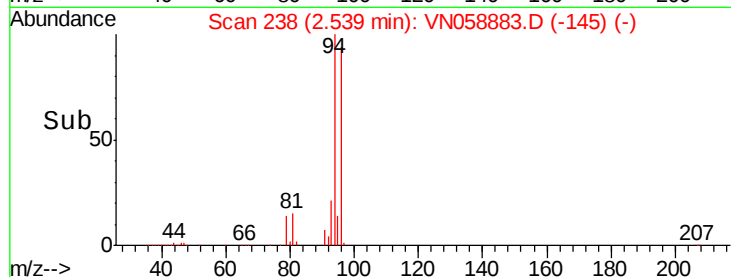
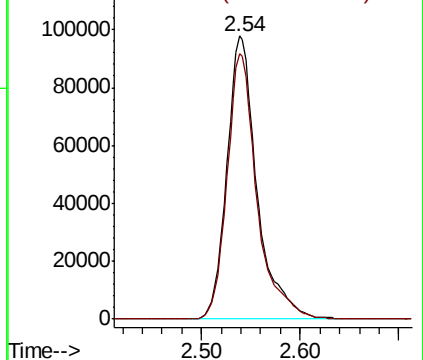
94 100

96 93.9 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 47.194 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058883.D

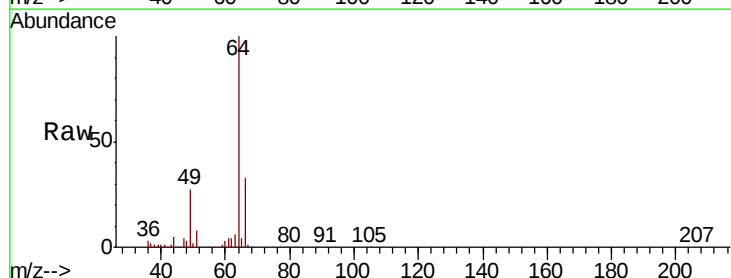
Acq: 21 Oct 2019 13:17

Tgt Ion: 64 Resp: 209440

Ion Ratio Lower Upper

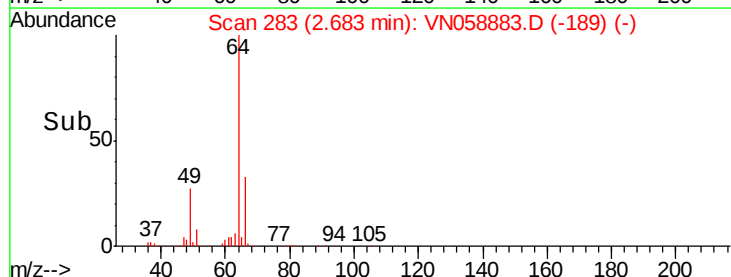
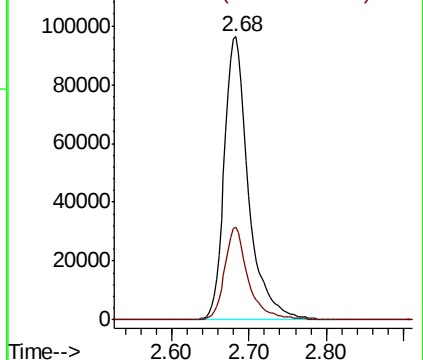
64 100

66 32.9 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



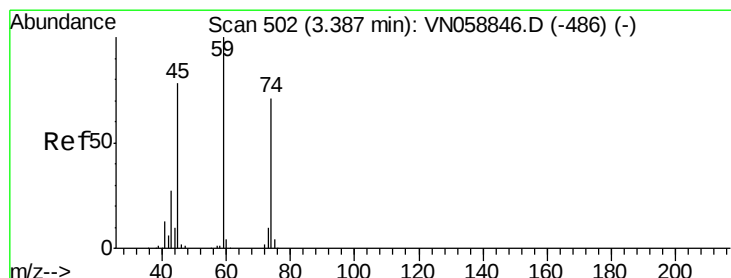
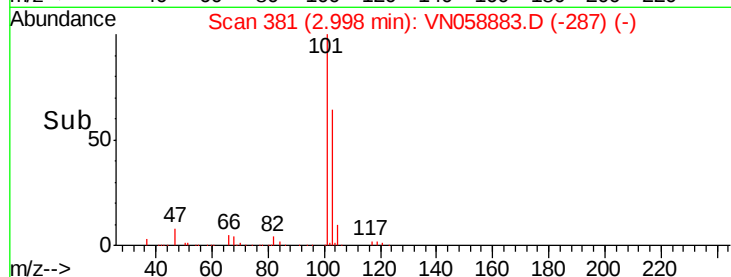
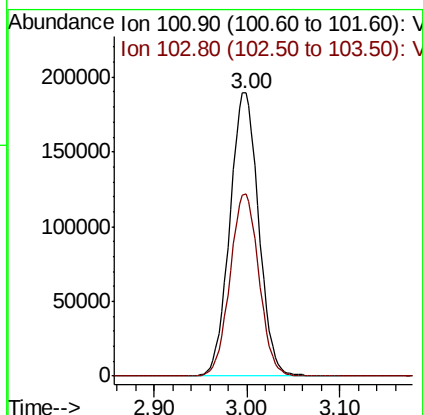
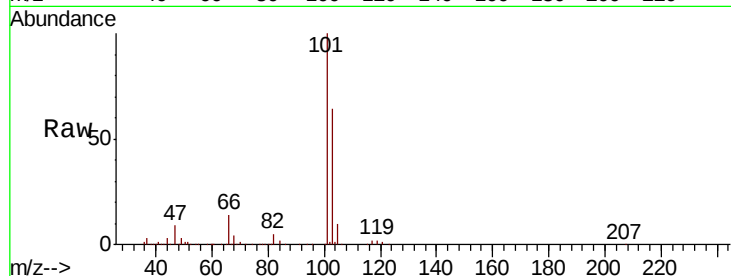


#7

Trichlorofluoromethane
Concen: 47.721 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

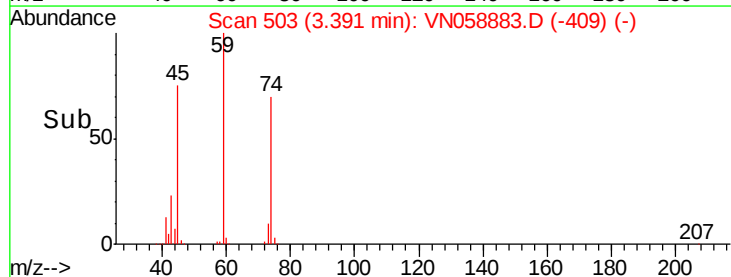
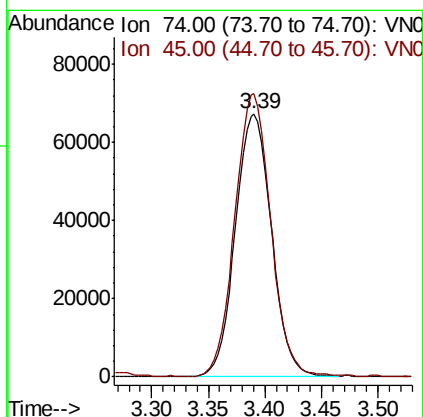
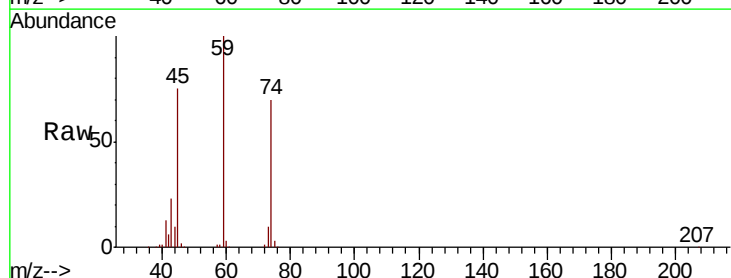
Tot Ion:101 Resp: 408620
Ion Ratio Lower Upper
101 100
103 64.3 52.2 78.2

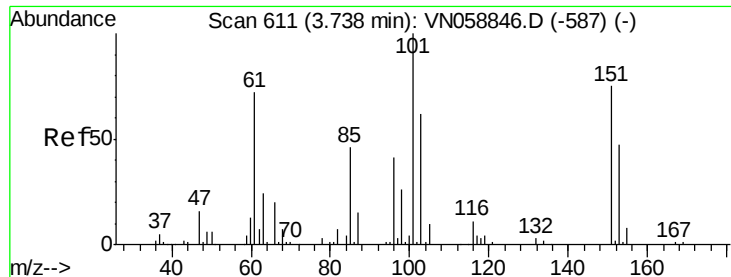


#8

Diethyl Ether
Concen: 50.767 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 74 Resp: 150221
Ion Ratio Lower Upper
74 100
45 106.5 54.9 164.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.699 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

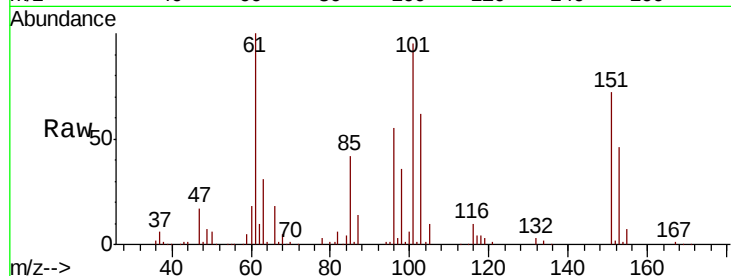
Tot Ion:101 Resp: 216934

Ion Ratio Lower Upper

101 100

85 46.3 37.2 55.8

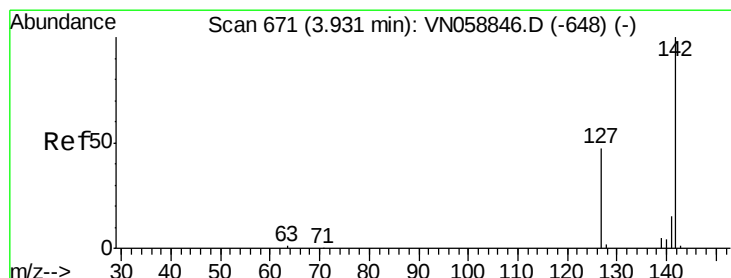
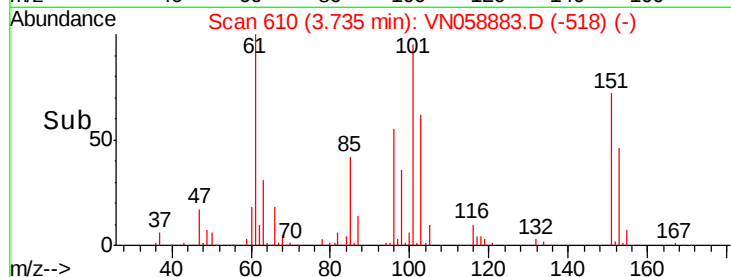
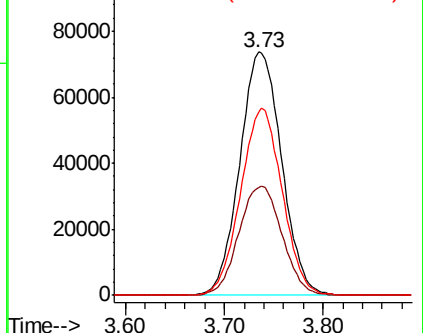
151 76.3 59.9 89.9



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: 49.452 ug/l

RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

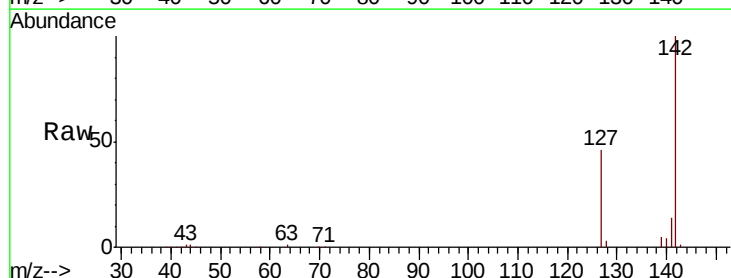
Tgt Ion:142 Resp: 308748

Ion Ratio Lower Upper

142 100

127 45.7 36.6 54.8

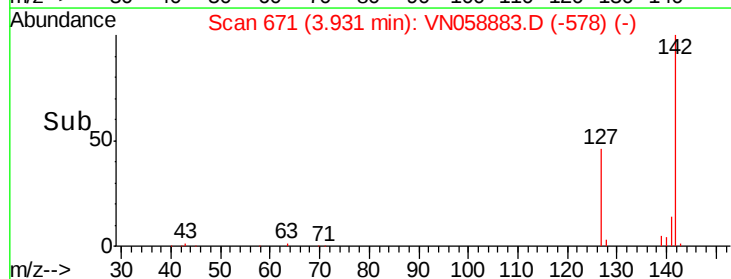
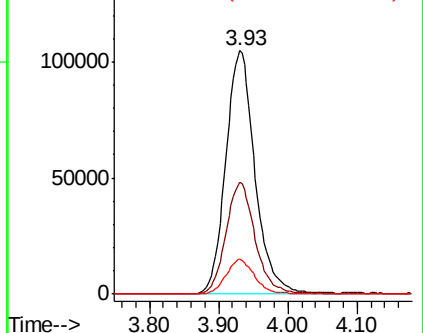
141 14.0 11.4 17.2

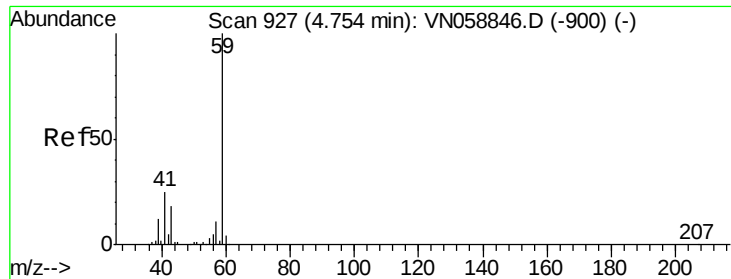


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



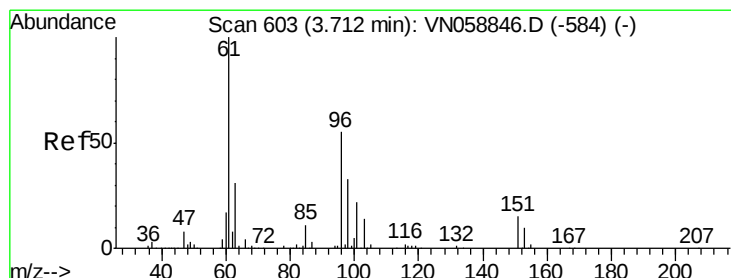
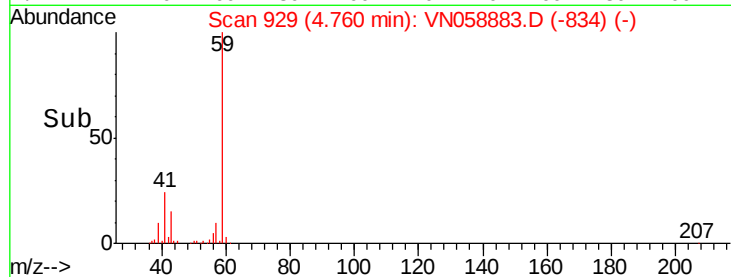
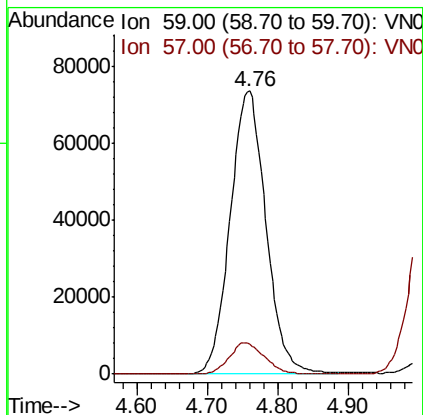
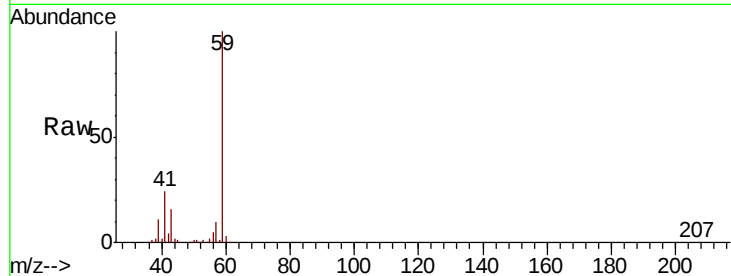


#11

Tert butyl alcohol
 Concen: 237.552 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-MMW0422MSD

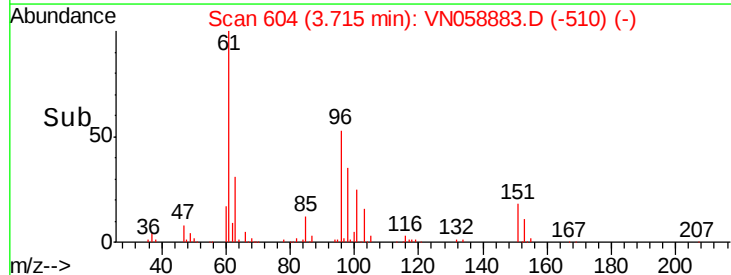
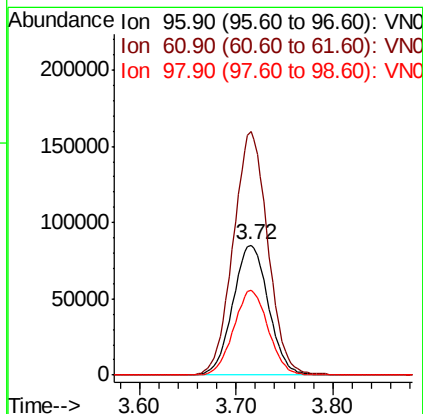
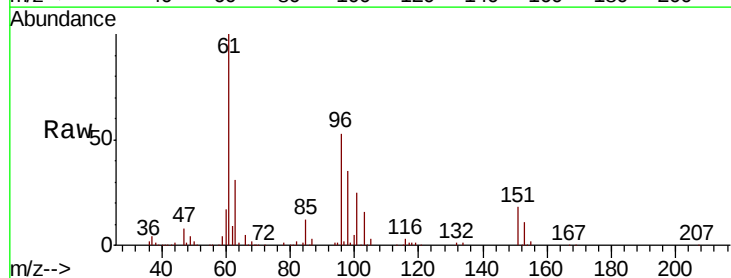
Tot Ion: 59 Resp: 260961
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.6 12.8

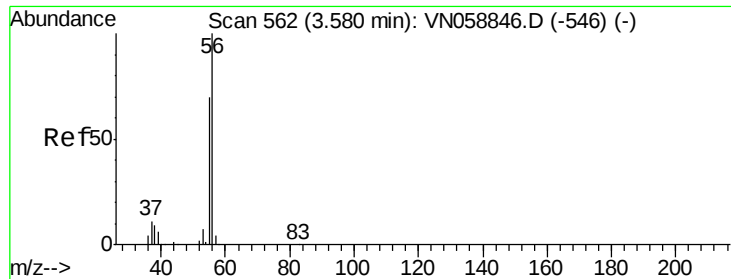


#12

1,1-Dichloroethene
 Concen: 49.053 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Tgt Ion: 96 Resp: 218265
 Ion Ratio Lower Upper
 96 100
 61 187.1 146.2 219.2
 98 65.2 48.7 73.1





#13

Acrolein

Concen: 245.600 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

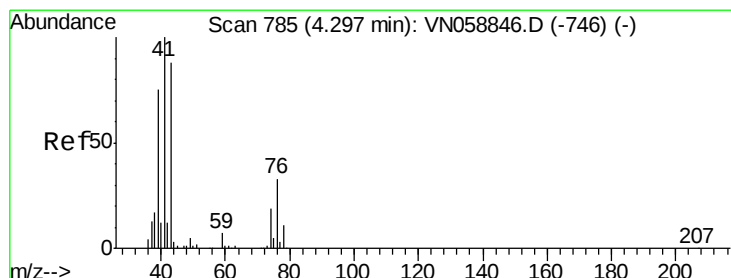
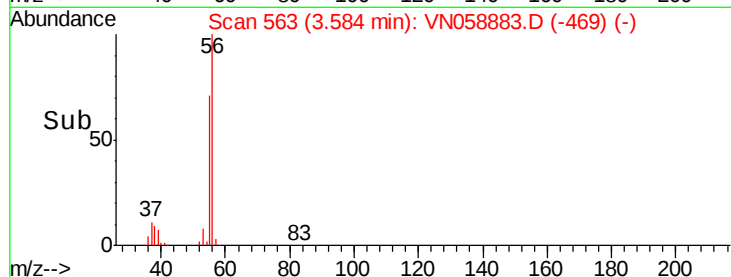
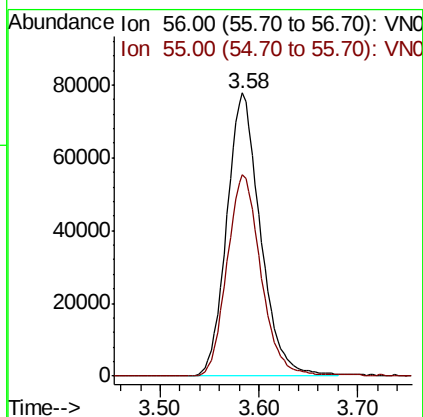
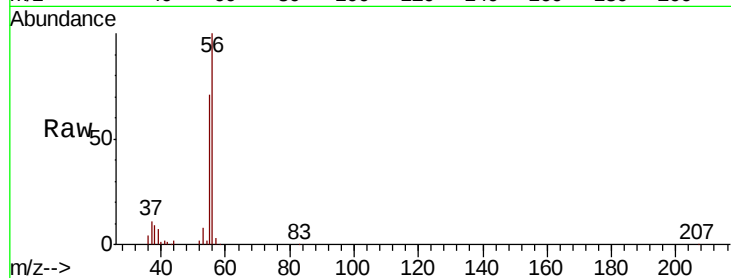
FA19-MMW0422MSD

Tot Ion: 56 Resp: 185383

Ion Ratio Lower Upper

56 100

55 71.6 56.6 85.0



#14

Allyl chloride

Concen: 50.495 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

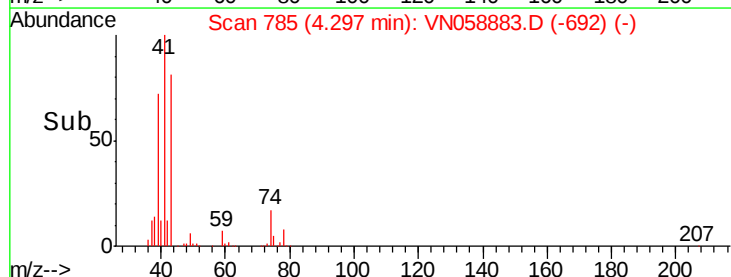
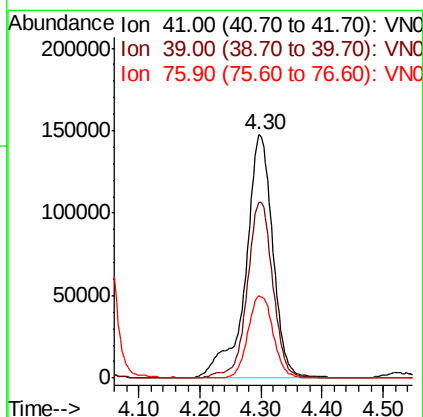
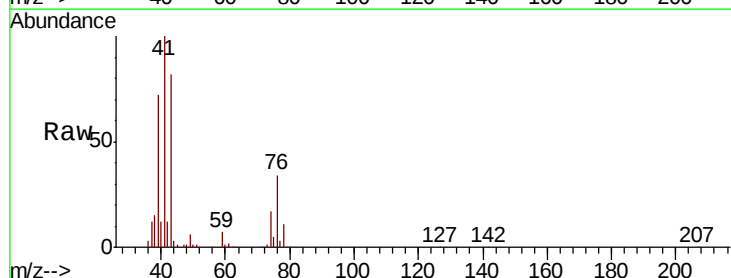
Tgt Ion: 41 Resp: 454649

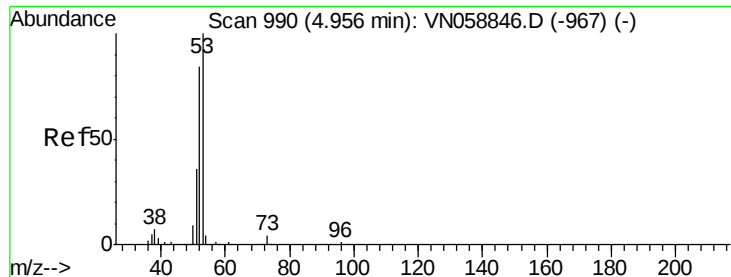
Ion Ratio Lower Upper

41 100

39 68.0 55.9 83.9

76 31.1 24.1 36.1





#15

Acrylonitrile

Concen: 254.550 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

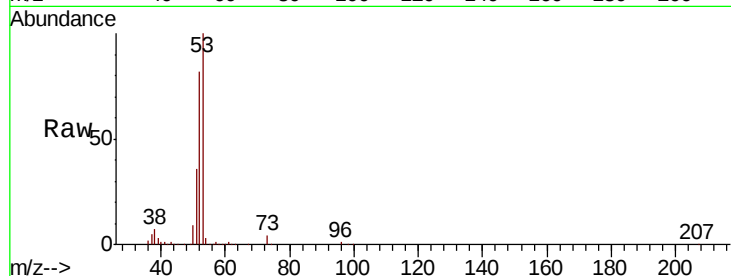
Tot Ion: 53 Resp: 703395

Ion Ratio Lower Upper

53 100

52 82.6 66.6 99.8

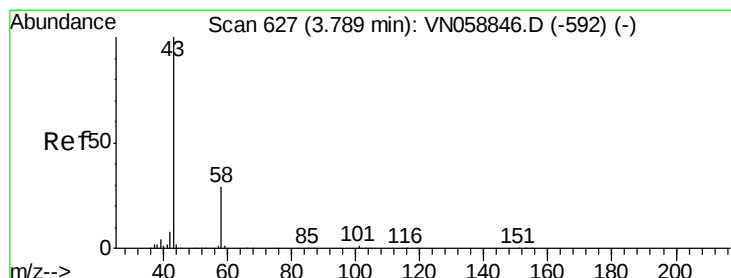
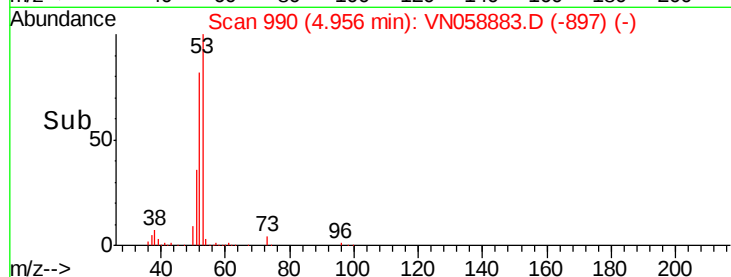
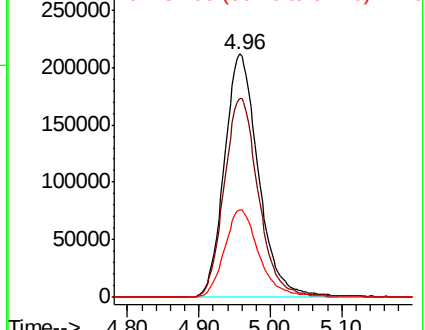
51 36.6 29.2 43.8



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: 189.943 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058883.D

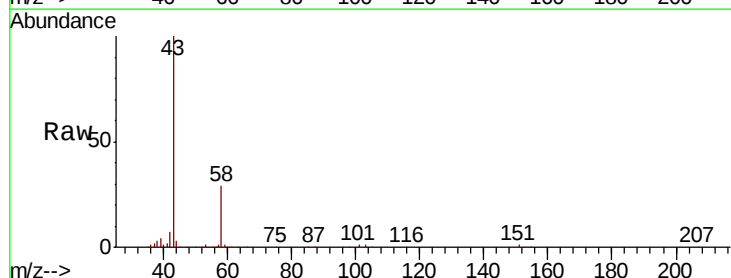
Acq: 21 Oct 2019 13:17

Tgt Ion: 43 Resp: 621335

Ion Ratio Lower Upper

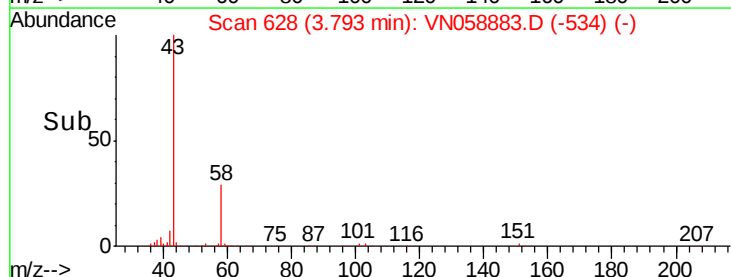
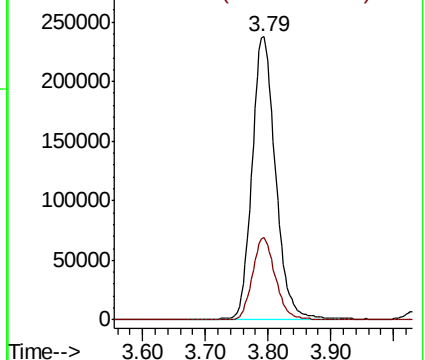
43 100

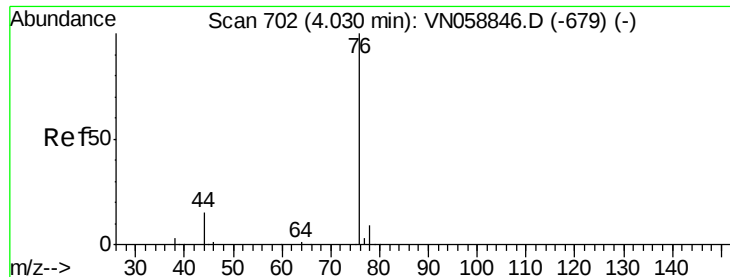
58 29.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

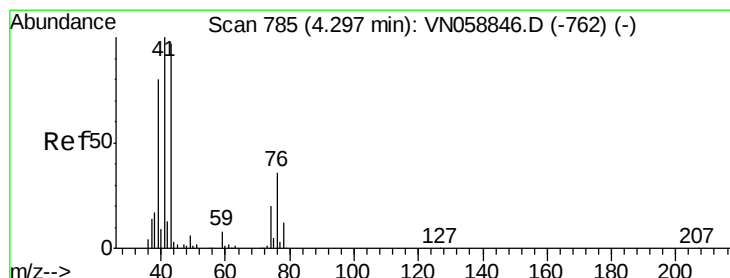
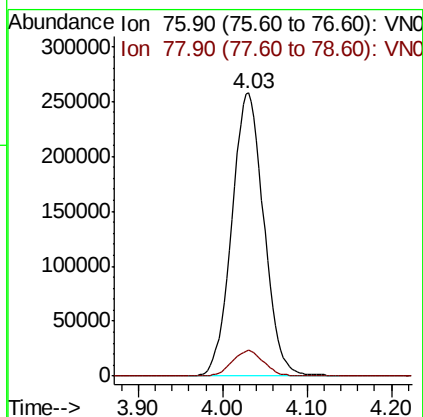
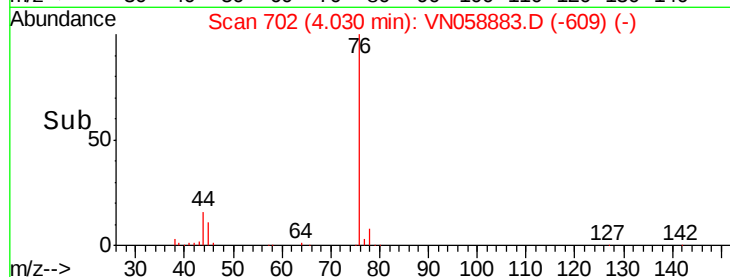
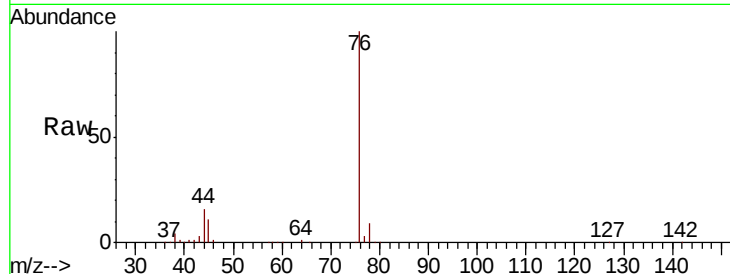




#17
Carbon Disulfide
Concen: 47.523 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

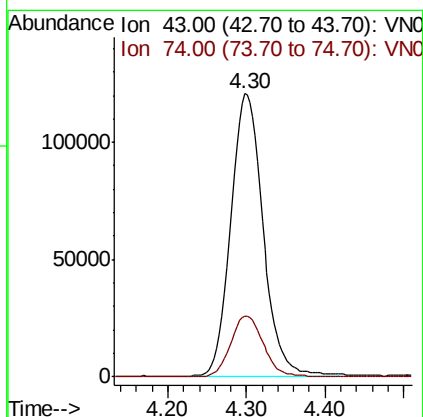
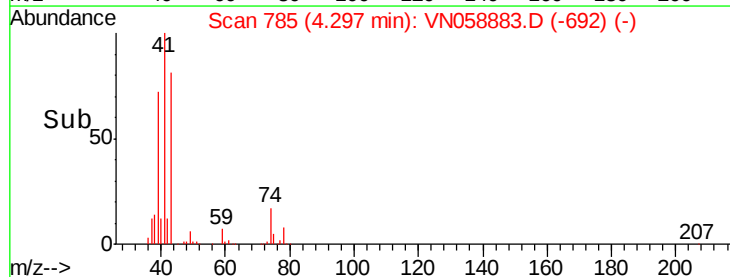
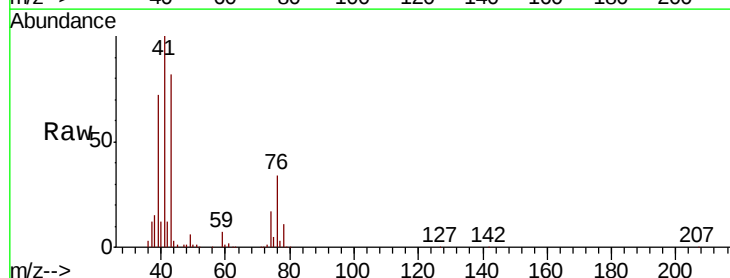
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

Tot Ion: 76 Resp: 681155
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7



#18
Methyl Acetate
Concen: 46.199 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 43 Resp: 343583
Ion Ratio Lower Upper
43 100
74 22.0 17.1 25.7

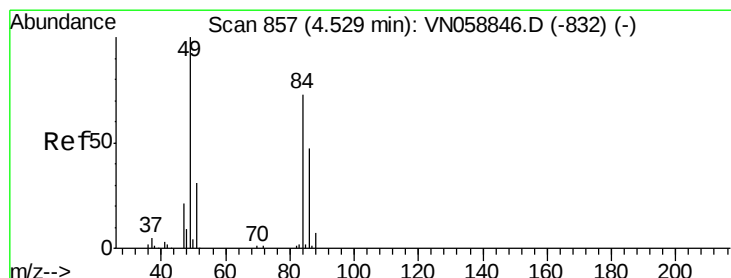
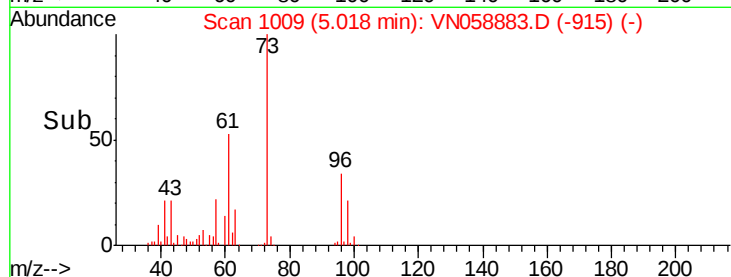
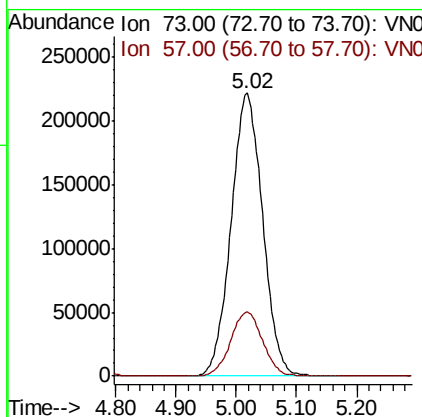
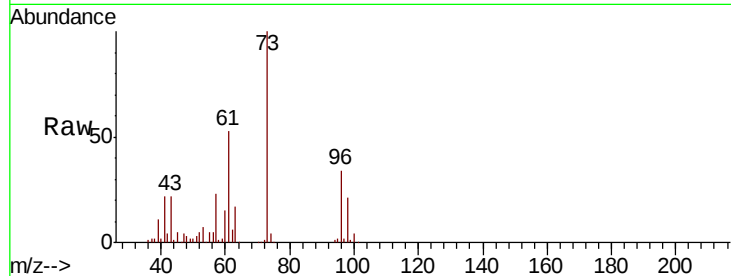




#19
Methvl tert-butvl Ether
Concen: 52.086 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

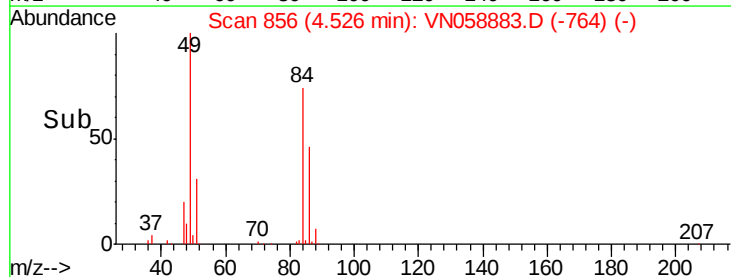
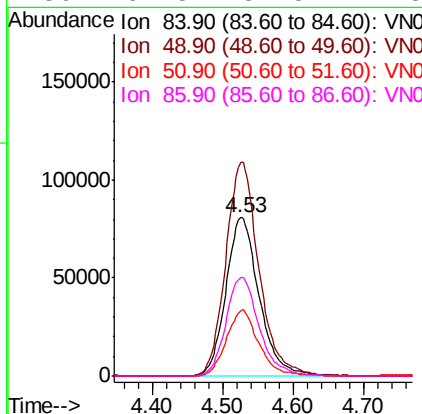
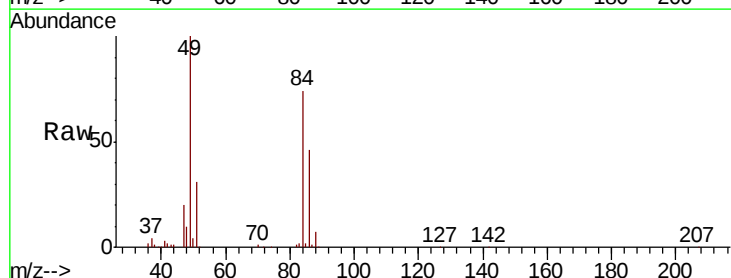
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

Tot Ion: 73 Resp: 811528
Ion Ratio Lower Upper
73 100
57 22.8 17.9 26.9



#20
Methylene Chloride
Concen: 47.684 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 84 Resp: 266343
Ion Ratio Lower Upper
84 100
49 134.6 109.6 164.4
51 41.5 33.8 50.6
86 61.8 51.5 77.3

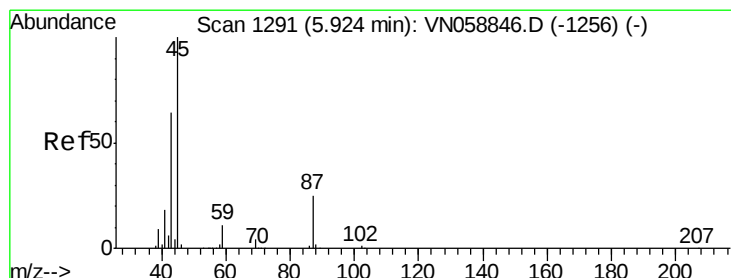
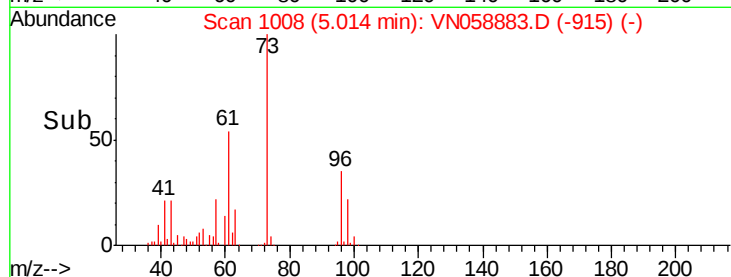
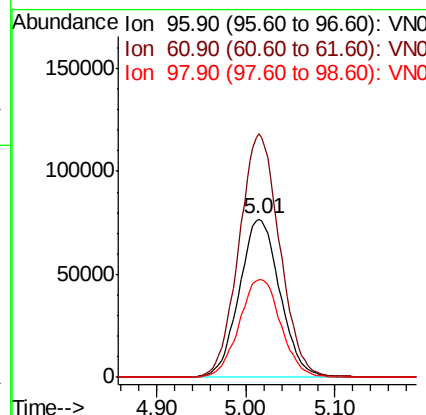
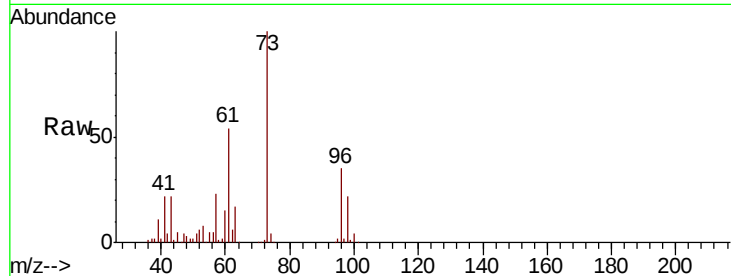




#21
trans-1,2-Dichloroethene
Concen: 49.562 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

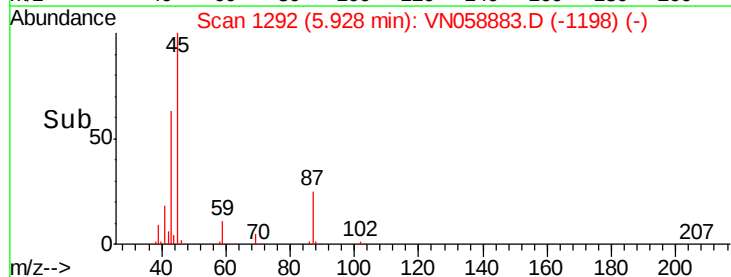
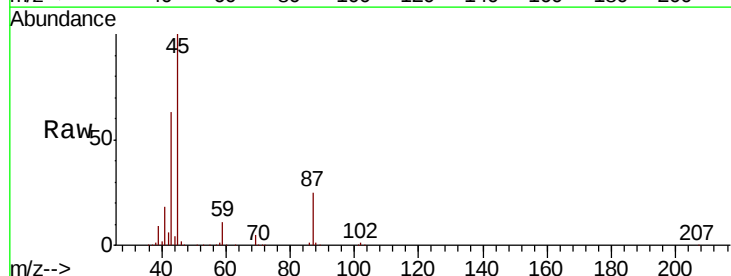
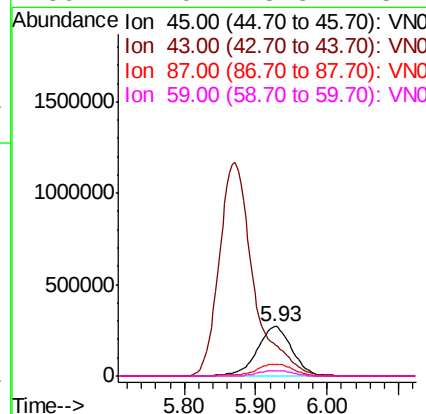
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

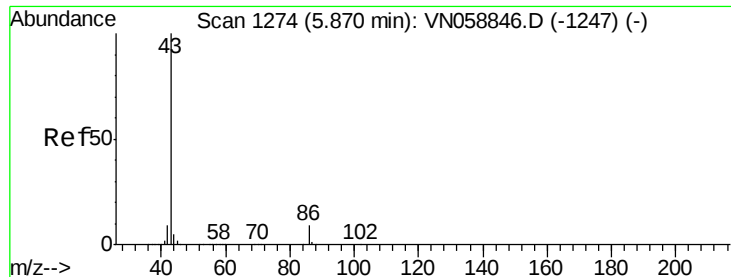
Tot Ion: 96 Resp: 243545
Ion Ratio Lower Upper
96 100
61 153.8 126.7 190.1
98 62.0 52.0 78.0



#22
Diisopropyl ether
Concen: 51.792 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 45 Resp: 912122
Ion Ratio Lower Upper
45 100
43 61.9 52.9 79.3
87 24.5 20.2 30.4
59 11.0 8.8 13.2





#23

Vinyl Acetate

Concen: 275.850 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

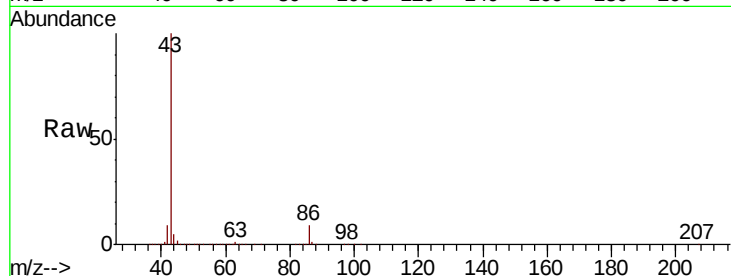
FA19-MMW0422MSD

Tot Ion: 43 Resp: 3903090

Ion Ratio Lower Upper

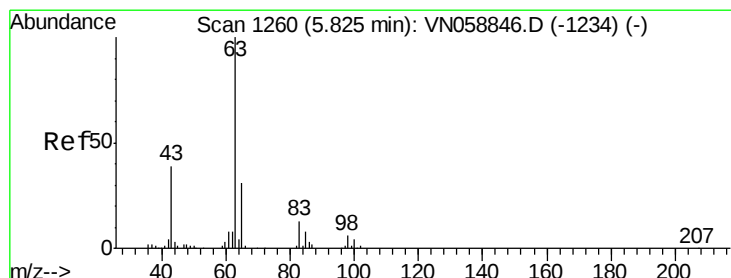
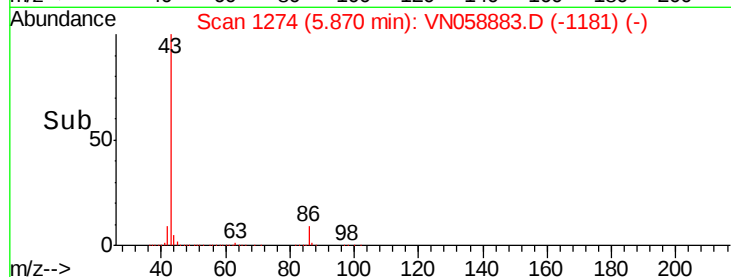
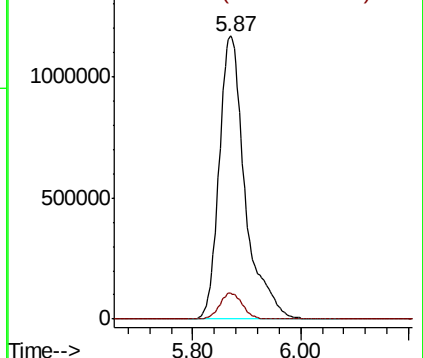
43 100

86 9.1 7.2 10.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 48.459 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

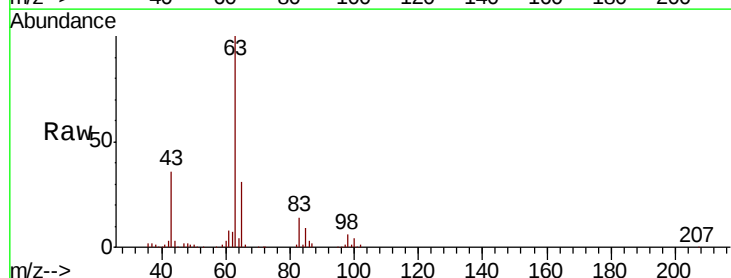
Tgt Ion: 63 Resp: 494857

Ion Ratio Lower Upper

63 100

98 5.6 2.8 8.4

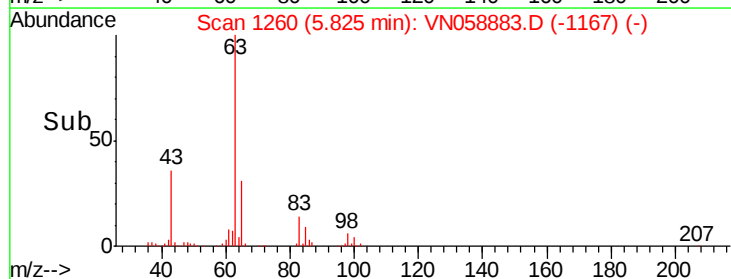
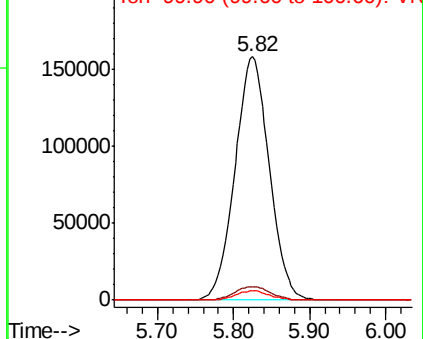
100 3.8 1.9 5.7

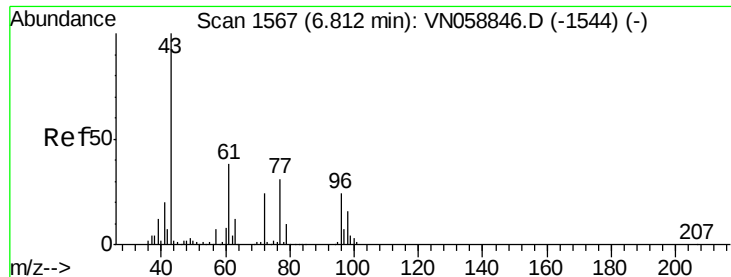


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

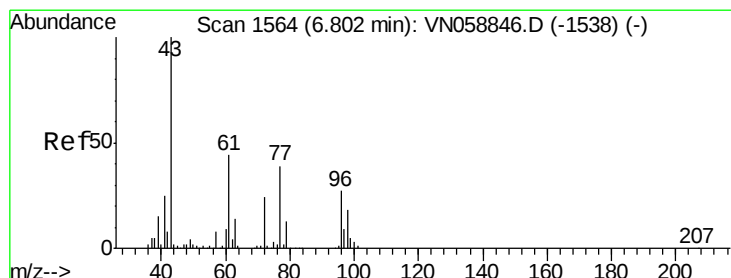
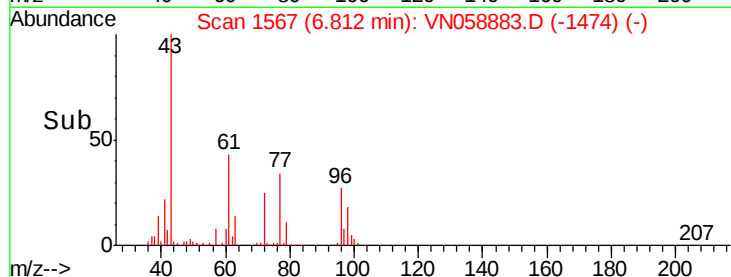
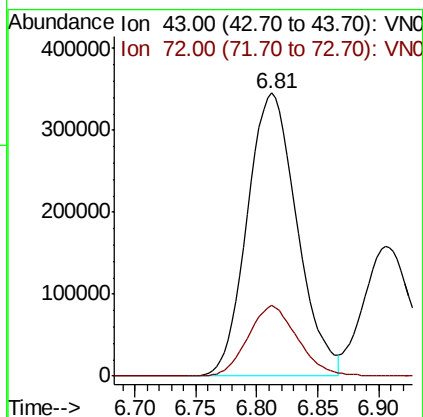
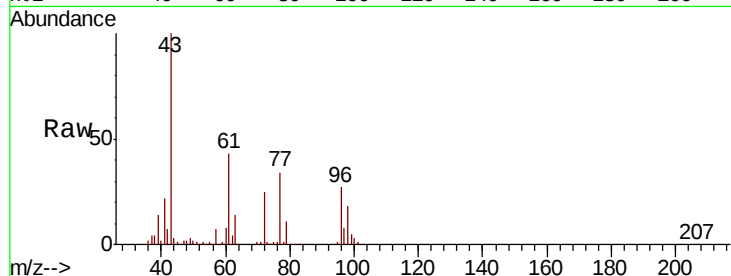




#25
2-Butanone
Concen: 229.802 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

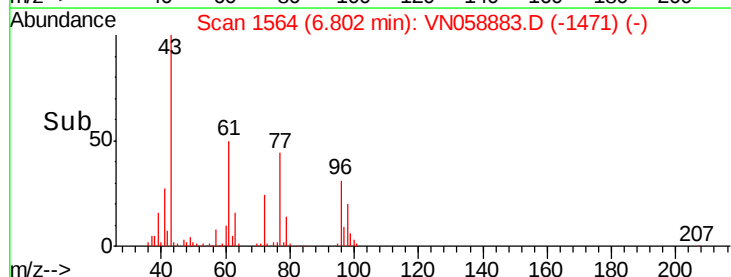
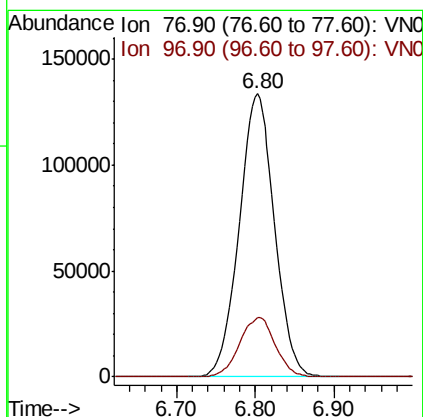
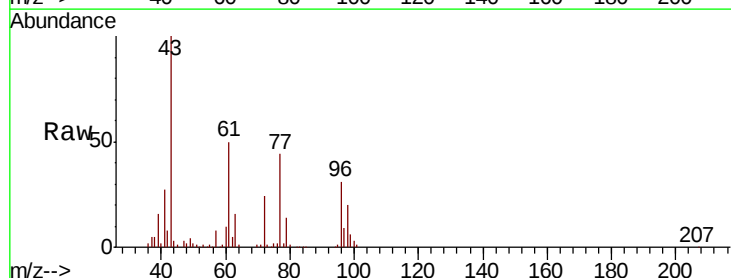
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

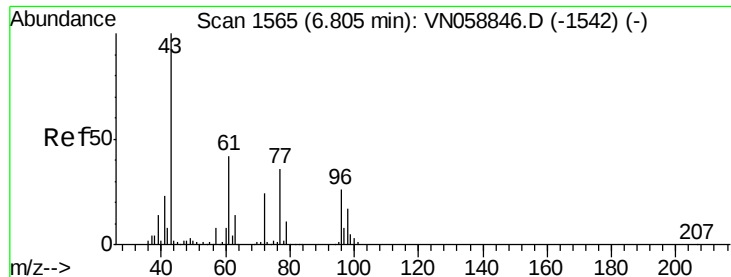
Tot Ion: 43 Resp: 975811
Ion Ratio Lower Upper
43 100
72 24.9 19.1 28.7



#26
2,2-Dichloropropane
Concen: 47.590 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 77 Resp: 420353
Ion Ratio Lower Upper
77 100
97 21.4 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 50.218 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

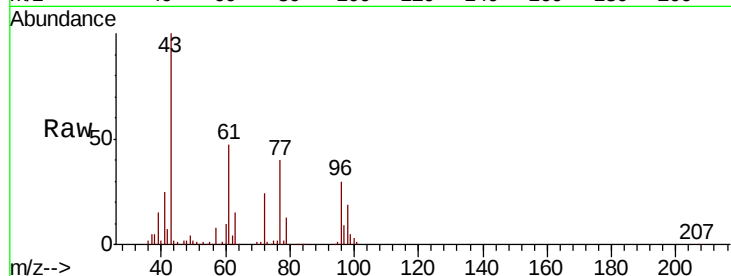
Tot Ion: 96 Resp: 281895

Ion Ratio Lower Upper

96 100

61 161.1 0.0 325.0

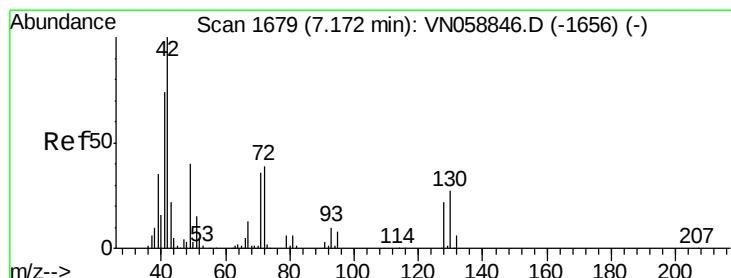
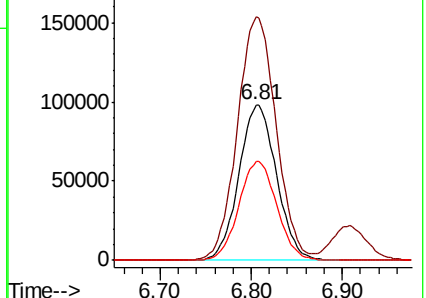
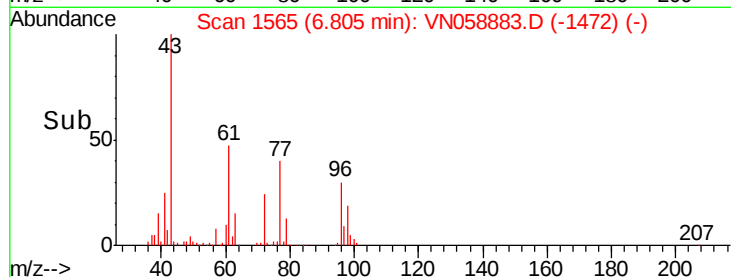
98 64.3 0.0 128.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 48.500 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

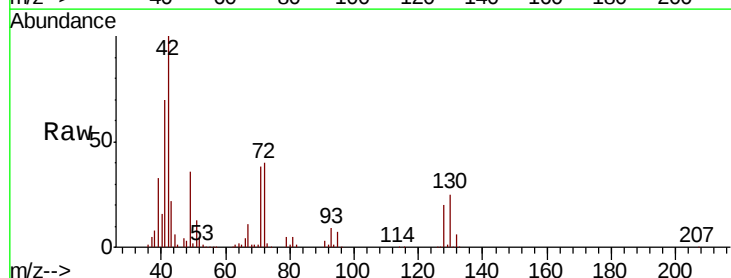
Tgt Ion: 49 Resp: 164946

Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.2

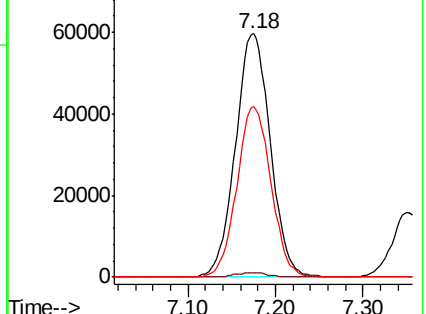
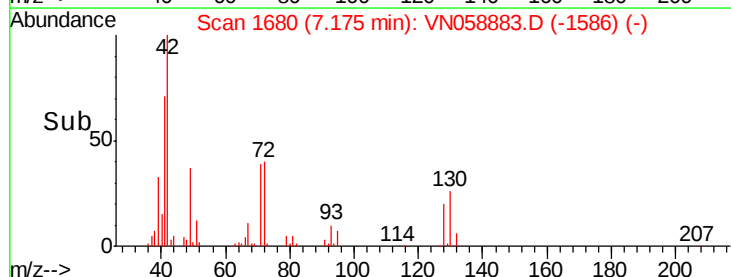
130 68.3 53.5 80.3

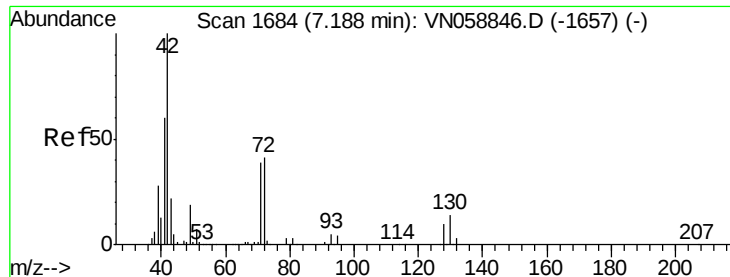


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 251.662 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

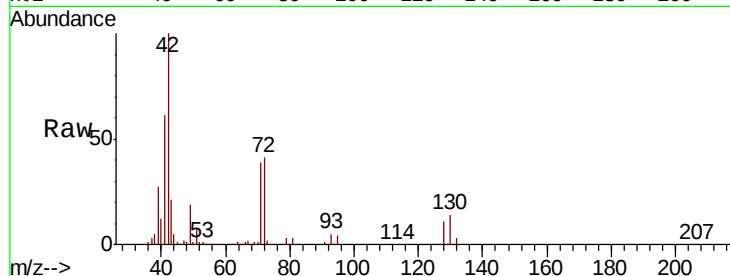
Tot Ion: 42 Resp: 653720

Ion Ratio Lower Upper

42 100

72 40.8 32.2 48.2

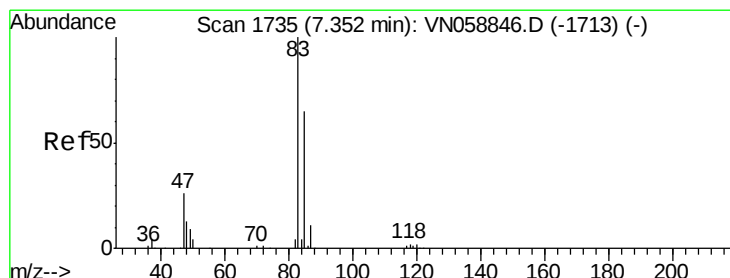
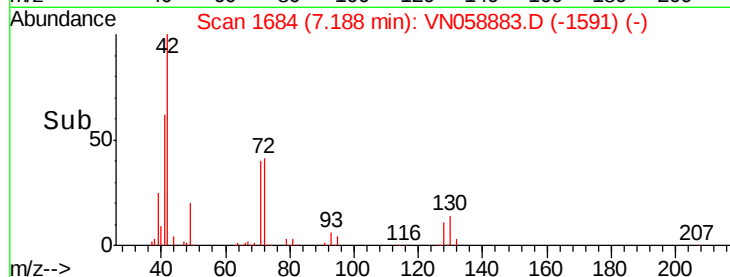
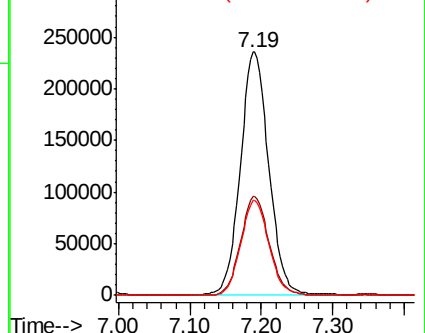
71 38.8 30.6 45.8



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: 47.314 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. 0.00 min

Lab File: VN058883.D

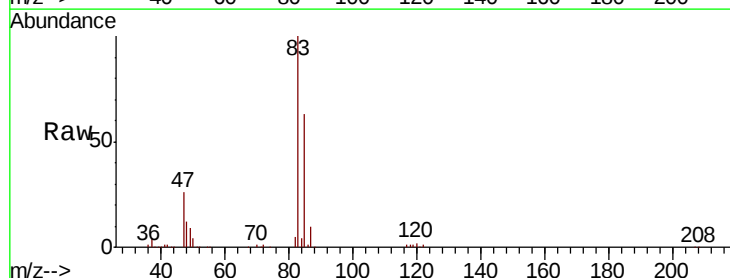
Acq: 21 Oct 2019 13:17

Tgt Ion: 83 Resp: 484662

Ion Ratio Lower Upper

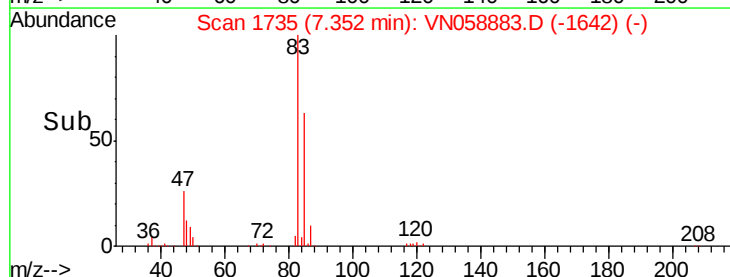
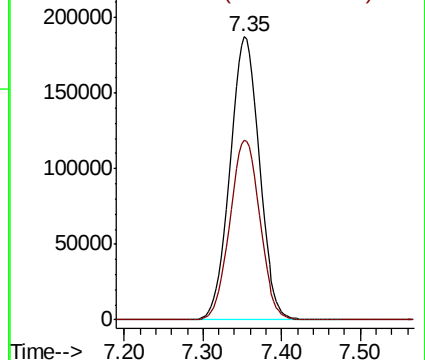
83 100

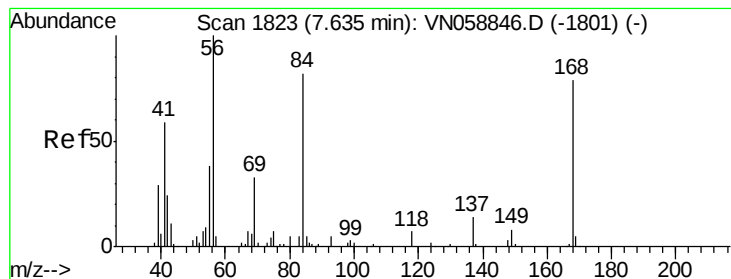
85 63.4 51.9 77.9



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 46.697 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

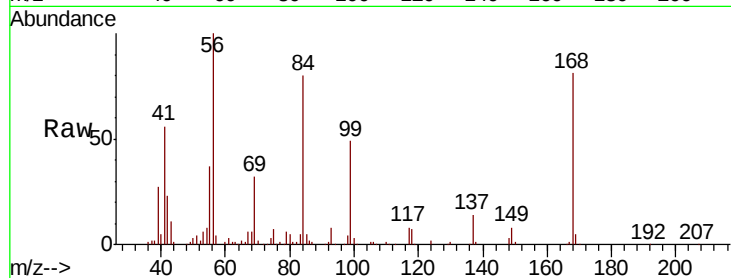
Tot Ion: 56 Resp: 444245

Ion Ratio Lower Upper

56 100

69 31.6 26.2 39.4

84 78.9 65.6 98.4

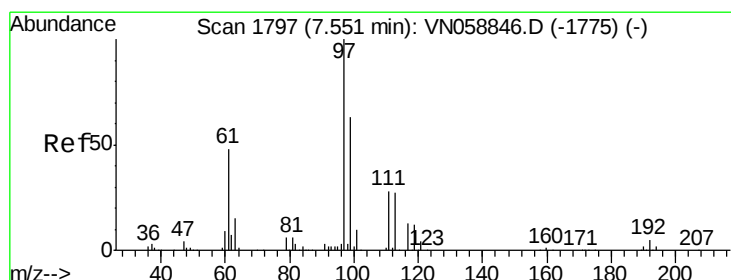
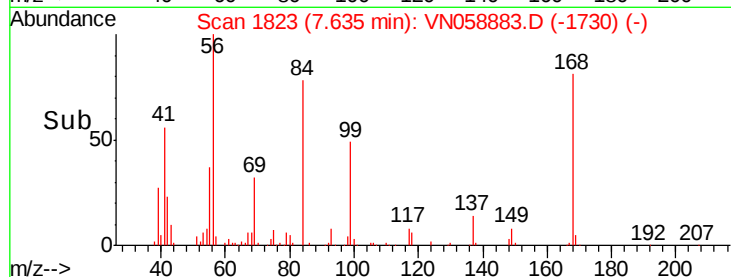
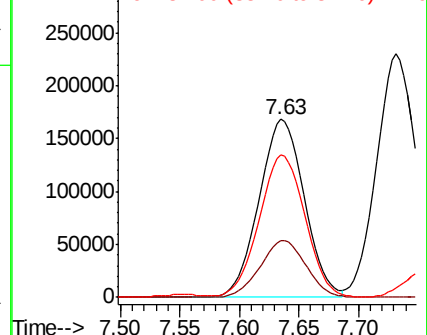


Abundance

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: 49.033 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

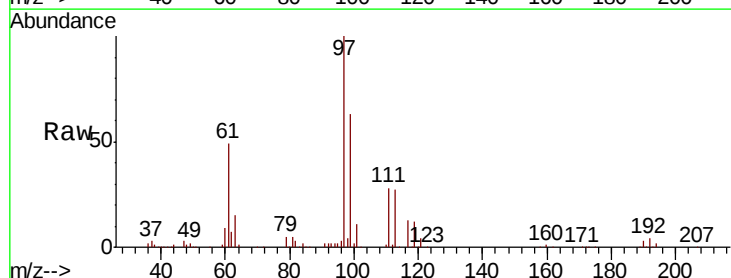
Tgt Ion: 97 Resp: 423355

Ion Ratio Lower Upper

97 100

99 63.4 51.0 76.4

61 47.4 38.6 58.0

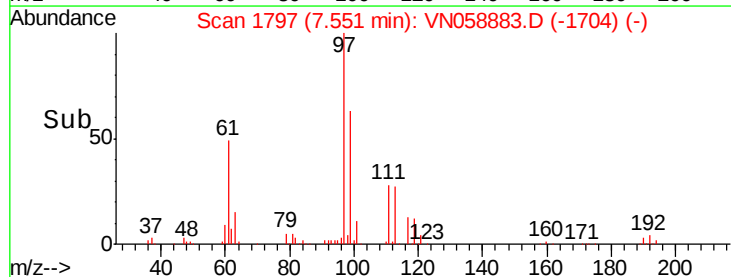
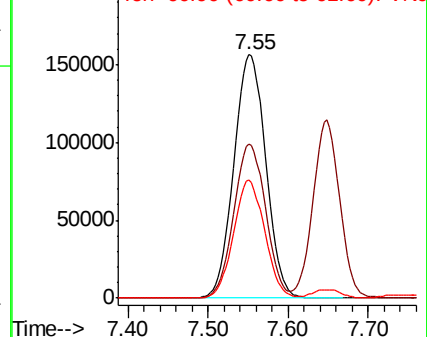


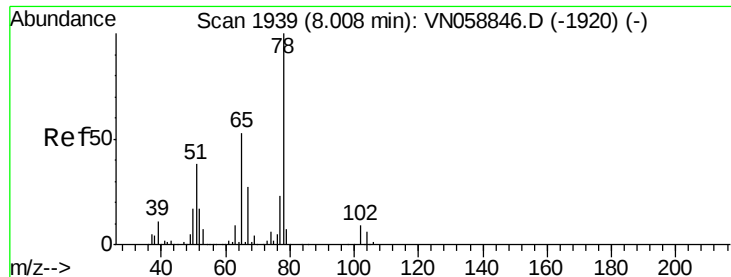
Abundance

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: 48.912 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

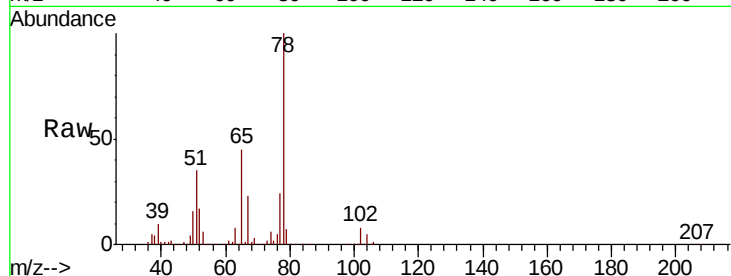
FA19-MMW0422MSD

Tot Ion: 65 Resp: 323791

Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

150000

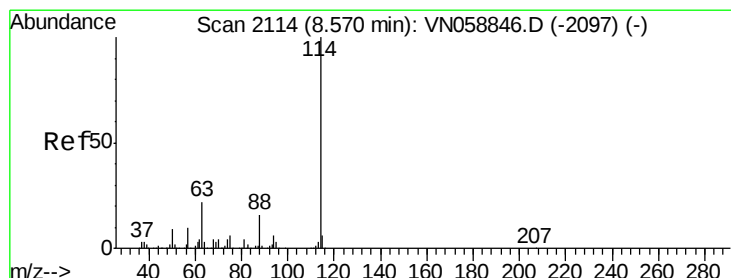
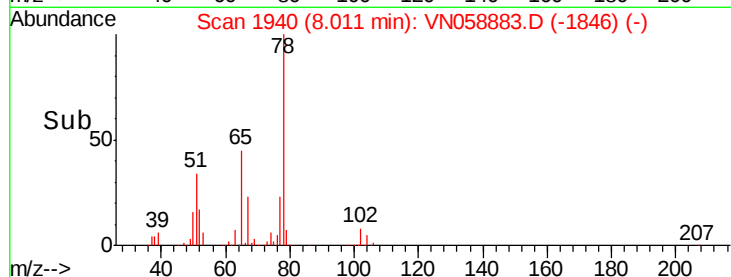
100000

50000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

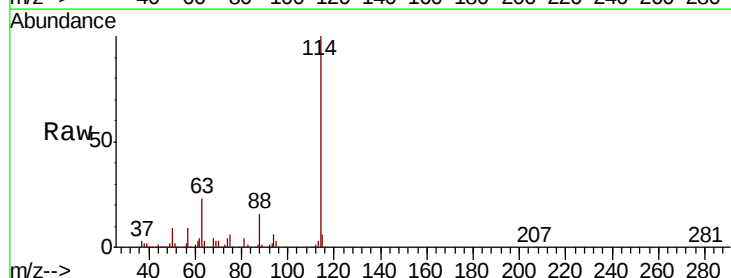
Tgt Ion: 114 Resp: 732168

Ion Ratio Lower Upper

114 100

63 23.1 0.0 44.4

88 15.9 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.57

400000

300000

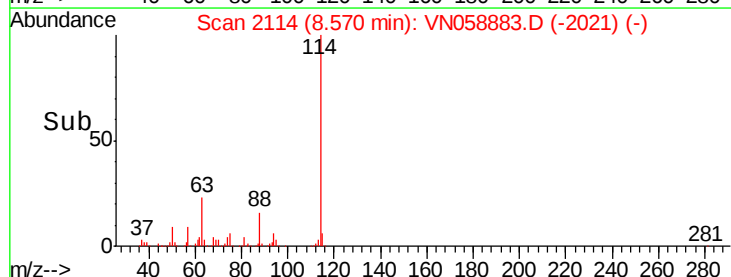
200000

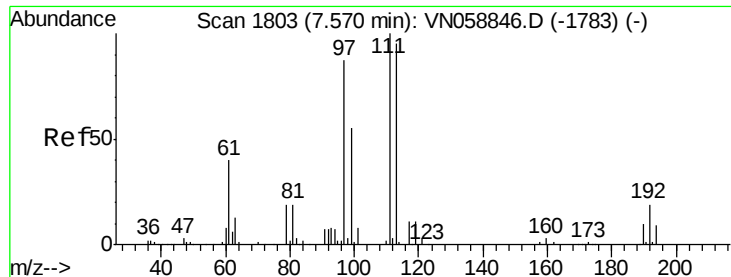
100000

0

8.50 8.60

Time-->

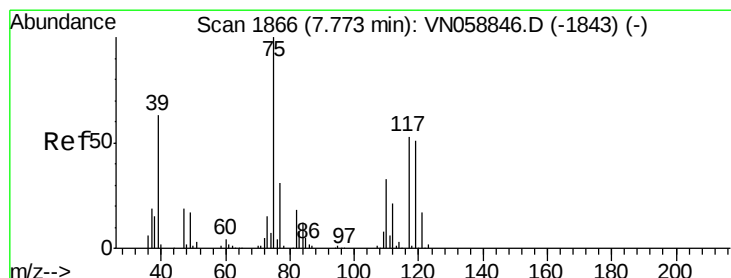
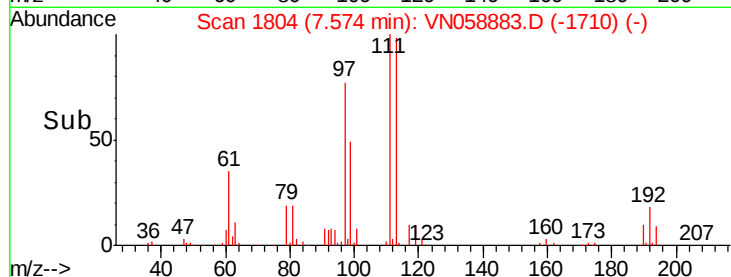
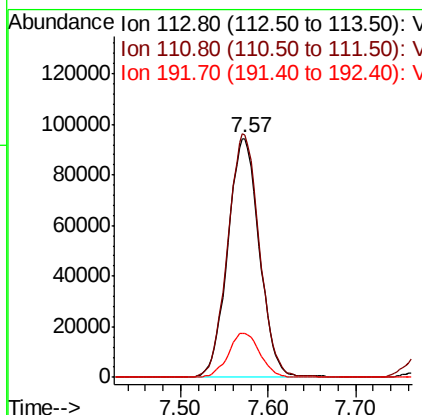
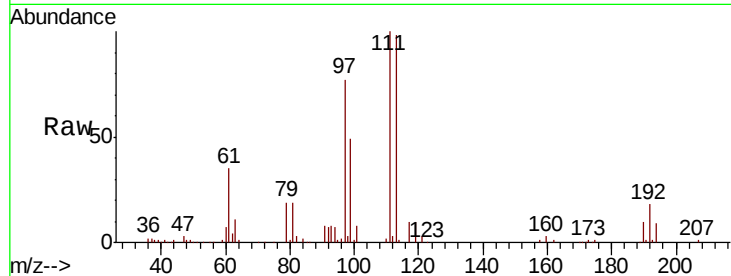




#35
 Dibromofluoromethane
 Concen: 49.094 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

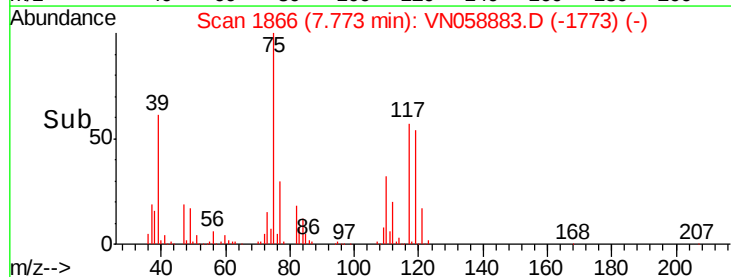
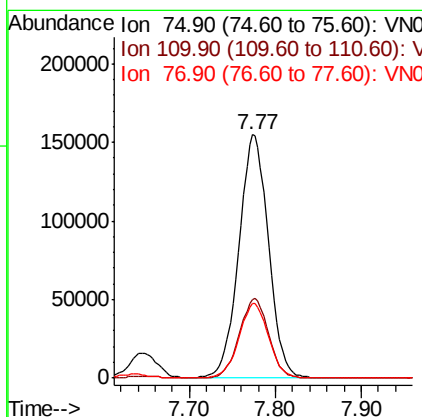
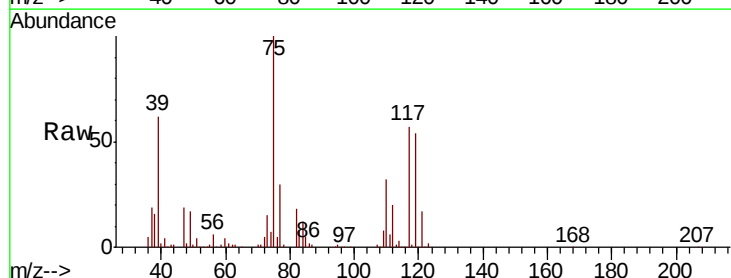
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-MMW0422MSD

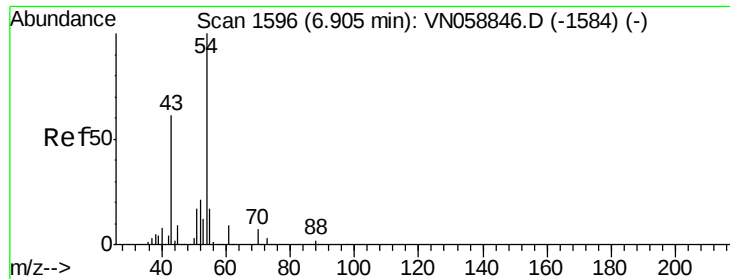
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.0	123.0
192	18.6	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 49.276 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.4	16.3	48.9
77	31.0	24.6	36.8

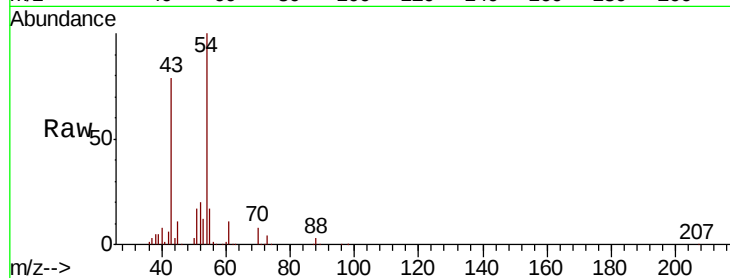




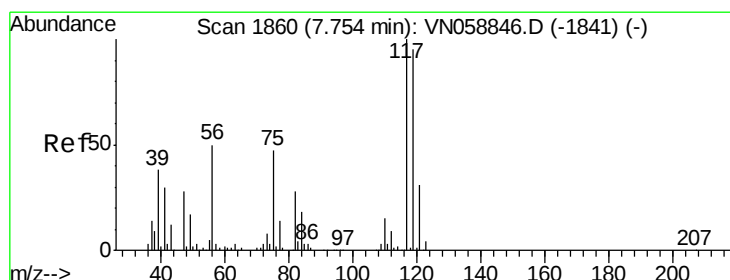
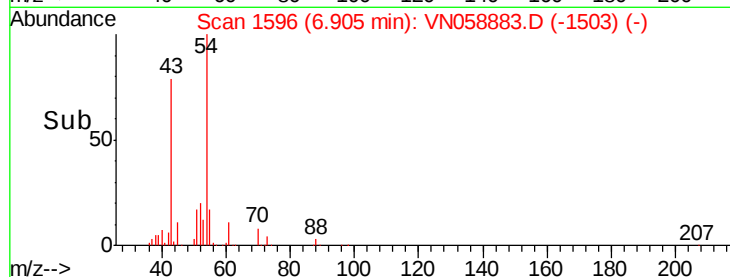
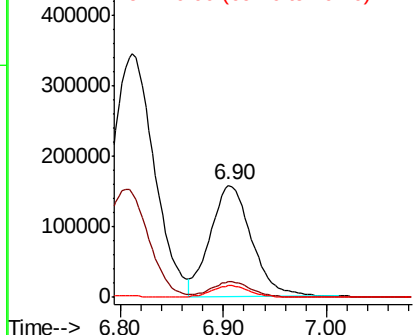
#37
Ethyl Acetate
Concen: 53.967 ug/l
RT: 6.90 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

Tot Ion: 43 Resp: 440787
Ion Ratio Lower Upper
43 100
61 13.4 10.5 15.7
70 9.8 7.6 11.4

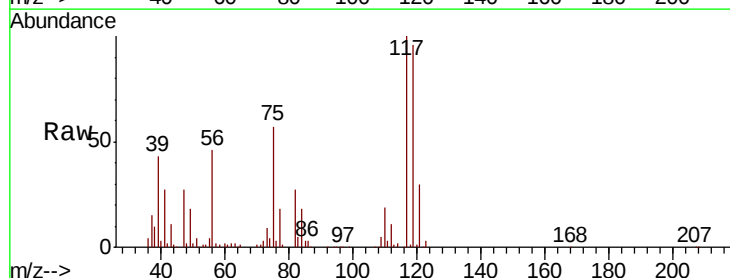


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

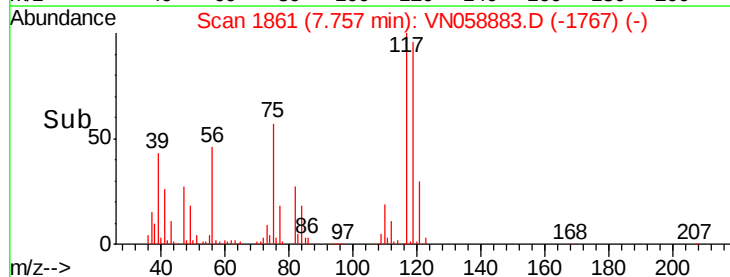
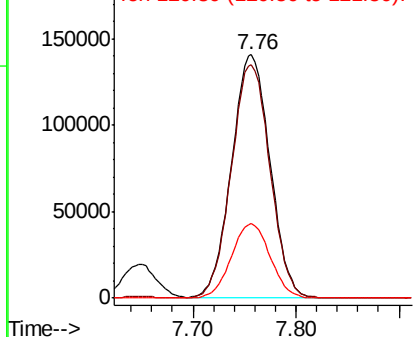


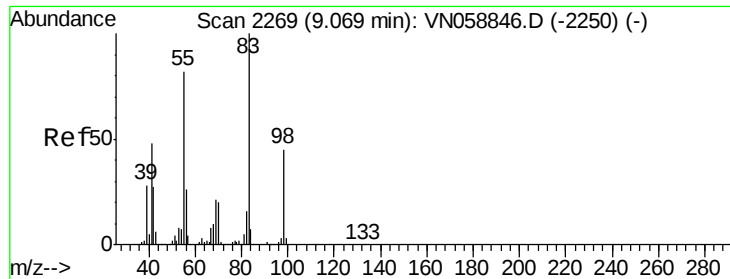
#38
Carbon Tetrachloride
Concen: 47.337 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 117 Resp: 365543
Ion Ratio Lower Upper
117 100
119 95.5 75.7 113.5
121 30.5 25.0 37.6



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

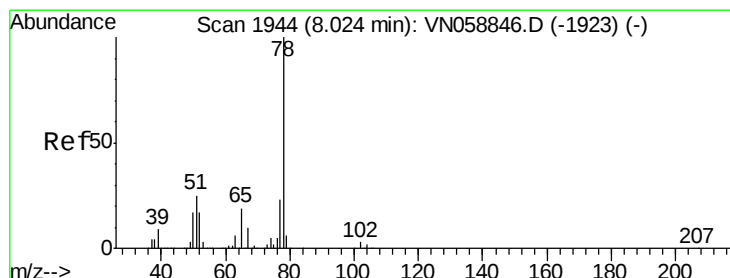
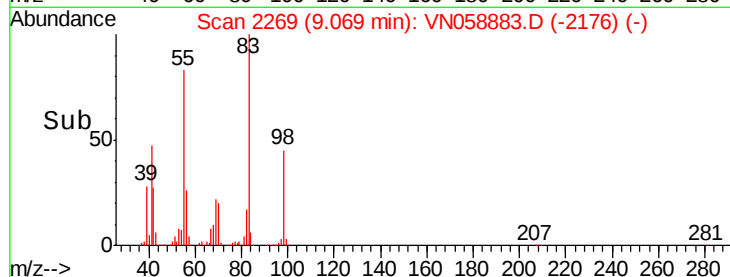
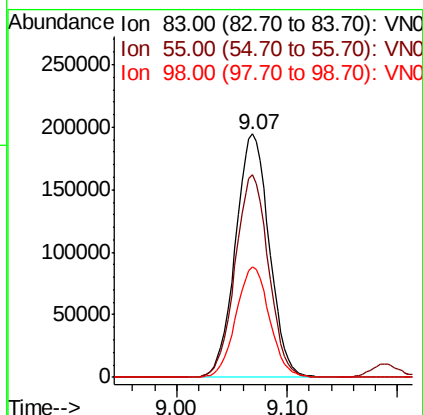
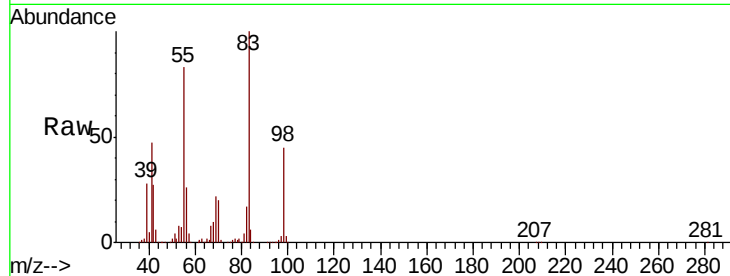




#39
Methvlcvclohexane
Concen: 48.982 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

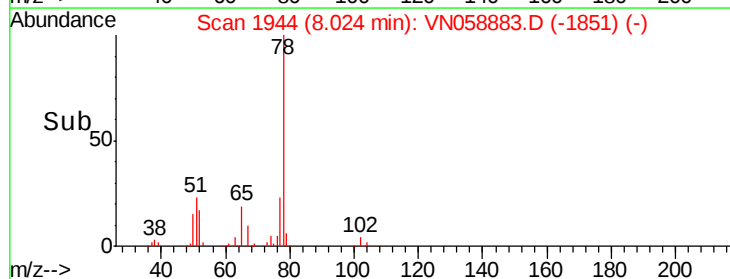
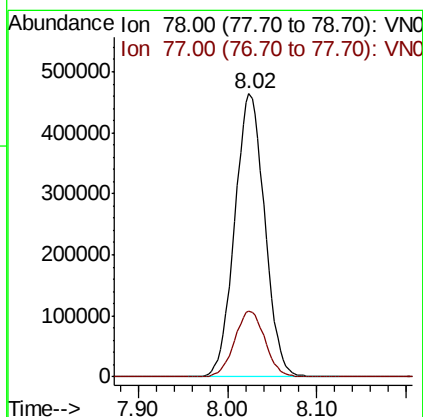
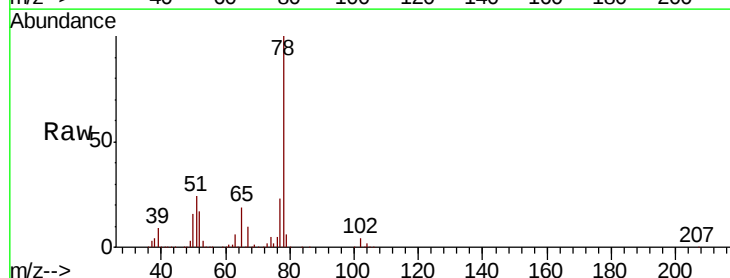
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

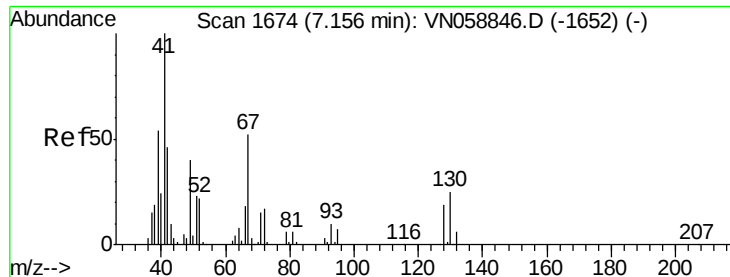
Tot Ion: 83 Resp: 412273
Ion Ratio Lower Upper
83 100
55 83.2 65.5 98.3
98 45.4 35.7 53.5



#40
Benzene
Concen: 49.145 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 78 Resp: 1081760
Ion Ratio Lower Upper
78 100
77 23.3 18.2 27.2

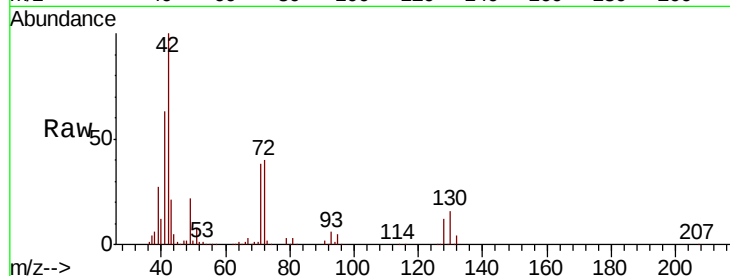




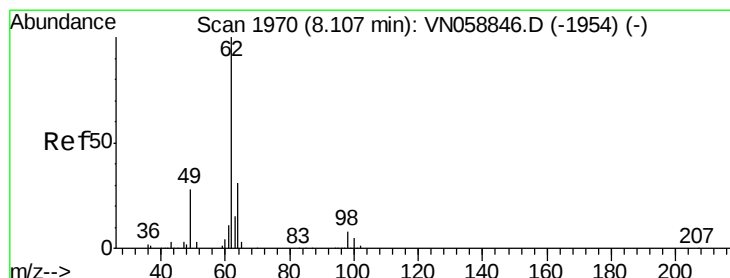
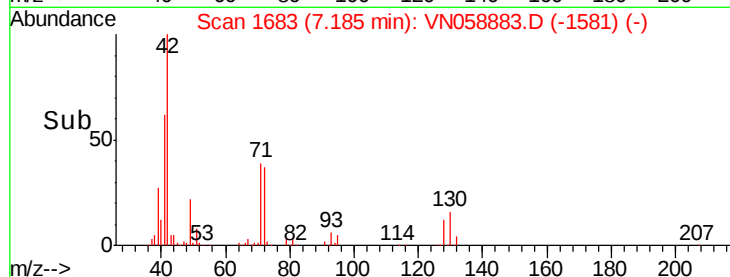
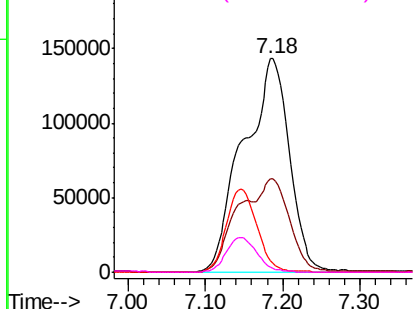
#41
Methacrylonitrile
Concen: 162.371 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.03 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

Tot Ion:	41	Resp:	590658
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

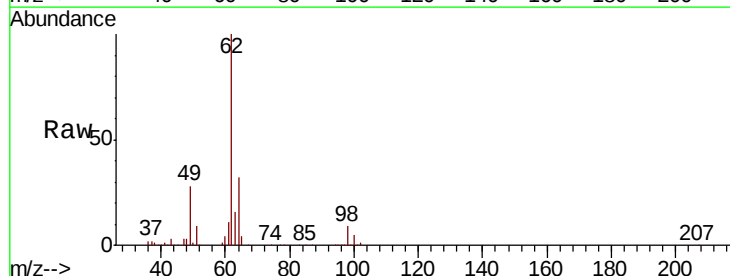


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

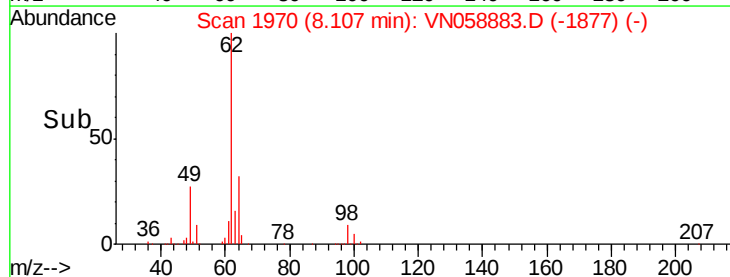
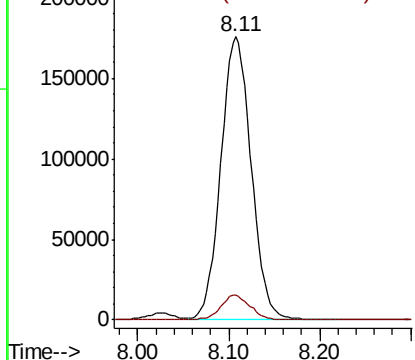


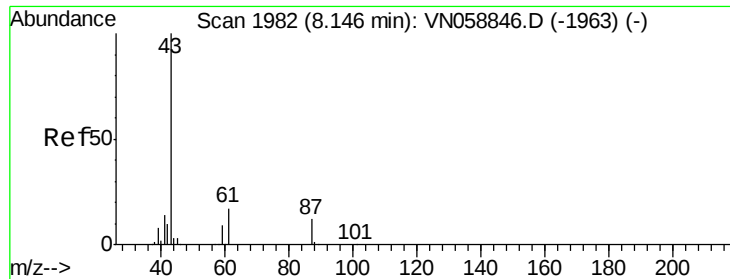
#42
1,2-Dichloroethane
Concen: 47.903 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion:	62	Resp:	406177
Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	16.2



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



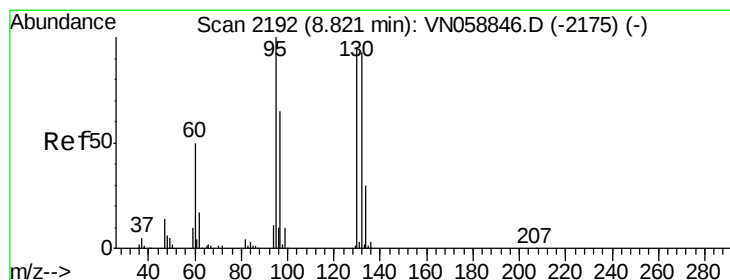
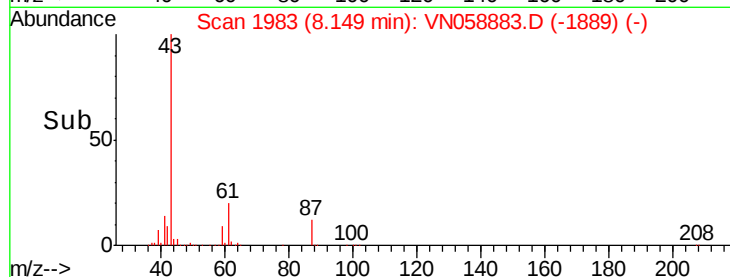
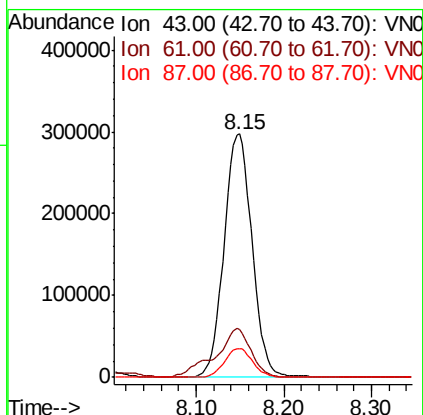
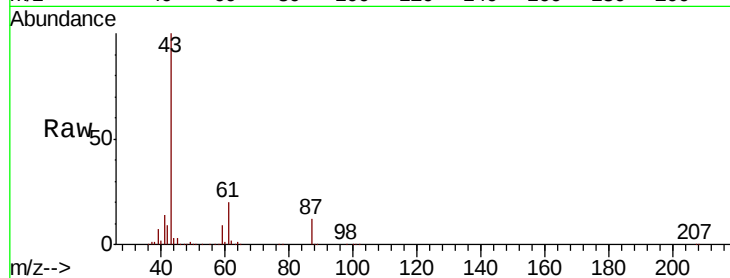


#43

Isopropyl Acetate
 Concen: 50.266 ug/l
 RT: 8.15 min Scan# 1983
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-MMW0422MSD

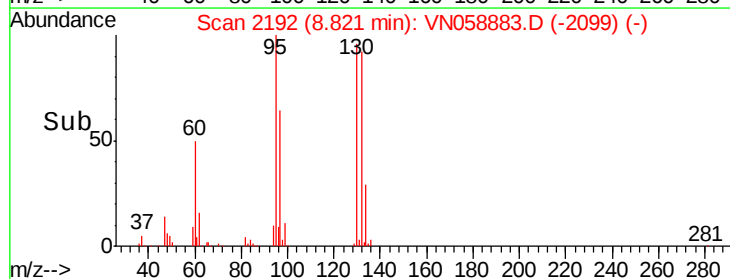
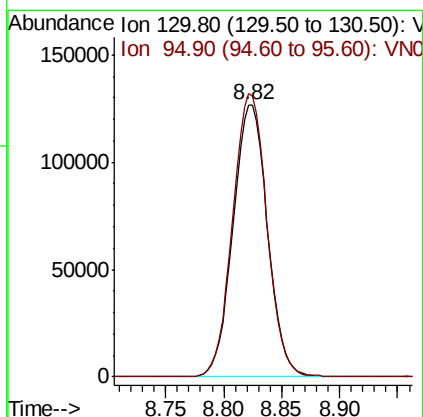
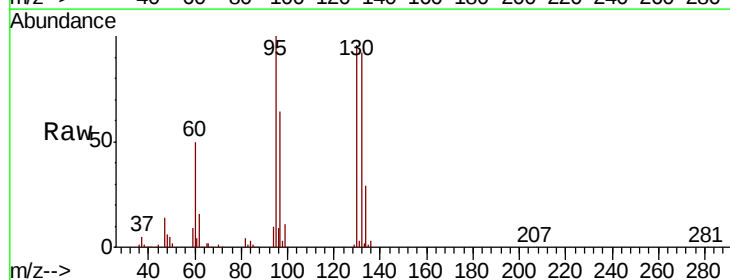
Tot Ion	43	Resp	658431
Ion Ratio	Lower	Upper	
43	100		
61	25.3	20.2	30.2
87	11.9	9.5	14.3

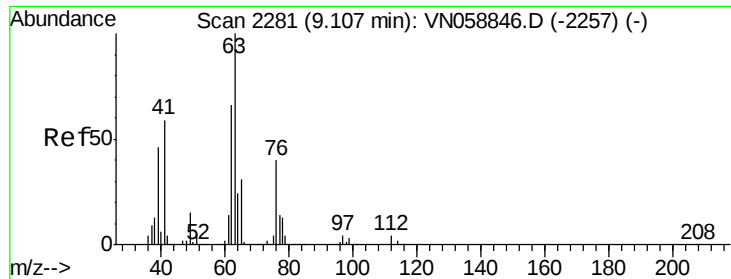


#44

Trichloroethene
 Concen: 48.837 ug/l
 RT: 8.82 min Scan# 2192
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Tgt Ion	130	Resp	261859
Ion Ratio	Lower	Upper	
130	100		
95	104.0	0.0	209.6





#45

1,2-Dichloropropane

Concen: 49.149 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

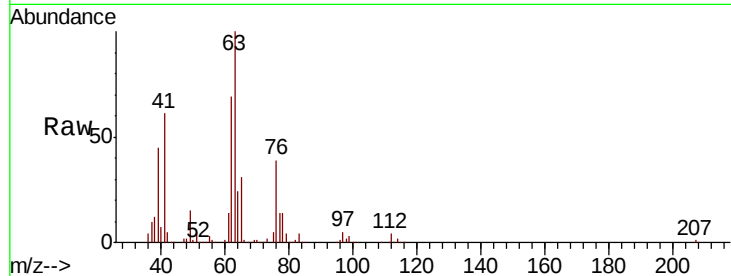
FA19-MMW0422MSD

Tot Ion: 63 Resp: 296656

Ion Ratio Lower Upper

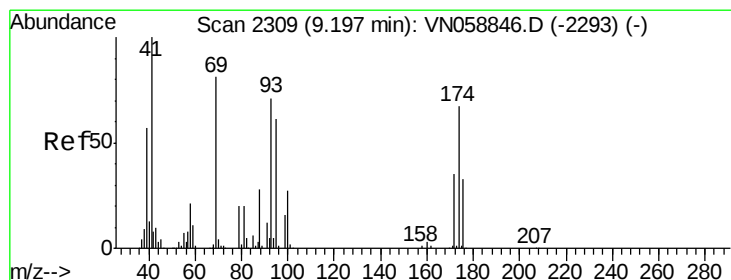
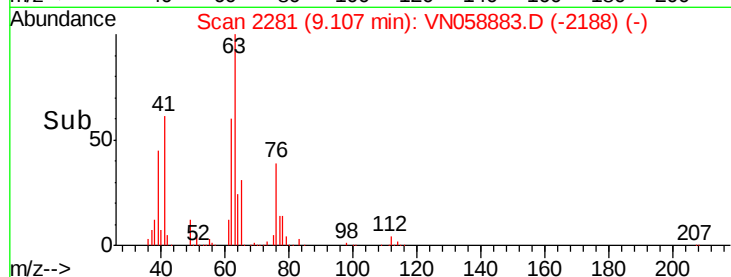
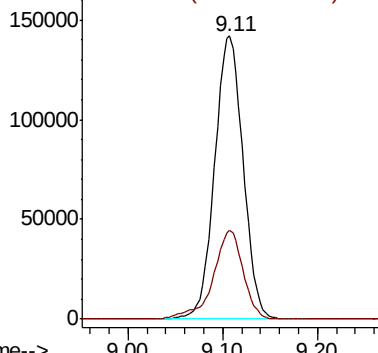
63 100

65 31.4 24.5 36.7



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 48.708 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

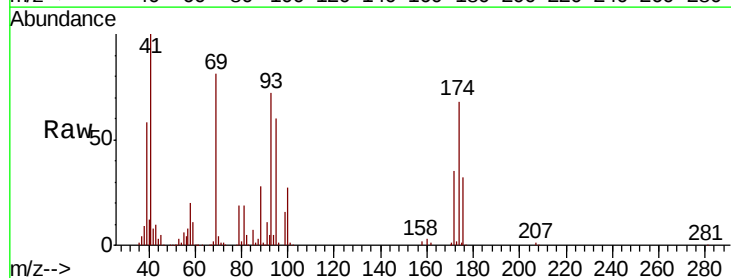
Tgt Ion: 93 Resp: 185858

Ion Ratio Lower Upper

93 100

95 82.6 67.6 101.4

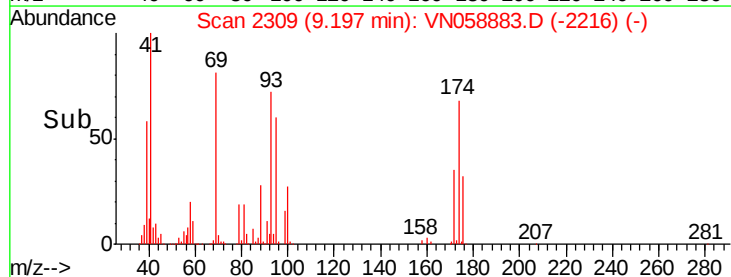
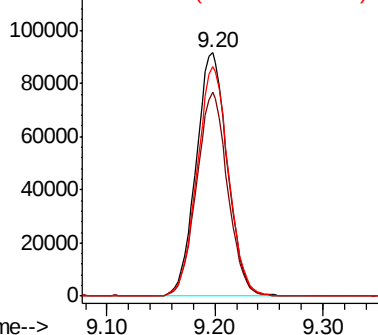
174 94.2 74.1 111.1

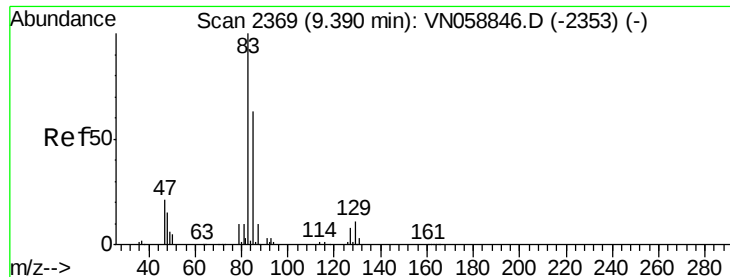


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





#47

Bromodichloromethane

Concen: 49.479 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

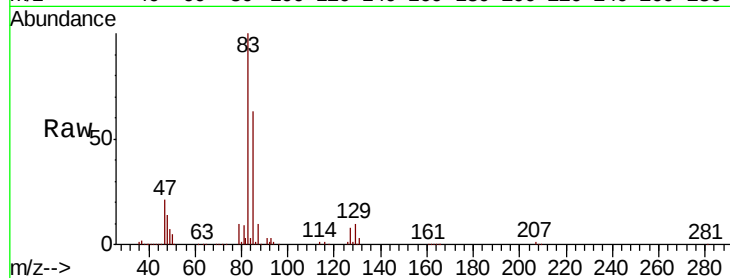
Tot Ion: 83 Resp: 389125

Ion Ratio Lower Upper

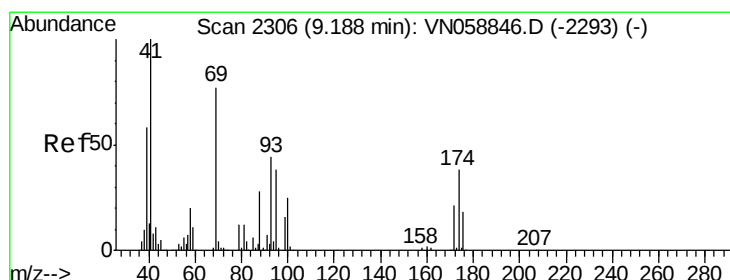
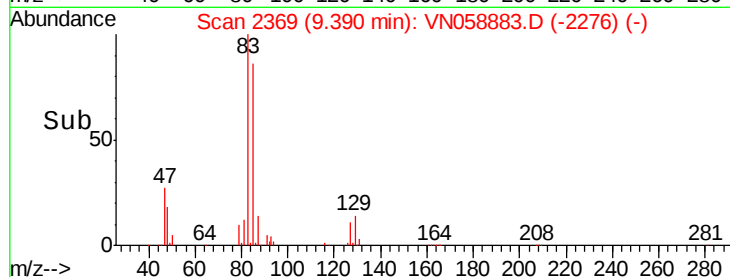
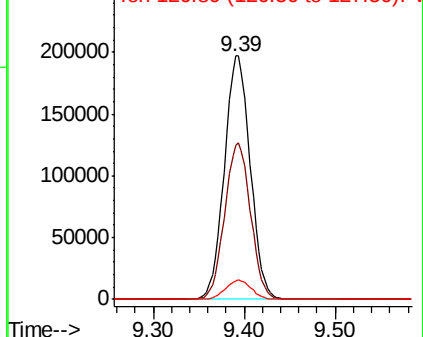
83 100

85 63.4 50.6 75.8

127 7.7 6.5 9.7



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): V



#48

Methyl methacrylate

Concen: 51.485 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

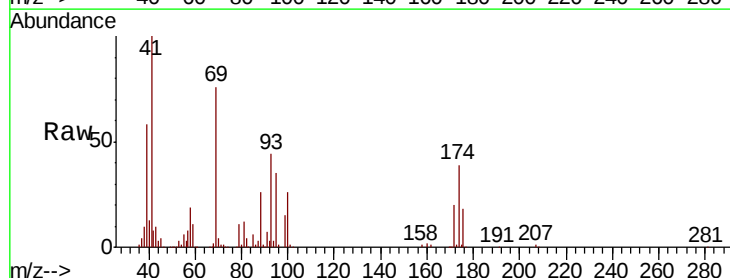
Tgt Ion: 41 Resp: 305980

Ion Ratio Lower Upper

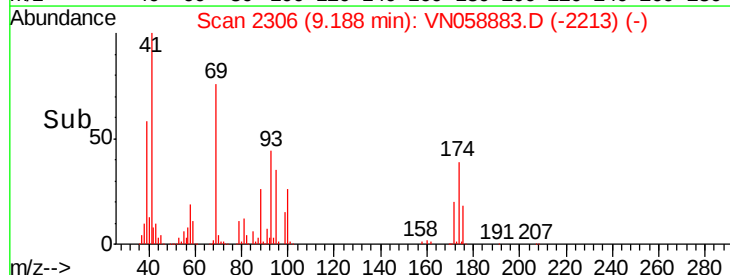
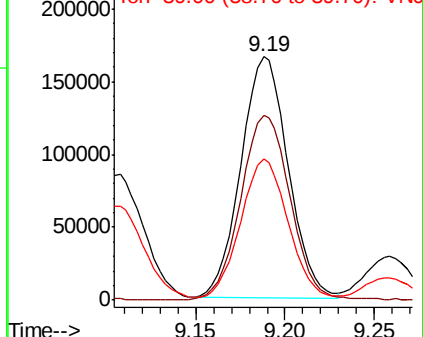
41 100

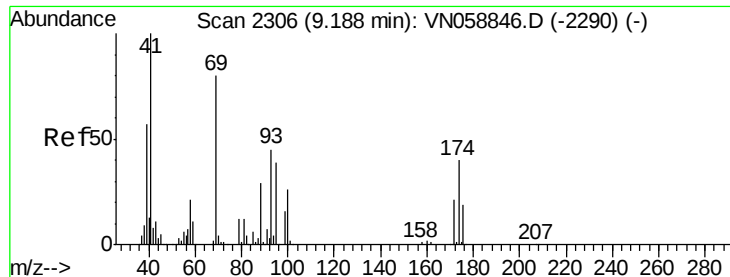
69 80.7 63.8 95.6

39 59.6 47.8 71.8



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: 935.258 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

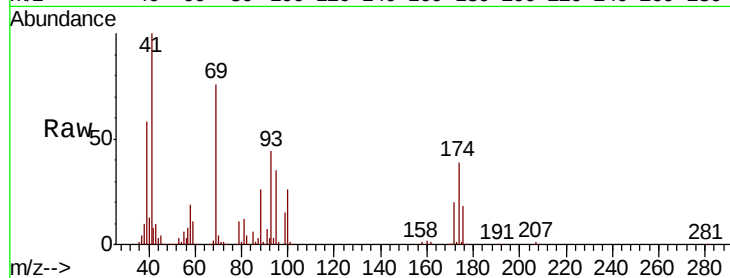
Tot Ion: 88 Resp: 91244

Ion Ratio Lower Upper

88 100

43 35.3 29.1 43.7

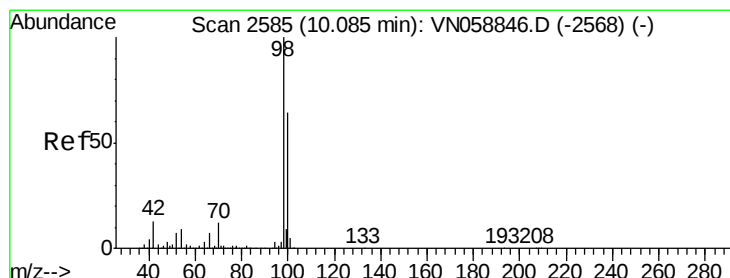
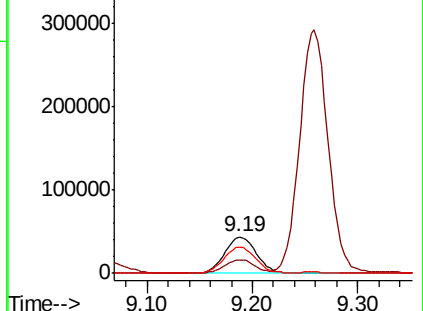
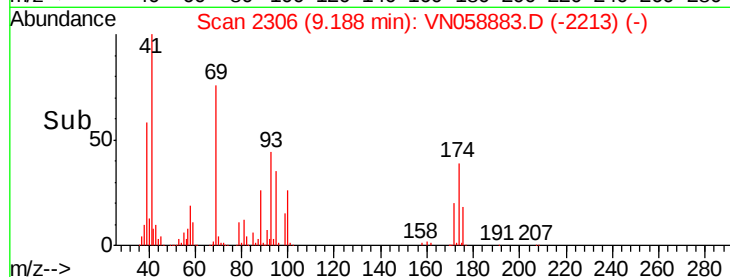
58 72.4 59.4 89.0



Abundance Ion 88.00 (87.70 to 88.70): VN058883.D (-2213) (-)

Ion 43.00 (42.70 to 43.70): VN058883.D (-2213) (-)

Ion 58.00 (57.70 to 58.70): VN058883.D (-2213) (-)



#50

Toluene-d8

Concen: 48.876 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058883.D

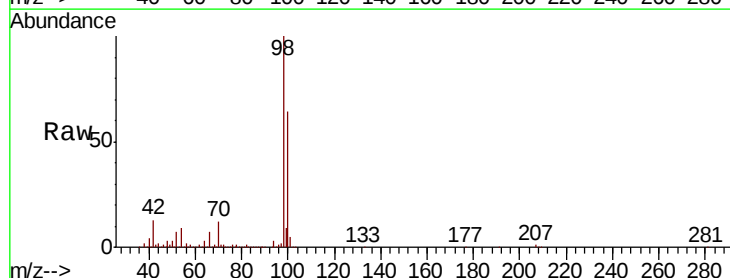
Acq: 21 Oct 2019 13:17

Tgt Ion: 98 Resp: 913322

Ion Ratio Lower Upper

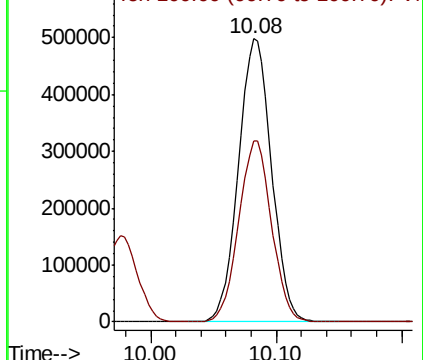
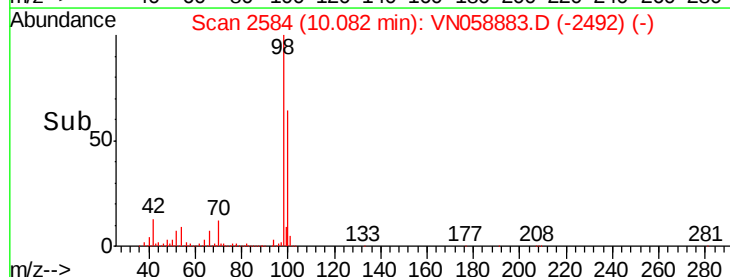
98 100

100 63.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058883.D (-2492) (-)

Ion 100.00 (99.70 to 100.70): VN058883.D (-2492) (-)





#51

4-Methyl-2-Pentanone

Concen: 266.506 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

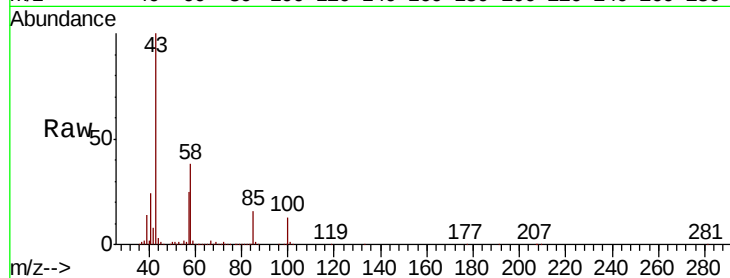
FA19-MMW0422MSD

Tot Ion: 43 Resp: 2039065

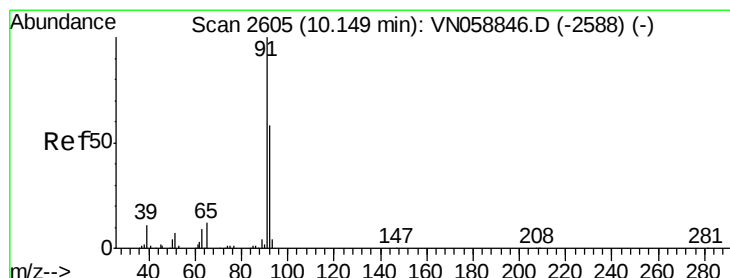
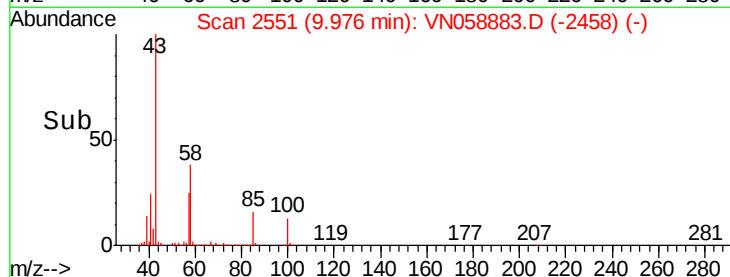
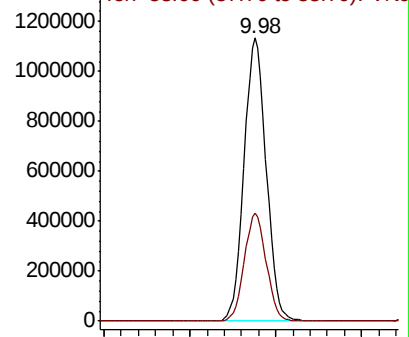
Ion Ratio Lower Upper

43 100

58 37.9 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-2533) (-)



#52

Toluene

Concen: 50.580 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058883.D

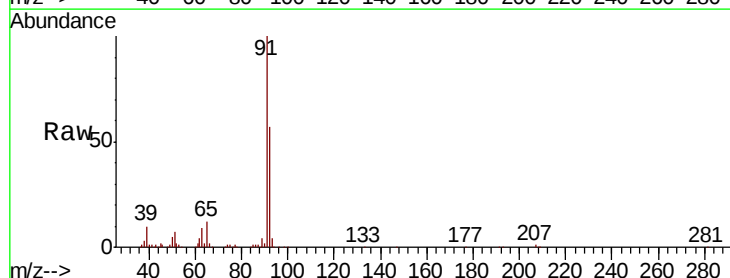
Acq: 21 Oct 2019 13:17

Tgt Ion: 92 Resp: 660232

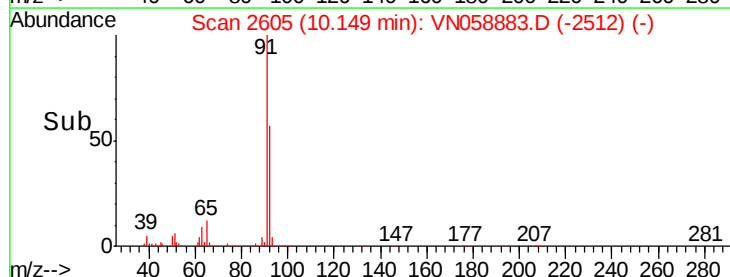
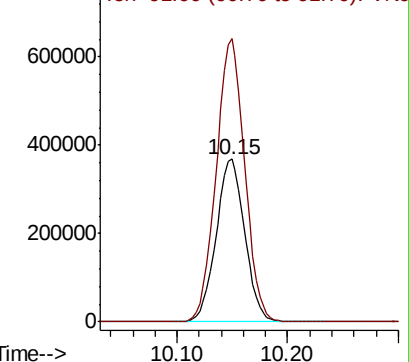
Ion Ratio Lower Upper

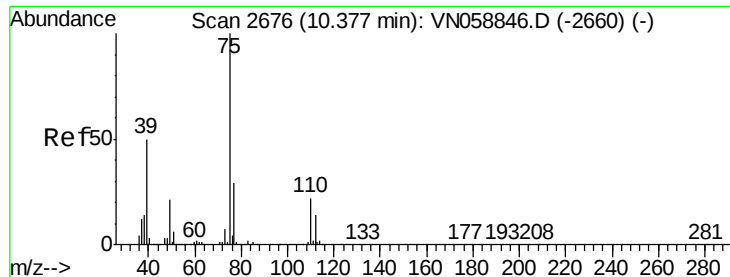
92 100

91 173.8 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN058846.D (-2588) (-)





#53

t-1,3-Dichloropropene

Concen: 50.652 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

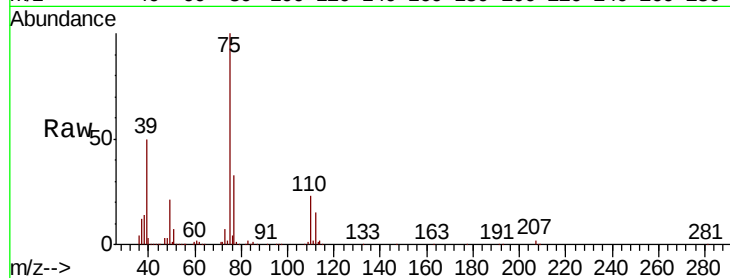
FA19-MMW0422MSD

Tot Ion: 75 Resp: 440982

Ion Ratio Lower Upper

75 100

77 32.5 25.7 38.5



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

250000

200000

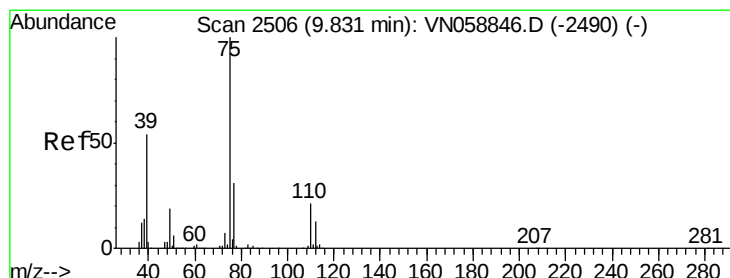
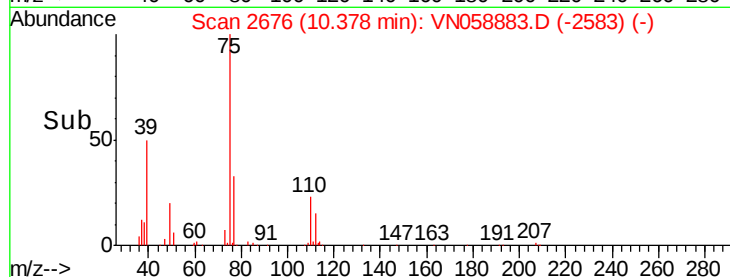
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 49.300 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

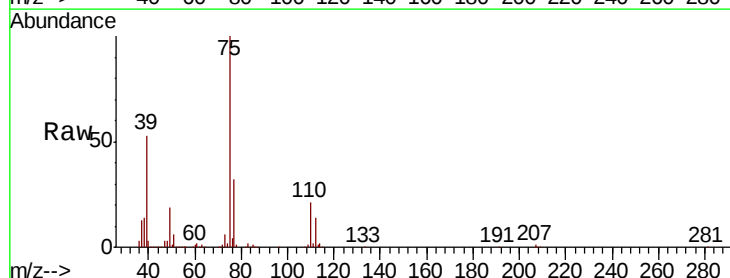
Tgt Ion: 75 Resp: 458557

Ion Ratio Lower Upper

75 100

77 31.9 24.7 37.1

39 52.7 43.5 65.3



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

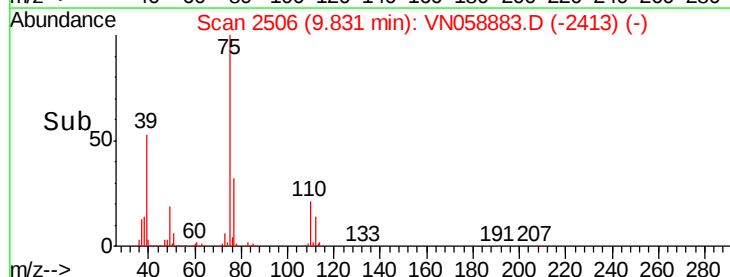
300000

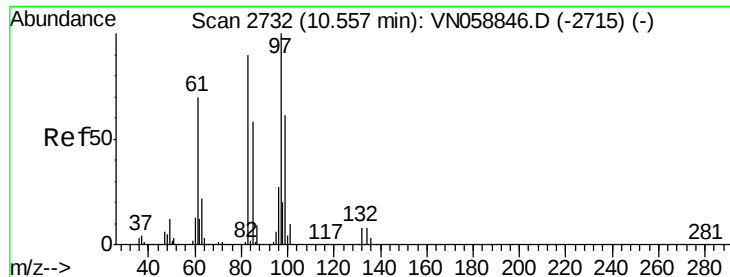
200000

100000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 48.505 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

Tot Ion: 97 Resp: 260828

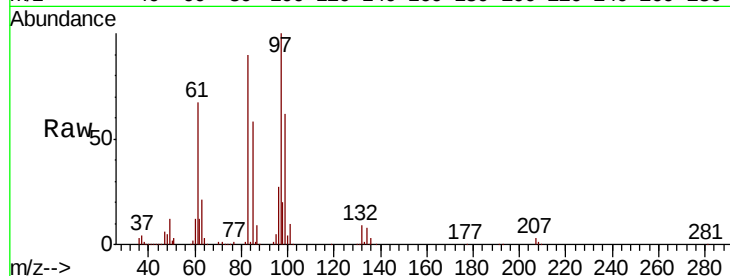
Ion Ratio Lower Upper

97 100

83 90.0 72.2 108.4

85 58.4 46.2 69.2

99 62.3 48.7 73.1

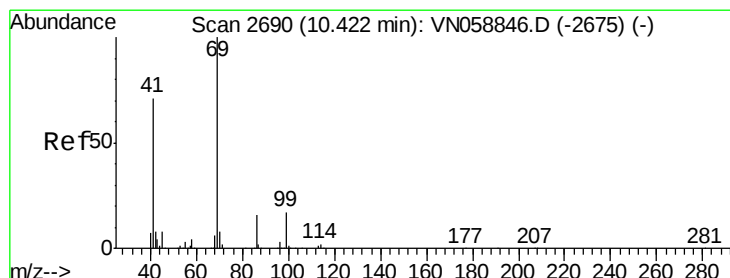
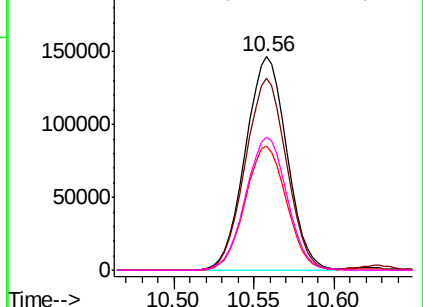
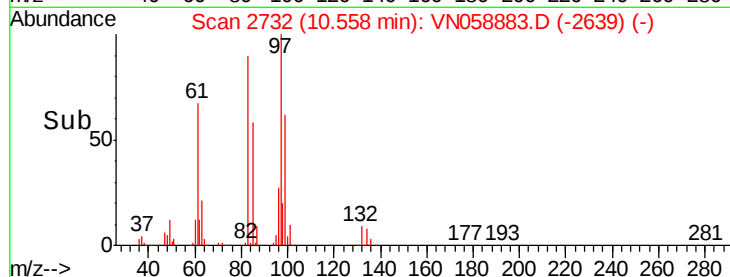


Abundance Ion 96.90 (96.60 to 97.60): VN0

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: 46.742 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

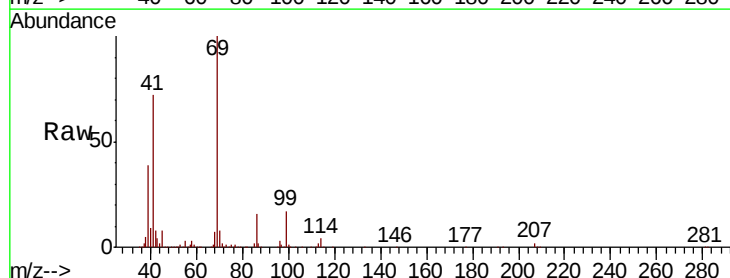
Tgt Ion: 69 Resp: 420914

Ion Ratio Lower Upper

69 100

41 71.6 57.2 85.8

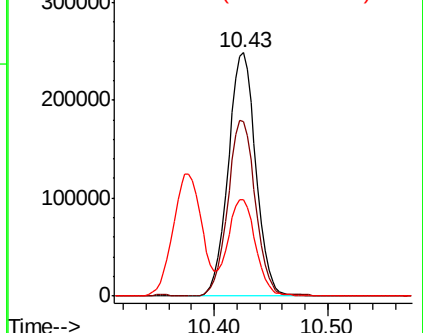
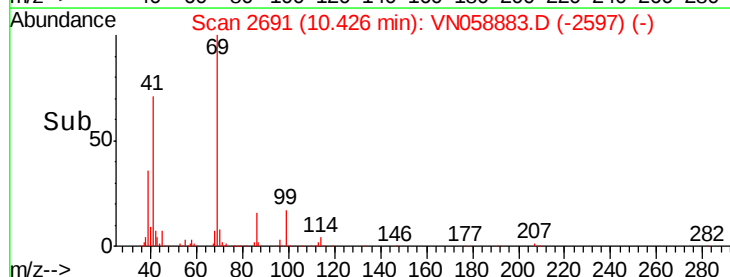
39 40.6 31.0 46.4



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: 49.064 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

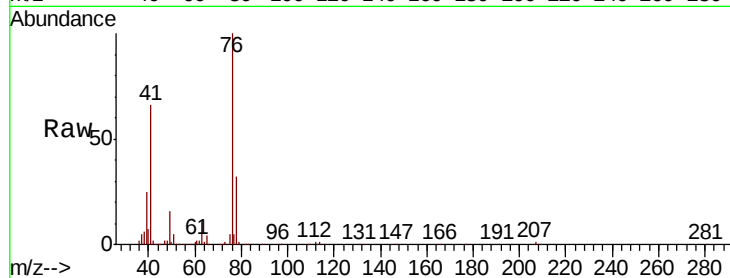
FA19-MMW0422MSD

Tot Ion: 76 Resp: 463051

Ion Ratio Lower Upper

76 100

78 32.2 25.4 38.0



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.70

250000

200000

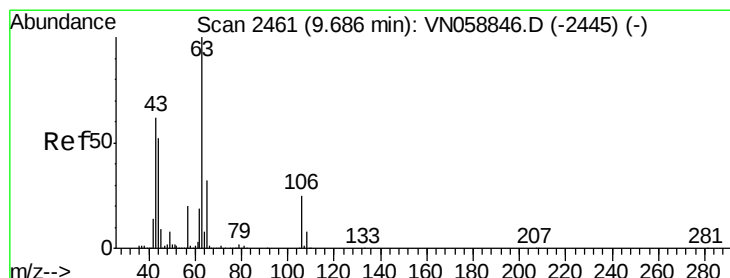
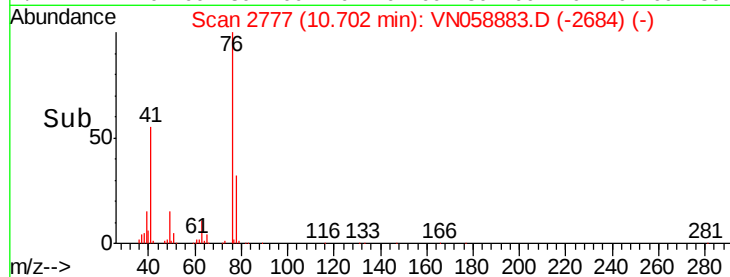
150000

100000

50000

0

Time--> 10.60 10.65 10.70 10.75



#58

2-Chloroethyl Vinyl ether

Concen: 5.742 ug/l

RT: 9.71 min Scan# 2468

Delta R.T. 0.02 min

Lab File: VN058883.D

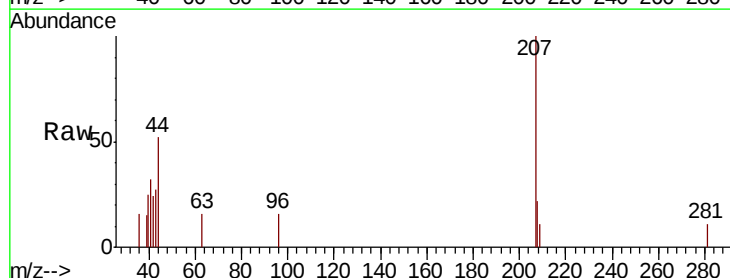
Acq: 21 Oct 2019 13:17

Tgt Ion: 63 Resp: 309

Ion Ratio Lower Upper

63 100

106 0.0 19.8 29.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.71

250

200

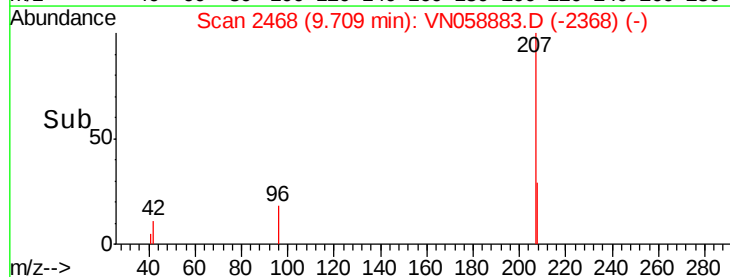
150

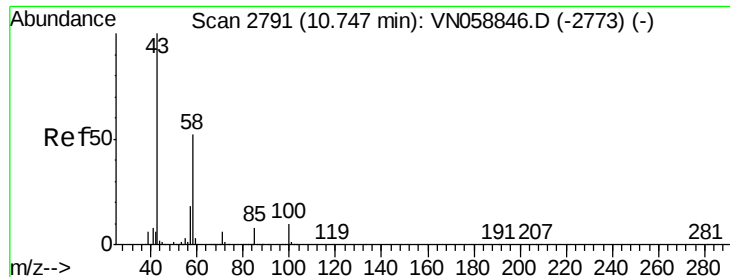
100

50

0

Time--> 9.68 9.70 9.72

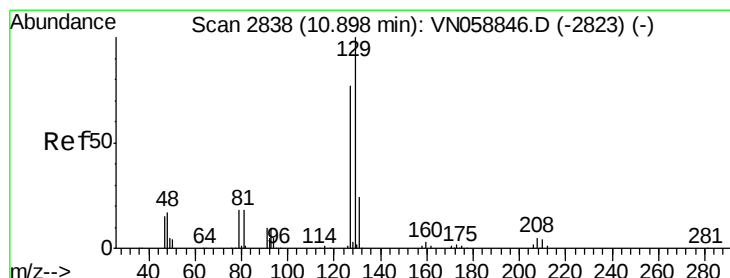
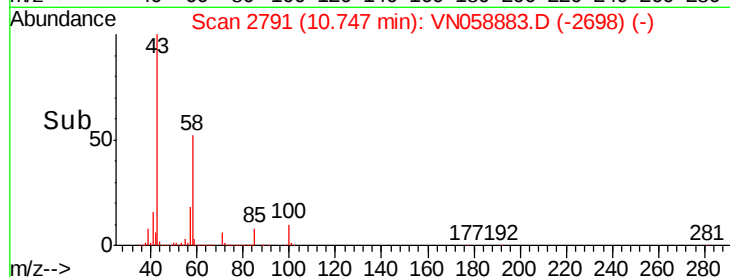
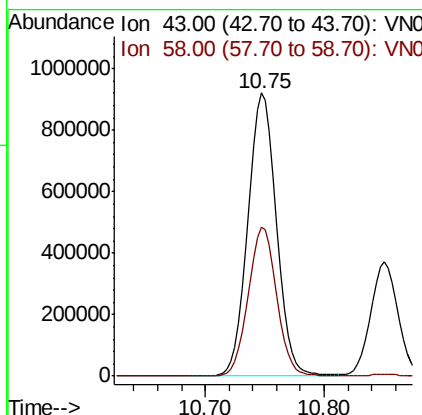
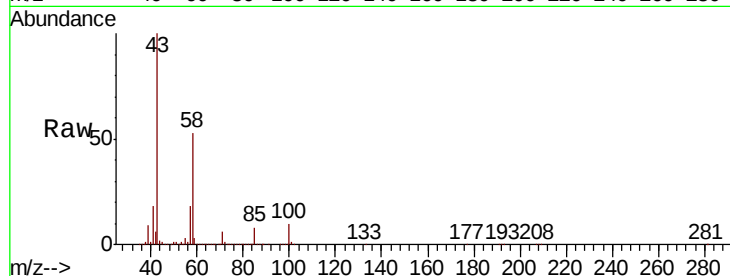




#59
2-Hexanone
Concen: 259.042 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

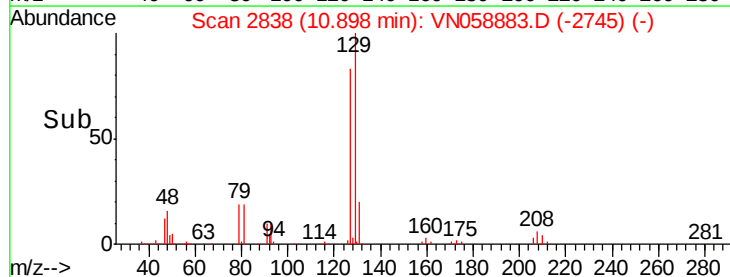
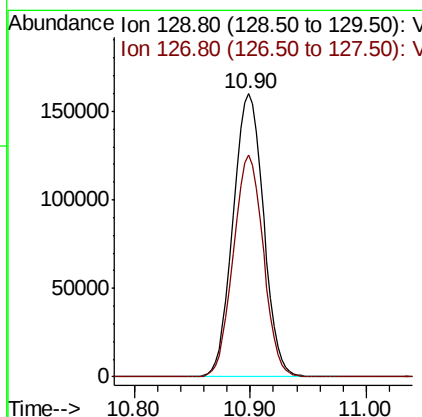
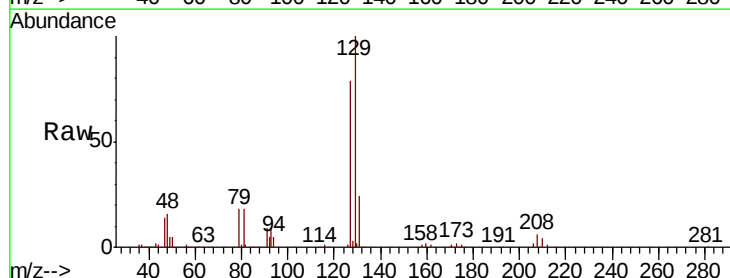
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

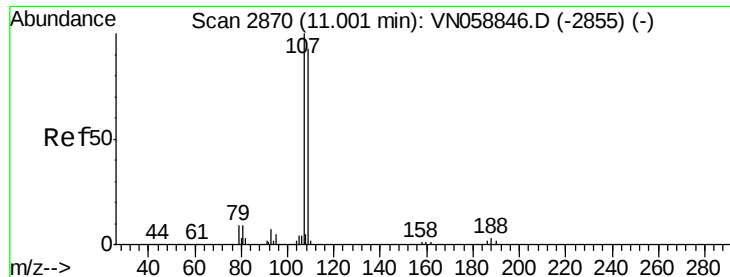
Tot Ion: 43 Resp: 1531521
Ion Ratio Lower Upper
43 100
58 52.5 25.9 77.7



#60
Dibromochloromethane
Concen: 50.228 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 129 Resp: 290717
Ion Ratio Lower Upper
129 100
127 77.3 39.1 117.3

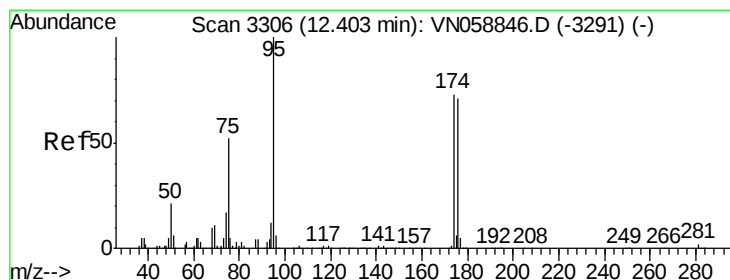
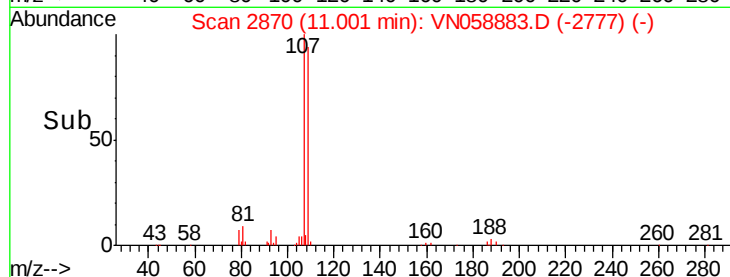
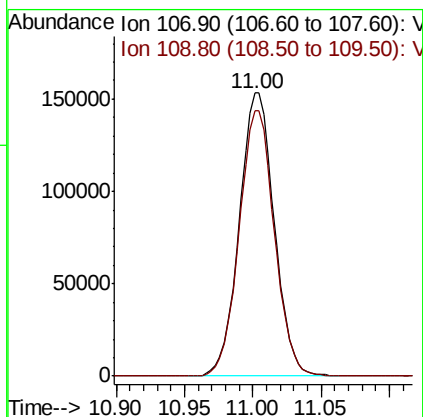
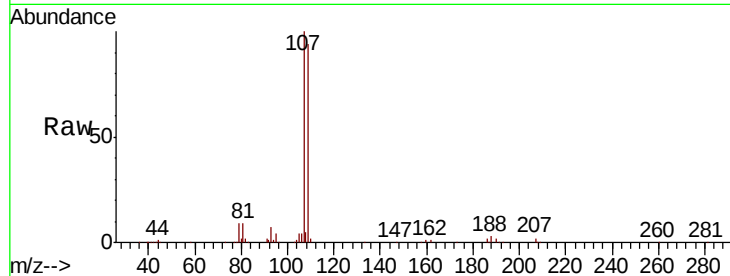




#61
 1,2-Dibromoethane
 Concen: 49.503 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

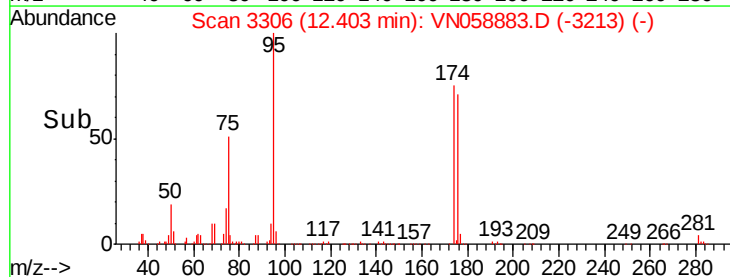
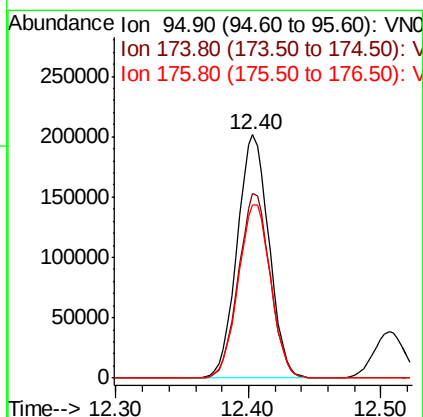
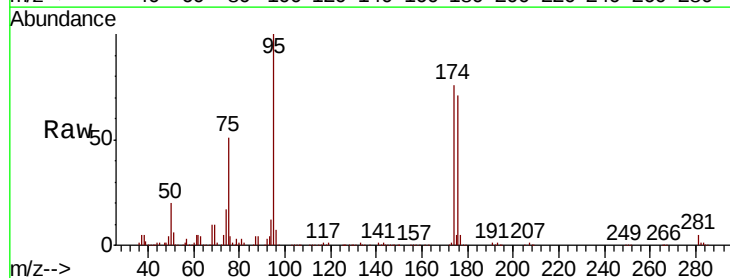
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-MMW0422MSD

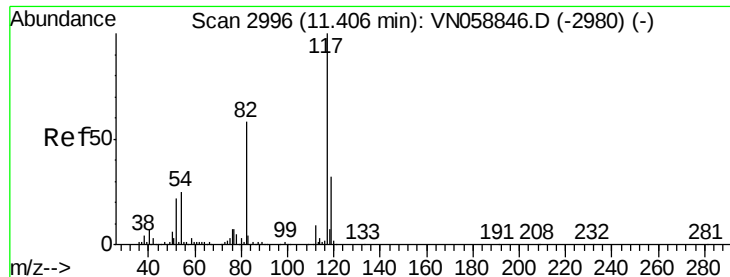
Tot Ion: 107 Resp: 272413
 Ion Ratio Lower Upper
 107 100
 109 94.6 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 48.917 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Tgt Ion: 95 Resp: 335680
 Ion Ratio Lower Upper
 95 100
 174 75.6 0.0 147.6
 176 72.8 0.0 143.2

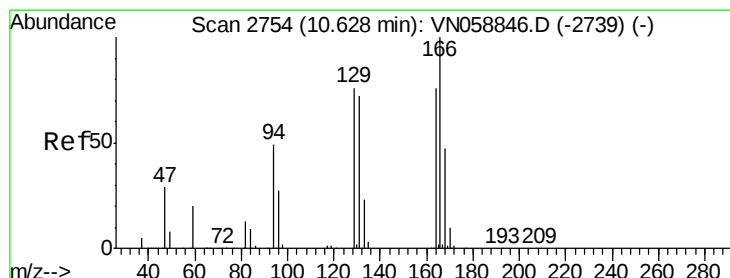
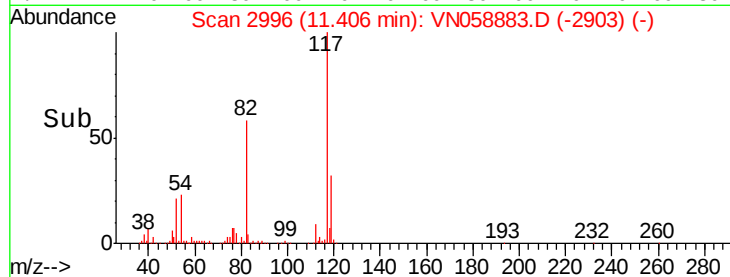
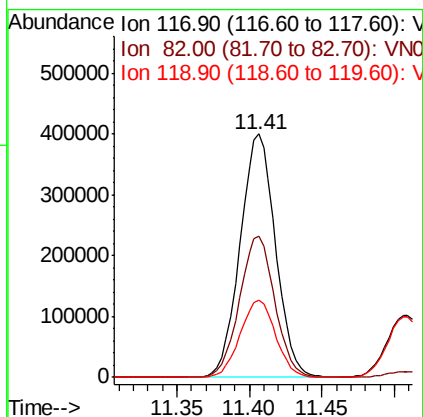
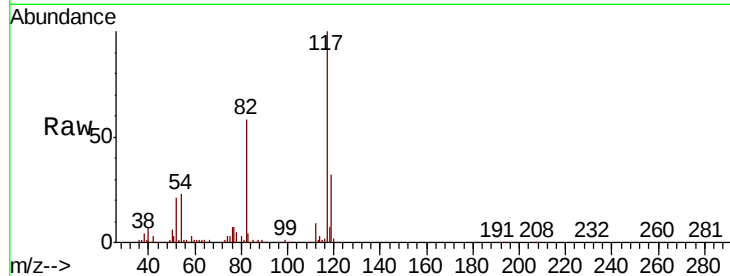




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

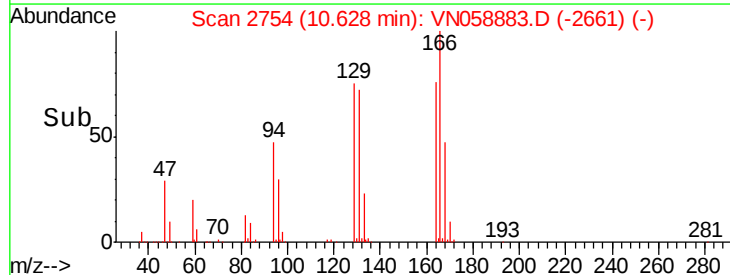
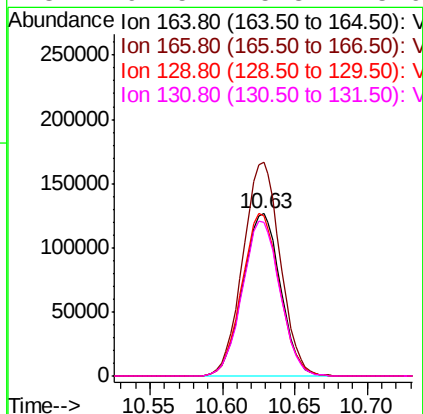
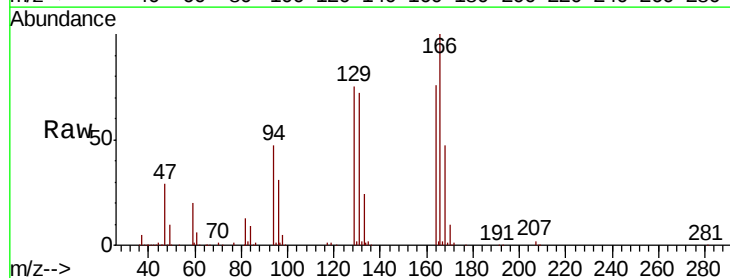
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

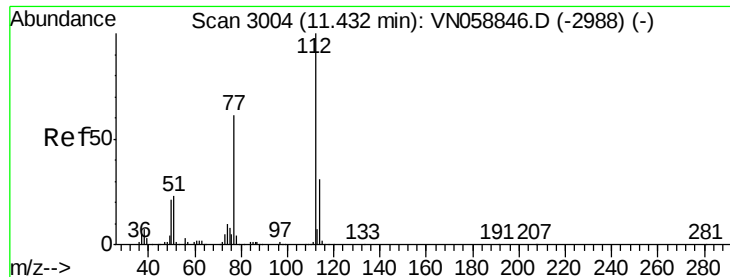
Tot Ion:117 Resp: 677908
Ion Ratio Lower Upper
117 100
82 58.0 46.6 69.8
119 31.6 25.6 38.4



#64
Tetrachloroethene
Concen: 48.252 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion:164 Resp: 229082
Ion Ratio Lower Upper
164 100
166 131.7 104.8 157.2
129 98.4 79.3 118.9
131 94.5 75.8 113.6





#65

Chlorobenzene

Concen: 49.715 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

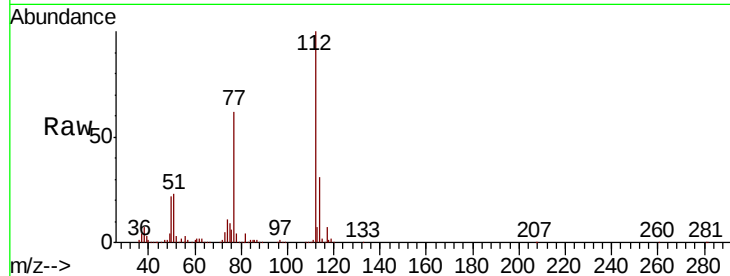
FA19-MMW0422MSD

Tot Ion:112 Resp: 686130

Ion Ratio Lower Upper

112 100

114 31.5 25.1 37.7



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

400000

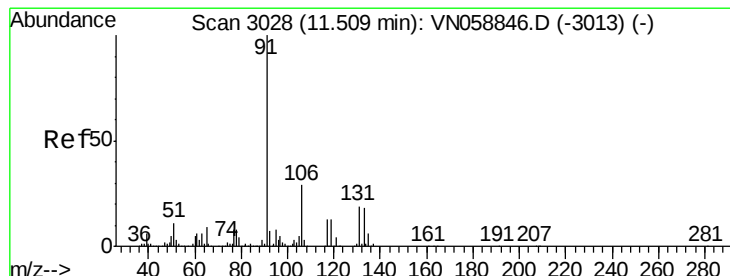
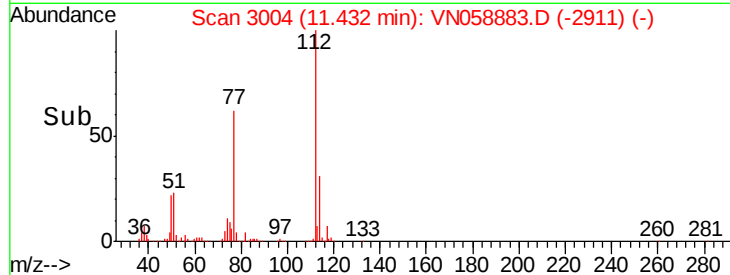
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 50.748 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

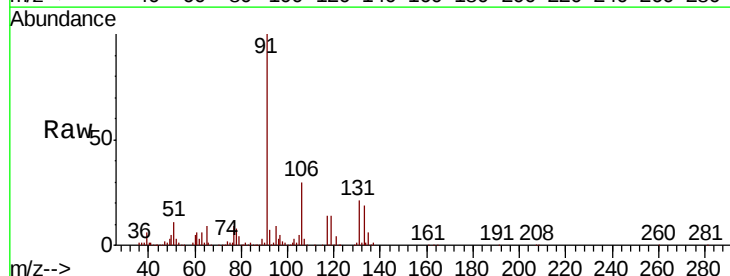
Tgt Ion:131 Resp: 264297

Ion Ratio Lower Upper

131 100

133 94.2 48.4 145.2

119 66.3 33.6 100.8



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

200000

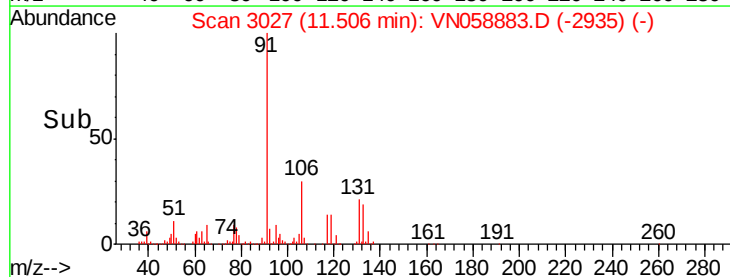
150000

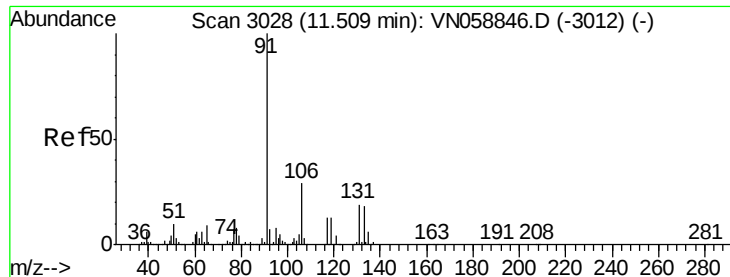
100000

50000

0

Time-->

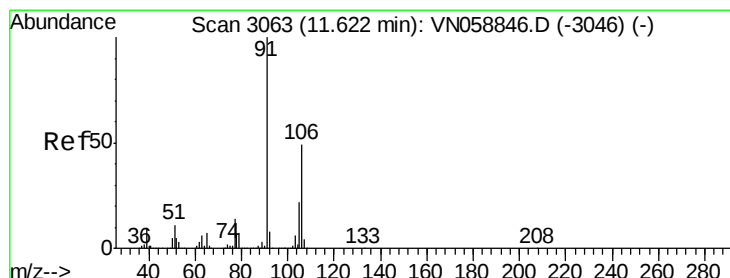
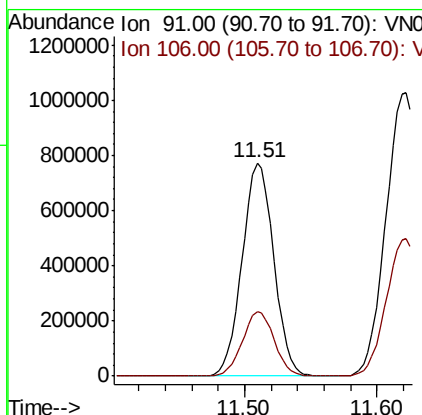
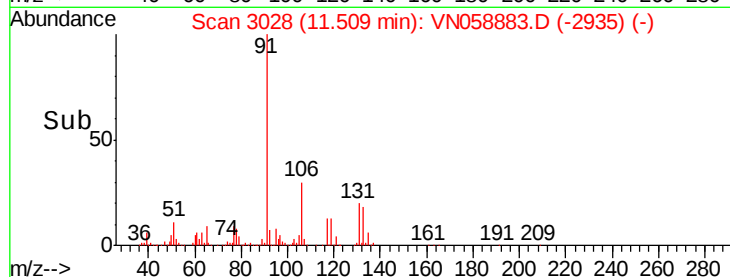
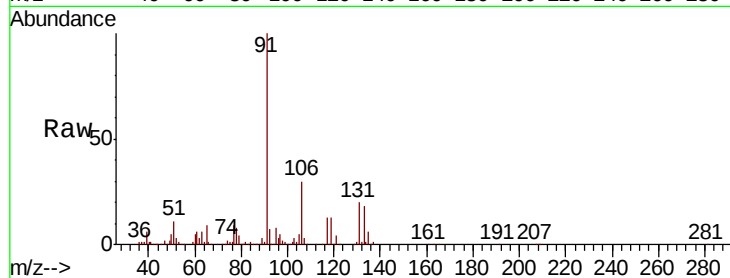




#67
Ethyl Benzene
Concen: 52.792 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

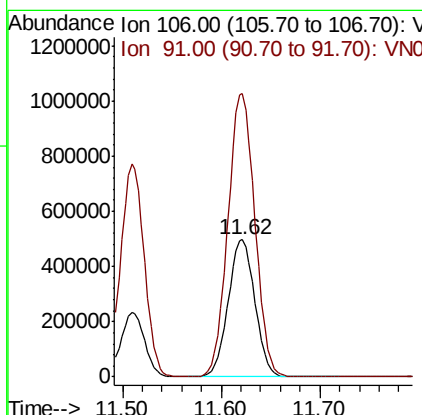
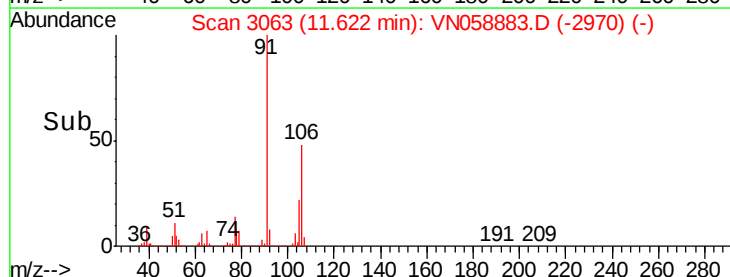
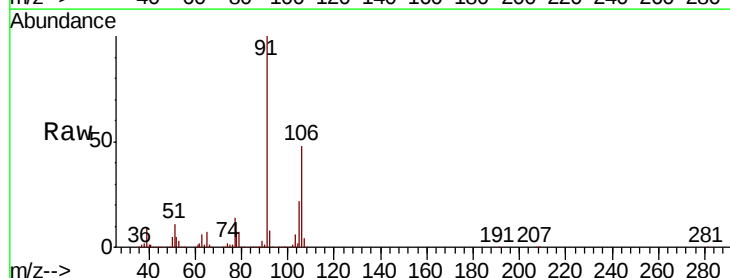
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

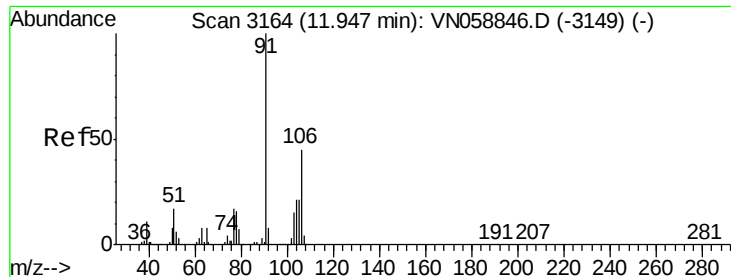
Tot Ion: 91 Resp: 1278117
Ion Ratio Lower Upper
91 100
106 30.2 23.4 35.0



#68
m/p-Xylenes
Concen: 104.504 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 106 Resp: 938281
Ion Ratio Lower Upper
106 100
91 208.9 166.6 249.8

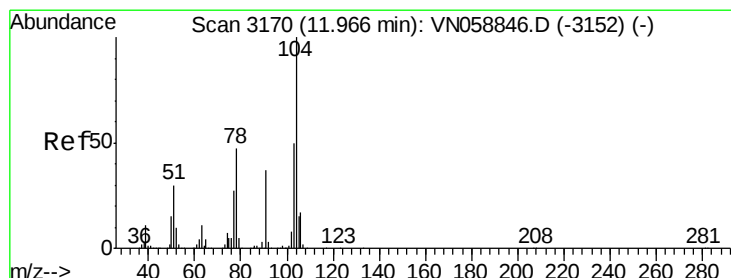
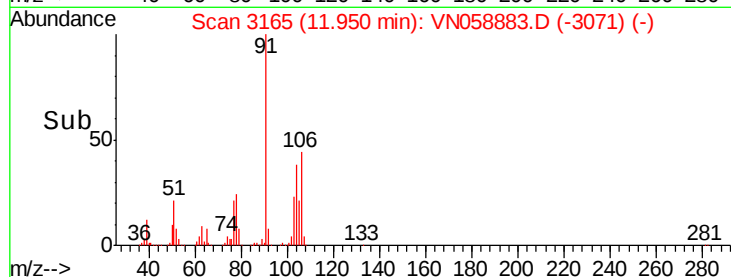
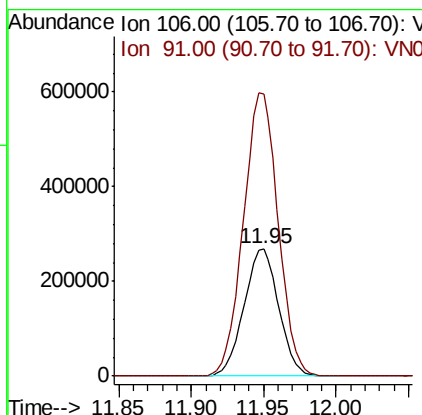
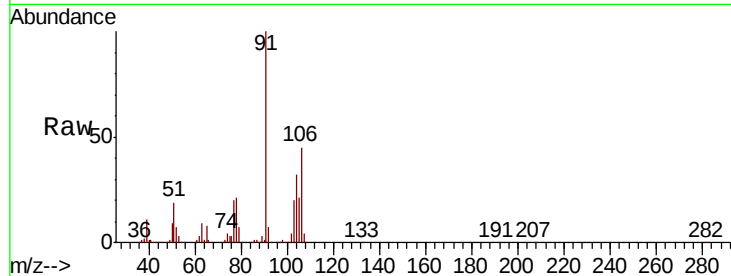




#69
o-Xylene
Concen: 52.310 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

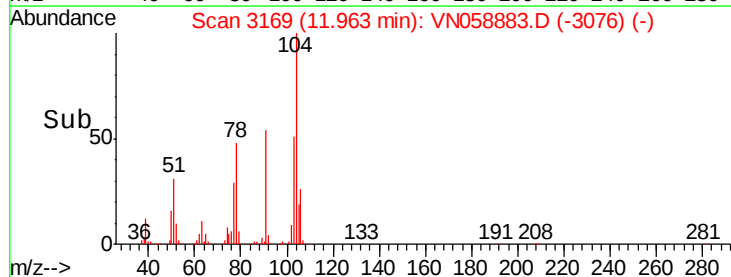
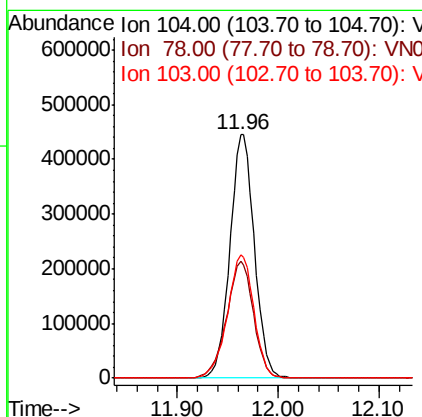
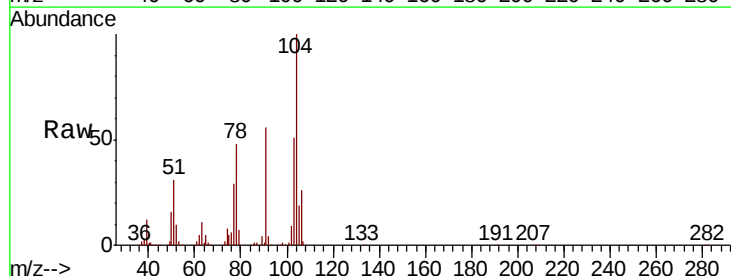
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

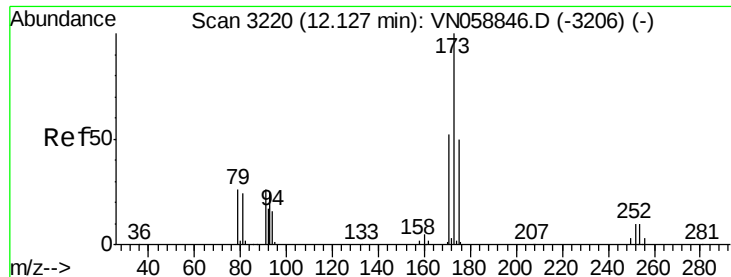
Tot Ion:106 Resp: 447933
Ion Ratio Lower Upper
106 100
91 222.7 111.5 334.4



#70
Styrene
Concen: 47.733 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion:104 Resp: 753206
Ion Ratio Lower Upper
104 100
78 52.9 42.8 64.2
103 54.9 44.3 66.5





#71

Bromoform

Concen: 51.170 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

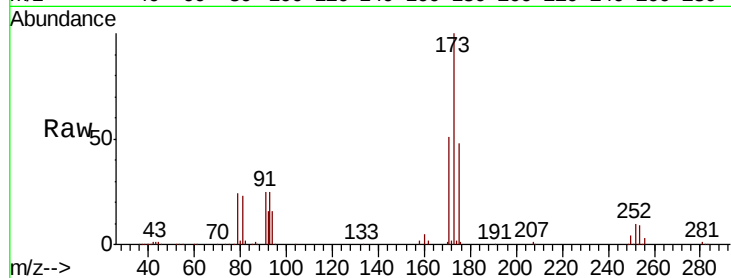
Tot Ion:173 Resp: 206653

Ion Ratio Lower Upper

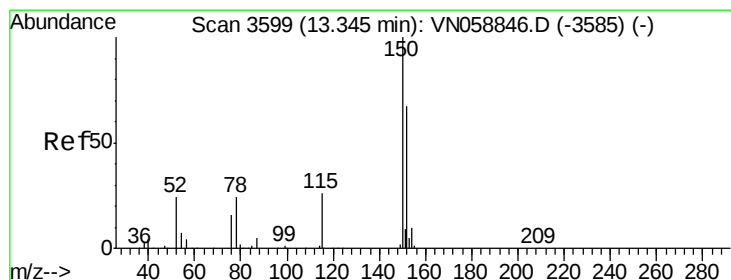
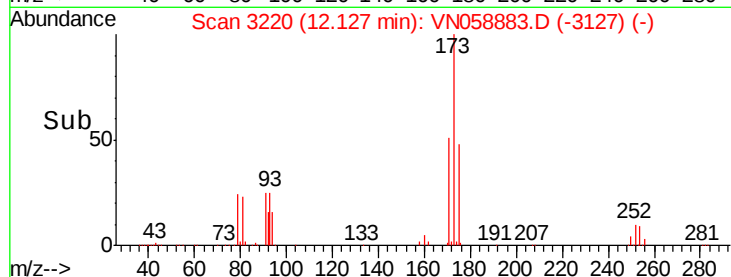
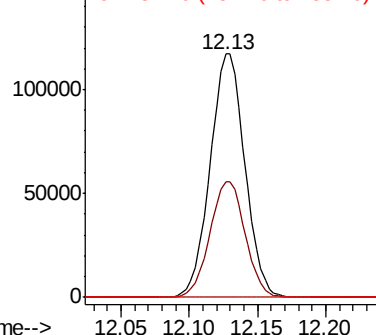
173 100

175 48.3 24.7 74.1

254 0.1 0.0 0.0#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

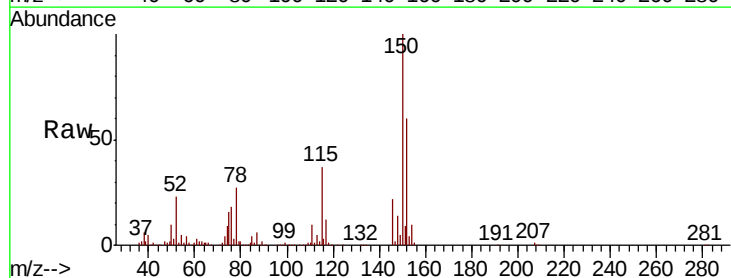
Tgt Ion:152 Resp: 316146

Ion Ratio Lower Upper

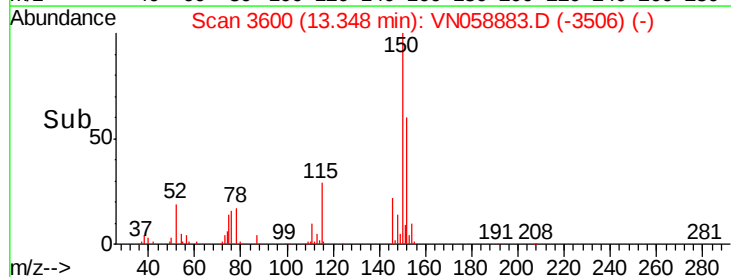
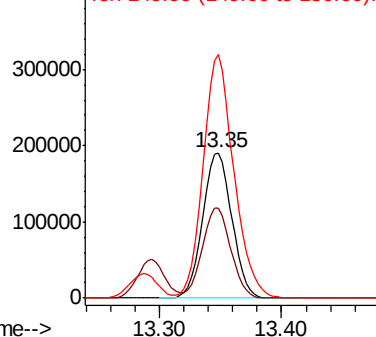
152 100

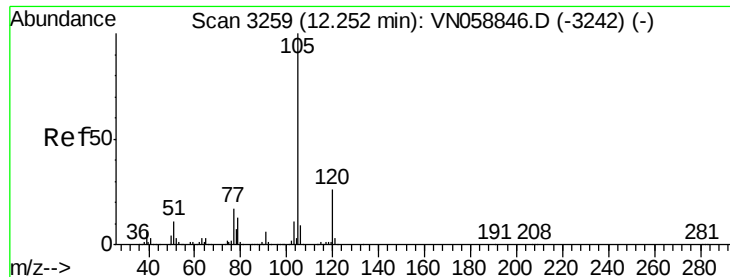
115 61.2 30.5 91.5

150 176.5 0.0 344.4



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





#73

Isopropylbenzene

Concen: 53.062 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

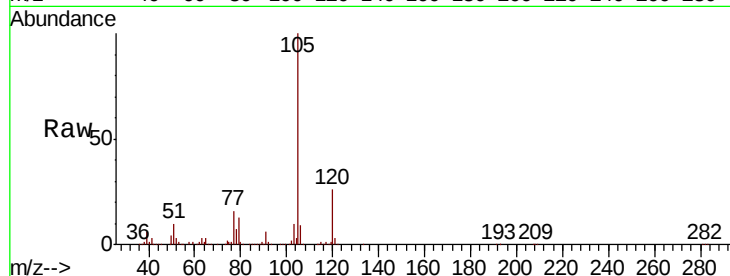
FA19-MMW0422MSD

Tot Ion:105 Resp: 1225957

Ion Ratio Lower Upper

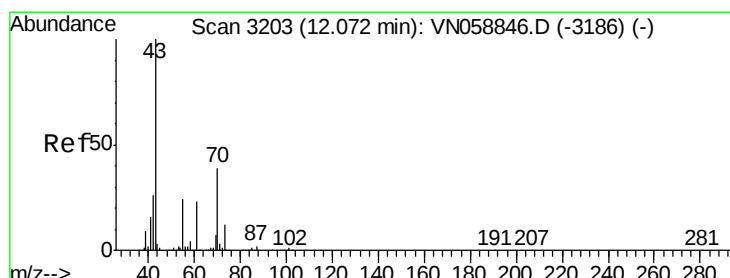
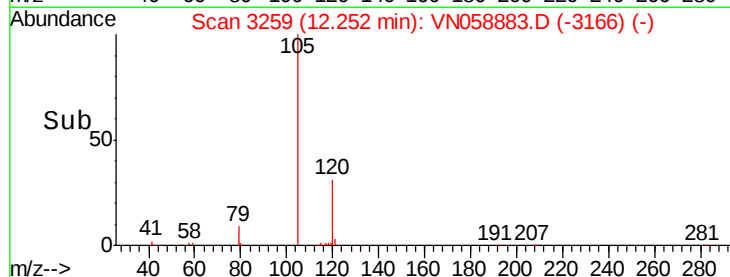
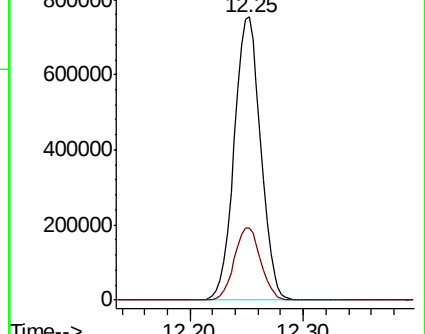
105 100

120 25.6 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-ethyl acetate

Concen: 55.543 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Tgt Ion: 43 Resp: 581785

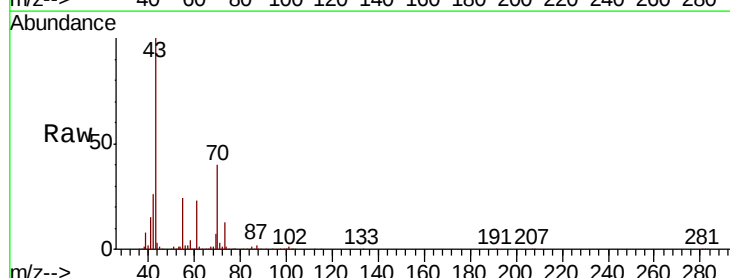
Ion Ratio Lower Upper

43 100

70 39.4 30.9 46.3

55 24.2 19.7 29.5

61 23.0 18.2 27.4

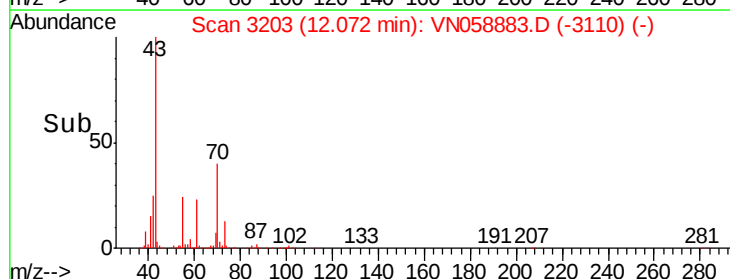
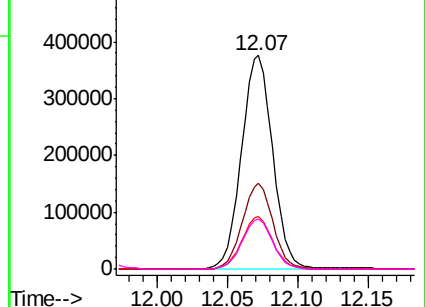


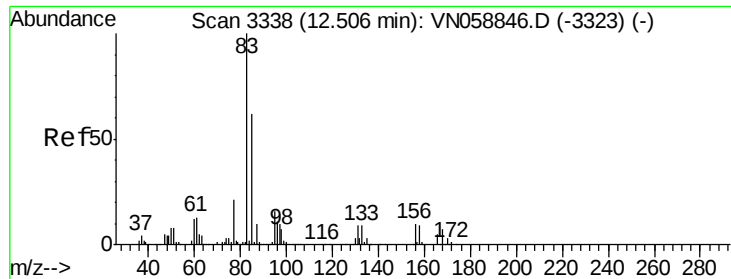
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 49.563 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

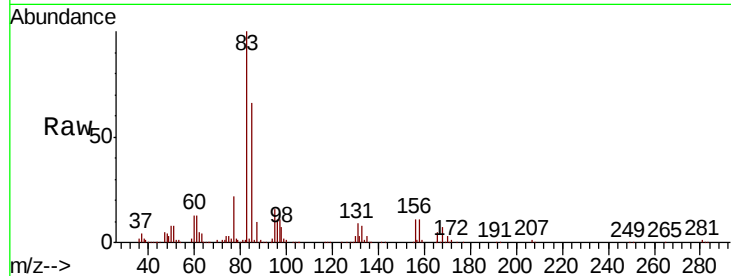
Tot Ion: 83 Resp: 402652

Ion Ratio Lower Upper

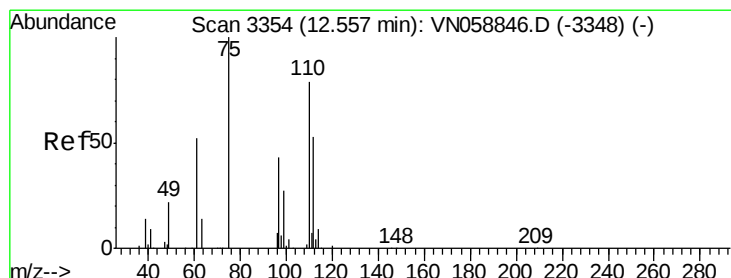
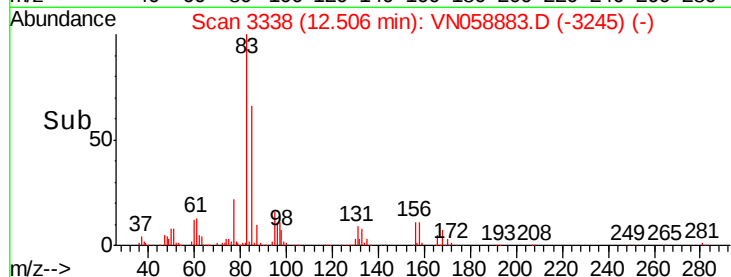
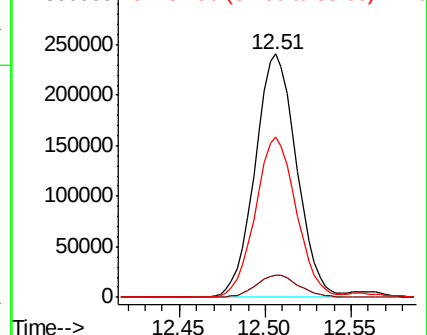
83 100

131 9.5 4.7 14.1

85 65.0 31.7 95.1



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 74.956 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN058883.D

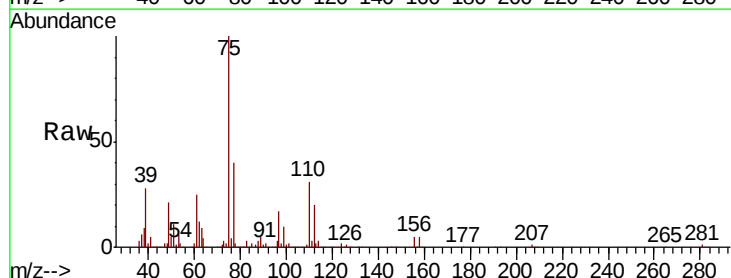
Acq: 21 Oct 2019 13:17

Tgt Ion: 75 Resp: 549203

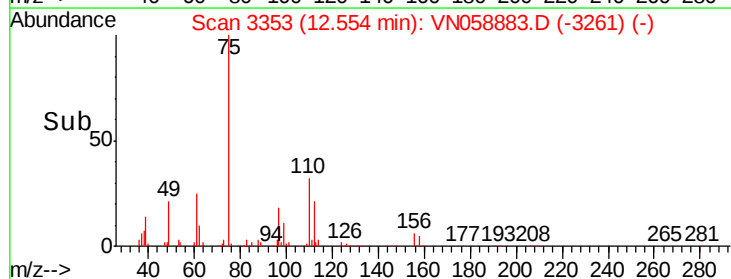
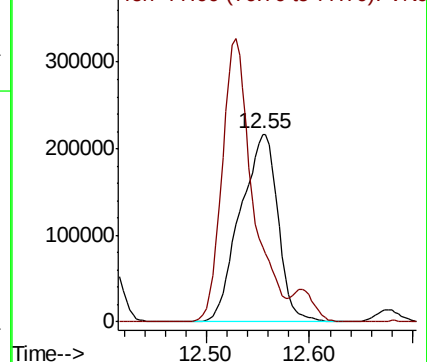
Ion Ratio Lower Upper

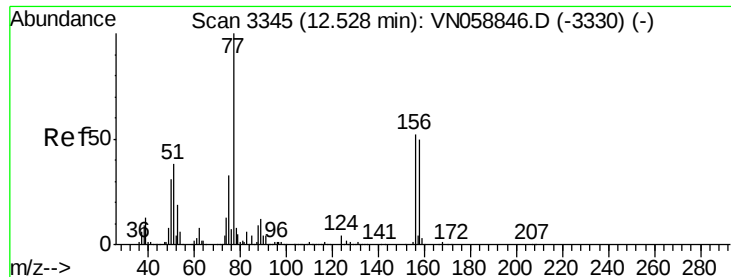
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 50.602 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

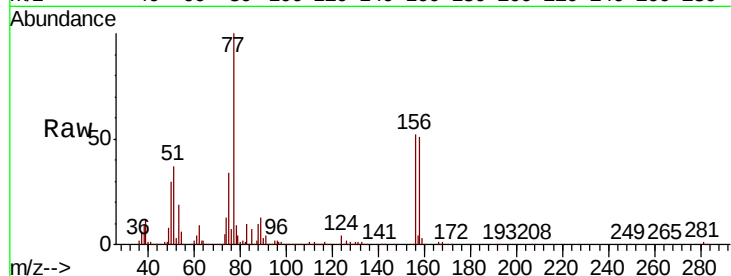
Tot Ion:156 Resp: 288169

Ion Ratio Lower Upper

156 100

77 232.7 118.0 354.0

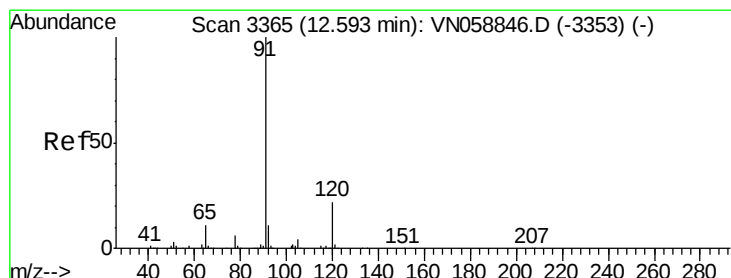
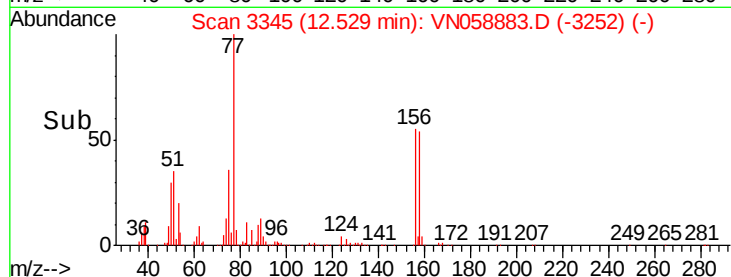
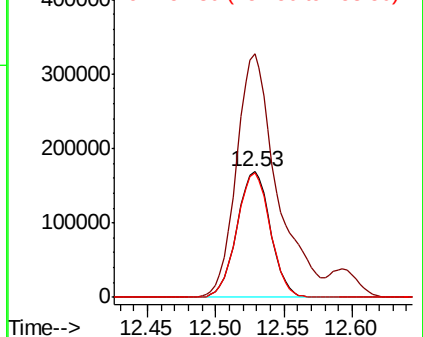
158 98.6 48.3 144.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 52.824 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN058883.D

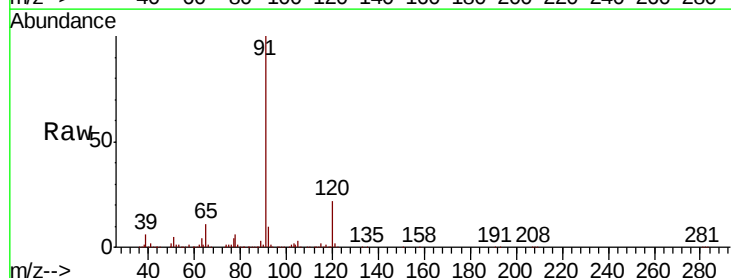
Acq: 21 Oct 2019 13:17

Tgt Ion: 91 Resp: 1442646

Ion Ratio Lower Upper

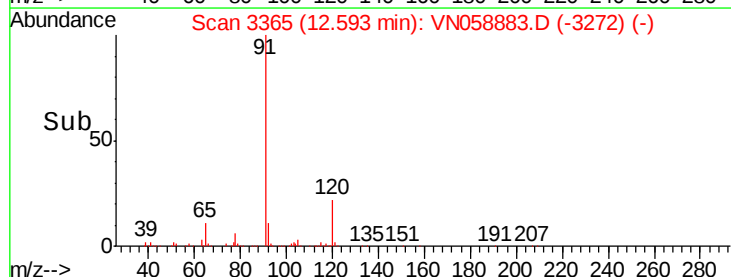
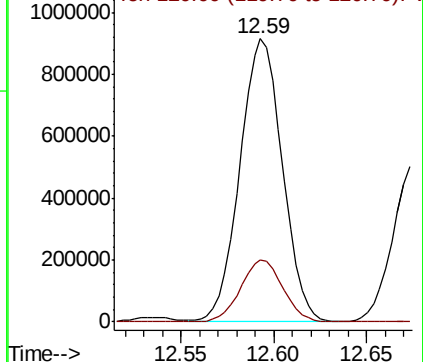
91 100

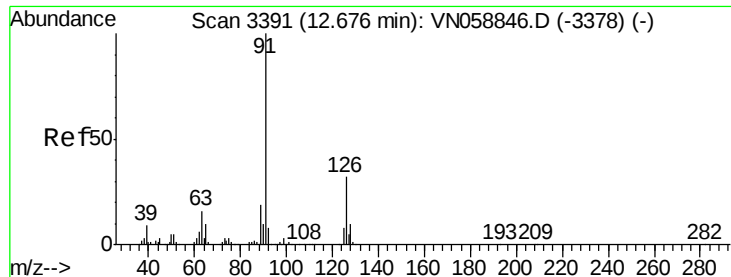
120 21.8 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

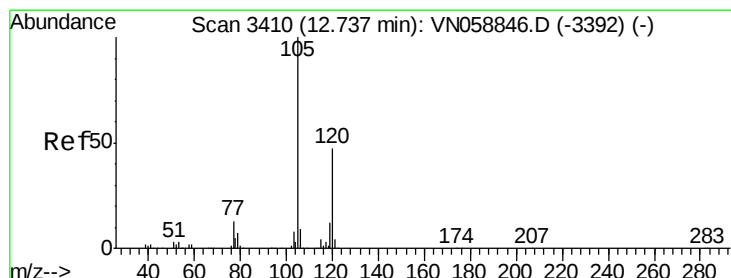
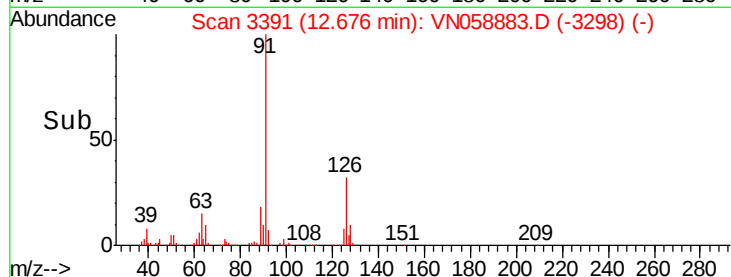
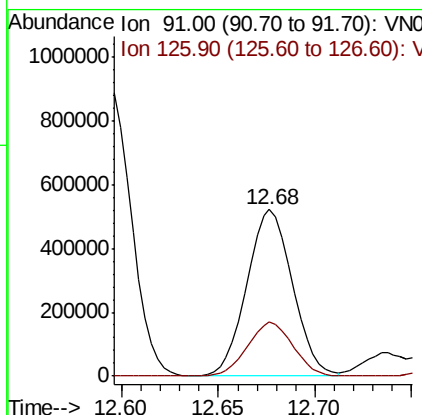
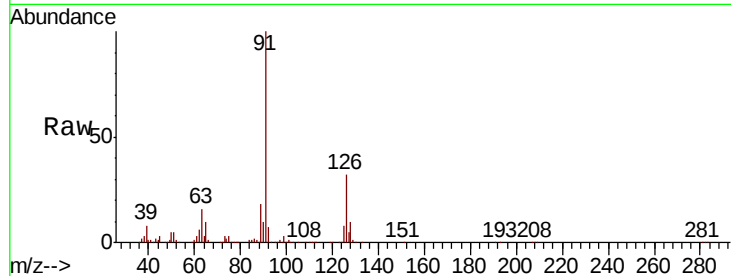




#79
2-Chlorotoluene
Concen: 51.001 ug/l
RT: 12.68 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

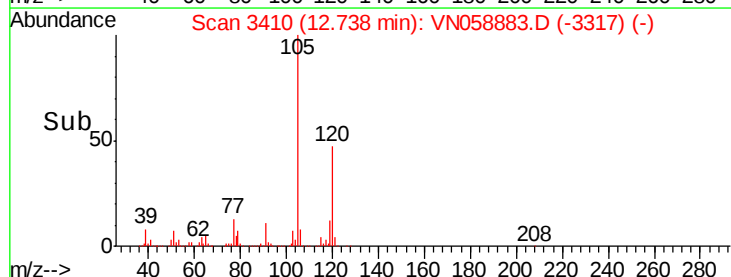
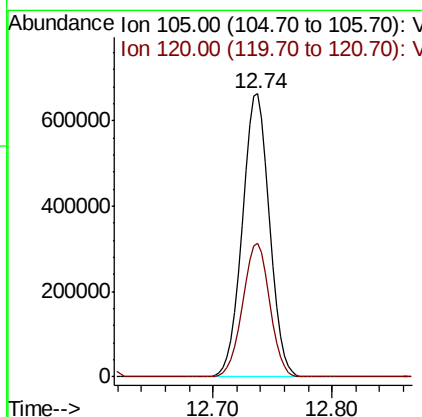
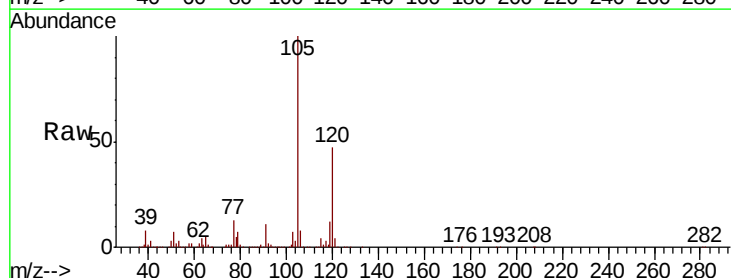
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

Tot Ion: 91 Resp: 852477
Ion Ratio Lower Upper
91 100
126 32.6 16.2 48.6



#80
1,3,5-Trimethylbenzene
Concen: 53.801 ug/l
RT: 12.74 min Scan# 3410
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion:105 Resp: 1044375
Ion Ratio Lower Upper
105 100
120 47.4 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 52.079 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

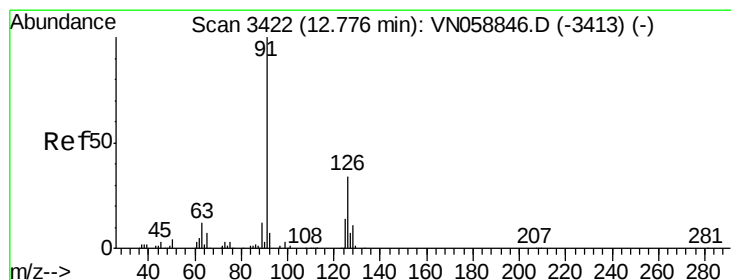
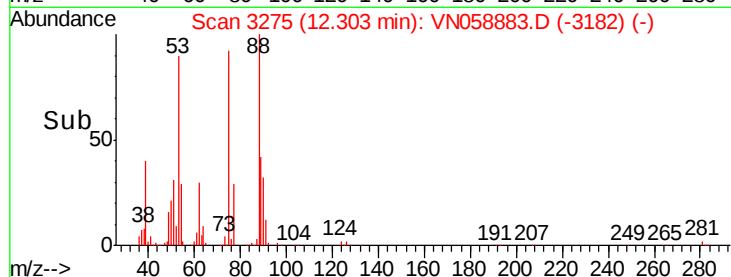
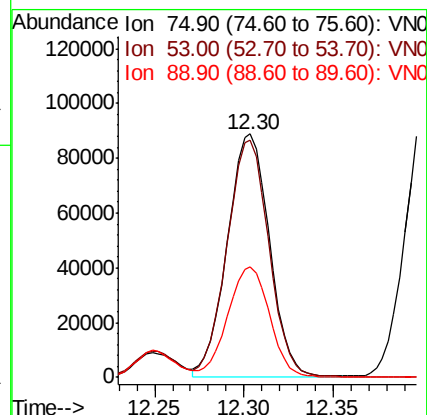
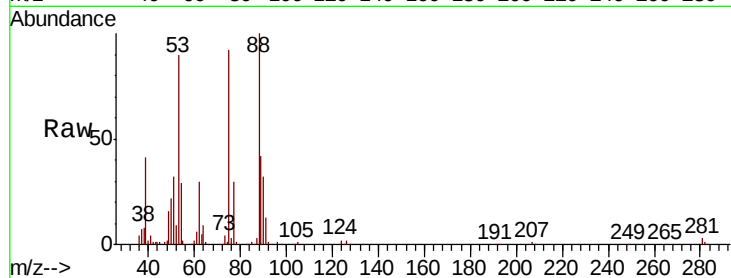
Tot Ion: 75 Resp: 146476

Ion Ratio Lower Upper

75 100

53 97.4 78.6 118.0

89 45.5 35.4 53.0



#82

4-Chlorotoluene

Concen: 51.476 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN058883.D

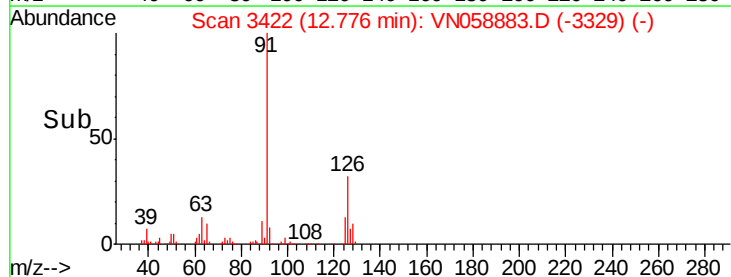
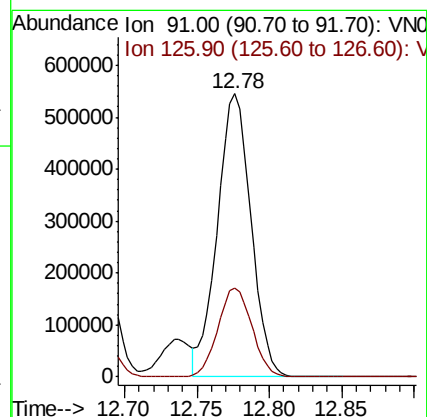
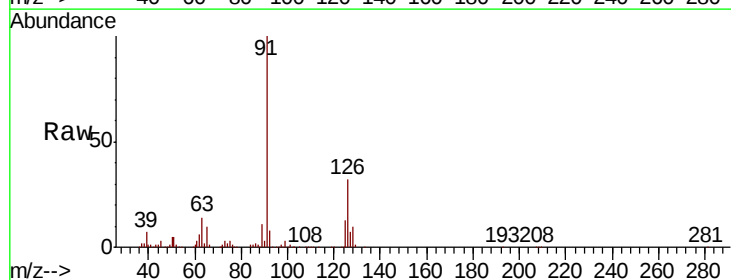
Acq: 21 Oct 2019 13:17

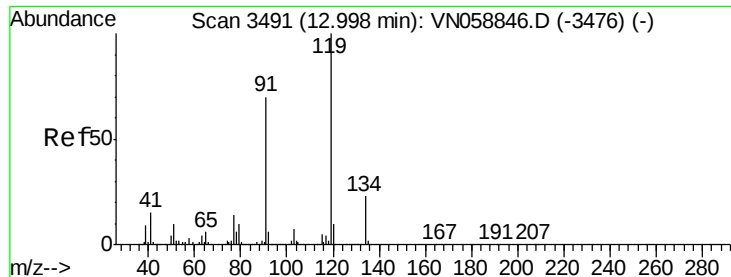
Tgt Ion: 91 Resp: 879285

Ion Ratio Lower Upper

91 100

126 32.0 16.0 47.9

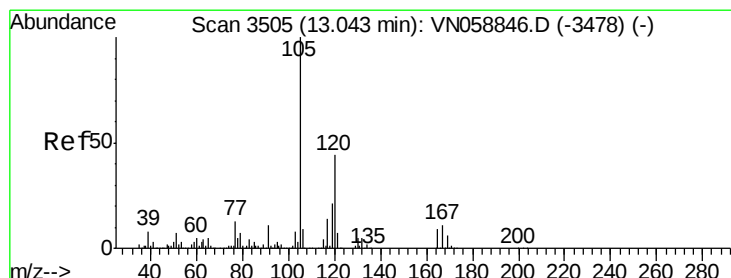
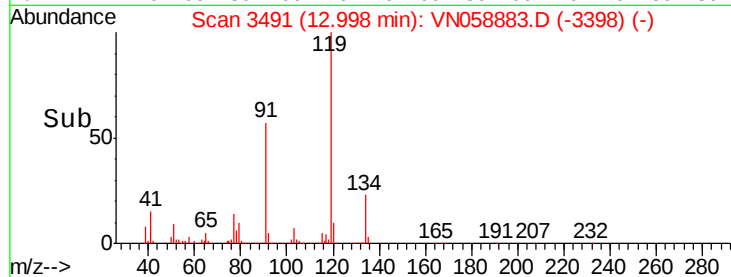
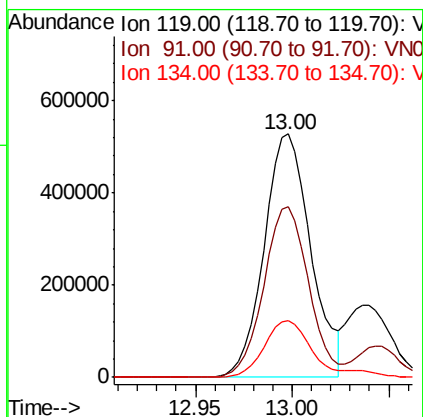
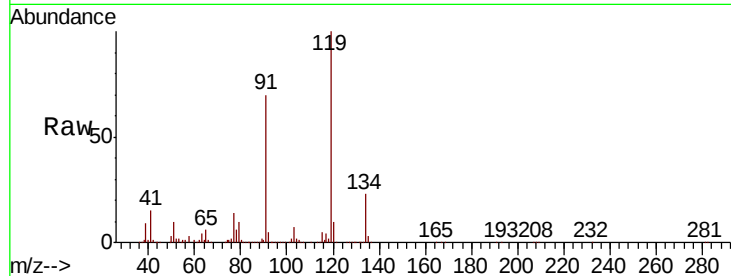




#83
 tert-Butylbenzene
 Concen: 53.433 ug/l
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

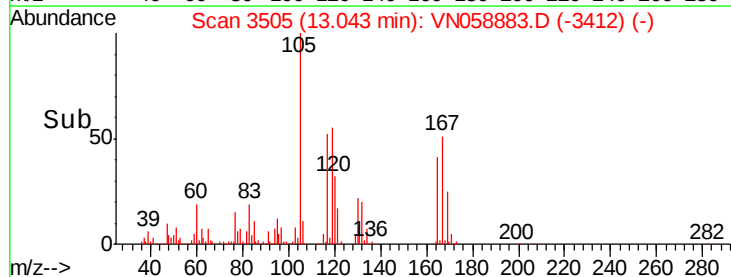
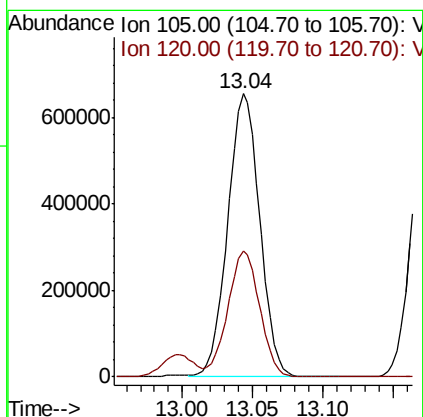
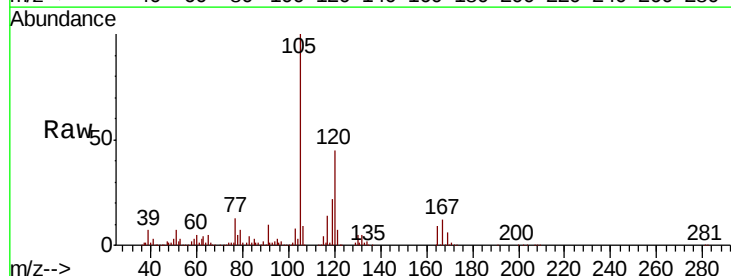
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-MMW0422MSD

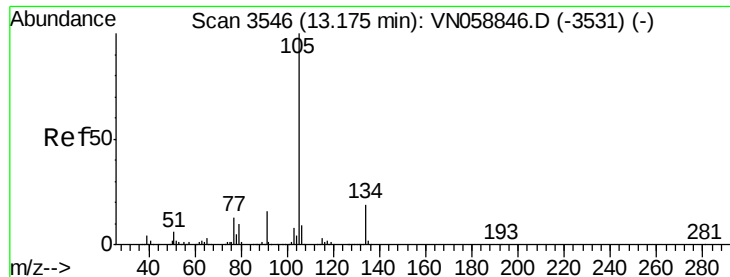
Tot Ion:119 Resp: 886968
 Ion Ratio Lower Upper
 119 100
 91 67.4 34.1 102.3
 134 22.9 11.6 34.8



#84
 1,2,4-Trimethylbenzene
 Concen: 54.251 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Tgt Ion:105 Resp: 1038740
 Ion Ratio Lower Upper
 105 100
 120 44.3 21.9 65.8





#85

sec-Butylbenzene

Concen: 53.367 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

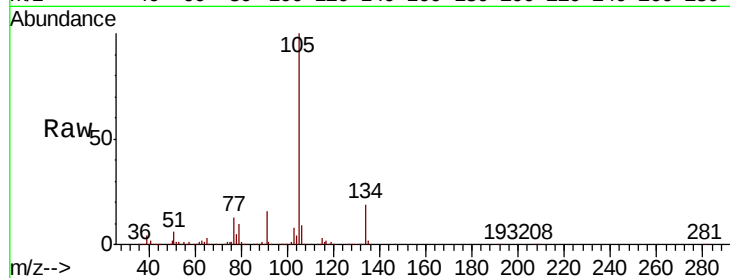
FA19-MMW0422MSD

Tot Ion:105 Resp: 1181093

Ion Ratio Lower Upper

105 100

134 19.1 9.4 28.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

800000

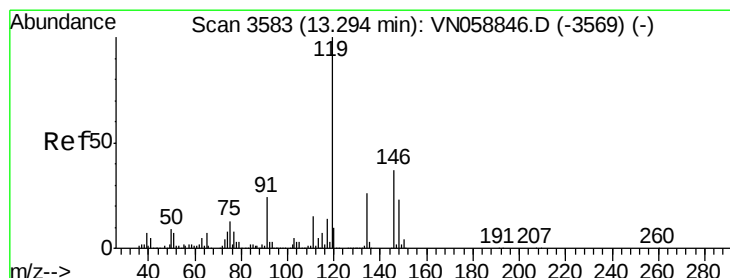
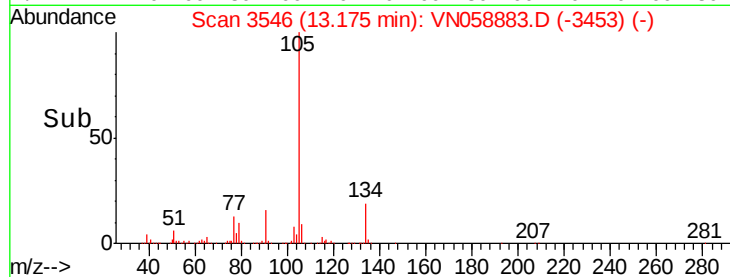
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 54.545 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

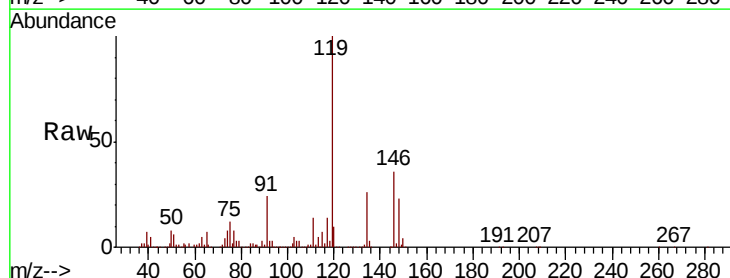
Tgt Ion:119 Resp: 1065144

Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

91 24.3 12.2 36.4



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

13.29

800000

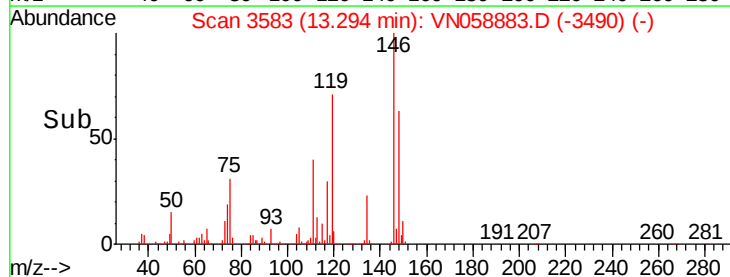
600000

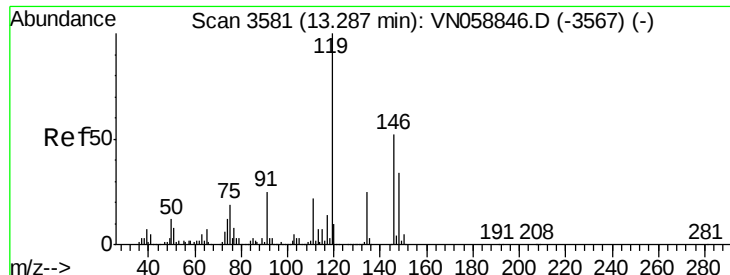
400000

200000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 50.694 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

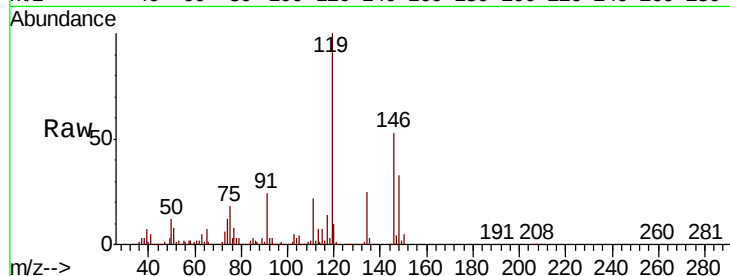
Tot Ion:146 Resp: 516207

Ion Ratio Lower Upper

146 100

111 41.9 21.0 63.0

148 63.2 32.1 96.3

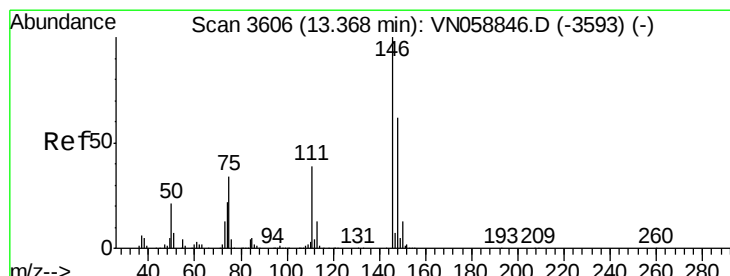
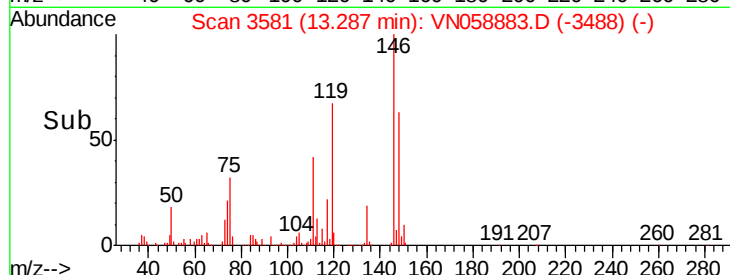
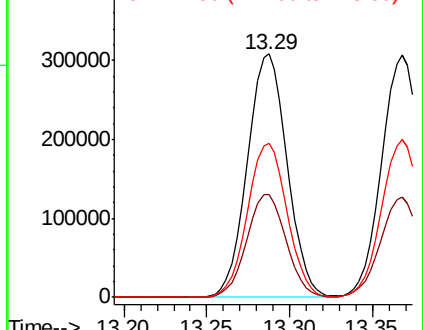


Abundance

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: 49.682 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

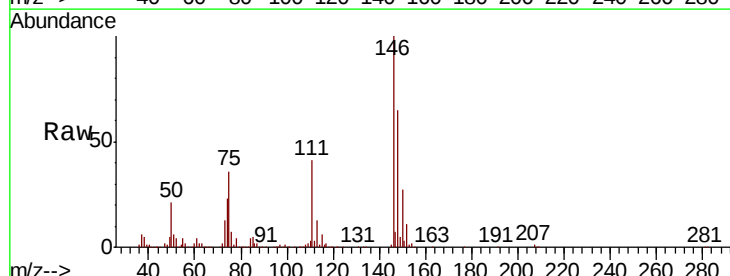
Tgt Ion:146 Resp: 506500

Ion Ratio Lower Upper

146 100

111 41.5 20.2 60.6

148 65.1 31.6 94.7

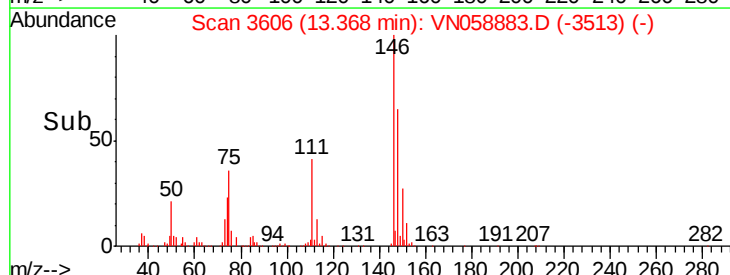
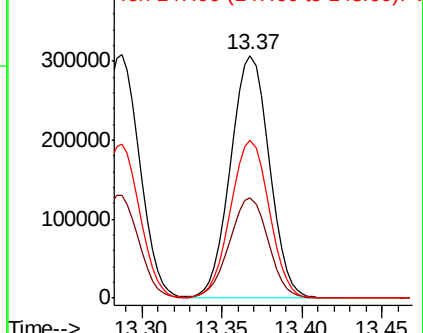


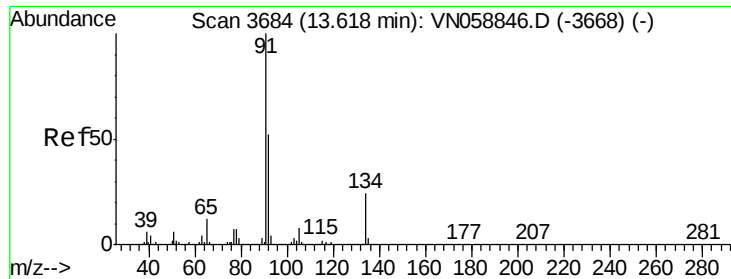
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

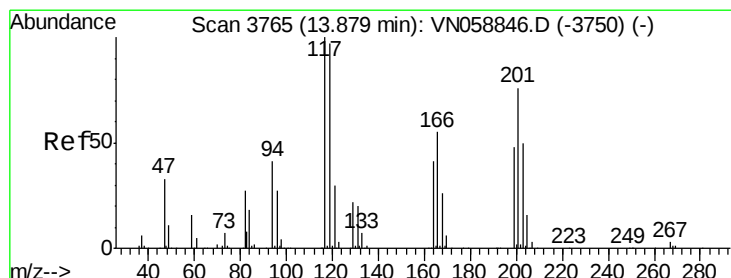
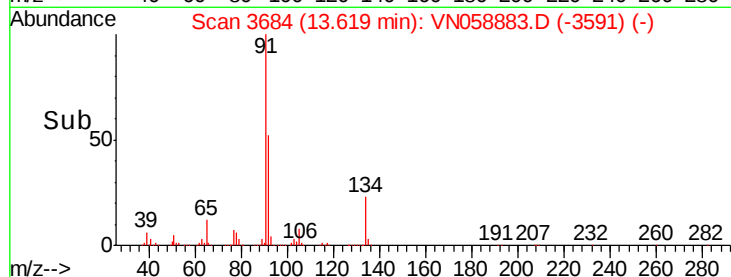
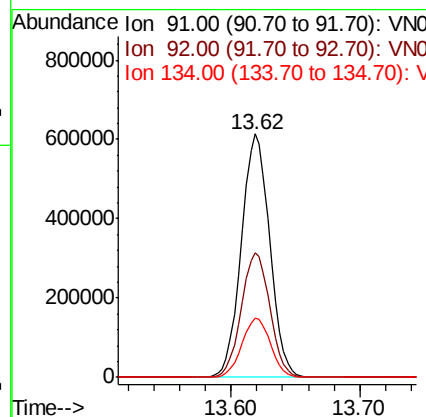
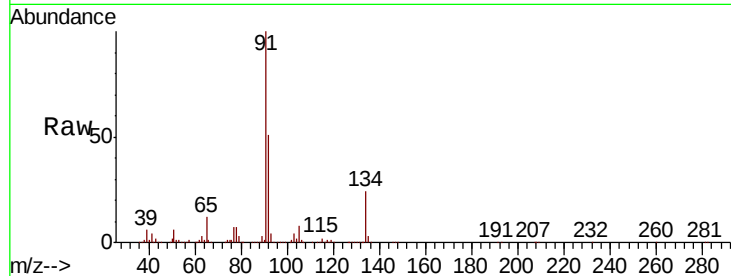




#89
n-Butylbenzene
Concen: 52.392 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

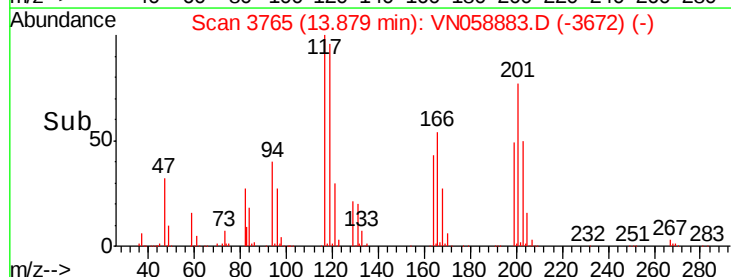
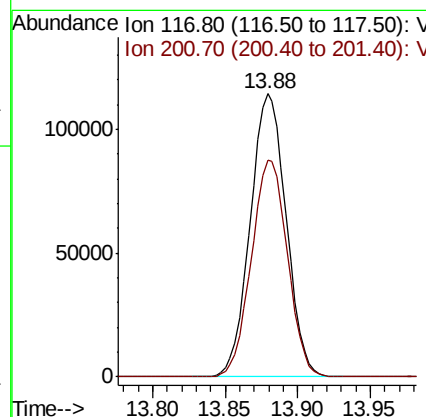
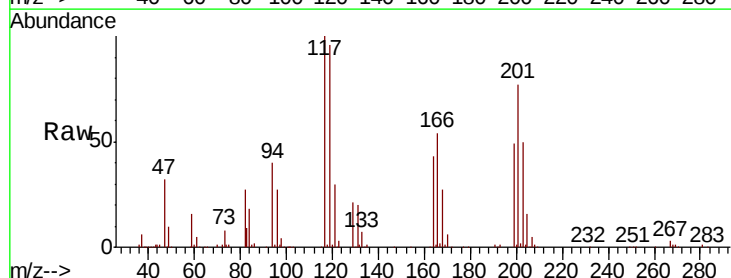
Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

Tot Ion: 91 Resp: 939843
Ion Ratio Lower Upper
91 100
92 51.5 25.7 77.1
134 24.6 11.9 35.5



#90
Hexachloroethane
Concen: 49.818 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion: 117 Resp: 197129
Ion Ratio Lower Upper
117 100
201 77.0 38.9 116.6





#91

1,2-Dichlorobenzene

Concen: 51.309 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-MMW0422MSD

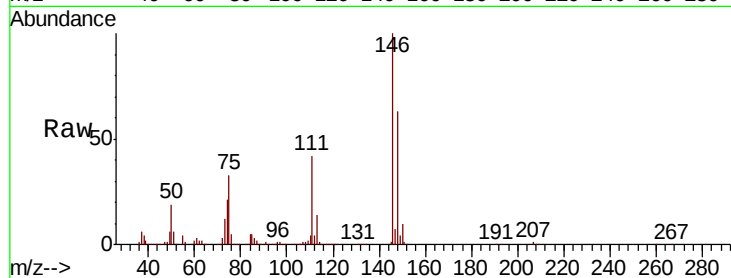
Tot Ion:146 Resp: 513522

Ion Ratio Lower Upper

146 100

111 42.9 21.6 64.8

148 63.2 31.9 95.9

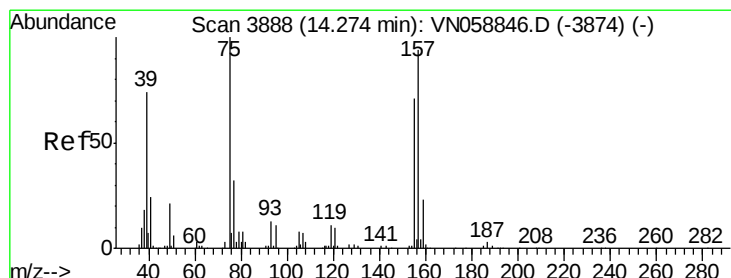
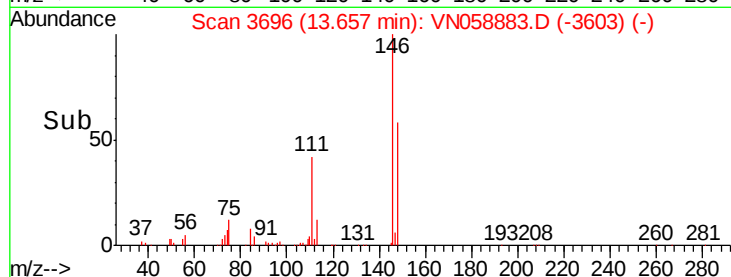
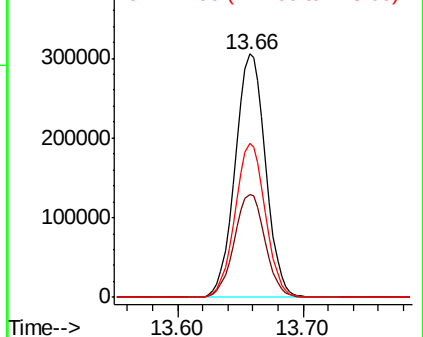


Abundance

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 47.282 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN058883.D

Acq: 21 Oct 2019 13:17

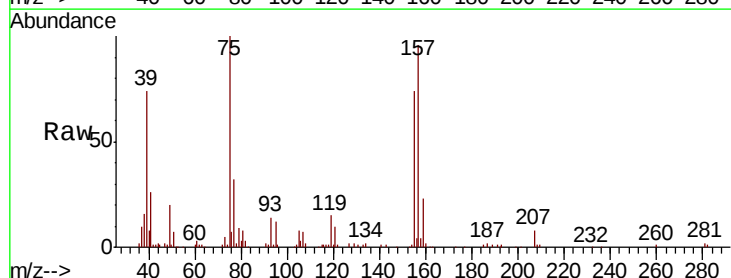
Tgt Ion: 75 Resp: 86879

Ion Ratio Lower Upper

75 100

155 74.5 35.6 106.8

157 94.9 47.4 142.2

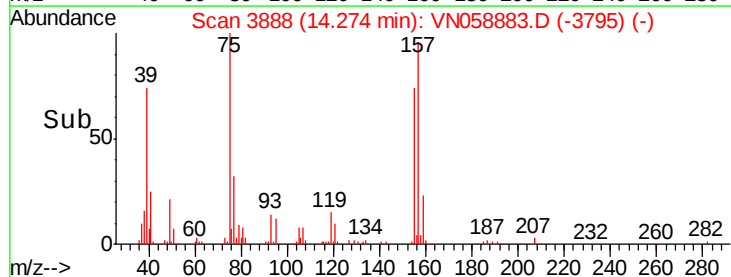
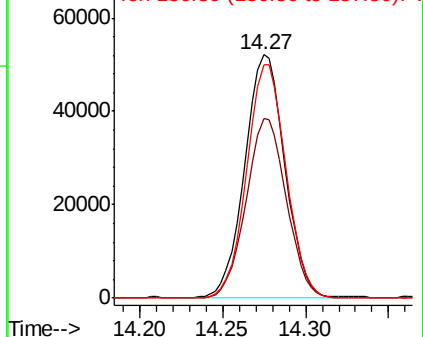


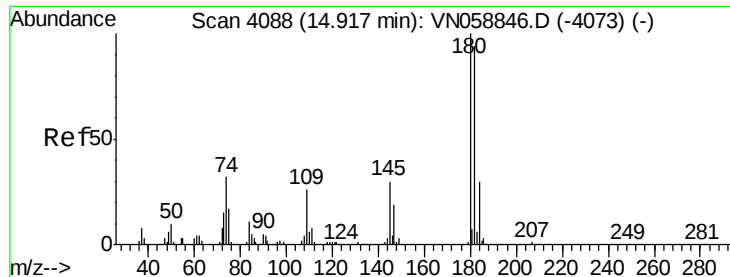
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

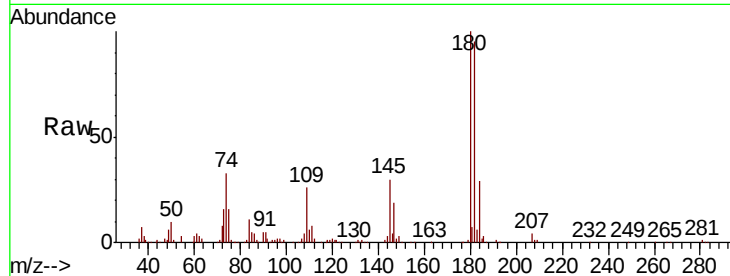




#93
 1,2,4-Trichlorobenzene
 Concen: 46.290 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-MMW0422MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	142.0
145	30.8	15.3	45.8

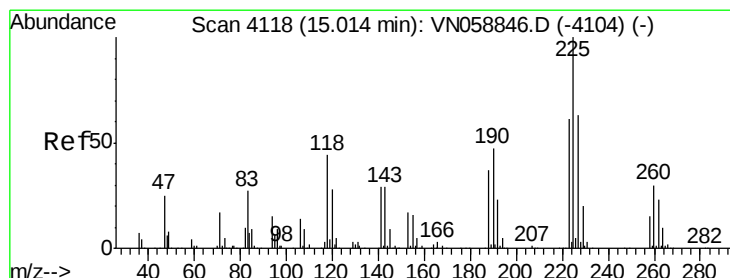
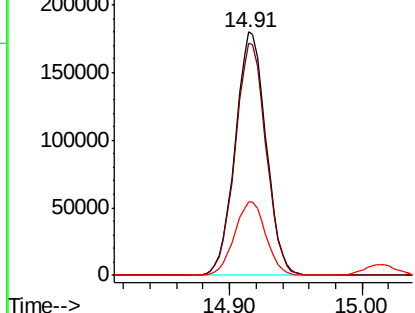
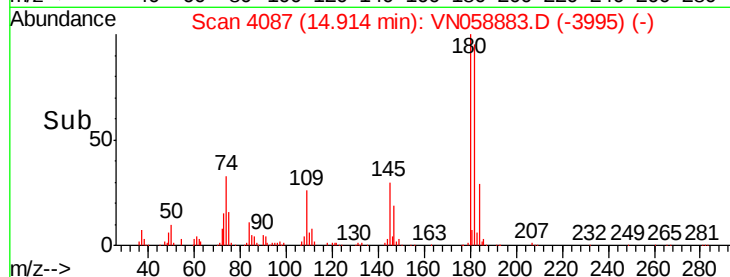


Abundance

Ion 179.80 (179.50 to 180.50): V

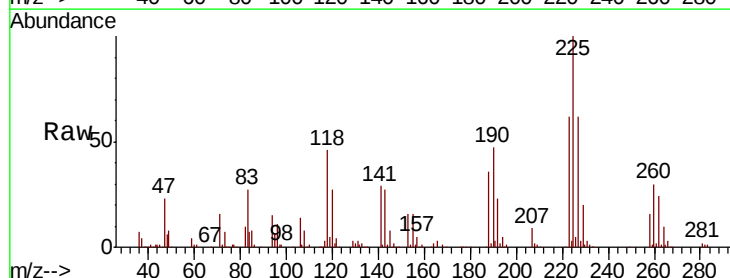
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 46.799 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN058883.D
 Acq: 21 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.9	92.5
227	63.1	31.6	94.7

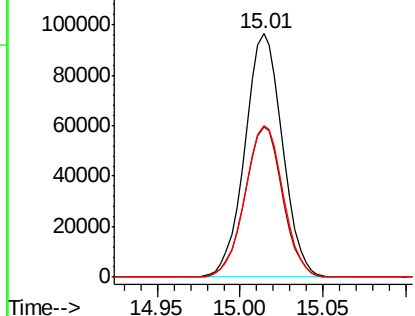
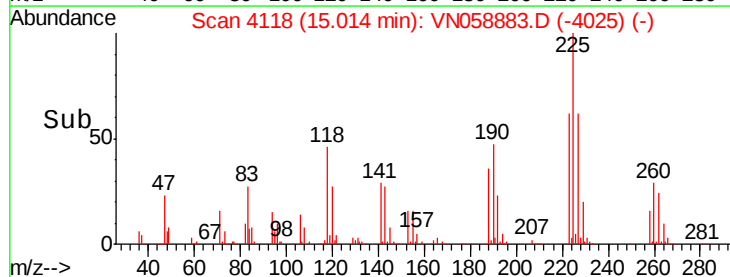


Abundance

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

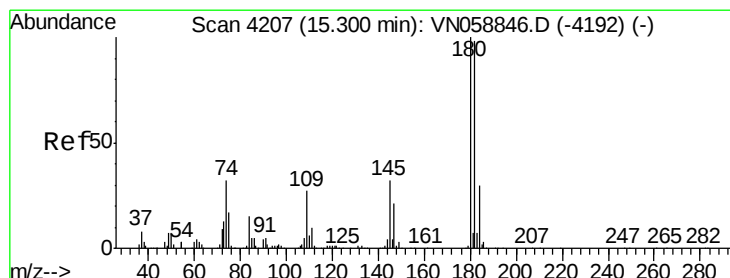
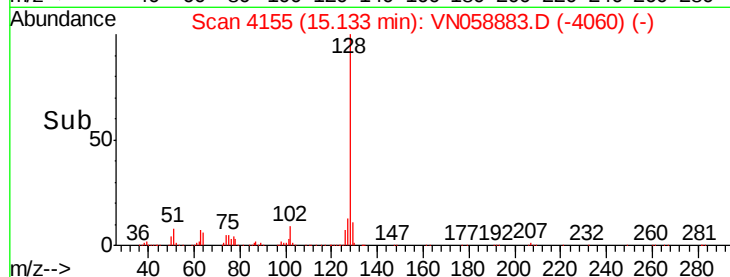
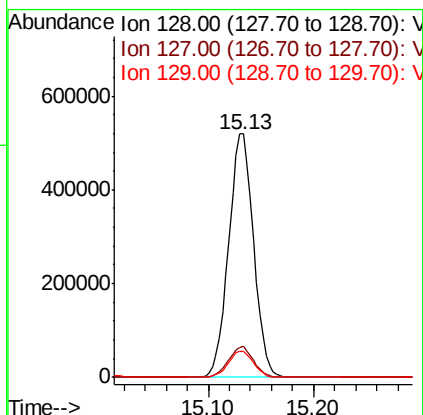
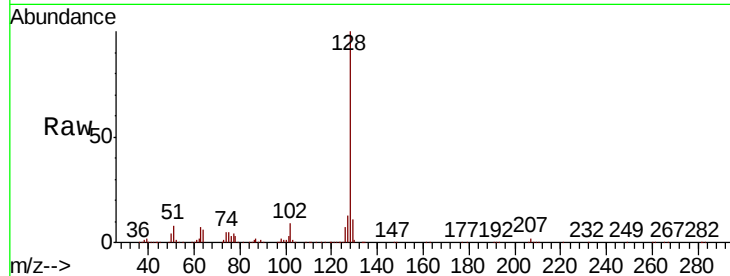




#95
Naphthalene
Concen: 46.972 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
FA19-MMW0422MSD

Tot Ion:128 Resp: 848039
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.8 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 46.164 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN058883.D
Acq: 21 Oct 2019 13:17

Tgt Ion:180 Resp: 281971
Ion Ratio Lower Upper
180 100
182 95.7 47.9 143.7
145 32.2 15.9 47.7

