

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058747.D
 Acq On : 14 Oct 2019 14:20
 Operator : JC/SP
 Sample : K5111-07 0.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Quant Time: Oct 15 03:09:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	392310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	637218	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	581459	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	243960	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	294211	53.57	ug/l	0.00
Spiked Amount			Recovery	=	107.14%	
35) Dibromofluoromethane	7.57	113	212650	54.03	ug/l	0.00
Spiked Amount			Recovery	=	108.06%	
50) Toluene-d8	10.09	98	775775	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.41	95	260855	43.78	ug/l	0.00
Spiked Amount			Recovery	=	87.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	2573	0.527	ug/l	89
3) Chloromethane	2.04	50	3767	0.648	ug/l	99
4) Vinyl Chloride	2.17	62	3384	0.585	ug/l	93
5) Bromomethane	2.55	94	2977	0.846	ug/l #	73
6) Chloroethane	2.69	64	2171	0.608	ug/l	92
7) Trichlorofluoromethane	3.00	101	4444	0.642	ug/l	94
8) Diethyl Ether	3.39	74	1169	0.457	ug/l	66
9) 1,1,2-Trichlorotrifluoroet	3.73	101	2492	0.631	ug/l #	38
10) Methyl Iodide	3.92	142	2549	0.473	ug/l #	93
11) Tert butyl alcohol	4.76	59	1663	1.870	ug/l #	72
12) 1,1-Dichloroethene	3.71	96	1149	0.305	ug/l #	61
13) Acrolein	3.59	56	1515	2.118	ug/l #	77
14) Allyl chloride	4.29	41	4045	0.532	ug/l #	59
15) Acrylonitrile	4.97	53	4166	1.857	ug/l #	60
16) Acetone	3.80	43	7473	3.287	ug/l	95
17) Carbon Disulfide	4.04	76	7572	0.629	ug/l #	92
18) Methyl Acetate	4.29	43	1202	0.208	ug/l #	84
20) Methylene Chloride	4.54	84	3501	0.737	ug/l	87
21) trans-1,2-Dichloroethene	5.02	96	2278	0.541	ug/l #	90
22) Diisopropyl ether	5.93	45	8049	0.544	ug/l #	63
23) Vinyl Acetate	5.88	43	30006	2.515	ug/l	98
24) 1,1-Dichloroethane	5.83	63	4299	0.511	ug/l #	85
25) 2-Butanone	6.82	43	8855	2.694	ug/l	93
26) 2,2-Dichloropropane	6.80	77	4791	0.623	ug/l #	72
27) cis-1,2-Dichloroethene	6.81	96	2694	0.548	ug/l	82
28) Bromochloromethane	7.18	49	693	0.237	ug/l #	82
29) Tetrahydrofuran	7.19	42	3197	1.505	ug/l #	57
30) Chloroform	7.35	83	5812	0.687	ug/l	87
31) Cyclohexane	7.64	56	13034	1.618	ug/l #	23
32) 1,1,1-Trichloroethane	7.55	97	4177	0.579	ug/l #	49
36) 1,1-Dichloropropene	7.78	75	3469	0.538	ug/l	86
37) Ethyl Acetate	6.91	43	3388	0.520	ug/l #	80
38) Carbon Tetrachloride	7.76	117	3840	0.612	ug/l	92
39) Methylcyclohexane	9.07	83	3937	0.527	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.03	78	11142	0.602	ug/l	95
41) Methacrylonitrile	7.15	41	805	0.264	ug/l #	58
42) 1,2-Dichloroethane	8.11	62	4795	0.675	ug/l	88
43) Isopropyl Acetate	8.15	43	5743	0.517	ug/l #	85
44) Trichloroethene	8.82	130	2597	0.565	ug/l	93
45) 1,2-Dichloropropane	9.11	63	2757	0.557	ug/l	90
46) Dibromomethane	9.20	93	1808	0.576	ug/l	96
47) Bromodichloromethane	9.40	83	3454	0.540	ug/l #	70
48) Methyl methacrylate	9.20	41	2902	0.577	ug/l	93
49) 1,4-Dioxane	9.20	88	942	12.102	ug/l #	89
51) 4-Methyl-2-Pentanone	9.98	43	15510	2.488	ug/l	99
52) Toluene	10.15	92	6386	0.564	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	3606	0.492	ug/l #	63
54) cis-1,3-Dichloropropene	9.83	75	3999	0.514	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	2915	0.629	ug/l	90
56) Ethyl methacrylate	10.43	69	2923	0.432	ug/l #	73
57) 1,3-Dichloropropane	10.71	76	4689	0.594	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	6550	2.008	ug/l	98
59) 2-Hexanone	10.75	43	12184	2.529	ug/l	94
60) Dibromochloromethane	10.90	129	2365	0.495	ug/l	95
61) 1,2-Dibromoethane	11.00	107	2468	0.532	ug/l	100
64) Tetrachloroethene	10.63	164	2687	0.660	ug/l	96
65) Chlorobenzene	11.43	112	6512	0.551	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	2328	0.533	ug/l #	57
67) Ethyl Benzene	11.51	91	10648	0.506	ug/l	98
68) m/p-Xylenes	11.62	106	7350	0.930	ug/l	95
69) o-Xylene	11.95	106	3663	0.479	ug/l	95
70) Stvrene	11.97	104	5554	0.443	ug/l	94
71) Bromoform	12.13	173	1331	0.416	ug/l #	96
73) Isopropylbenzene	12.25	105	9800	0.555	ug/l	97
74) N-amyl acetate	12.07	43	3513	0.443	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	3277	0.563	ug/l	81
76) 1,2,3-Trichloropropane	12.56	75	5794	1.083	ug/l #	100
77) Bromobenzene	12.53	156	2738	0.637	ug/l	88
78) n-propylbenzene	12.59	91	12553	0.610	ug/l	95
79) 2-Chlorotoluene	12.68	91	7356	0.576	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	7590	0.503	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.41	75	140089	70.116	ug/l #	11
82) 4-Chlorotoluene	12.78	91	6800	0.519	ug/l	100
83) tert-Butylbenzene	13.00	119	6913	0.535	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	7667	0.512	ug/l	94
85) sec-Butylbenzene	13.18	105	8767	0.515	ug/l	100
86) p-Isopropyltoluene	13.30	119	6971	0.450	ug/l	95
87) 1,3-Dichlorobenzene	13.29	146	4367	0.551	ug/l	96
88) 1,4-Dichlorobenzene	13.29	146	4367	0.542	ug/l	98
89) n-Butylbenzene	13.62	91	6602	0.461	ug/l	98
90) Hexachloroethane	13.88	117	1596	0.576	ug/l	92
91) 1,2-Dichlorobenzene	13.66	146	4254	0.551	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1095	0.805	ug/l	61
93) 1,2,4-Trichlorobenzene	14.91	180	2119	0.450	ug/l	89

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration

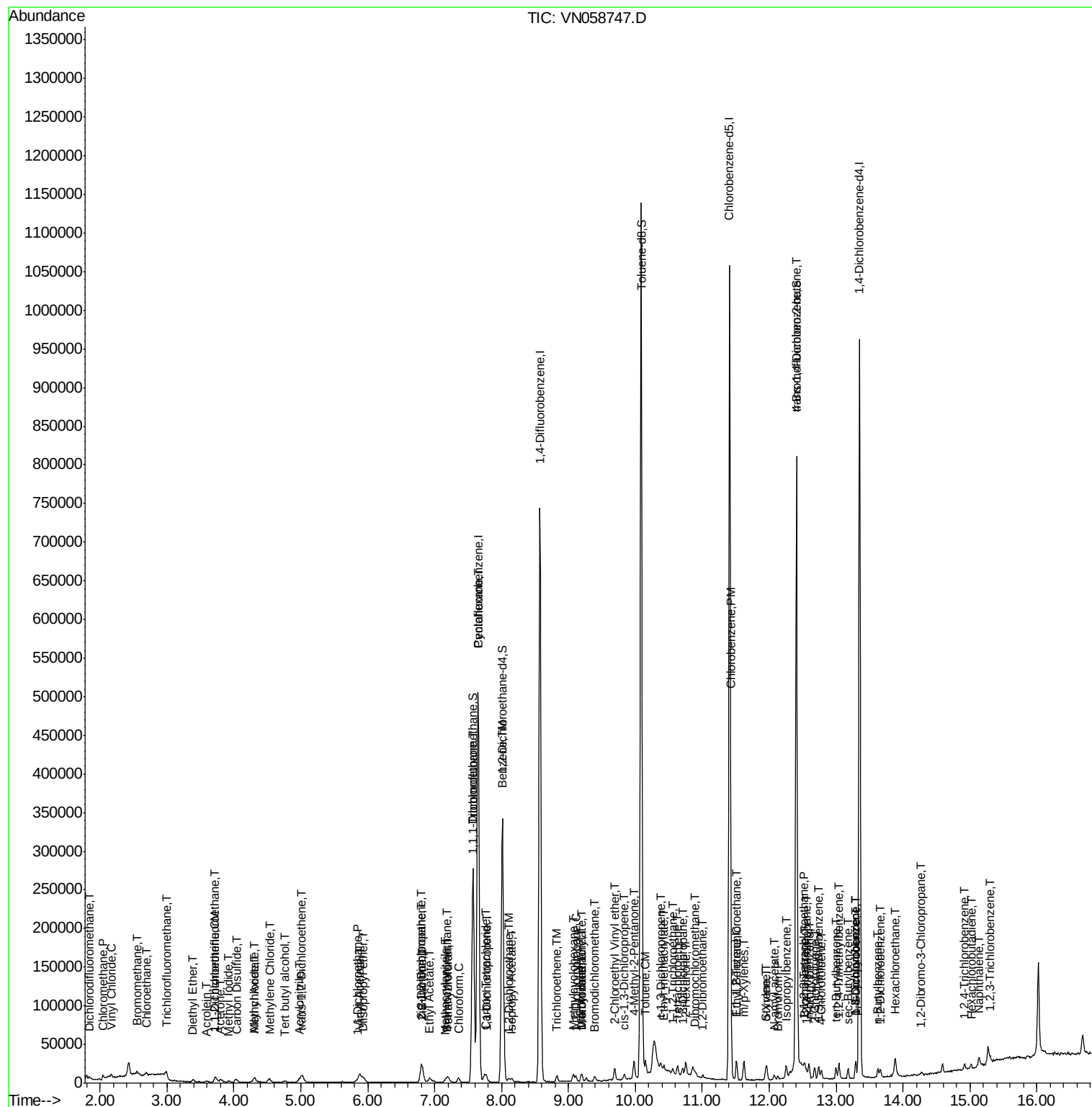
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.02	225	1252	0.505	ug/l	89
95) Naphthalene	15.13	128	5666	0.418	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.30	180	2075	0.451	ug/l	93

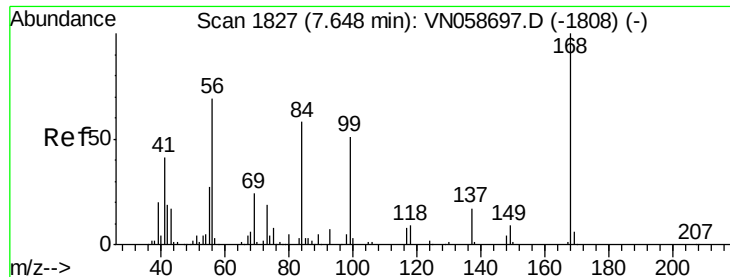
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

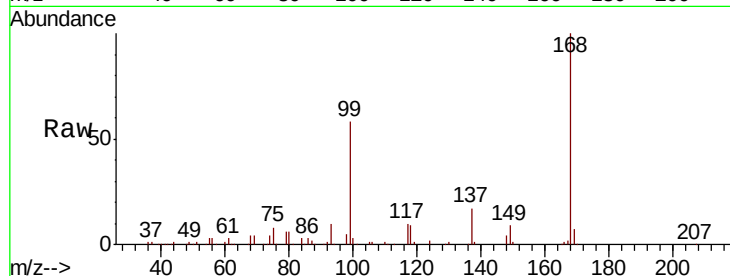
LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 392310

Ion Ratio Lower Upper

168 100

99 58.2 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

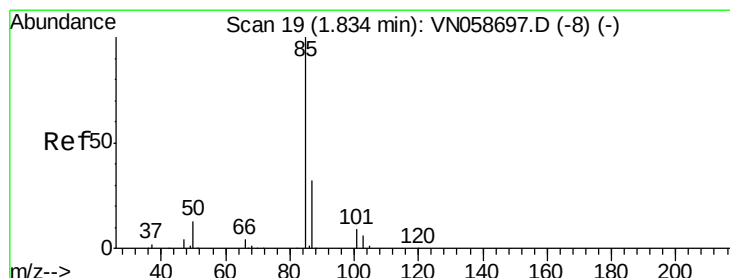
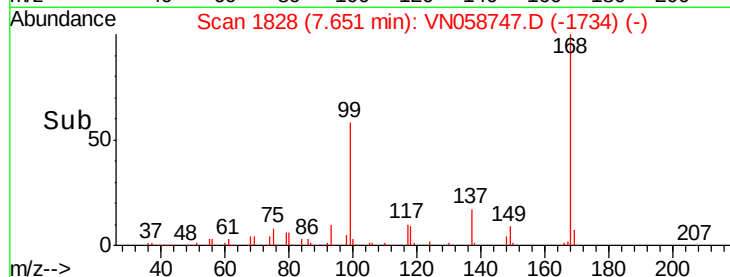
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.527 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058747.D

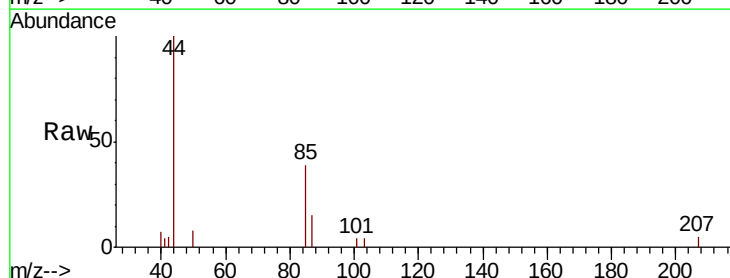
Acq: 14 Oct 2019 14:20

Tgt Ion: 85 Resp: 2573

Ion Ratio Lower Upper

85 100

87 38.4 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

2000

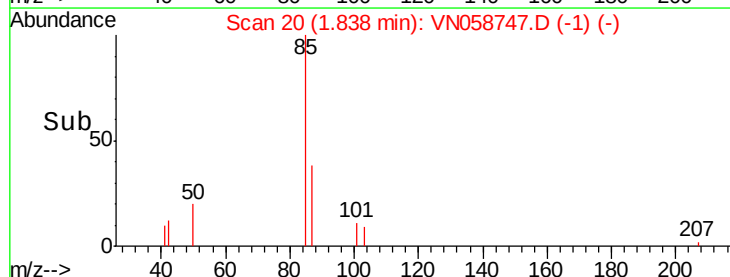
1500

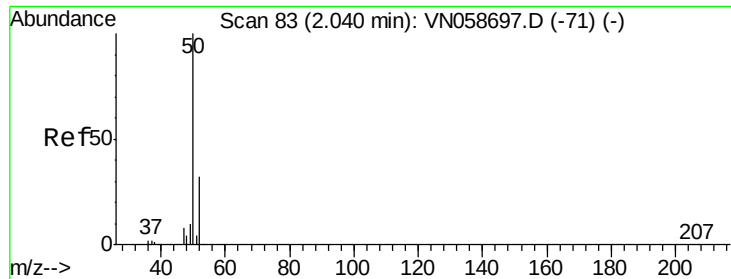
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.648 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

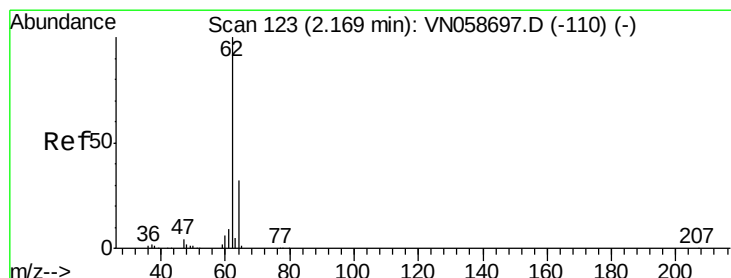
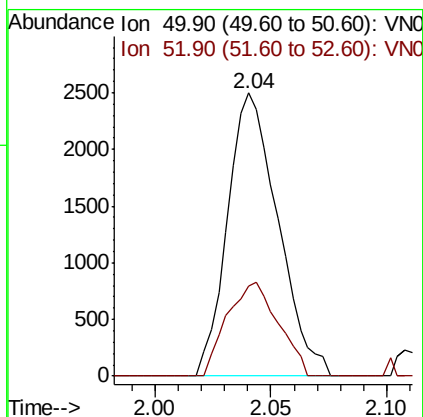
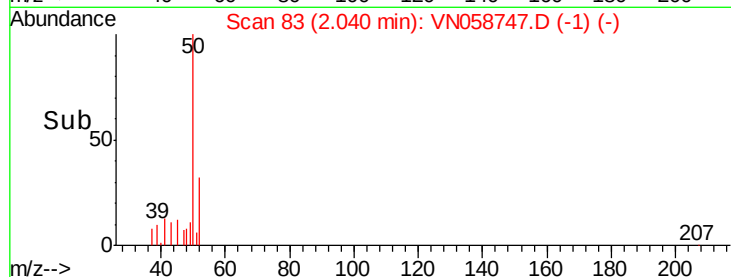
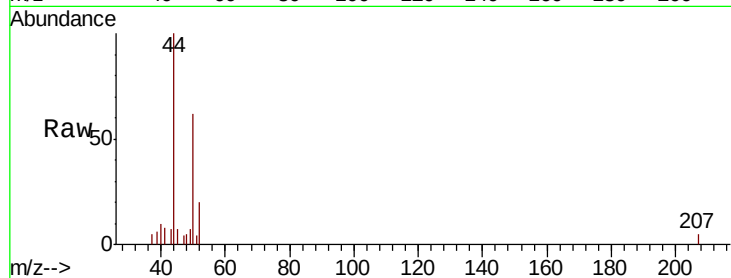
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 50 Resp: 3767

Ion Ratio Lower Upper

50 100

52 31.6 25.8 38.6



#4

Vinyl Chloride

Concen: 0.585 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058747.D

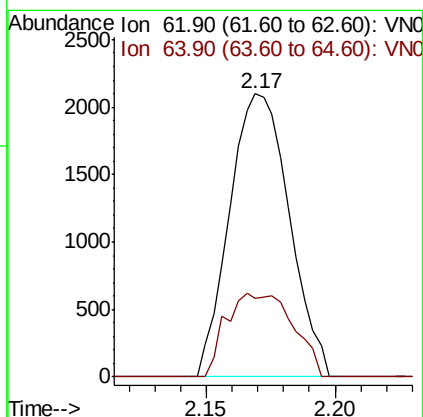
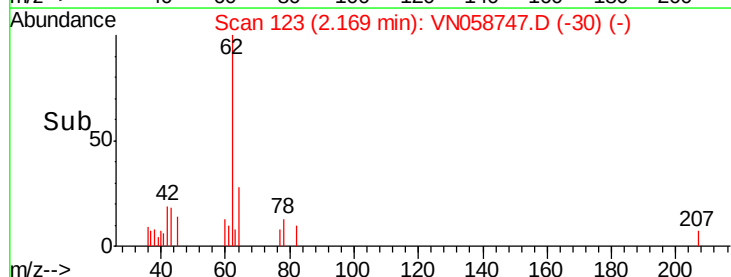
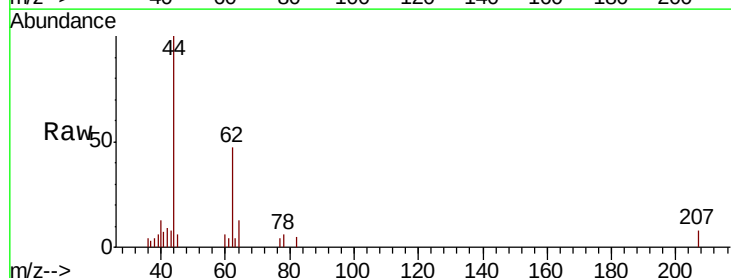
Acq: 14 Oct 2019 14:20

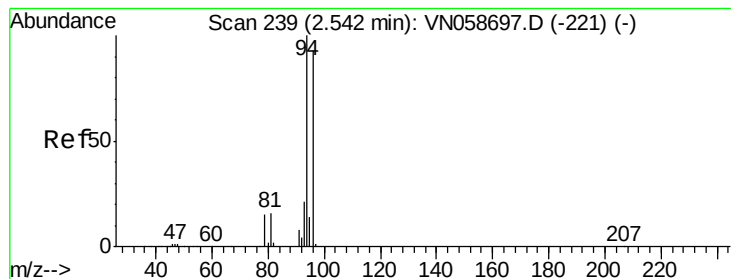
Tgt Ion: 62 Resp: 3384

Ion Ratio Lower Upper

62 100

64 27.9 25.3 37.9





#5

Bromomethane

Concen: 0.846 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

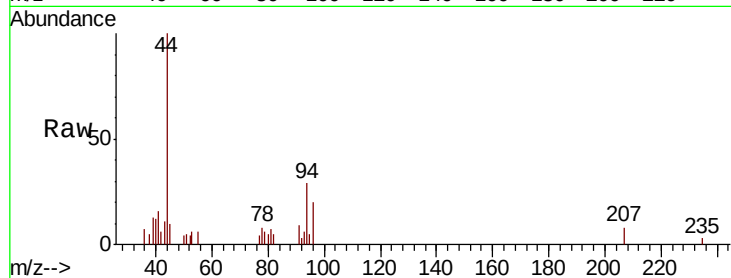
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 94 Resp: 2977

Ion Ratio Lower Upper

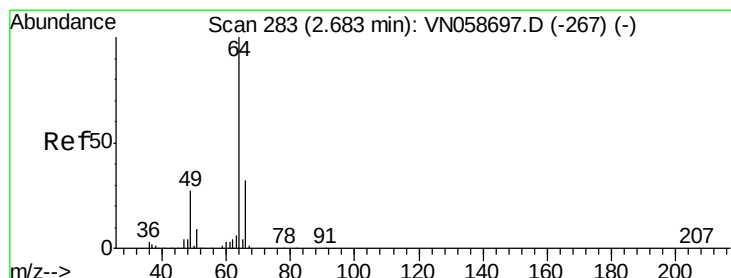
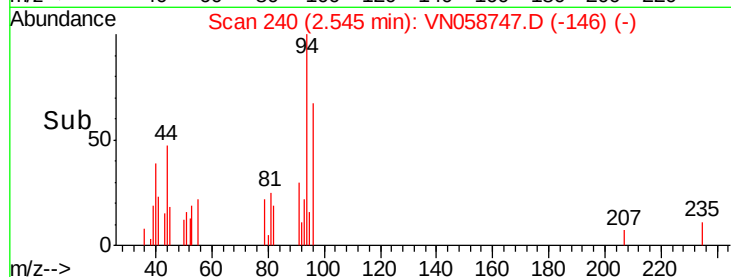
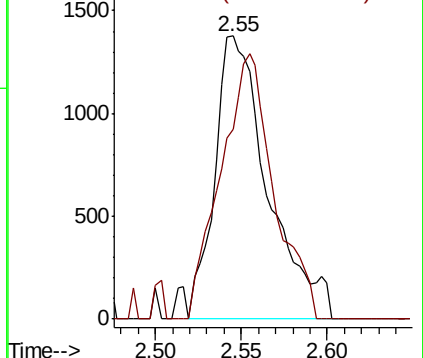
94 100

96 67.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 0.608 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058747.D

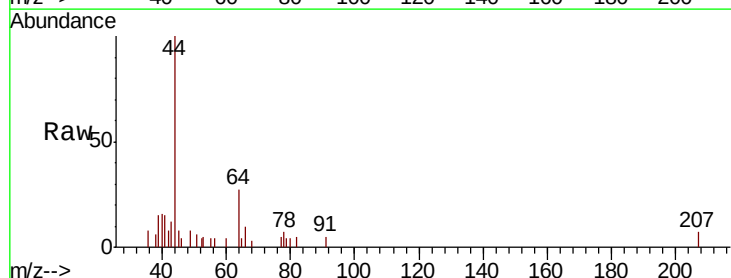
Acq: 14 Oct 2019 14:20

Tgt Ion: 64 Resp: 2171

Ion Ratio Lower Upper

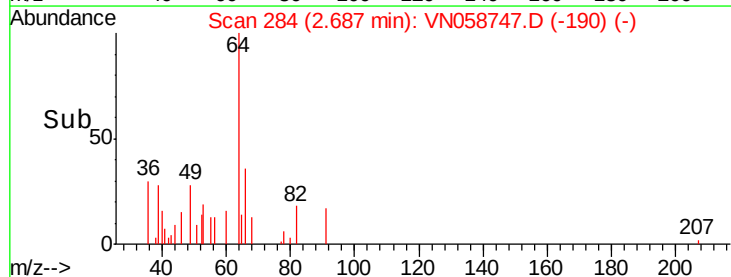
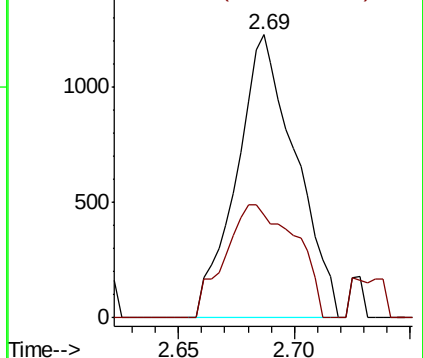
64 100

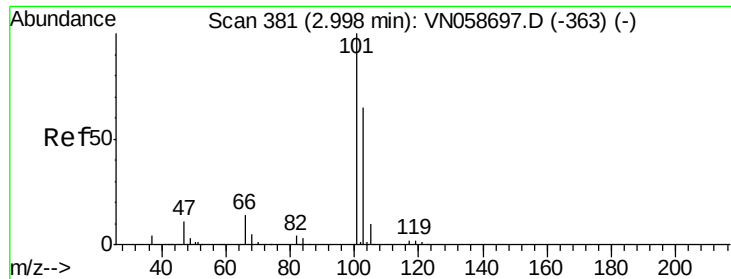
66 36.4 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



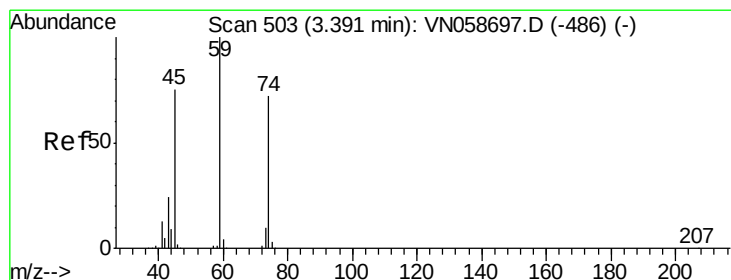
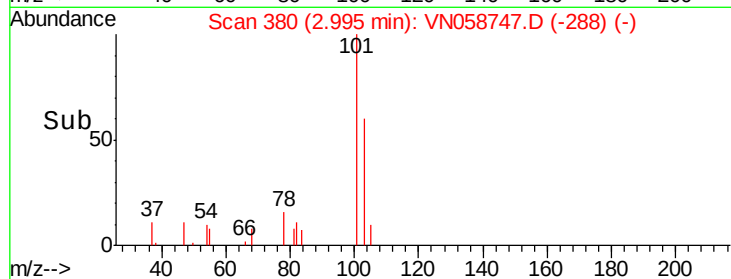
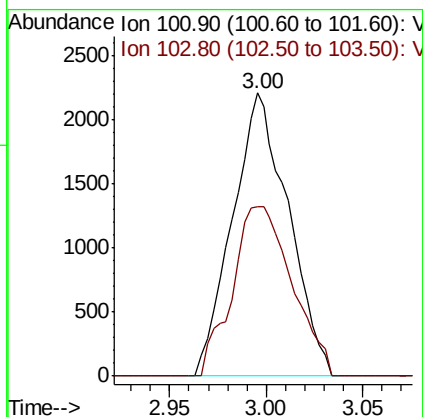
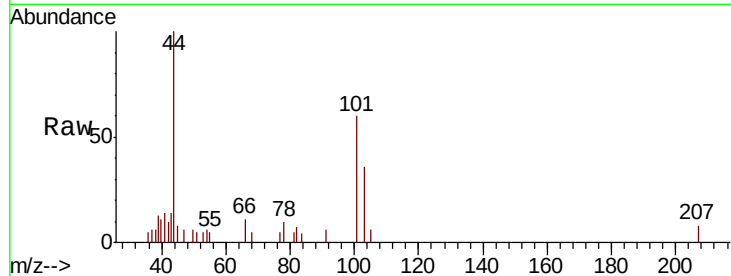


#7

Trichlorofluoromethane
 Concen: 0.642 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
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 LOD-MDL-WATER-01-QT4-2019

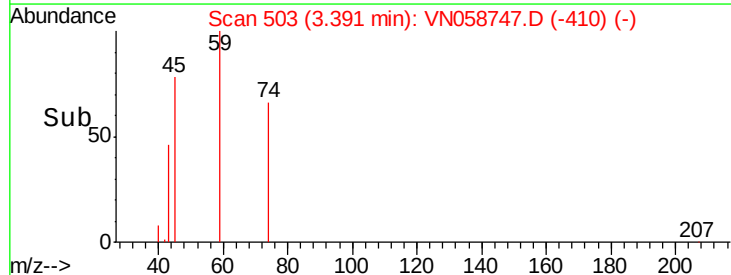
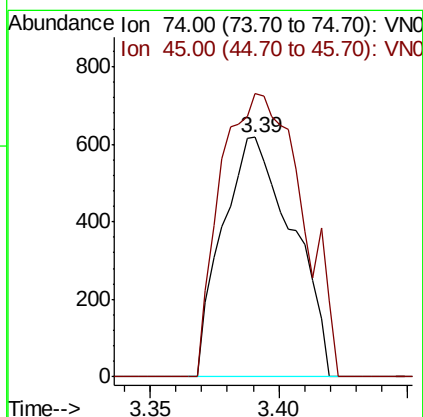
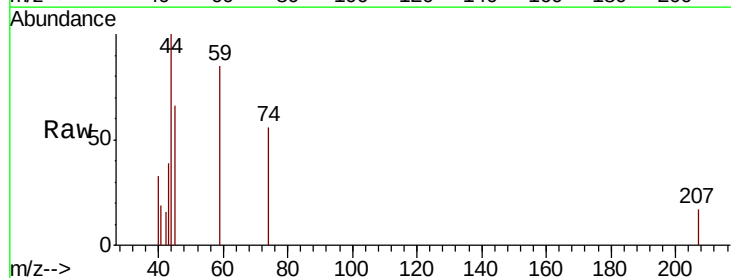
Tot Ion:101 Resp: 4444
 Ion Ratio Lower Upper
 101 100
 103 60.1 51.8 77.6

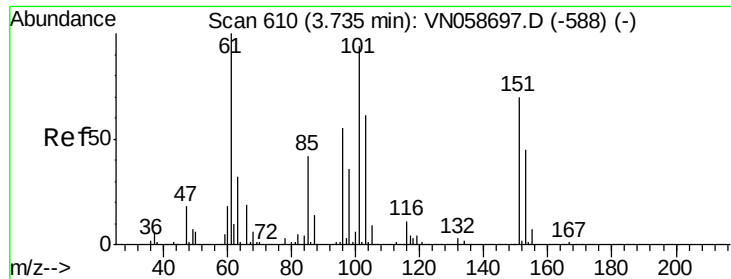


#8

Diethyl Ether
 Concen: 0.457 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 74 Resp: 1169
 Ion Ratio Lower Upper
 74 100
 45 137.0 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.631 ug/l

RT: 3.73 min Scan# 608

Delta R.T. -0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

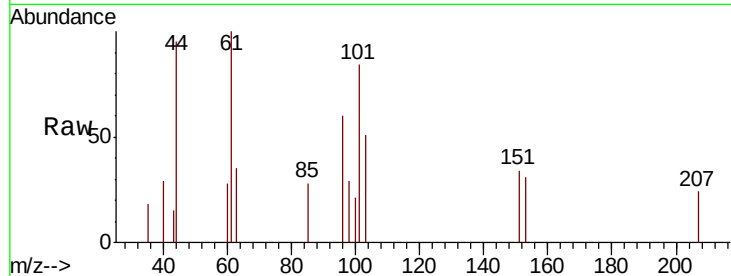
Tot Ion:101 Resp: 2492

Ion Ratio Lower Upper

101 100

85 18.9 37.0 55.6#

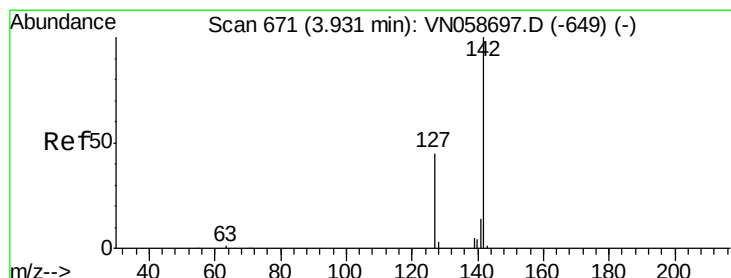
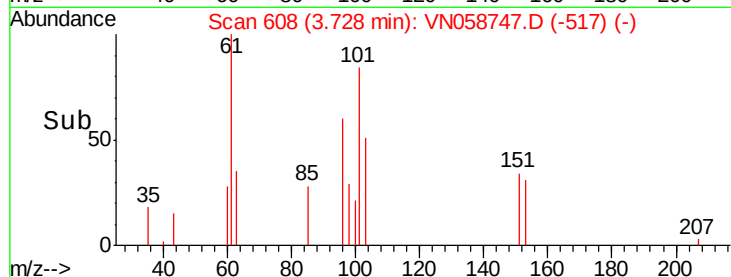
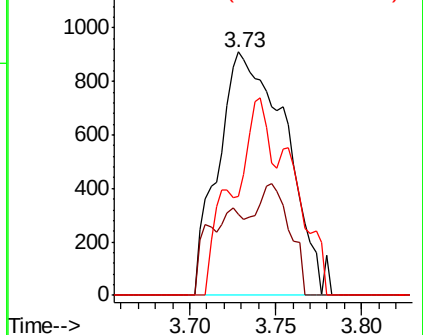
151 13.1 61.8 92.6#



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: 0.473 ug/l

RT: 3.92 min Scan# 669

Delta R.T. -0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

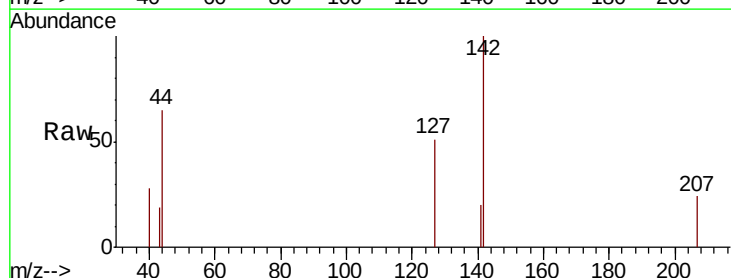
Tgt Ion:142 Resp: 2549

Ion Ratio Lower Upper

142 100

127 43.5 36.4 54.6

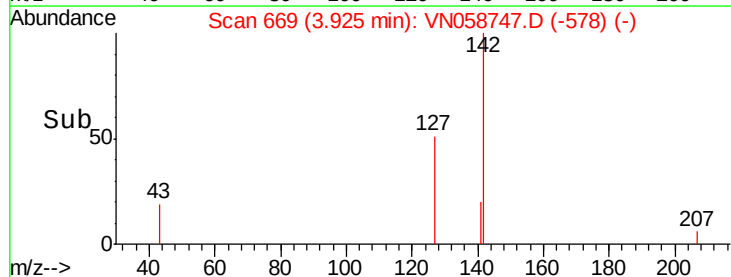
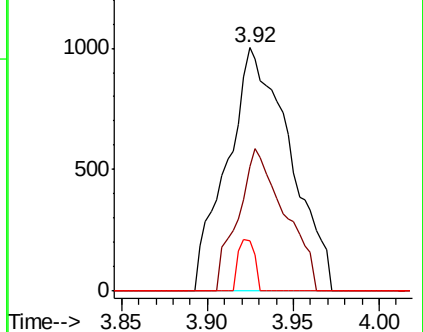
141 5.6 11.1 16.7#

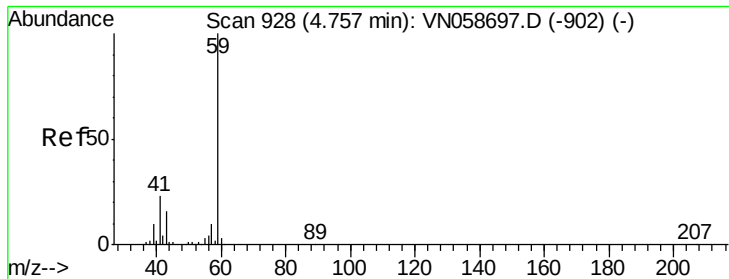


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



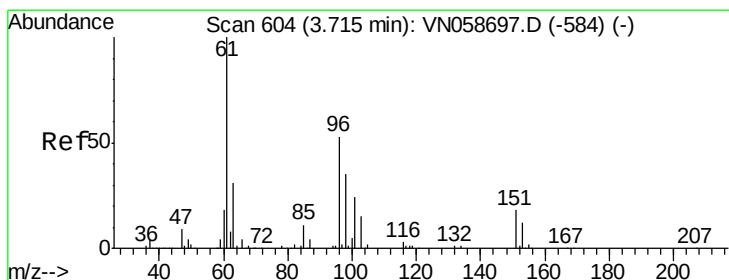
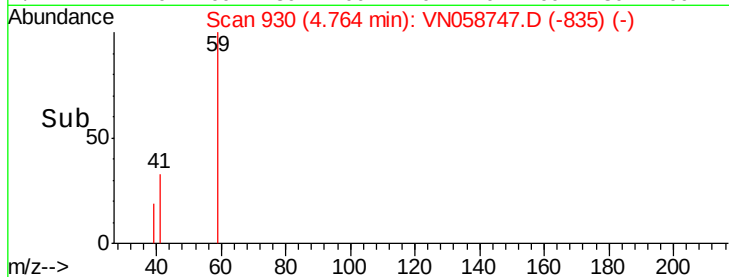
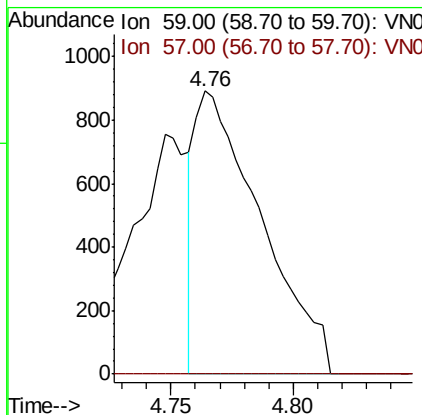
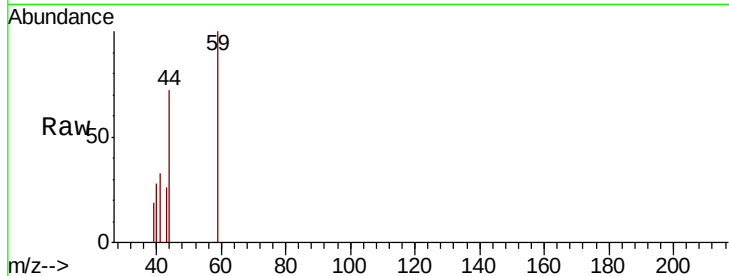


#11

Tert butyl alcohol
 Concen: 1.870 ug/l
 RT: 4.76 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

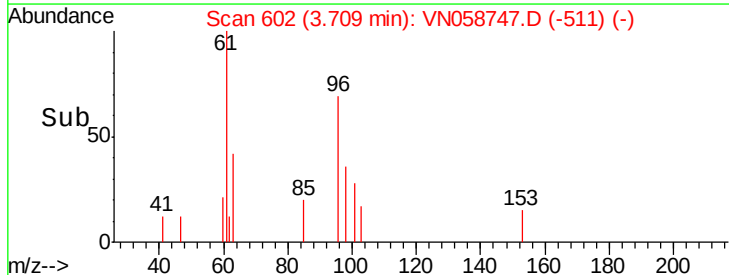
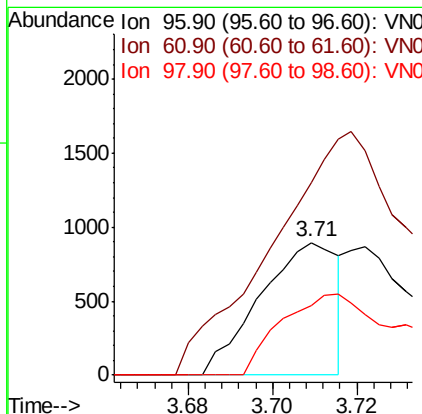
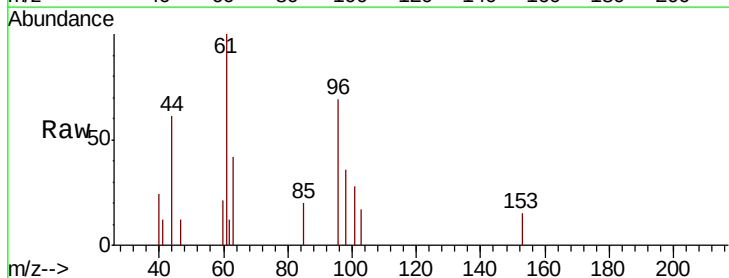
Tot Ion: 59 Resp: 1663
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

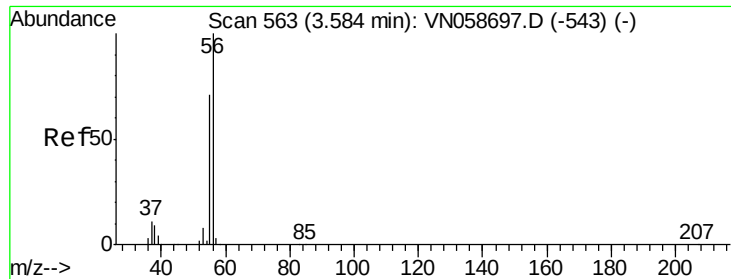


#12

1,1-Dichloroethene
 Concen: 0.305 ug/l
 RT: 3.71 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 96 Resp: 1149
 Ion Ratio Lower Upper
 96 100
 61 121.0 151.3 226.9#
 98 53.0 52.6 78.8





#13

Acrolein

Concen: 2.118 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

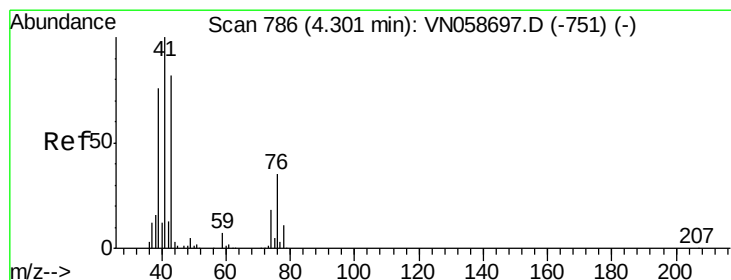
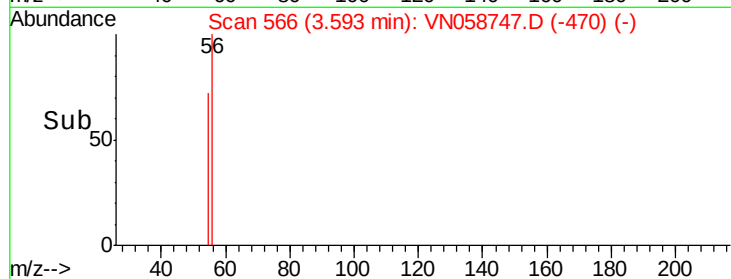
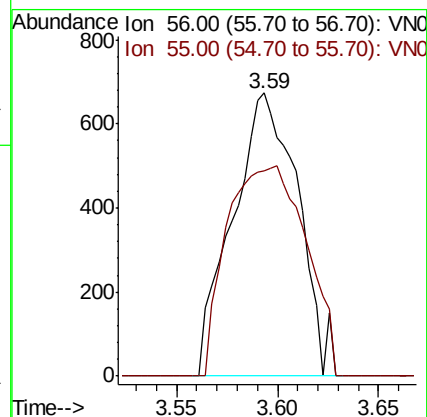
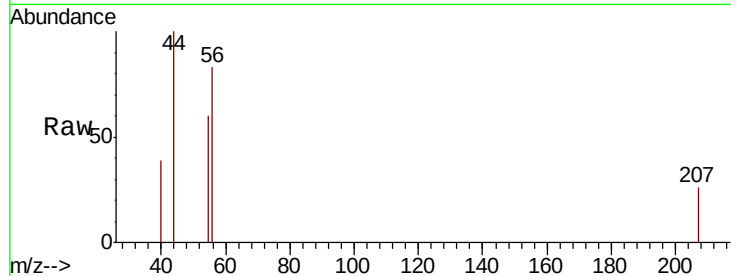
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 1515

Ion Ratio Lower Upper

56 100

55 89.9 56.7 85.1#



#14

Allyl chloride

Concen: 0.532 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

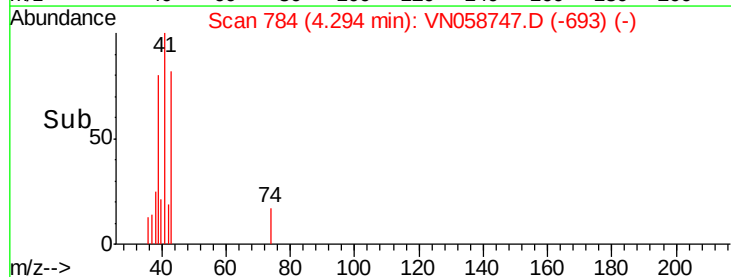
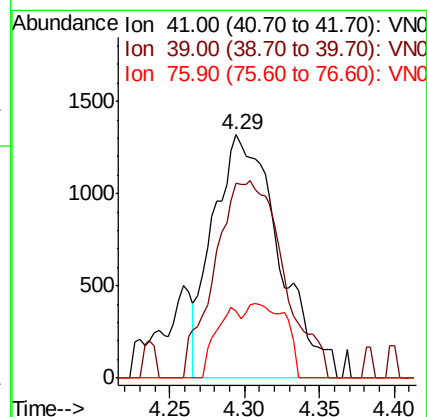
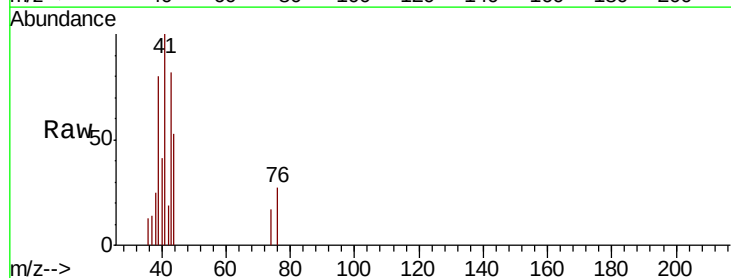
Tgt Ion: 41 Resp: 4045

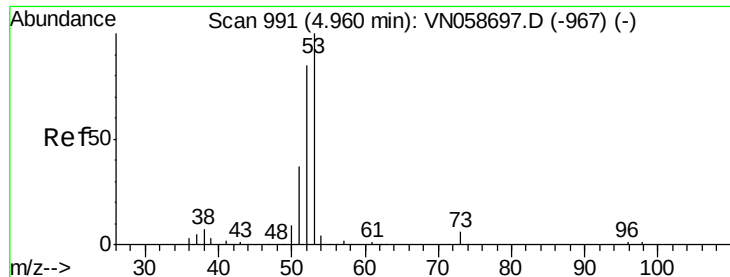
Ion Ratio Lower Upper

41 100

39 35.4 57.2 85.8#

76 11.2 25.0 37.6#





#15

Acrylonitrile

Concen: 1.857 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

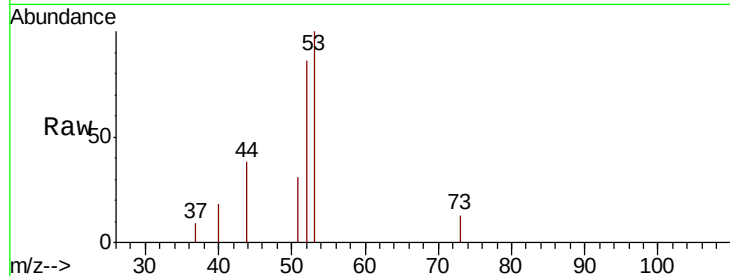
Tot Ion: 53 Resp: 4166

Ion Ratio Lower Upper

53 100

52 132.6 66.2 99.2#

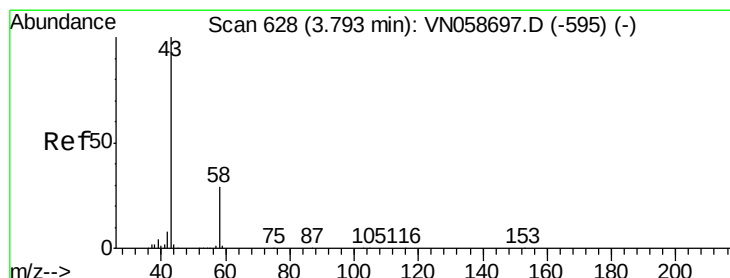
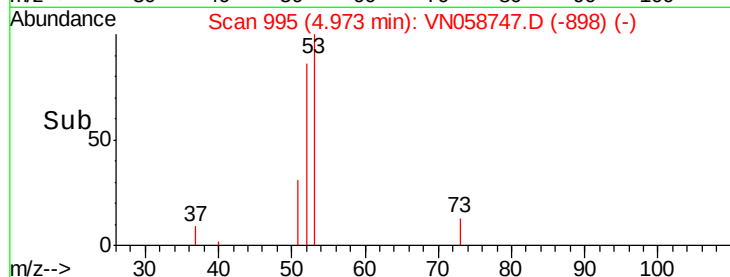
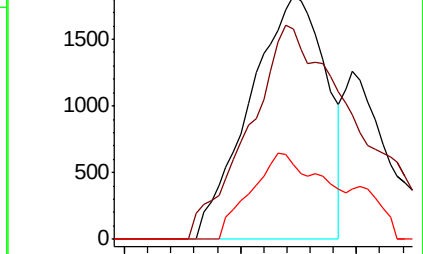
51 34.2 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VN058697.D (-967) (-)

Ion 52.00 (51.70 to 52.70): VN058697.D (-967) (-)

Ion 51.00 (50.70 to 51.70): VN058697.D (-967) (-)



#16

Acetone

Concen: 3.287 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058747.D

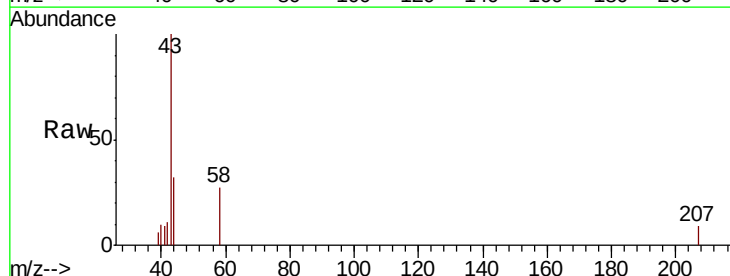
Acq: 14 Oct 2019 14:20

Tgt Ion: 43 Resp: 7473

Ion Ratio Lower Upper

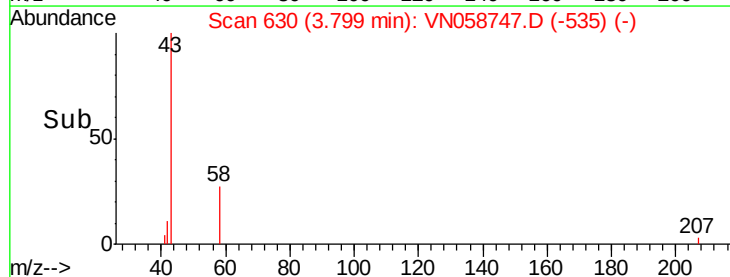
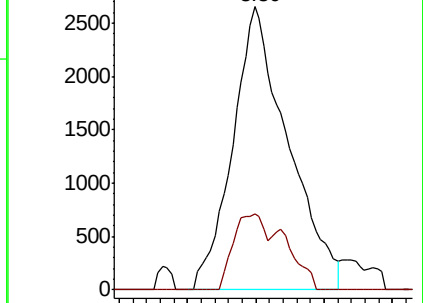
43 100

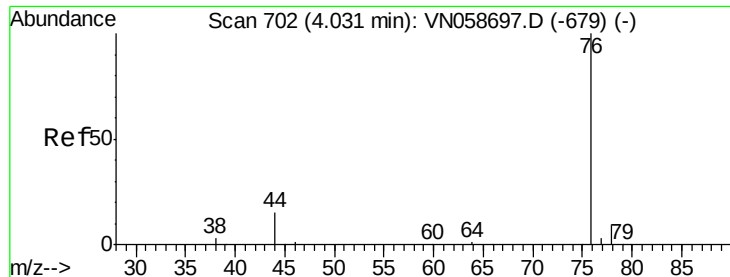
58 26.7 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-595) (-)

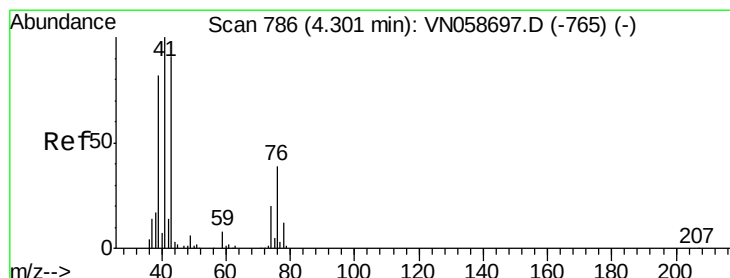
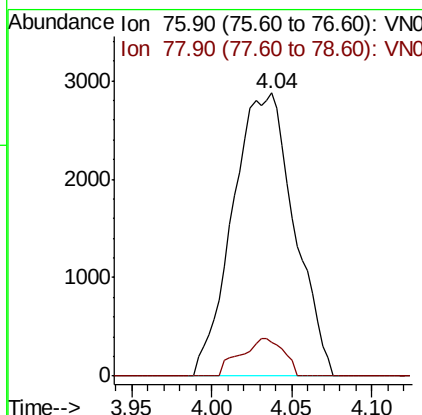
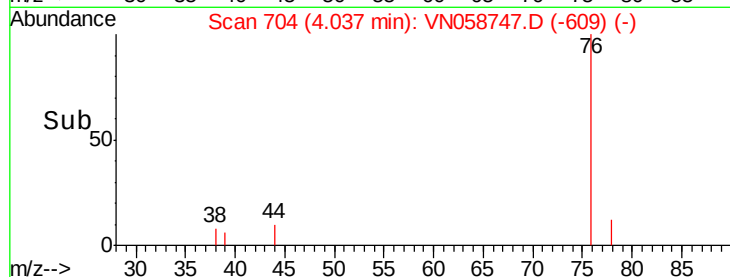
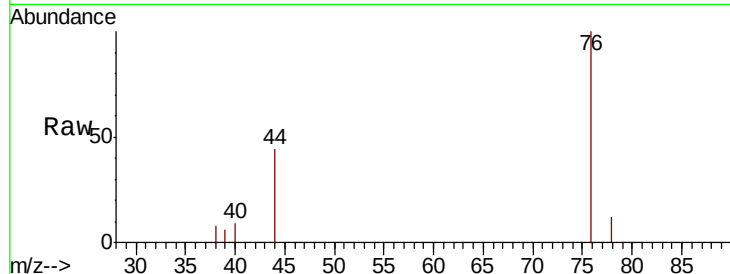




#17
Carbon Disulfide
Concen: 0.629 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

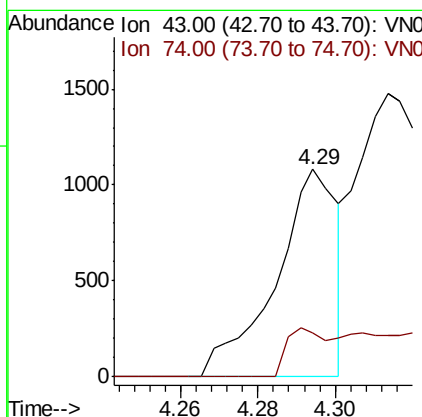
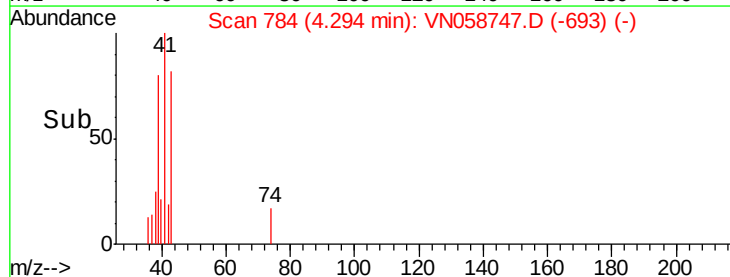
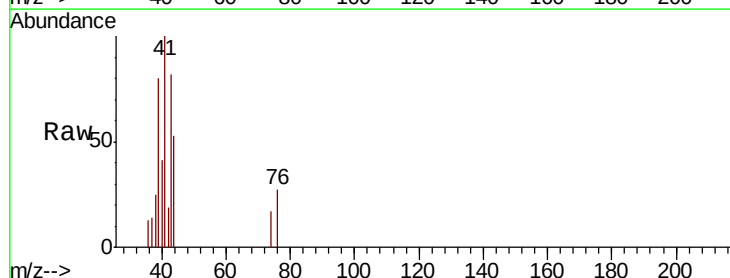
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

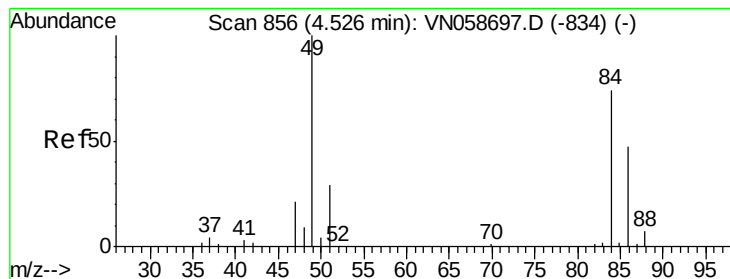
Tot Ion: 76 Resp: 7572
Ion Ratio Lower Upper
76 100
78 11.8 7.1 10.7#



#18
Methyl Acetate
Concen: 0.208 ug/l
RT: 4.29 min Scan# 784
Delta R.T. -0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 43 Resp: 1202
Ion Ratio Lower Upper
43 100
74 14.1 17.2 25.8#





#20

Methylene Chloride

Concen: 0.737 ug/l

RT: 4.54 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 84 Resp: 3501

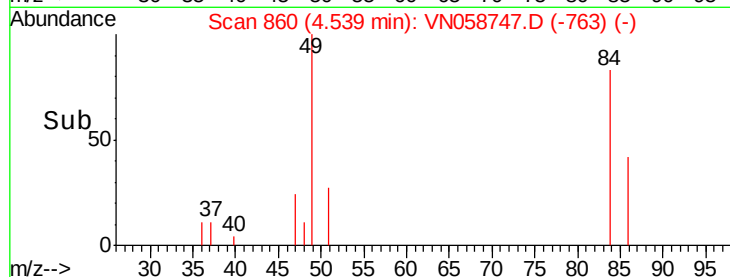
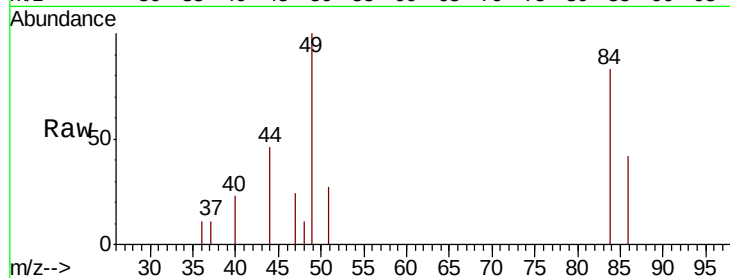
Ion Ratio Lower Upper

84 100

49 120.4 107.6 161.4

51 32.4 31.4 47.0

86 50.5 50.3 75.5

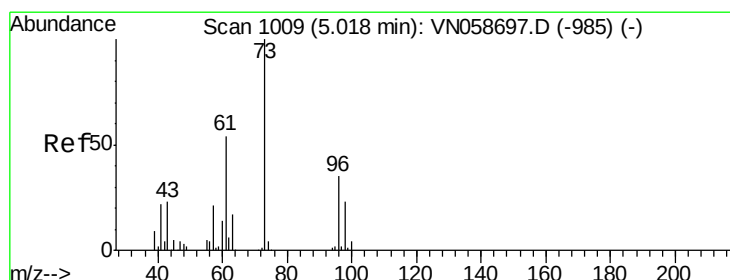
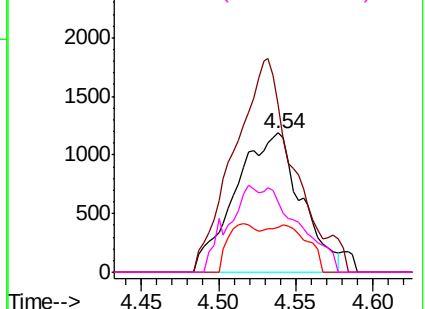


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#21

trans-1,2-Dichloroethene

Concen: 0.541 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

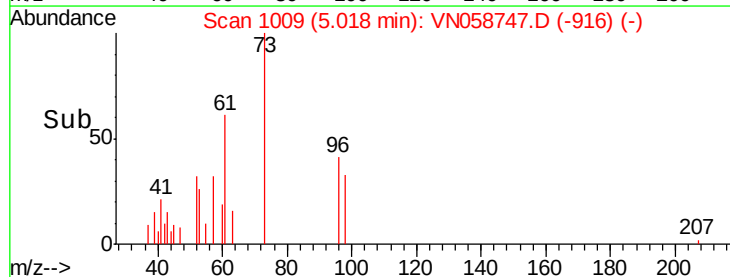
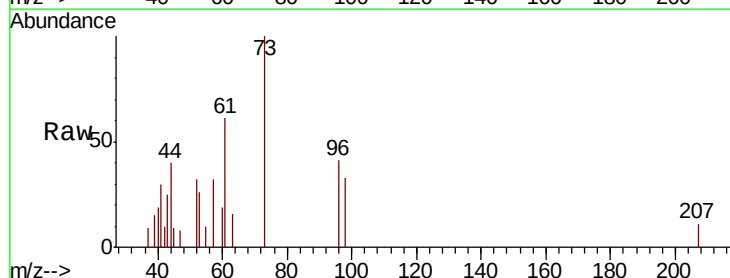
Tgt Ion: 96 Resp: 2278

Ion Ratio Lower Upper

96 100

61 146.9 123.6 185.4

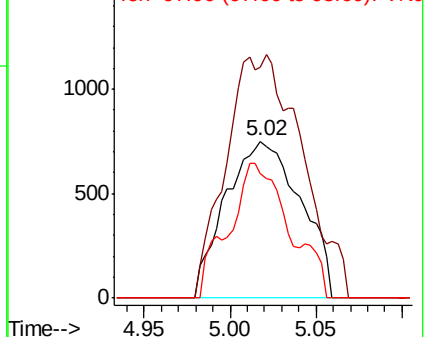
98 79.5 52.1 78.1#

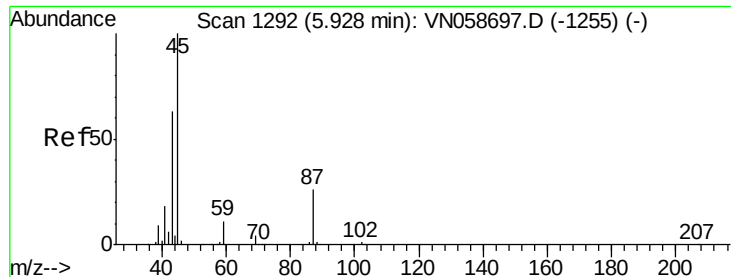


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#22

Diisopropyl ether

Concen: 0.544 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 45 Resp: 8049

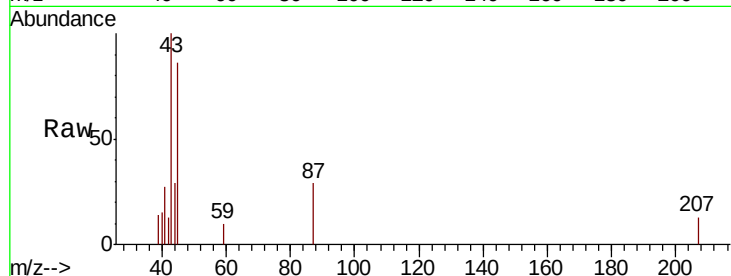
Ion Ratio Lower Upper

45 100

43 104.3 50.6 75.8#

87 33.4 21.1 31.7#

59 12.0 9.0 13.4

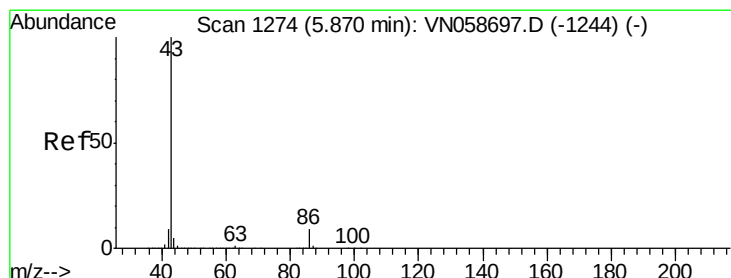
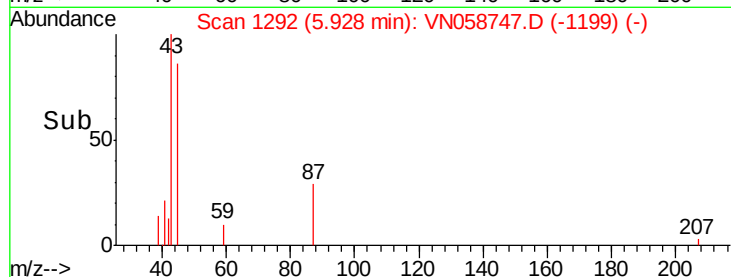
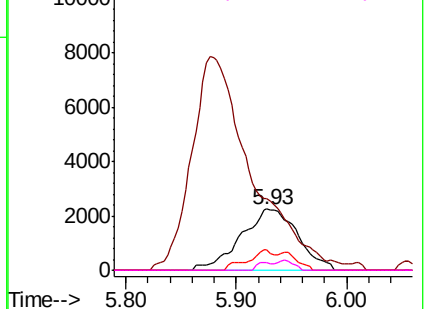


Abundance Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO



#23

Vinyl Acetate

Concen: 2.515 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VN058747.D

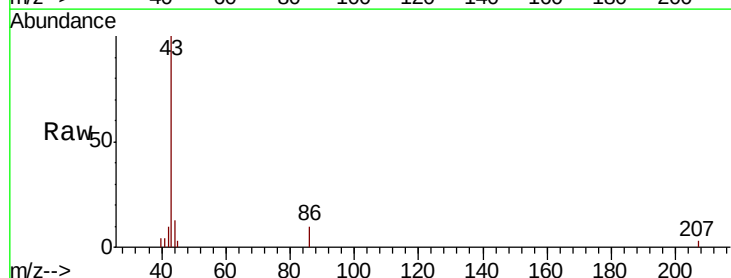
Acq: 14 Oct 2019 14:20

Tgt Ion: 43 Resp: 30006

Ion Ratio Lower Upper

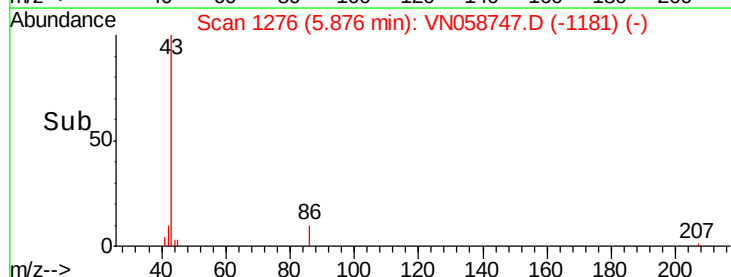
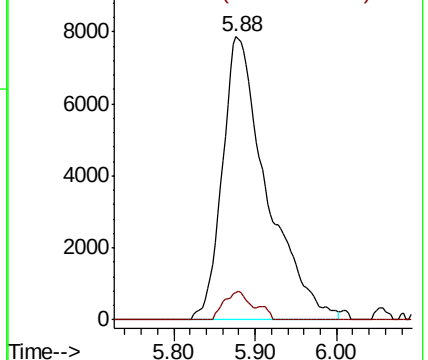
43 100

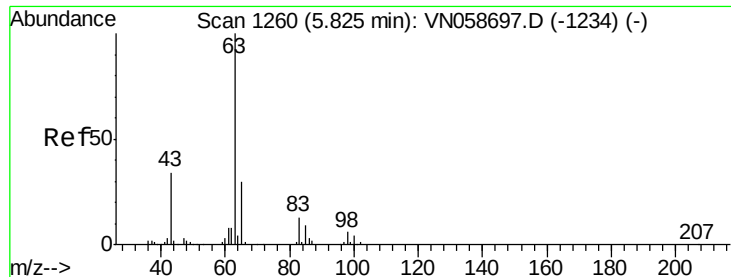
86 9.8 7.4 11.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO

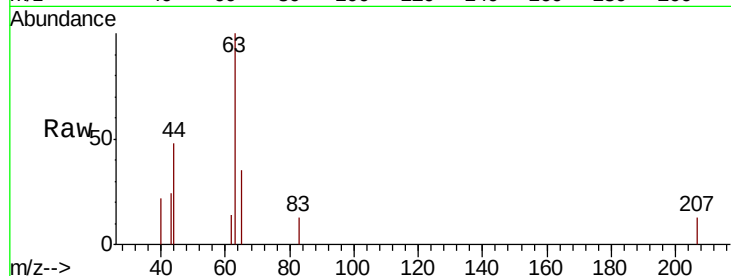




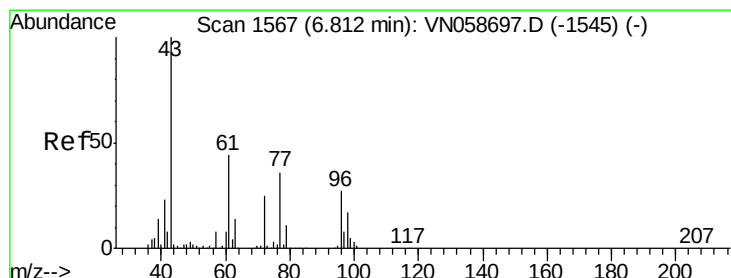
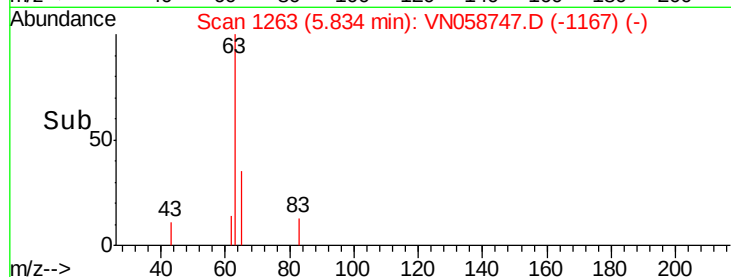
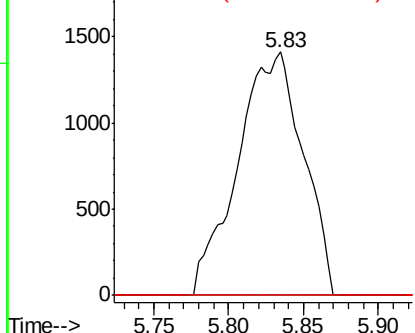
#24
 1,1-Dichloroethane
 Concen: 0.511 ug/l
 RT: 5.83 min Scan# 1263
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion: 63 Resp: 4299
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.9 8.6#
 100 0.0 1.8 5.5#

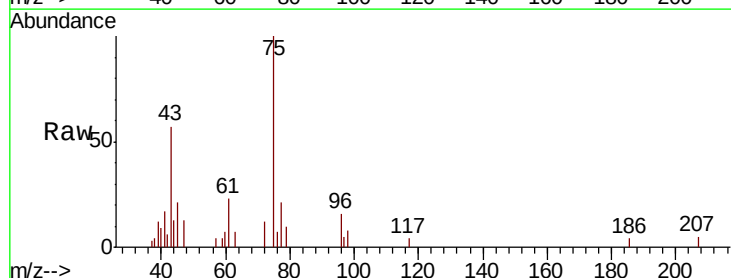


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

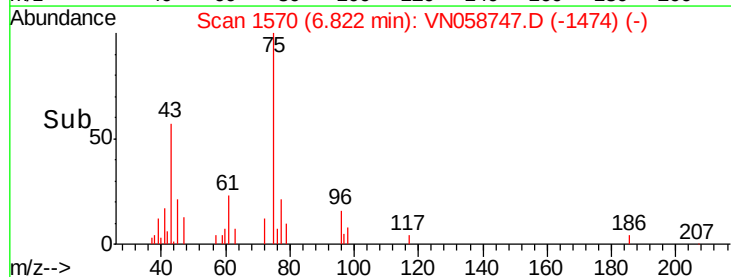
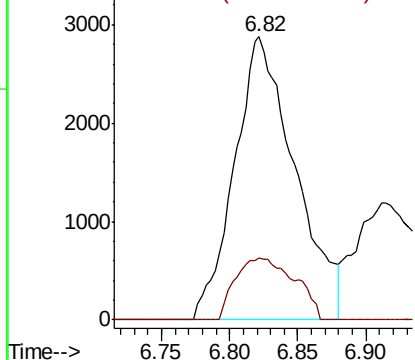


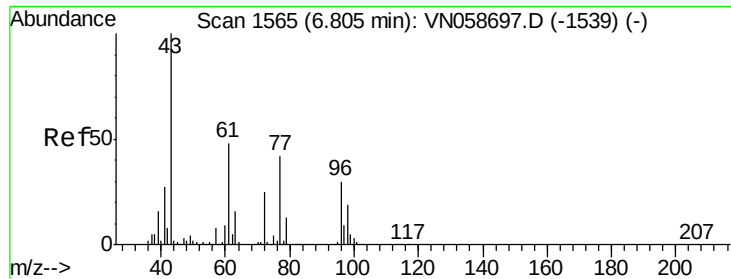
#25
 2-Butanone
 Concen: 2.694 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 43 Resp: 8855
 Ion Ratio Lower Upper
 43 100
 72 21.7 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0

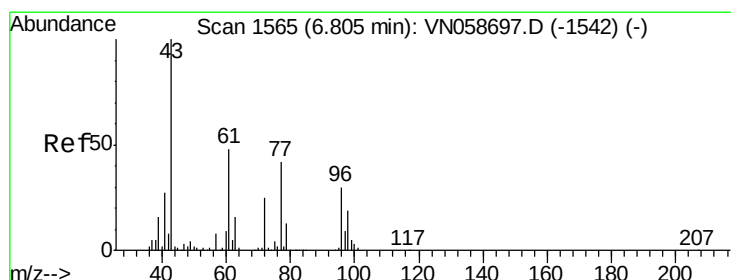
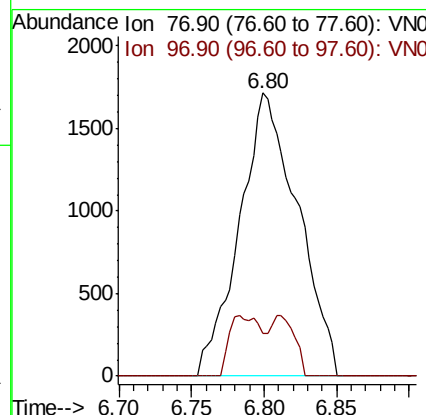
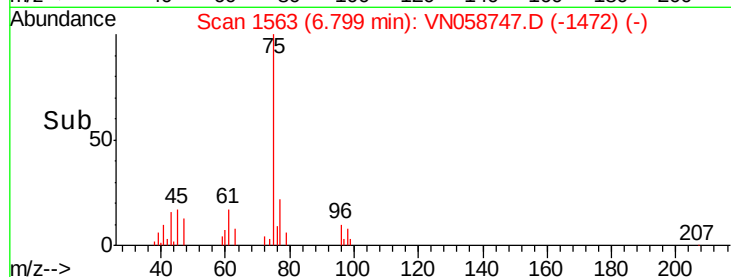
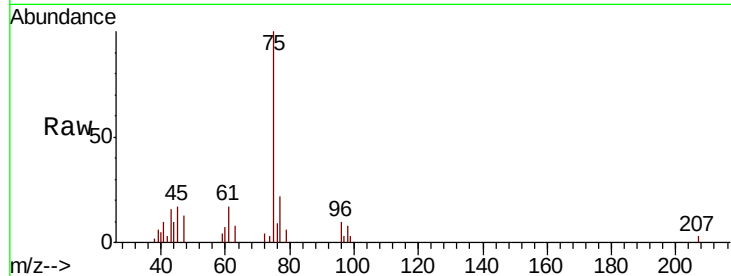




#26
 2,2-Dichloropropane
 Concen: 0.623 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

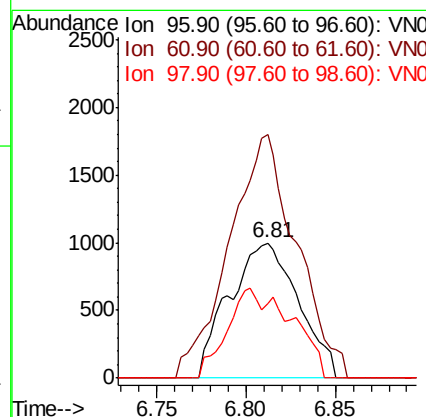
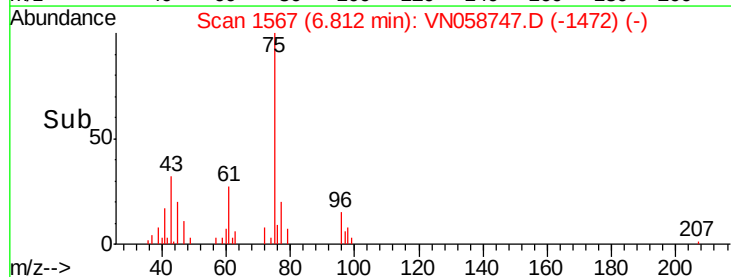
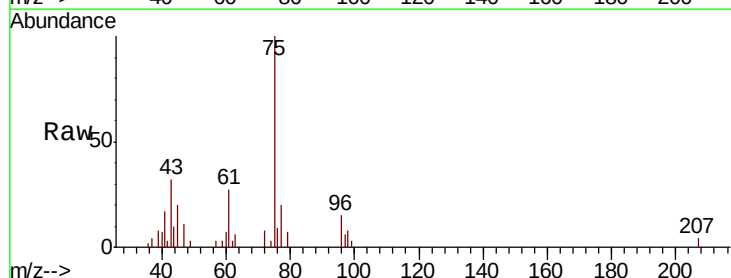
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

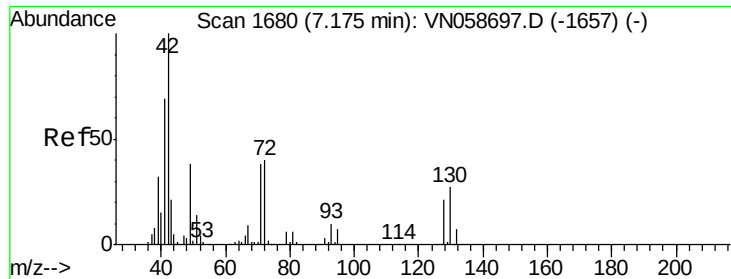
Tot Ion: 77 Resp: 4791
 Ion Ratio Lower Upper
 77 100
 97 8.3 10.7 31.9#



#27
 cis-1,2-Dichloroethene
 Concen: 0.548 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 96 Resp: 2694
 Ion Ratio Lower Upper
 96 100
 61 175.1 0.0 324.8
 98 32.3 0.0 129.2

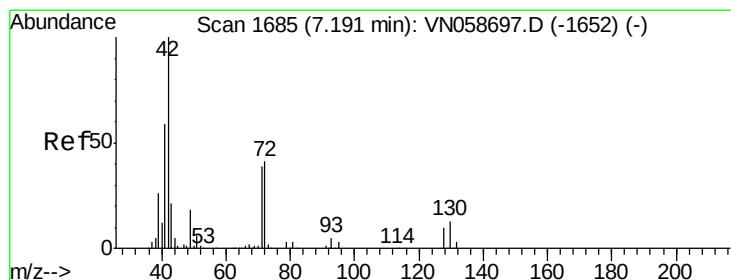
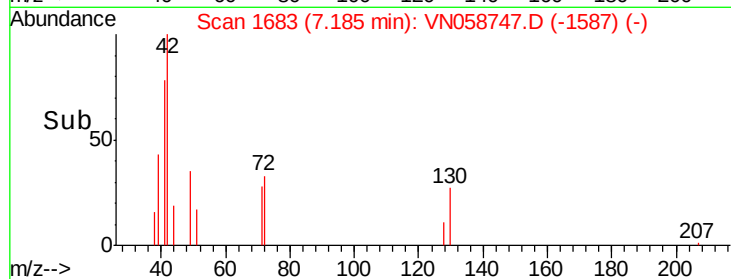
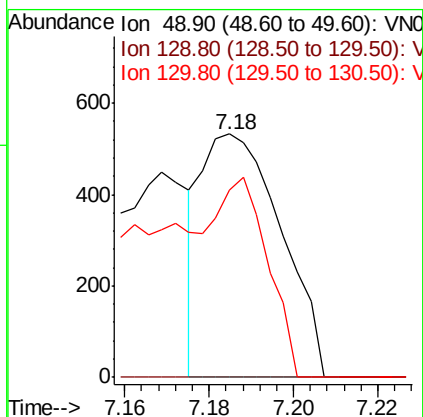
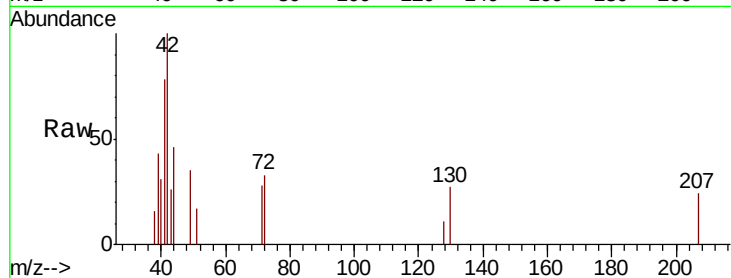




#28
Bromochloromethane
Concen: 0.237 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

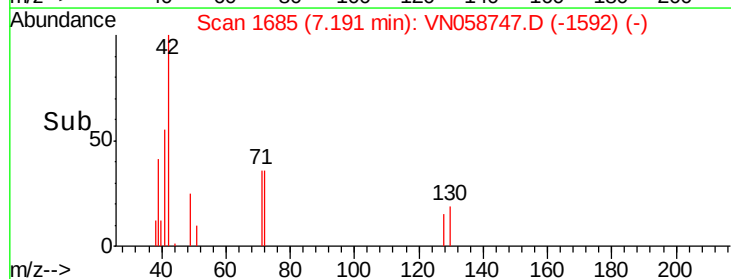
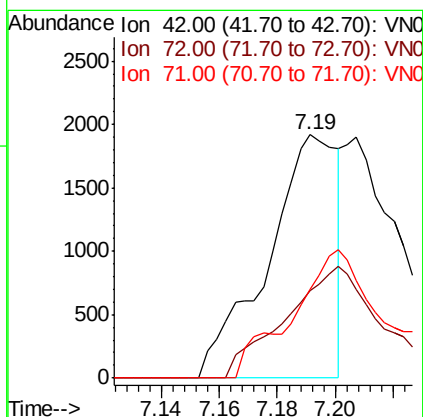
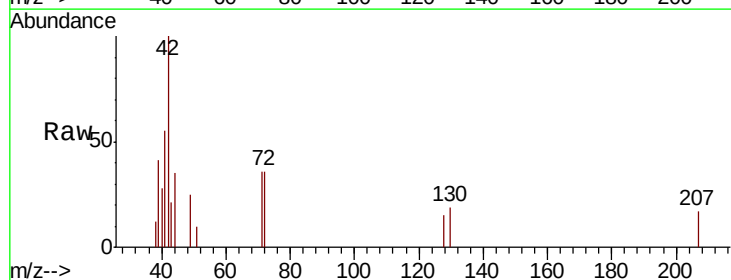
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

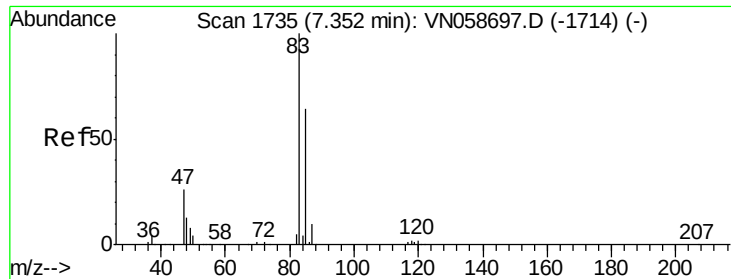
Tot Ion: 49 Resp: 693
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 54.1 55.0 82.4#



#29
Tetrahydrofuran
Concen: 1.505 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 42 Resp: 3197
Ion Ratio Lower Upper
42 100
72 65.6 32.8 49.2#
71 67.2 31.1 46.7#

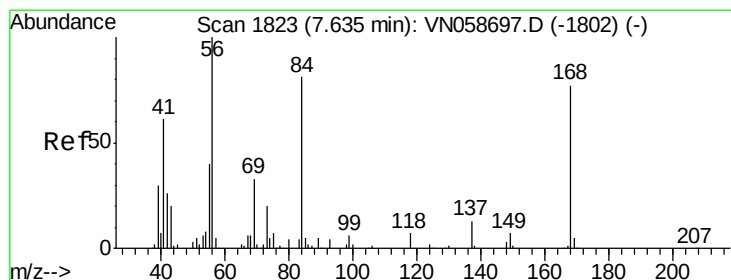
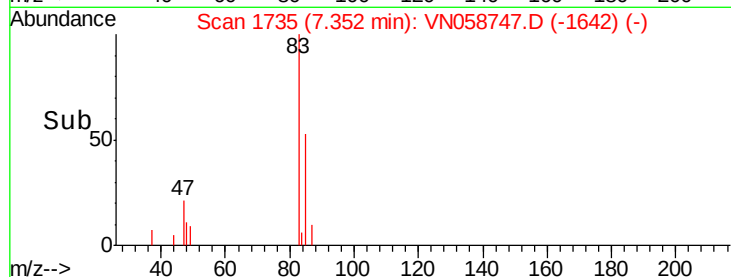
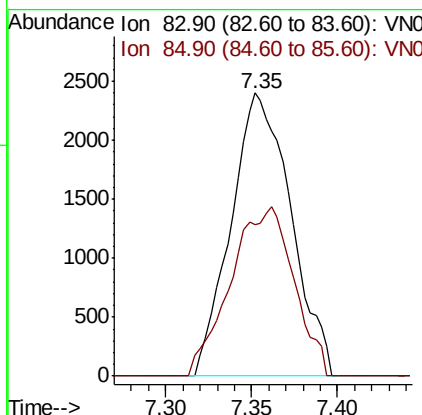
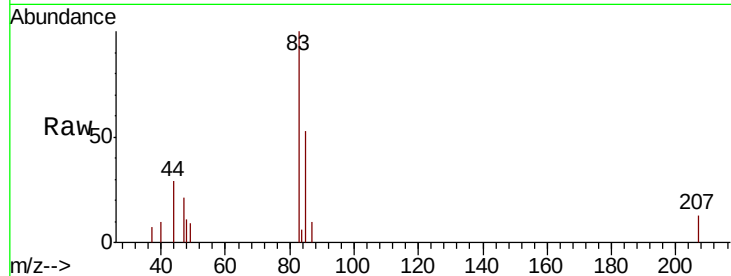




#30
Chloroform
Concen: 0.687 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

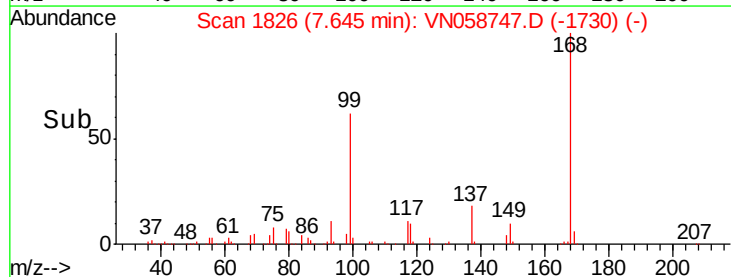
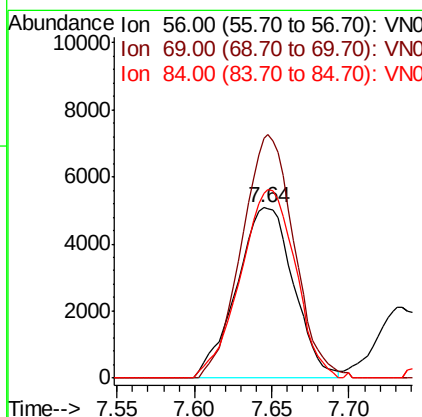
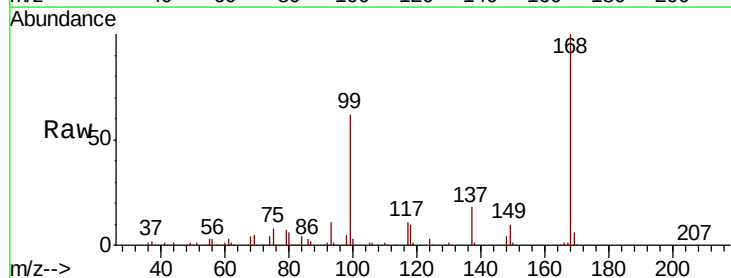
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

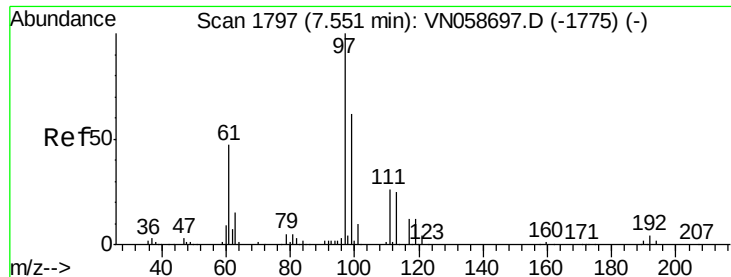
Tot Ion: 83 Resp: 5812
Ion Ratio Lower Upper
83 100
85 53.4 51.0 76.6



#31
Cyclohexane
Concen: 1.618 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 56 Resp: 13034
Ion Ratio Lower Upper
56 100
69 140.7 26.2 39.4#
84 108.6 64.9 97.3#

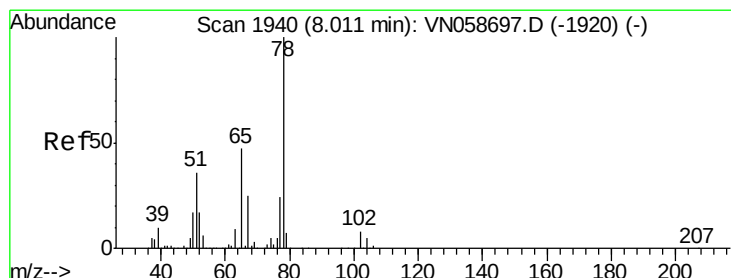
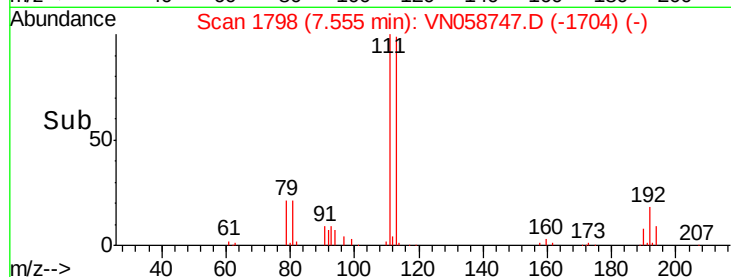
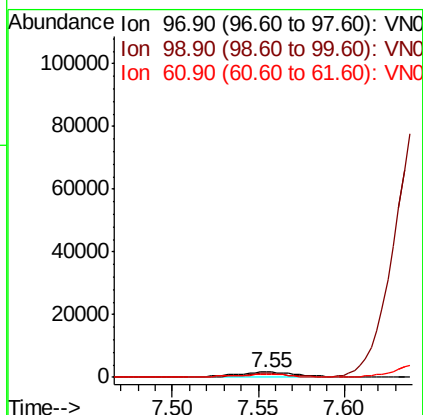
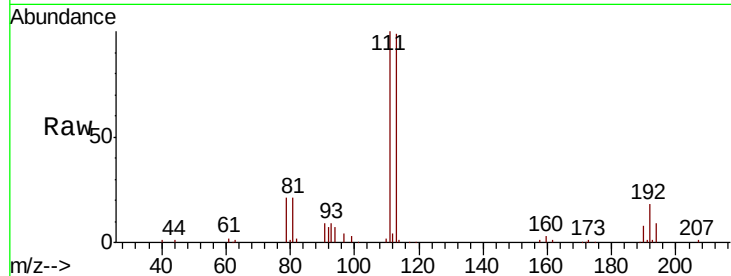




#32
 1,1,1-Trichloroethane
 Concen: 0.579 ug/l
 RT: 7.55 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

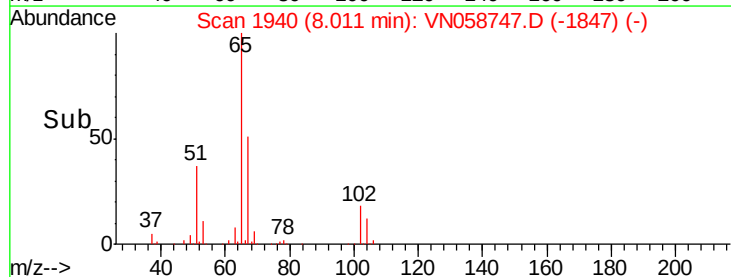
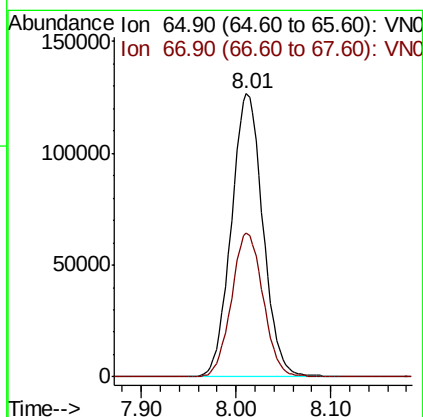
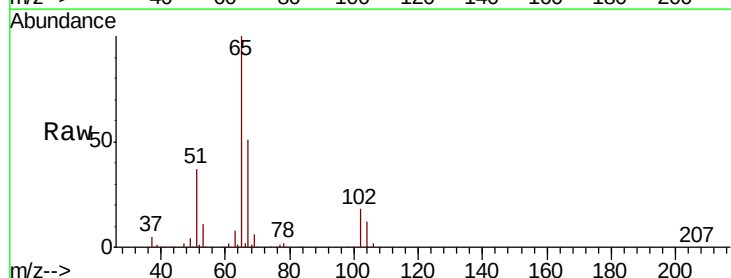
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

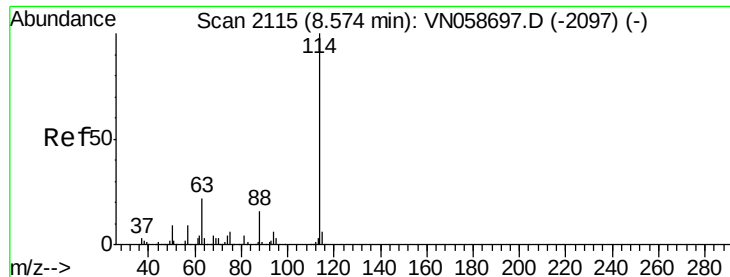
Tot Ion: 97 Resp: 4177
 Ion Ratio Lower Upper
 97 100
 99 0.0 50.8 76.2#
 61 54.2 38.1 57.1



#33
 1,2-Dichloroethane-d4
 Concen: 53.568 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 65 Resp: 294211
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.8

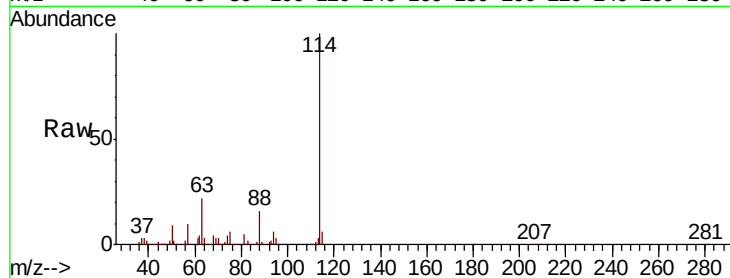




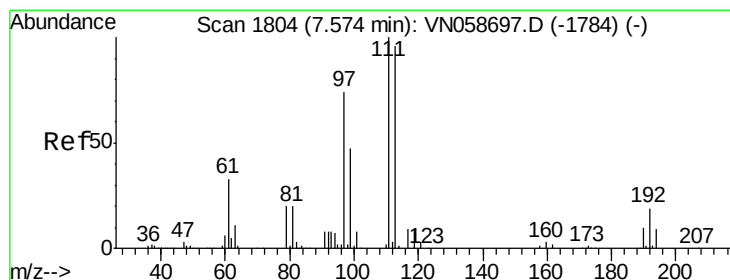
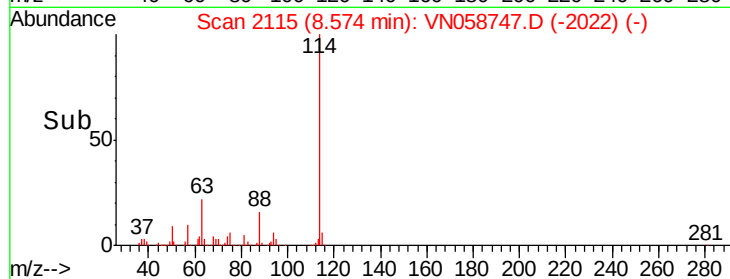
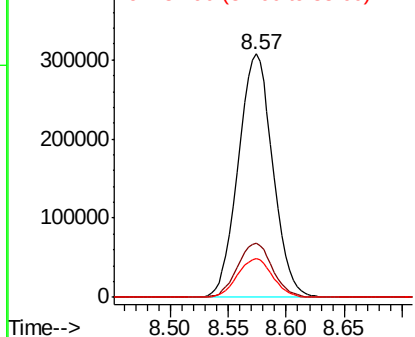
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion:114 Resp: 637218
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.8
 88 15.9 0.0 32.0

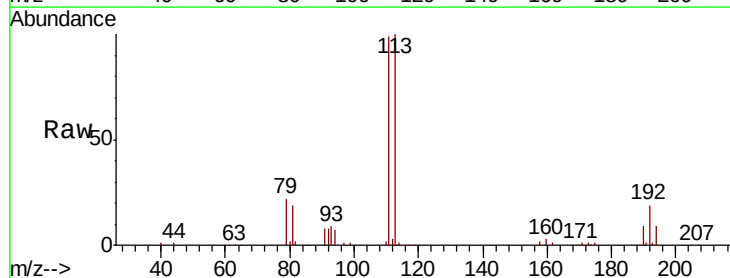


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

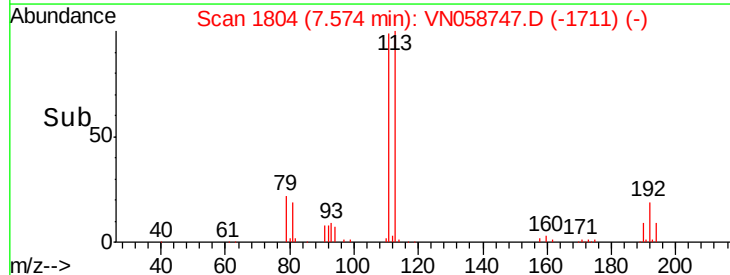
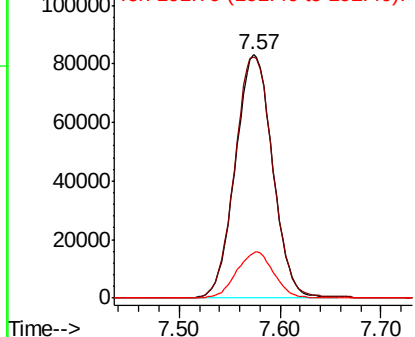


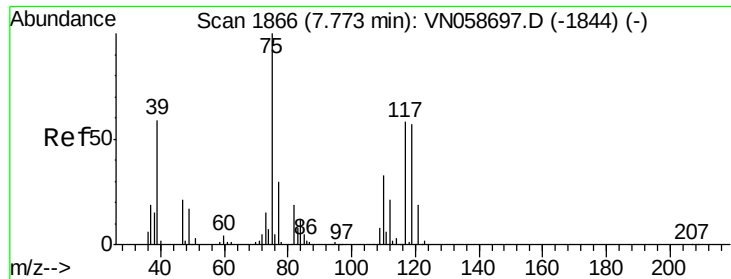
#35
 Dibromofluoromethane
 Concen: 54.027 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion:113 Resp: 212650
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.3 123.5
 192 18.9 15.0 22.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

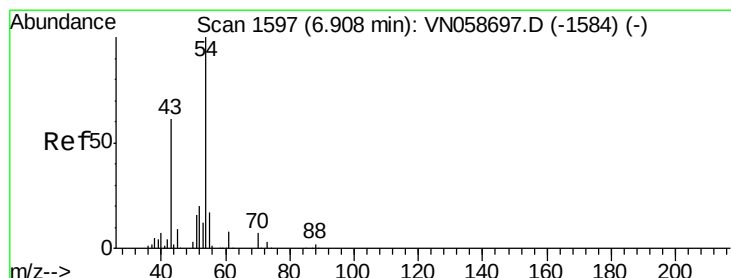
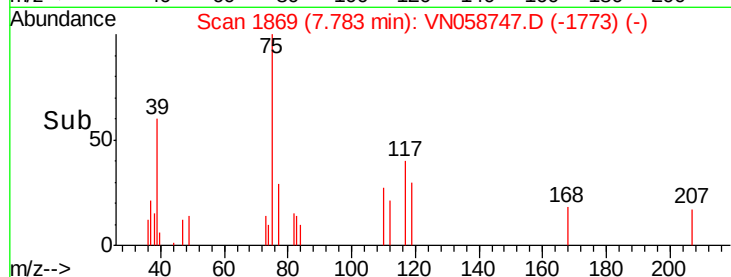
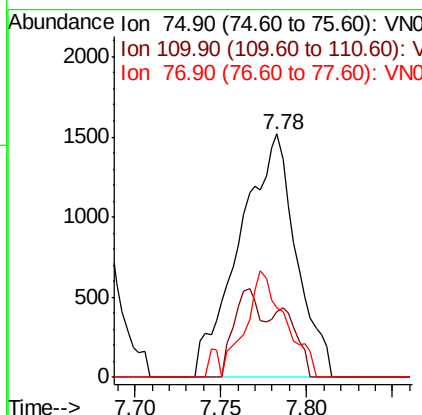
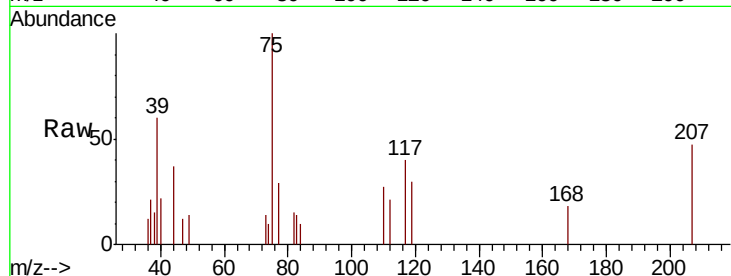




#36
 1,1-Dichloropropene
 Concen: 0.538 ug/l
 RT: 7.78 min Scan# 1869
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

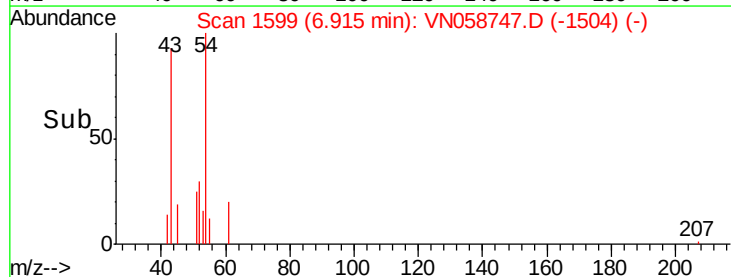
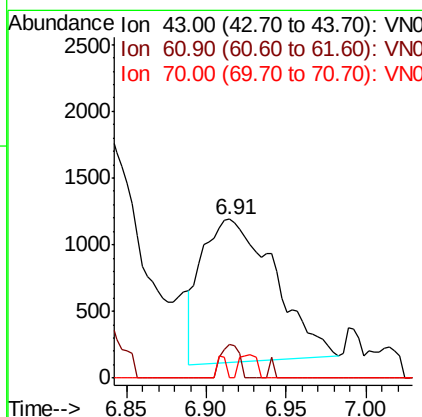
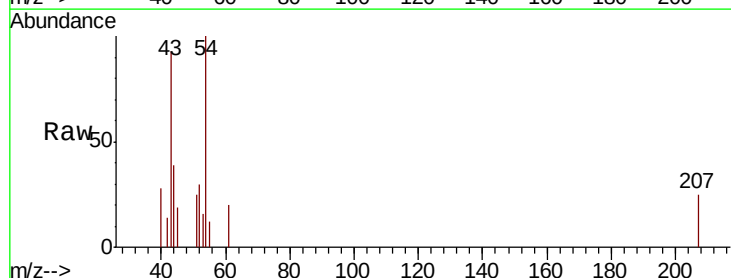
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

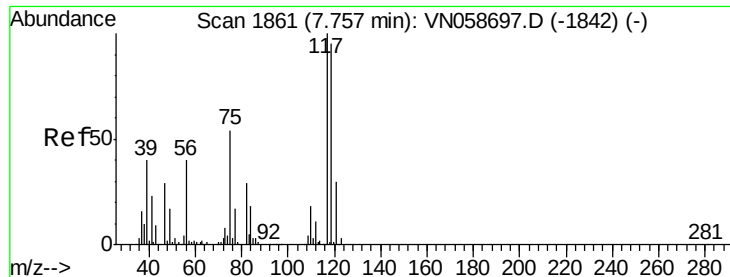
Tot Ion	Ratio	Lower	Upper
75	100		
110	17.9	16.6	49.8
77	30.6	24.6	37.0



#37
 Ethyl Acetate
 Concen: 0.520 ug/l
 RT: 6.91 min Scan# 1599
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
43	100		
61	6.0	11.3	16.9#
70	1.8	7.2	10.8#

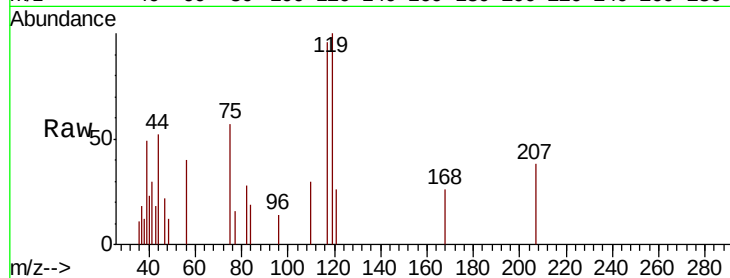




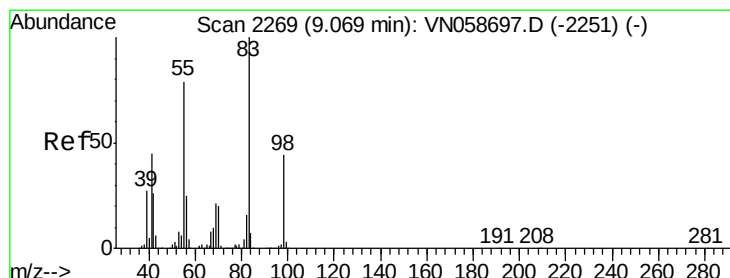
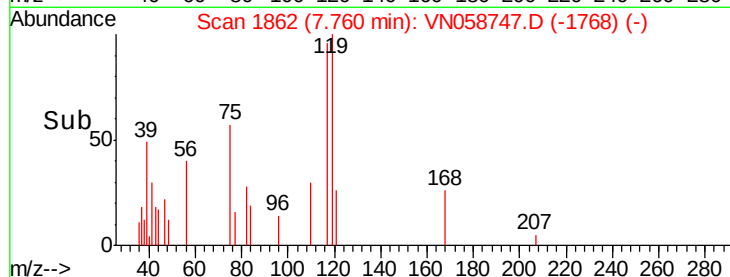
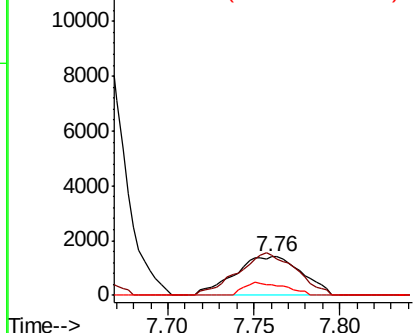
#38
Carbon Tetrachloride
Concen: 0.612 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:117 Resp: 3840
Ion Ratio Lower Upper
117 100
119 103.7 75.7 113.5
121 26.9 23.9 35.9

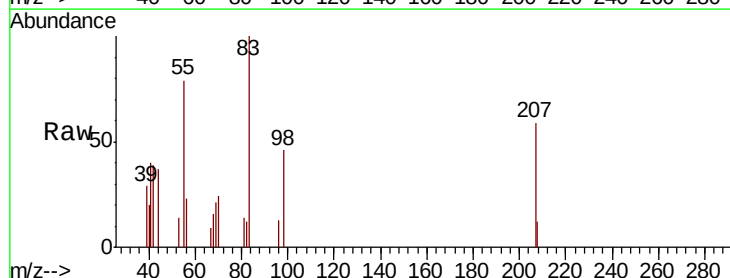


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

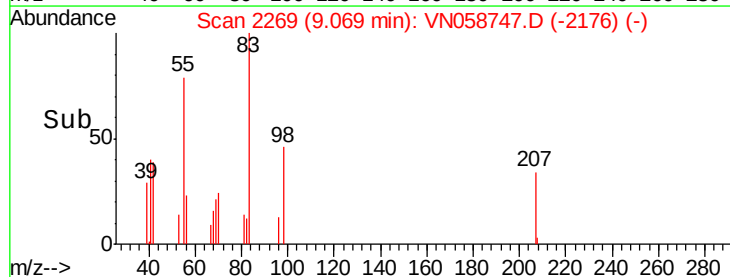
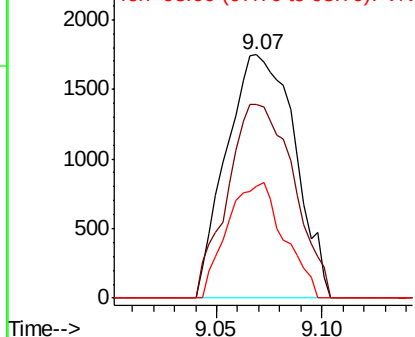


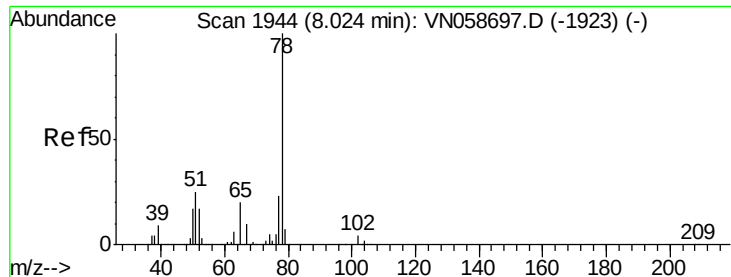
#39
Methylcyclohexane
Concen: 0.527 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 83 Resp: 3937
Ion Ratio Lower Upper
83 100
55 79.4 63.4 95.0
98 46.1 35.1 52.7



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO





#40

Benzene

Concen: 0.602 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

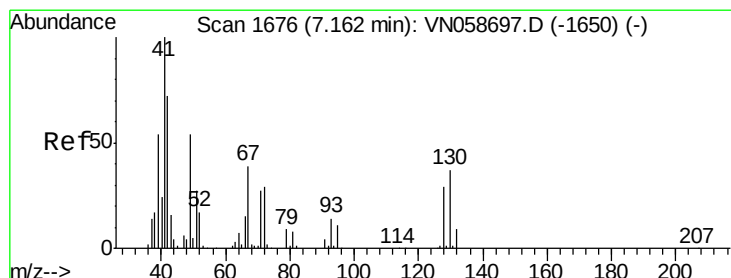
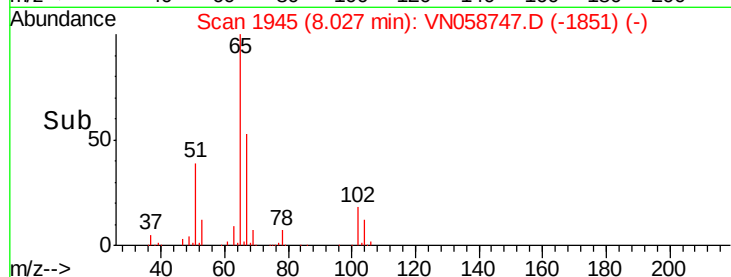
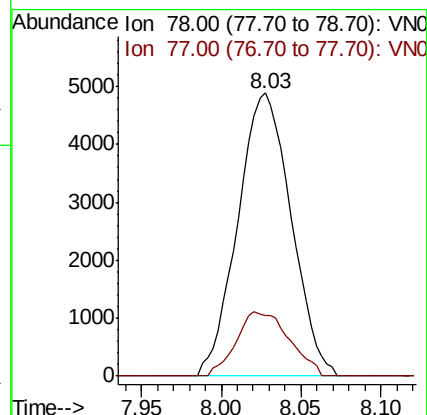
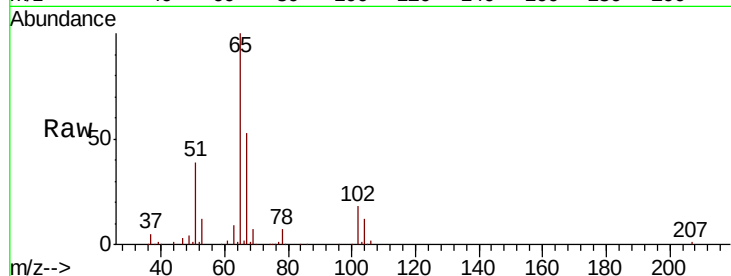
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 78 Resp: 11142

Ion Ratio Lower Upper

78 100

77 21.2 18.8 28.2



#41

Methacrylonitrile

Concen: 0.264 ug/l

RT: 7.15 min Scan# 1671

Delta R.T. -0.02 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion: 41 Resp: 805

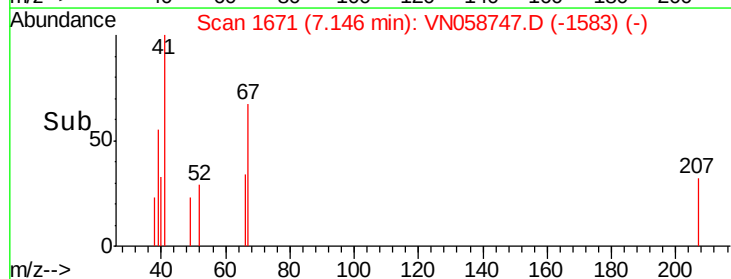
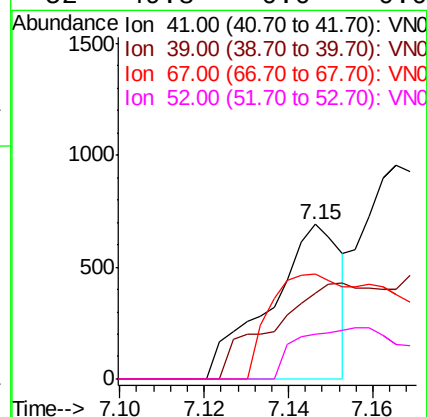
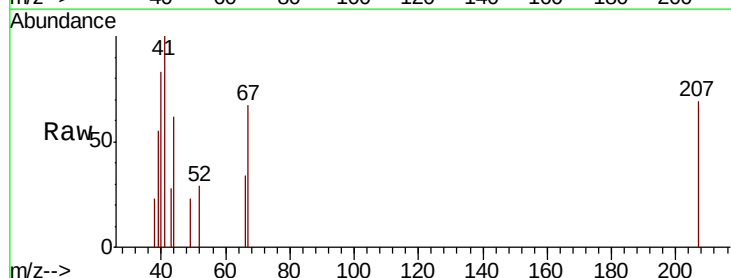
Ion Ratio Lower Upper

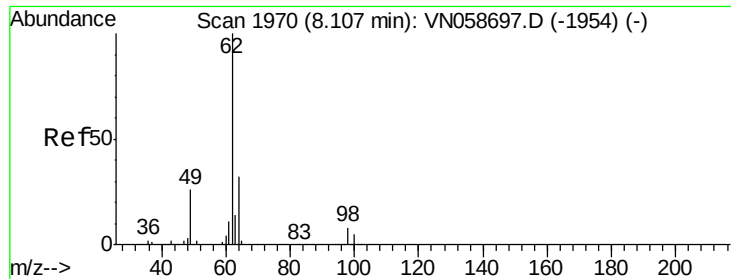
41 100

39 92.4 115.4 173.2#

67 145.7 0.0 0.0#

52 49.8 0.0 0.0#





#42

1,2-Dichloroethane

Concen: 0.675 ug/l

RT: 8.11 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

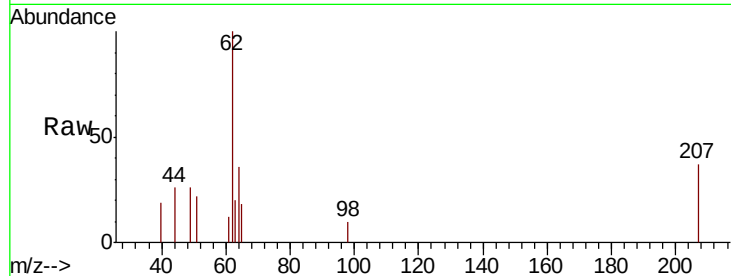
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 62 Resp: 4795

Ion Ratio Lower Upper

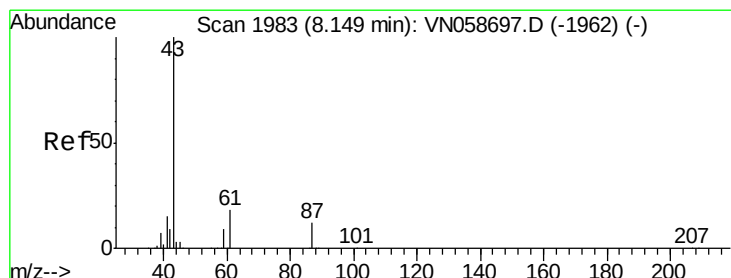
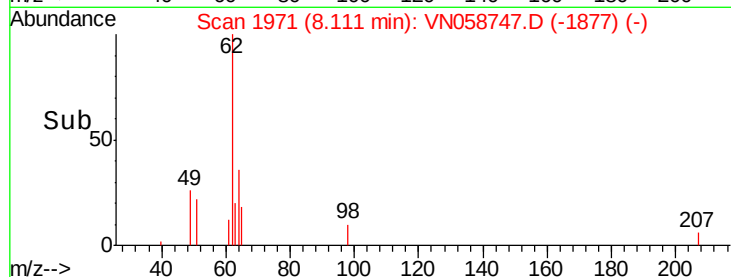
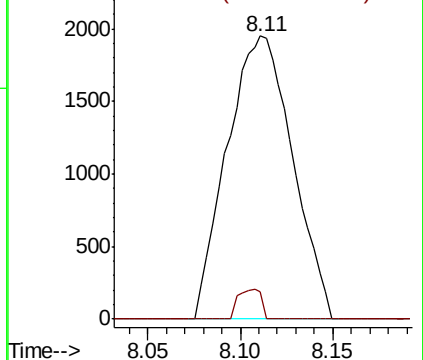
62 100

98 3.8 0.0 15.8



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#43

Isopropyl Acetate

Concen: 0.517 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

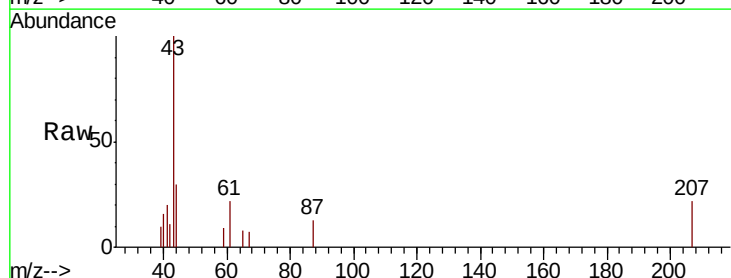
Tgt Ion: 43 Resp: 5743

Ion Ratio Lower Upper

43 100

61 18.2 20.3 30.5#

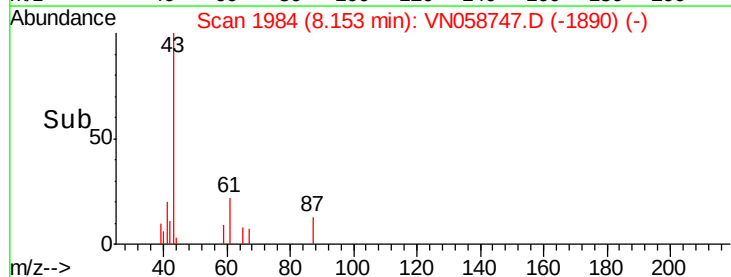
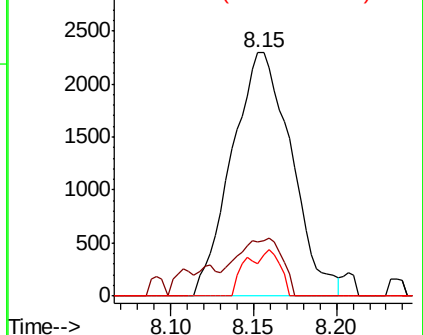
87 5.8 9.8 14.6#

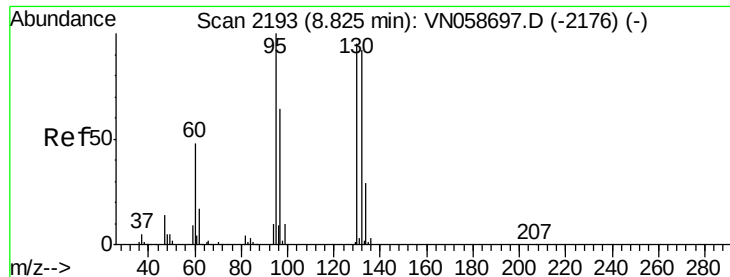


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#44

Trichloroethene

Concen: 0.565 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

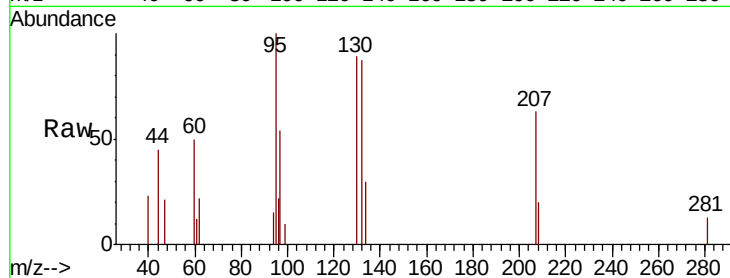
LOD-MDL-WATER-01-QT4-2019

Tot Ion:130 Resp: 2597

Ion Ratio Lower Upper

130 100

95 112.9 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

1500

1000

500

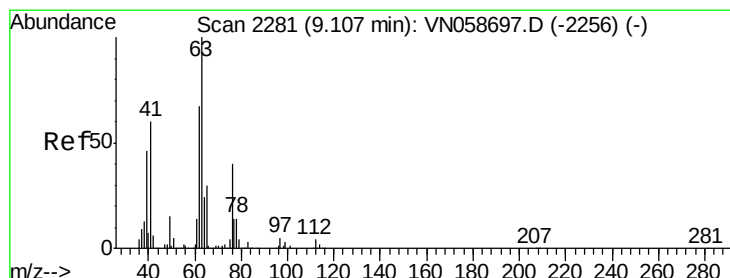
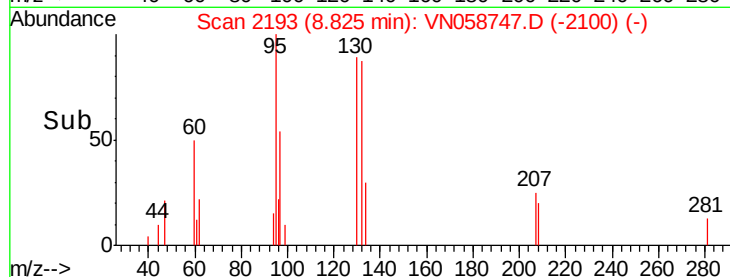
0

8.80

8.82

8.85

Time-->



#45

1,2-Dichloropropane

Concen: 0.557 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058747.D

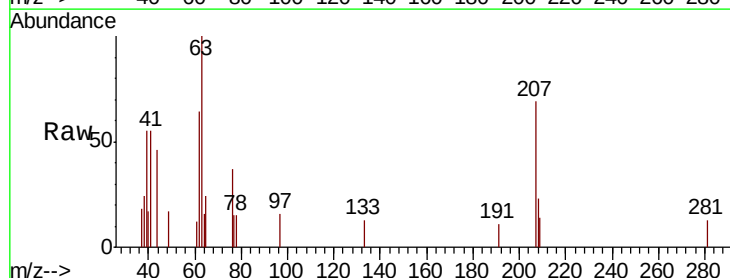
Acq: 14 Oct 2019 14:20

Tgt Ion: 63 Resp: 2757

Ion Ratio Lower Upper

63 100

65 24.4 24.1 36.1



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

1500

1000

500

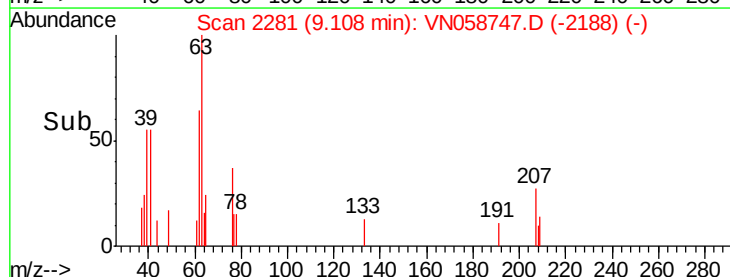
0

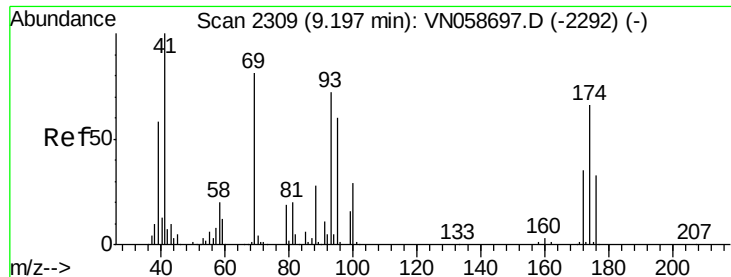
9.05

9.10

9.15

Time-->

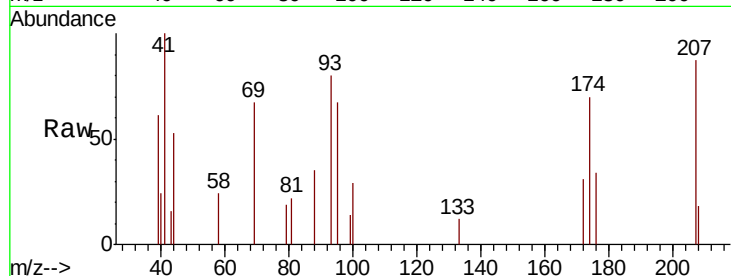




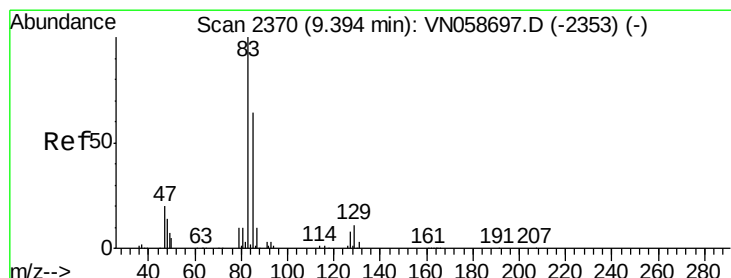
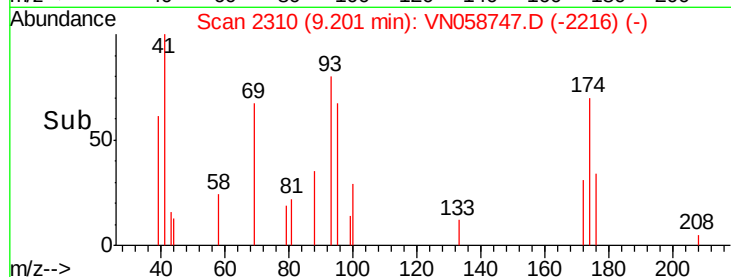
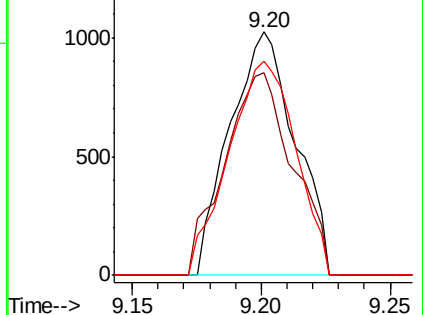
#46
Dibromomethane
Concen: 0.576 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 93 Resp: 1808
Ion Ratio Lower Upper
93 100
95 86.6 66.6 100.0
174 90.5 75.2 112.8

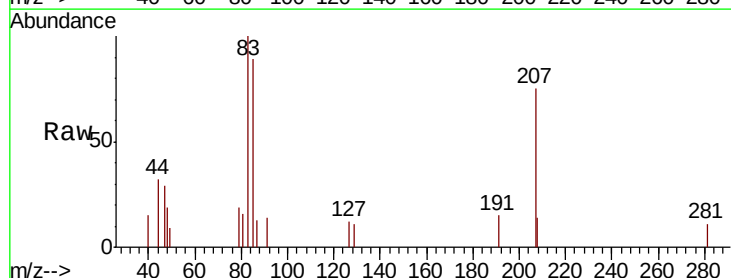


Abundance Ion 92.80 (92.50 to 93.50): VN0
Ion 94.80 (94.50 to 95.50): VN0
Ion 173.70 (173.40 to 174.40): V

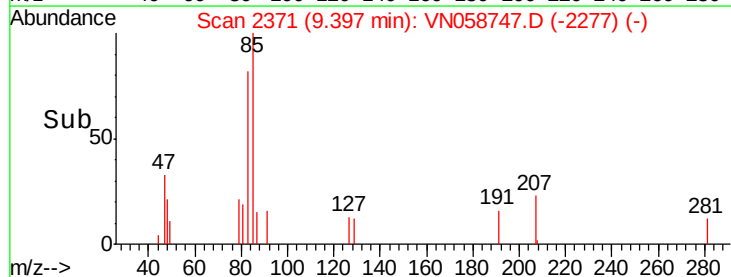
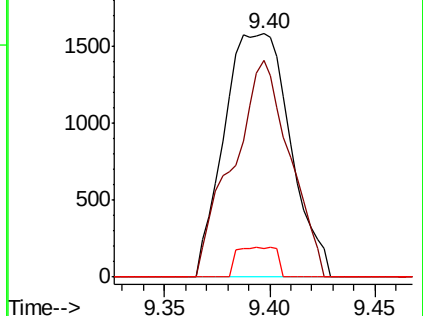


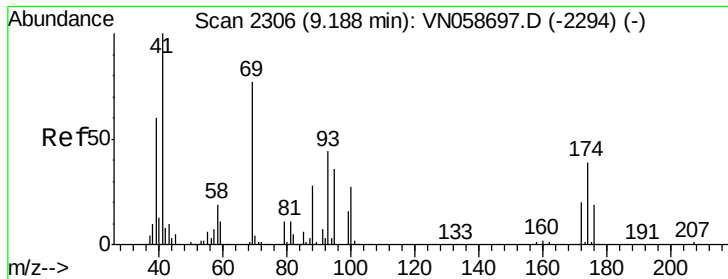
#47
Bromodichloromethane
Concen: 0.540 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 83 Resp: 3454
Ion Ratio Lower Upper
83 100
85 88.9 50.9 76.3#
127 11.9 6.3 9.5#



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

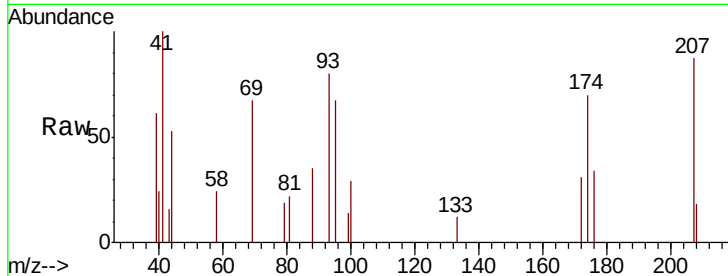




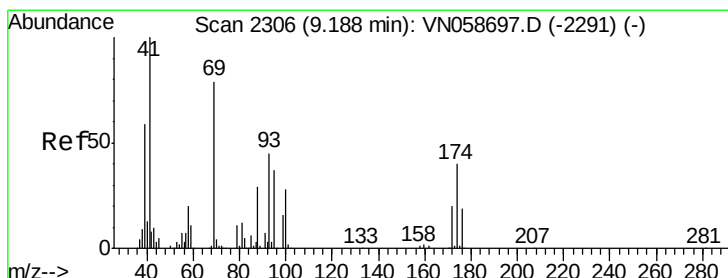
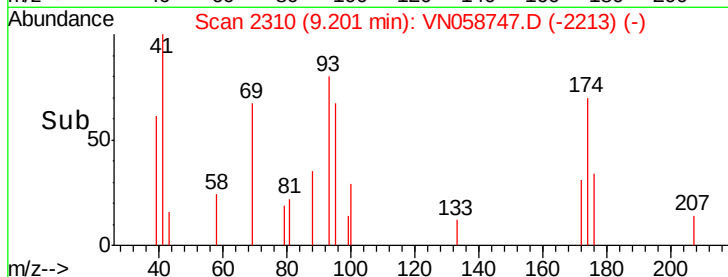
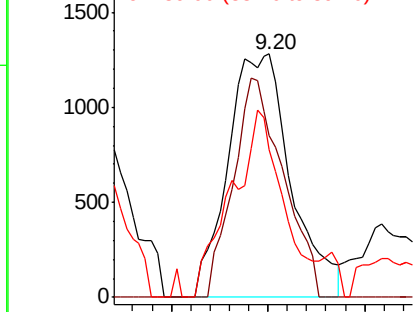
#48
Methvl methacrylate
Concen: 0.577 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 41 Resp: 2902
Ion Ratio Lower Upper
41 100
69 71.5 63.4 95.2
39 64.1 48.9 73.3

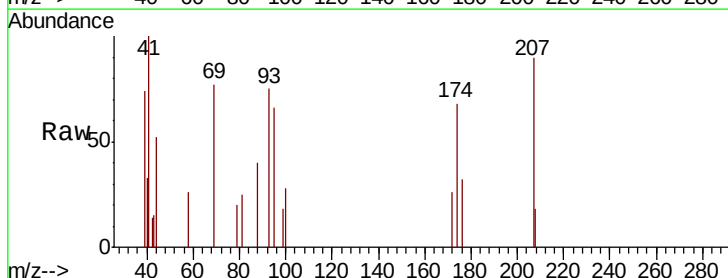


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

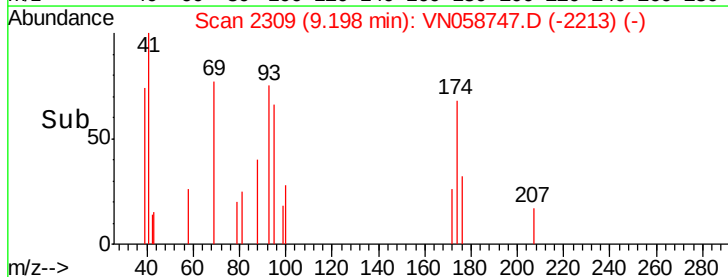
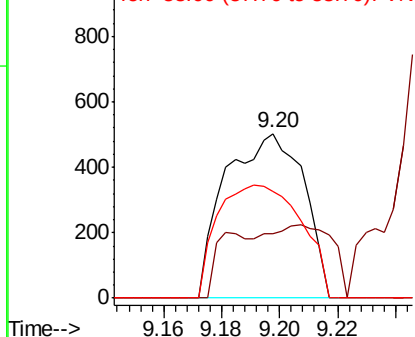


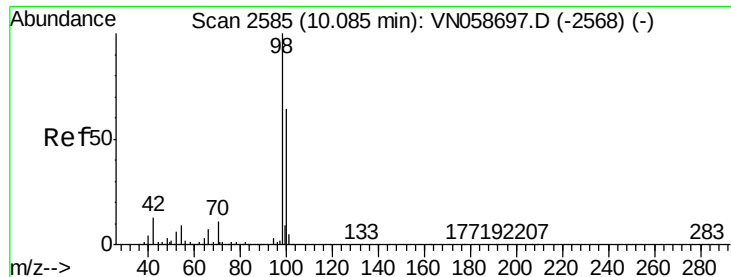
#49
1,4-Dioxane
Concen: 12.102 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 88 Resp: 942
Ion Ratio Lower Upper
88 100
43 19.1 28.6 43.0#
58 73.2 57.2 85.8



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





#50

Toluene-d8

Concen: 49.289 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

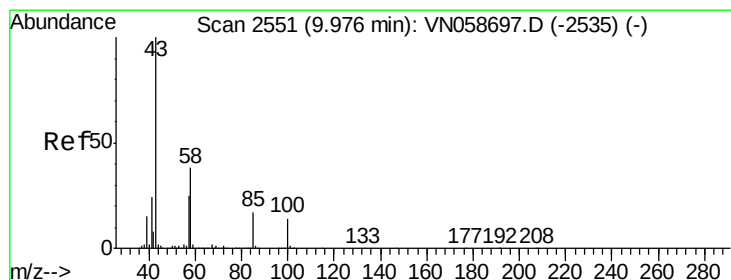
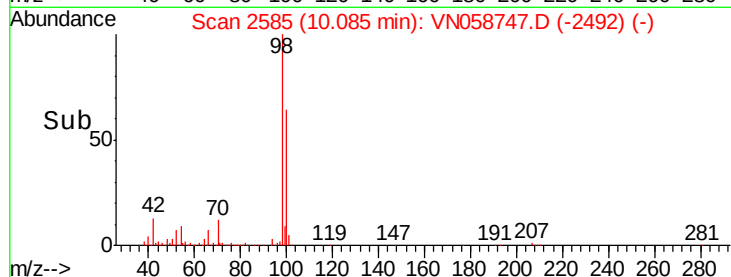
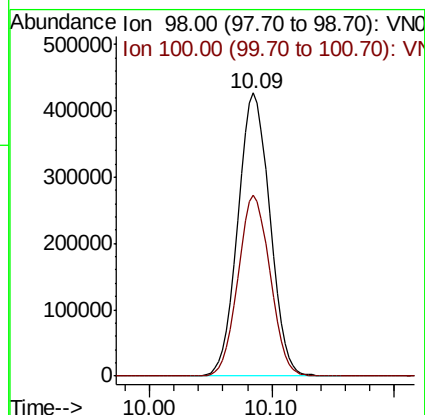
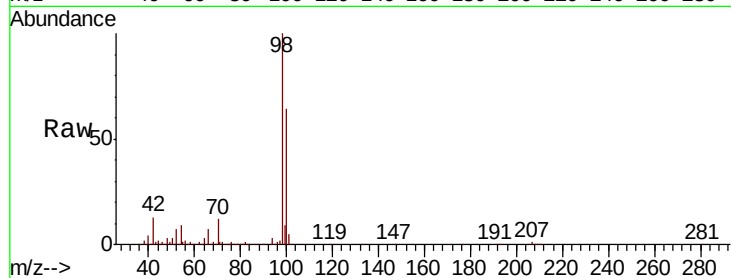
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 98 Resp: 775775

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 2.488 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058747.D

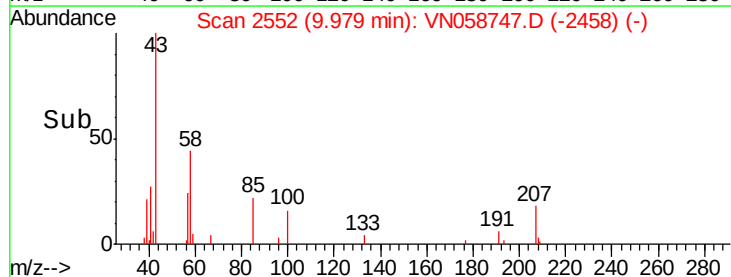
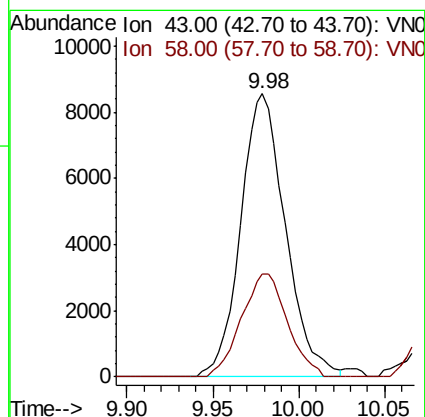
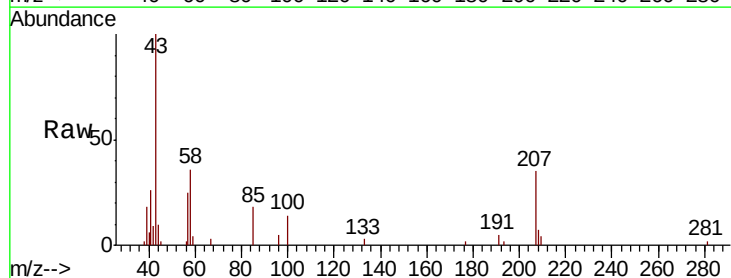
Acq: 14 Oct 2019 14:20

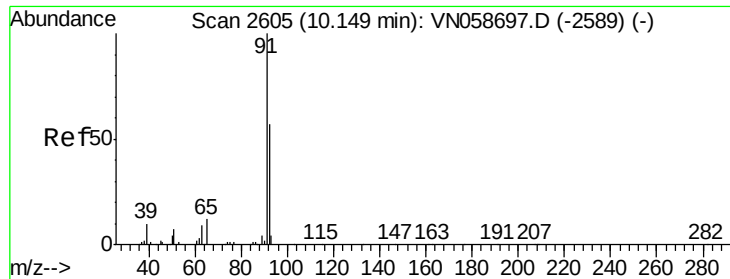
Tgt Ion: 43 Resp: 15510

Ion Ratio Lower Upper

43 100

58 37.2 30.3 45.5





#52

Toluene

Concen: 0.564 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

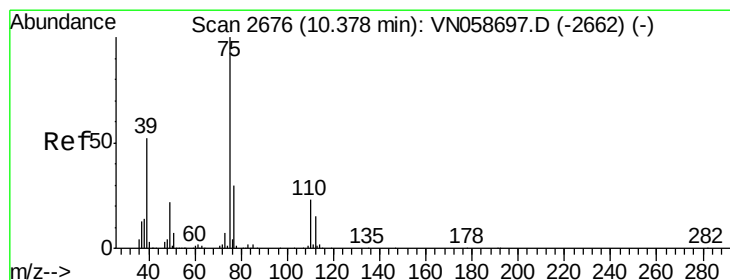
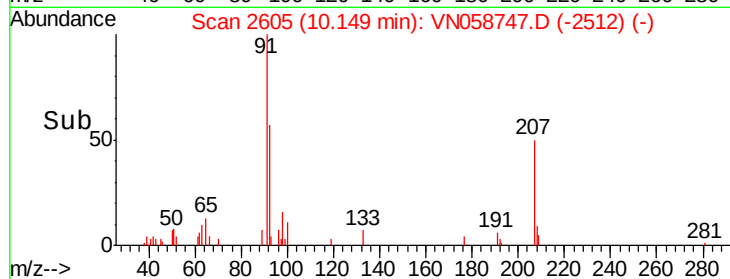
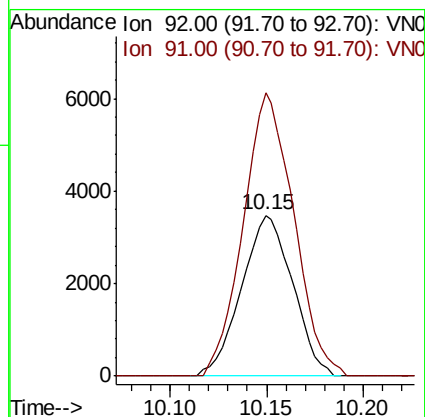
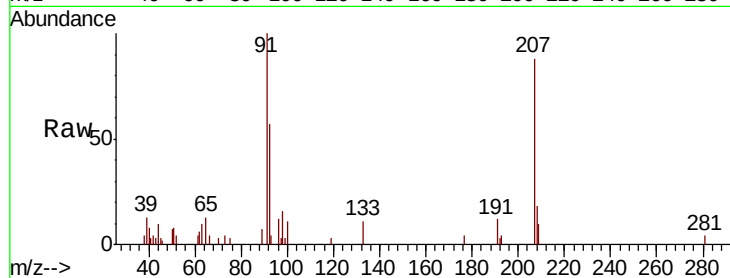
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 92 Resp: 6386

Ion Ratio Lower Upper

92 100

91 174.0 139.1 208.7



#53

t-1,3-Dichloropropene

Concen: 0.492 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN058747.D

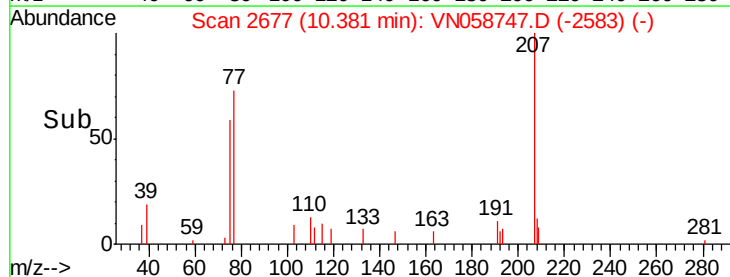
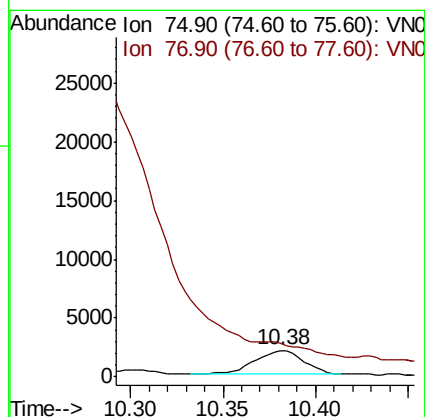
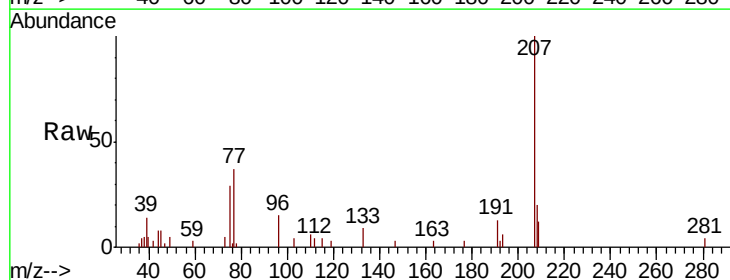
Acq: 14 Oct 2019 14:20

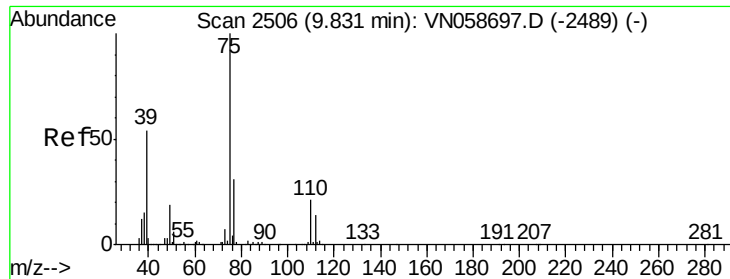
Tgt Ion: 75 Resp: 3606

Ion Ratio Lower Upper

75 100

77 53.8 26.2 39.4#



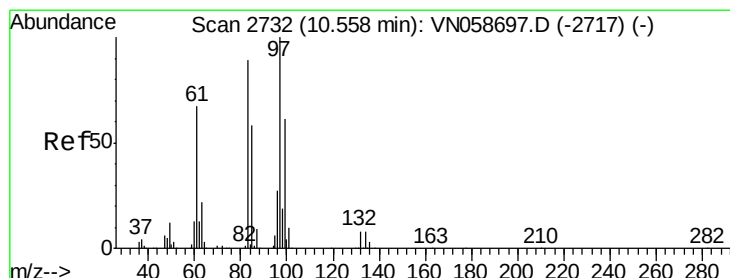
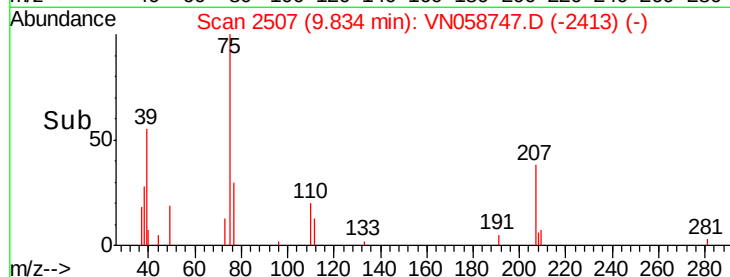
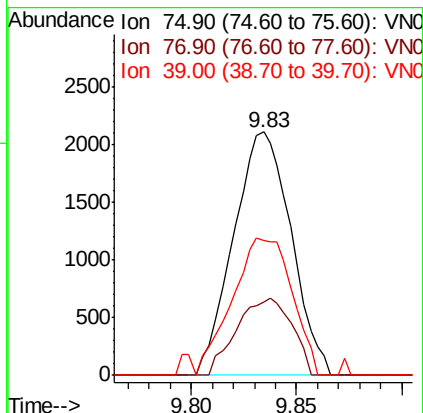
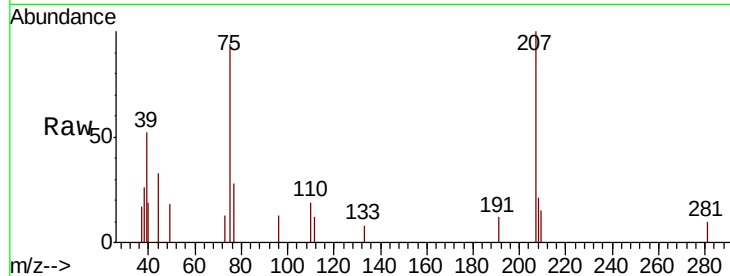


#54

cis-1,3-Dichloropropene
 Concen: 0.514 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

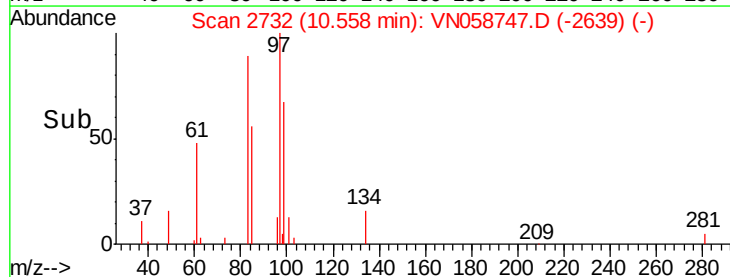
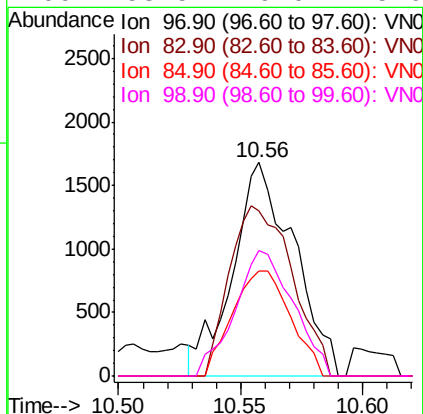
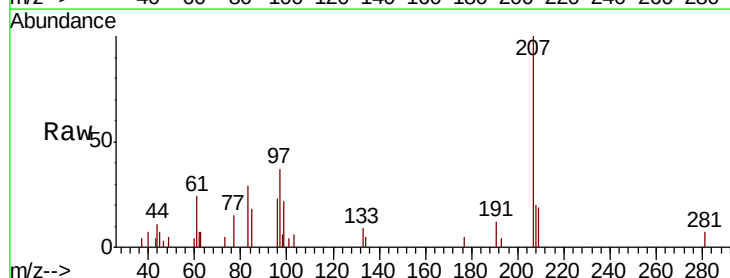
Tot Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.4	36.6
39	55.3	43.1	64.7

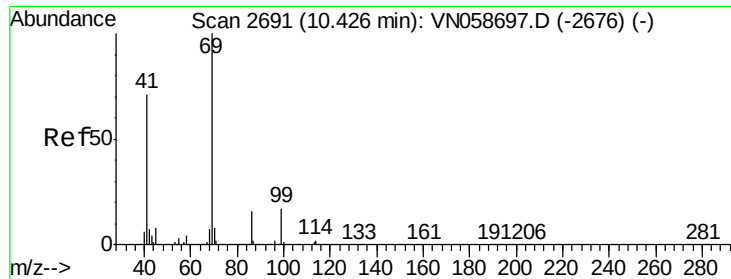


#55

1,1,2-Trichloroethane
 Concen: 0.629 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
97	100		
83	77.1	71.2	106.8
85	49.2	46.7	70.1
99	58.5	49.0	73.6





#56

Ethyl methacrylate

Concen: 0.432 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

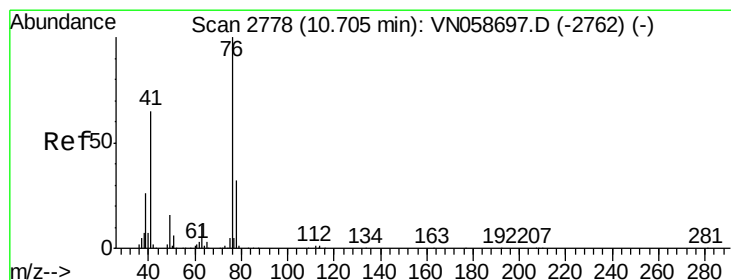
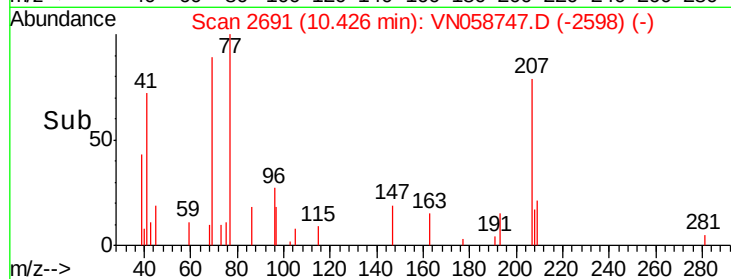
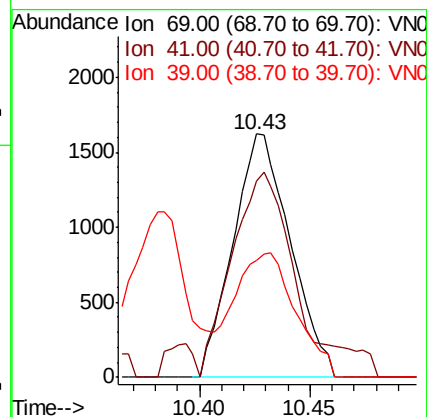
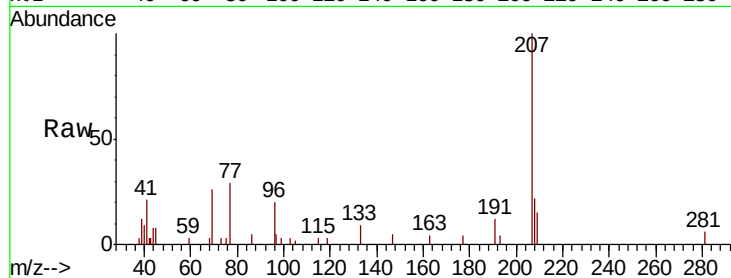
Tot Ion: 69 Resp: 2923

Ion Ratio Lower Upper

69 100

41 95.1 56.8 85.2#

39 54.8 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 0.594 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058747.D

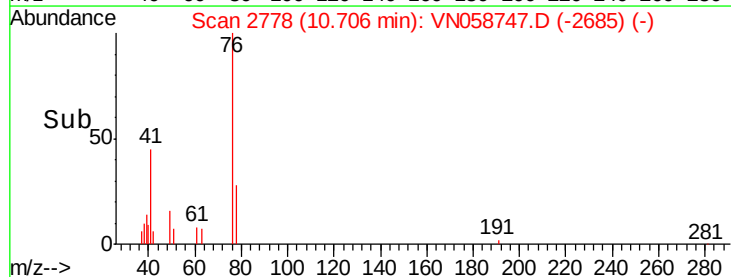
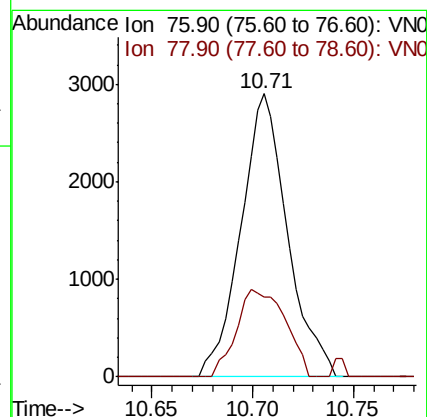
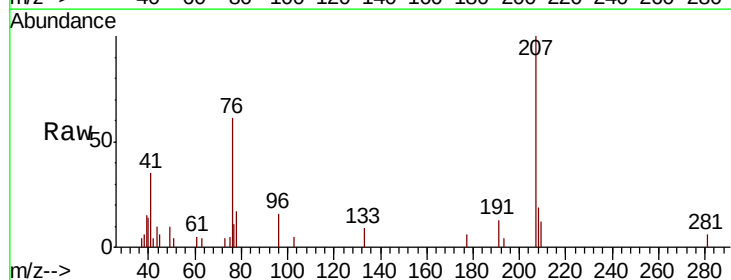
Acq: 14 Oct 2019 14:20

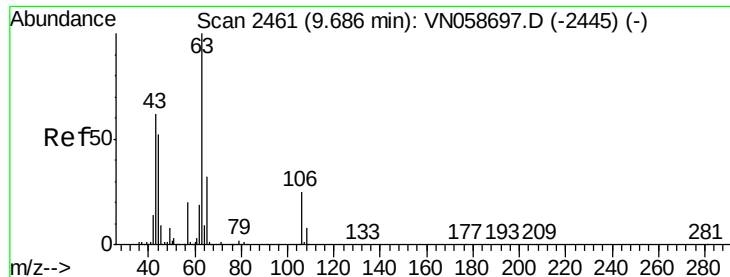
Tgt Ion: 76 Resp: 4689

Ion Ratio Lower Upper

76 100

78 32.6 25.9 38.9





#58

2-Chloroethyl Vinyl ether

Concen: 2.008 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

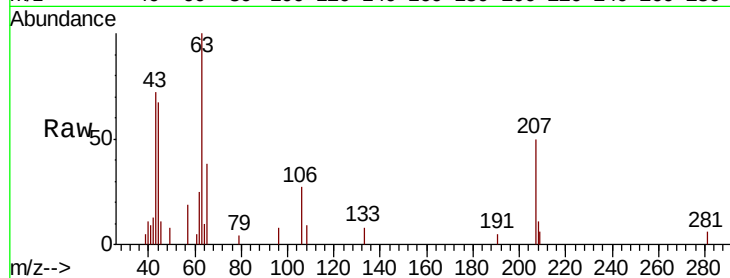
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 63 Resp: 6550

Ion Ratio Lower Upper

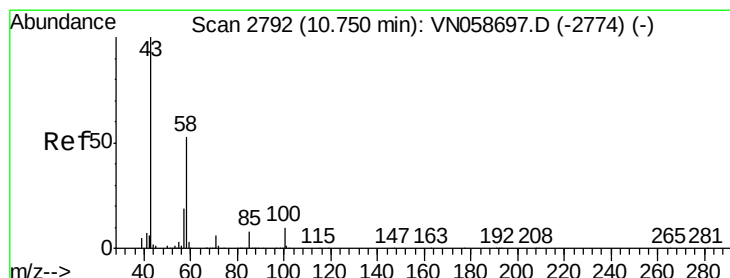
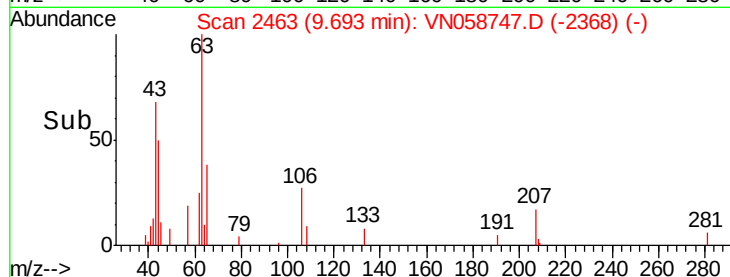
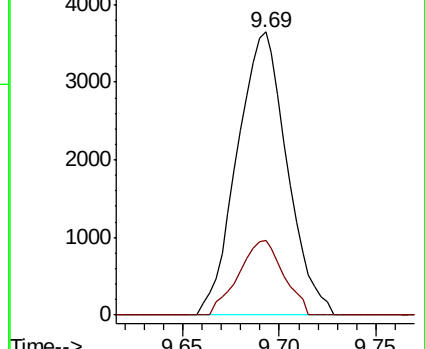
63 100

106 23.9 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN0



#59

2-Hexanone

Concen: 2.529 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN058747.D

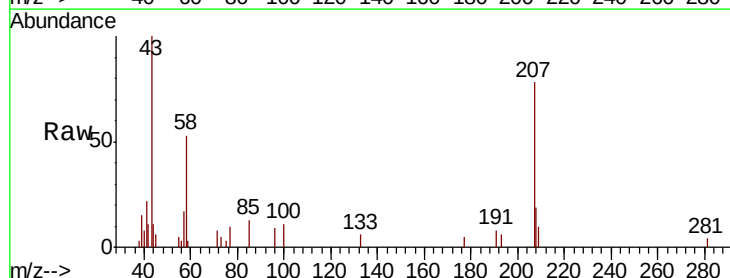
Acq: 14 Oct 2019 14:20

Tgt Ion: 43 Resp: 12184

Ion Ratio Lower Upper

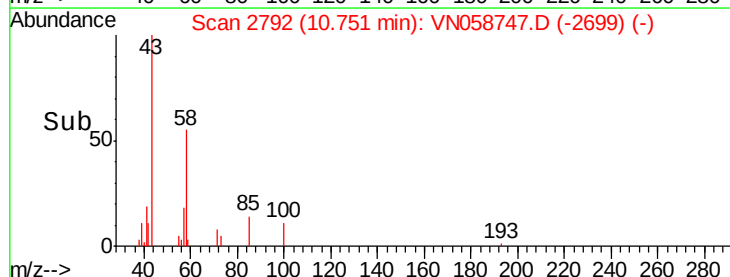
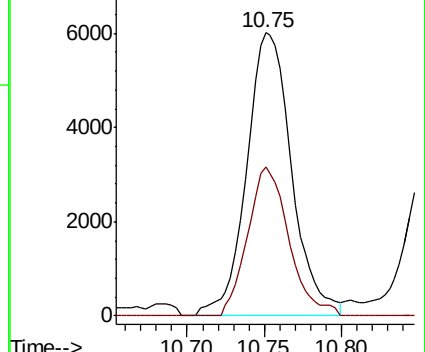
43 100

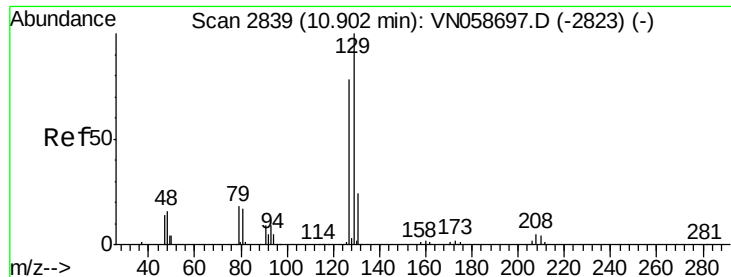
58 48.2 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#60

Dibromochloromethane

Concen: 0.495 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

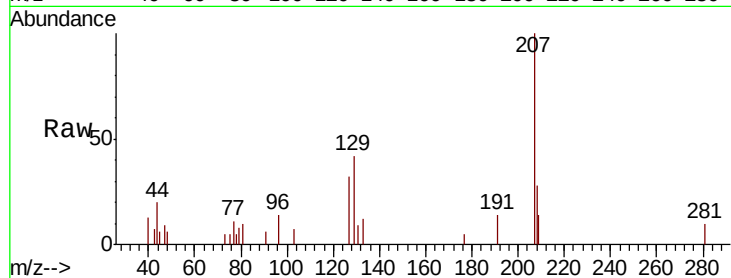
LOD-MDL-WATER-01-QT4-2019

Tot Ion:129 Resp: 2365

Ion Ratio Lower Upper

129 100

127 81.4 38.5 115.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

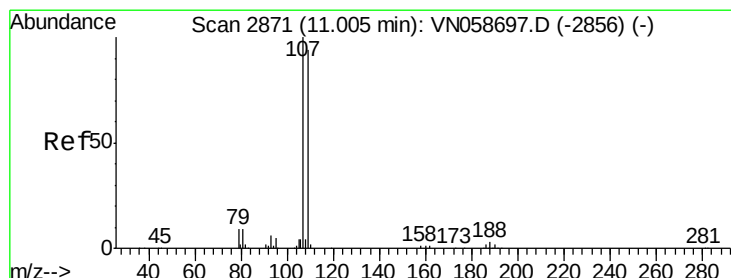
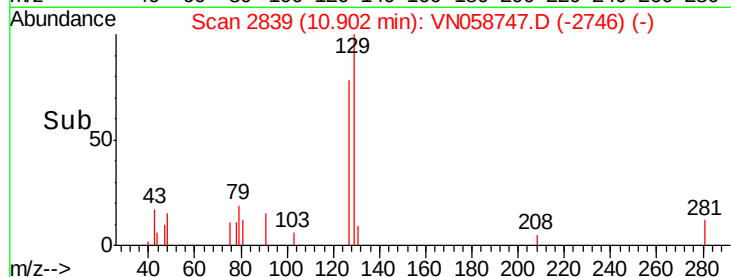
1500

1000

500

0

Time--> 10.85 10.90 10.95



#61

1,2-Dibromoethane

Concen: 0.532 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058747.D

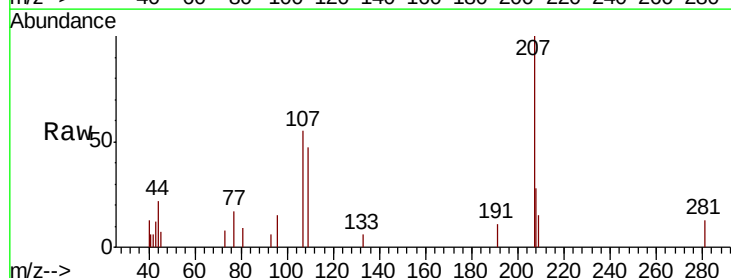
Acq: 14 Oct 2019 14:20

Tgt Ion:107 Resp: 2468

Ion Ratio Lower Upper

107 100

109 94.0 75.4 113.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

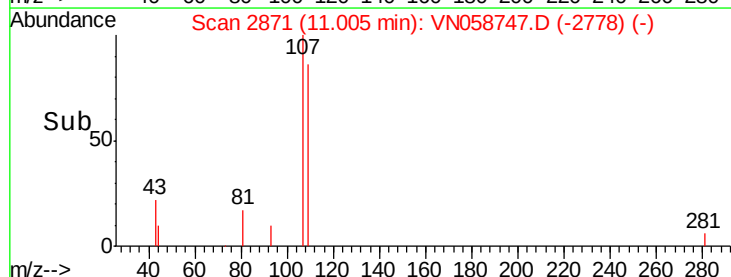
1500

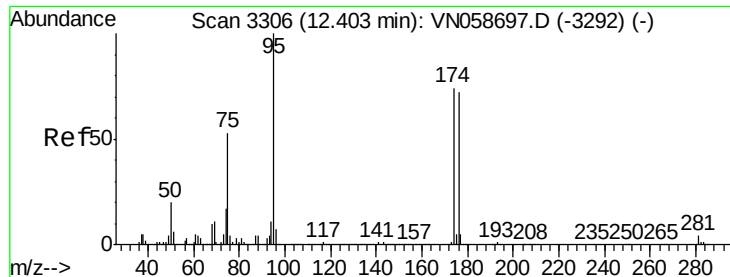
1000

500

0

Time--> 10.95 11.00 11.05





#62

4-Bromofluorobenzene

Concen: 43.784 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

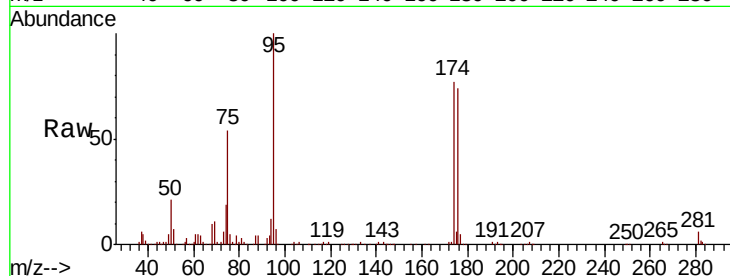
Tot Ion: 95 Resp: 260855

Ion Ratio Lower Upper

95 100

174 77.8 0.0 150.4

176 74.9 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058697.D (-3292) (-)

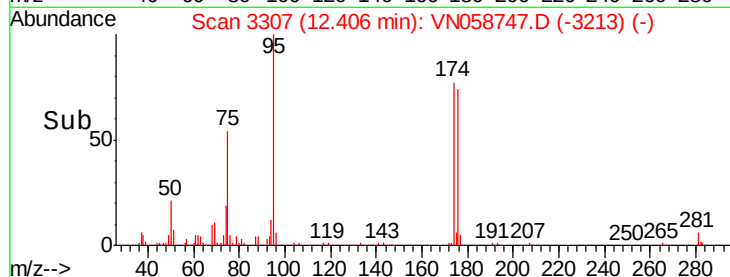
Ion 173.80 (173.50 to 174.50): VN058697.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058697.D (-3292) (-)

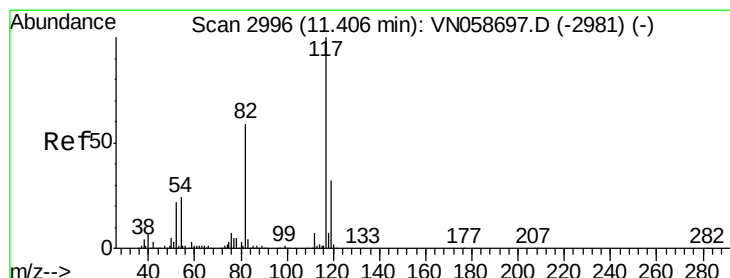
12.41

12.40

12.50



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

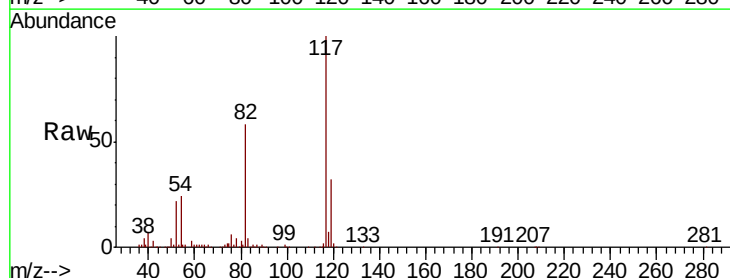
Tgt Ion: 117 Resp: 581459

Ion Ratio Lower Upper

117 100

82 57.7 47.0 70.4

119 32.0 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN058697.D (-2981) (-)

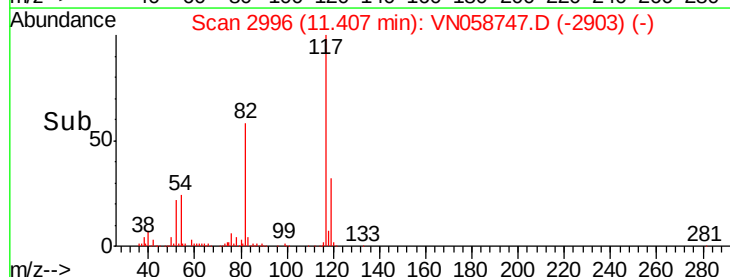
Ion 82.00 (81.70 to 82.70): VN058697.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058697.D (-2981) (-)

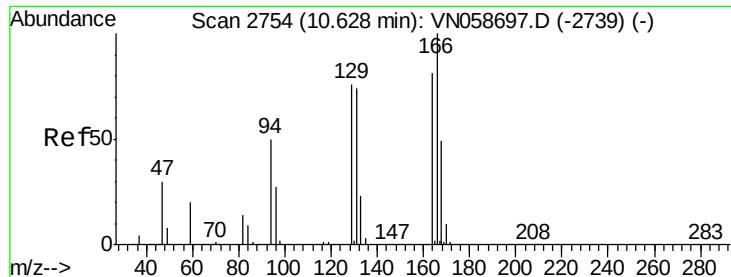
11.41

11.30

11.50



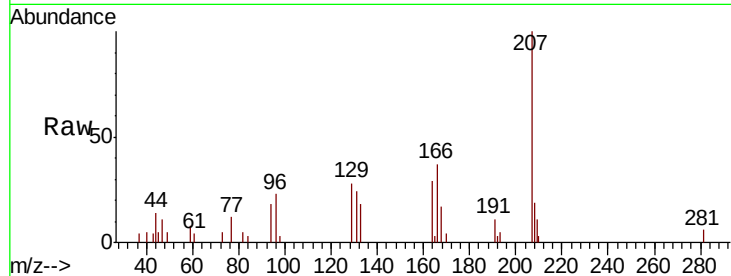
Time-->



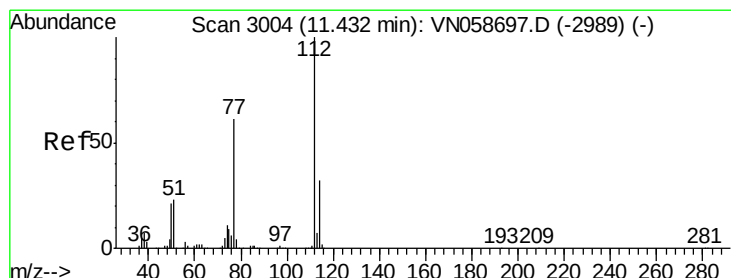
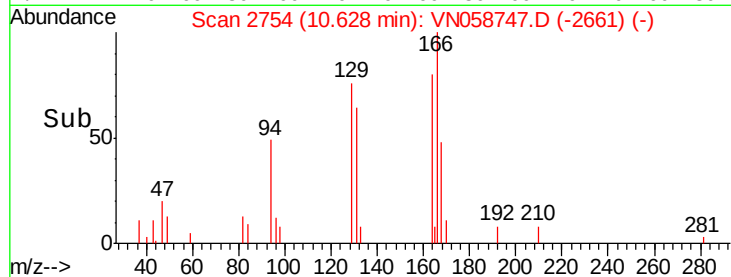
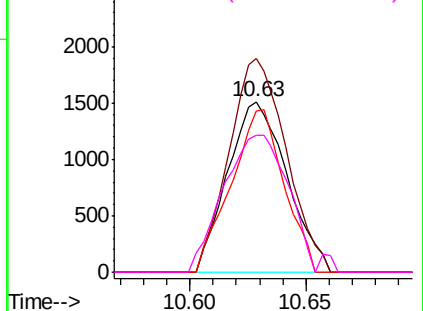
#64
Tetrachloroethene
Concen: 0.660 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:164 Resp: 2687
Ion Ratio Lower Upper
164 100
166 125.3 99.3 148.9
129 95.0 75.2 112.8
131 80.4 73.0 109.4

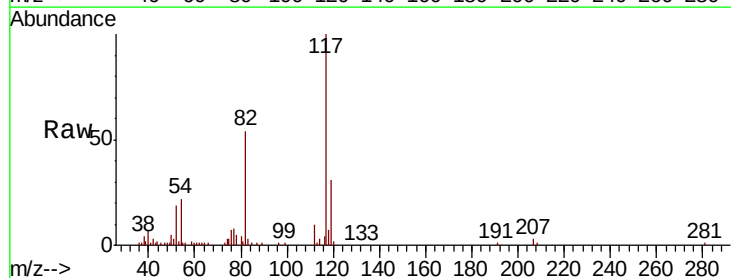


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

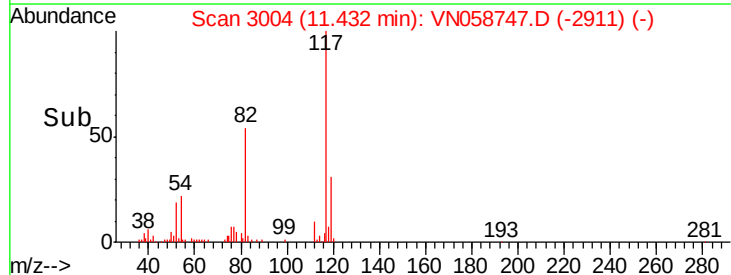
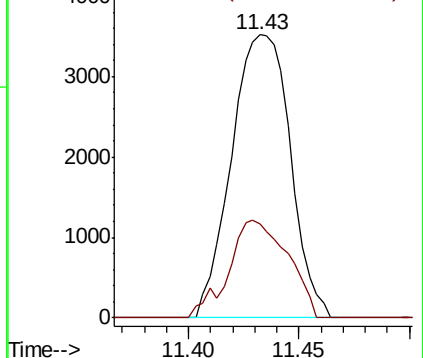


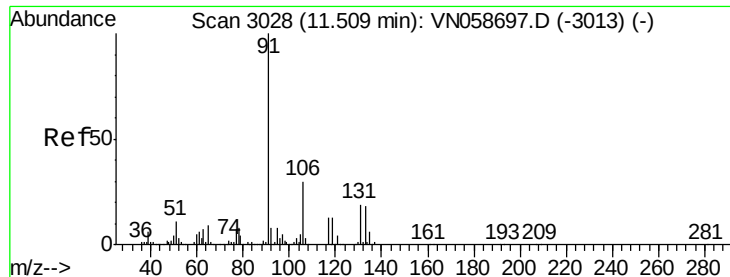
#65
Chlorobenzene
Concen: 0.551 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion:112 Resp: 6512
Ion Ratio Lower Upper
112 100
114 33.1 25.2 37.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 0.533 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

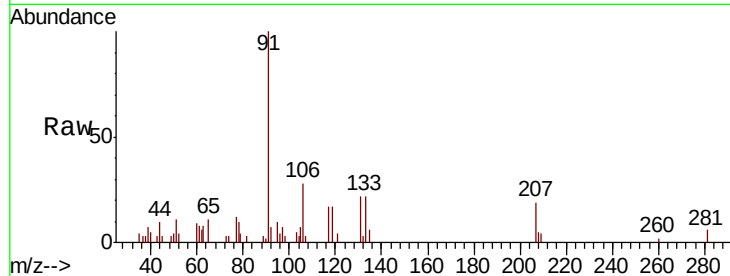
Tot Ion:131 Resp: 2328

Ion Ratio Lower Upper

131 100

133 109.8 47.6 142.9

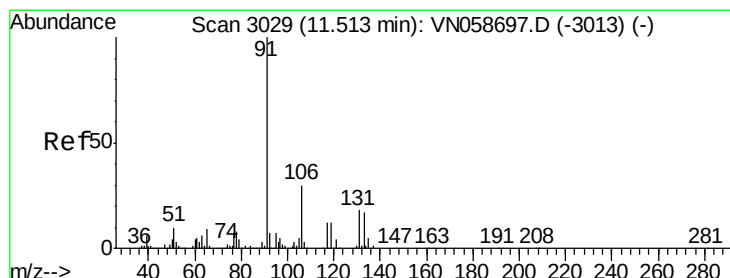
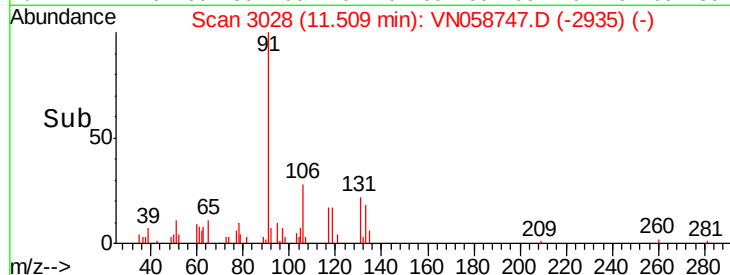
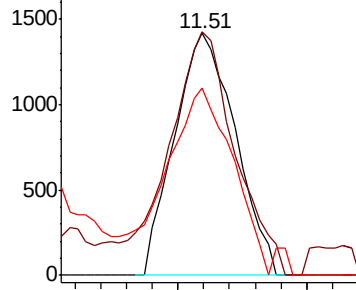
119 0.0 33.0 98.9#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 0.506 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058747.D

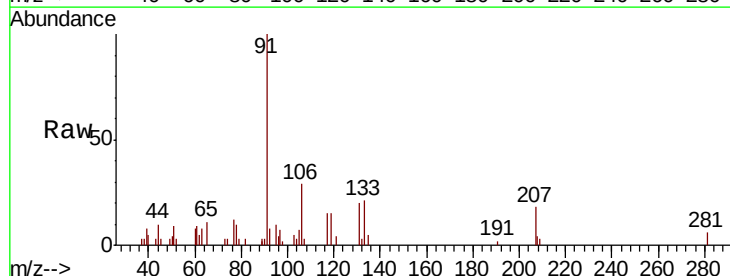
Acq: 14 Oct 2019 14:20

Tgt Ion: 91 Resp: 10648

Ion Ratio Lower Upper

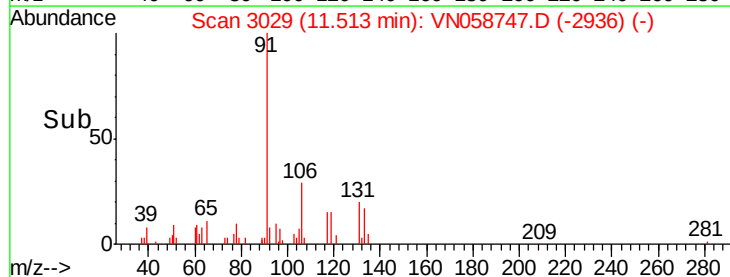
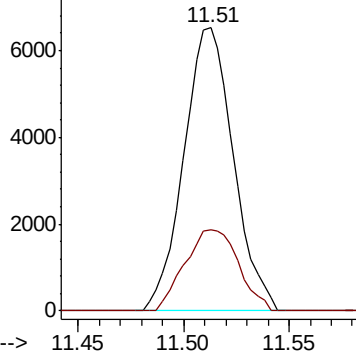
91 100

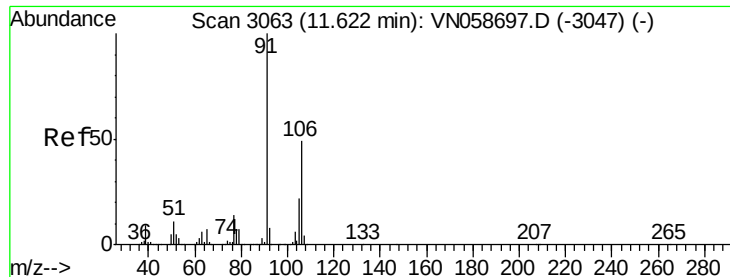
106 28.8 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

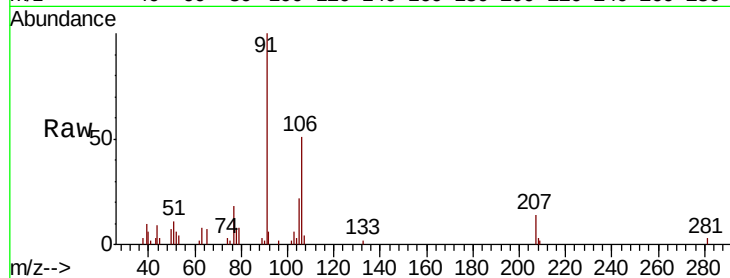




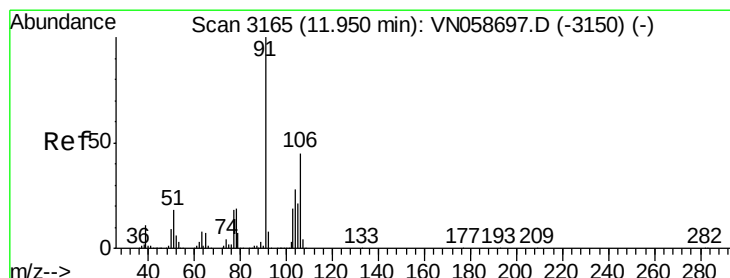
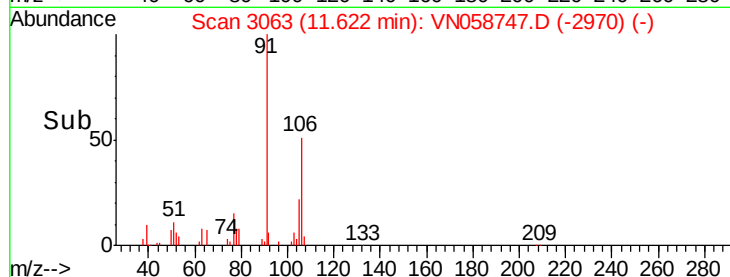
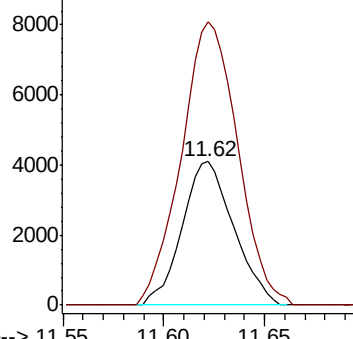
#68
m/p-Xylenes
Concen: 0.930 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:106 Resp: 7350
Ion Ratio Lower Upper
106 100
91 215.2 165.7 248.5

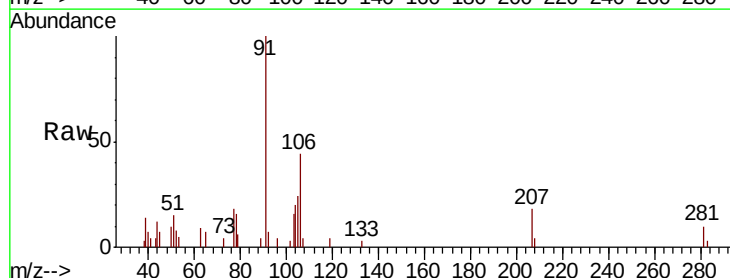


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

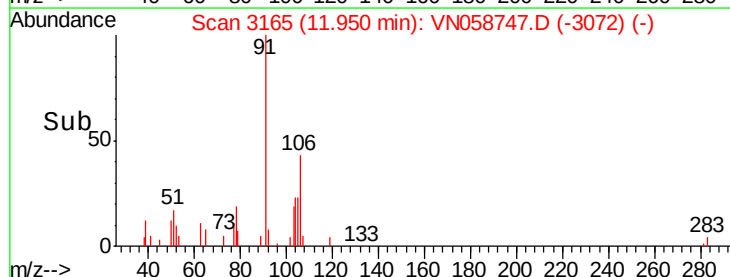
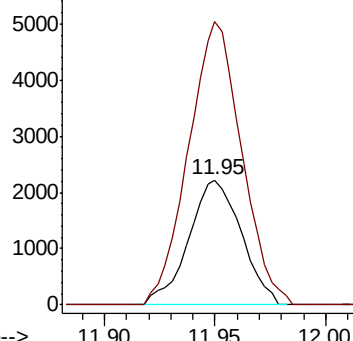


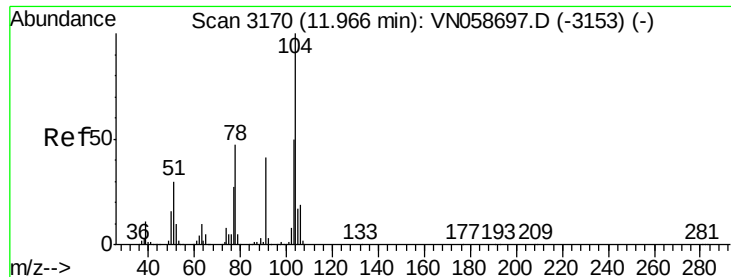
#69
o-Xylene
Concen: 0.479 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion:106 Resp: 3663
Ion Ratio Lower Upper
106 100
91 229.7 110.9 332.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#70

Stvrene

Concen: 0.443 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

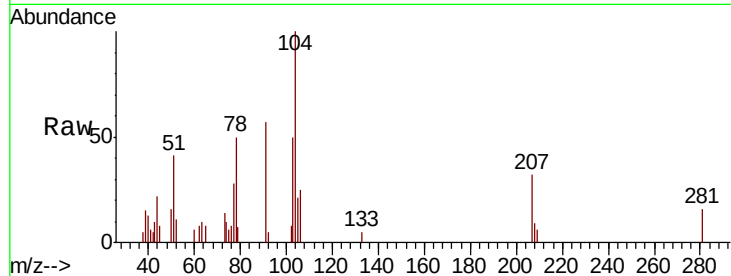
Tot Ion:104 Resp: 5554

Ion Ratio Lower Upper

104 100

78 58.0 42.2 63.2

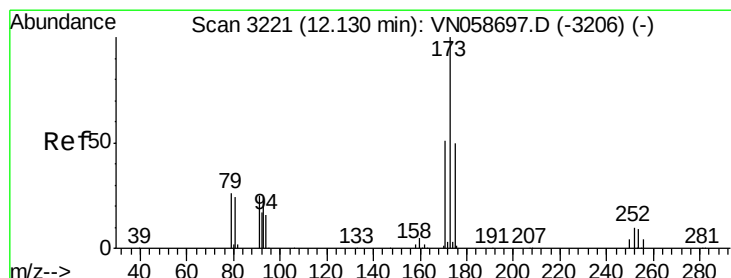
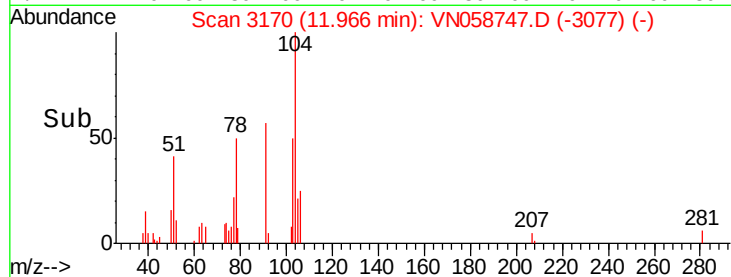
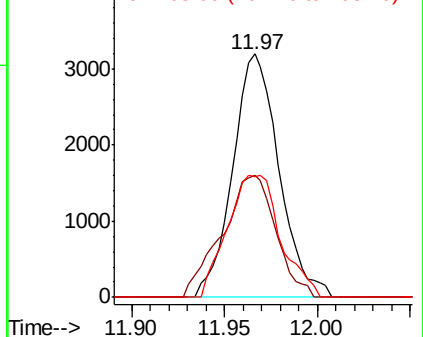
103 57.2 43.7 65.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.416 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

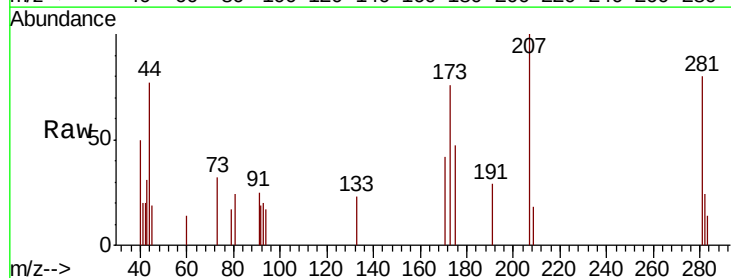
Tgt Ion:173 Resp: 1331

Ion Ratio Lower Upper

173 100

175 51.7 24.6 73.8

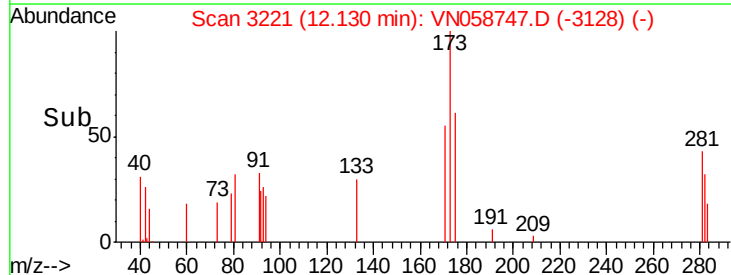
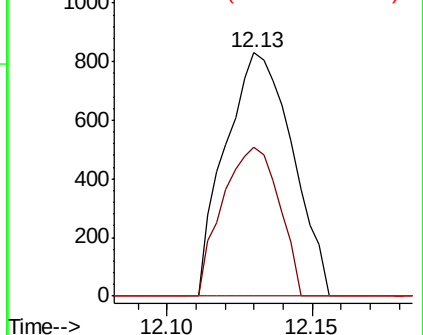
254 0.0 0.1 0.1#

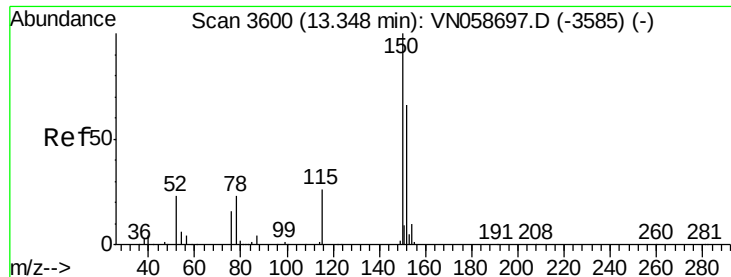


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

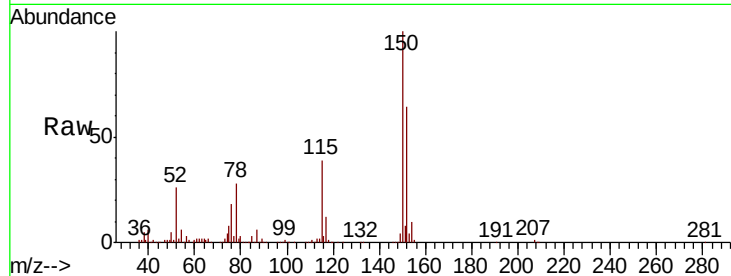




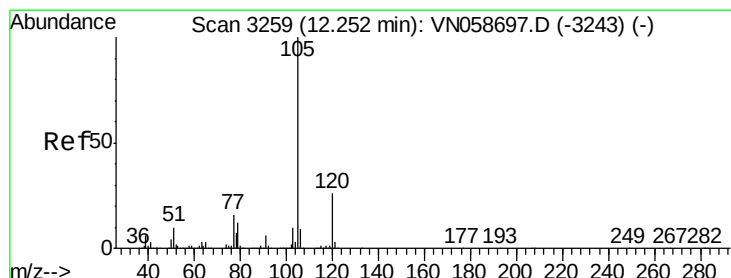
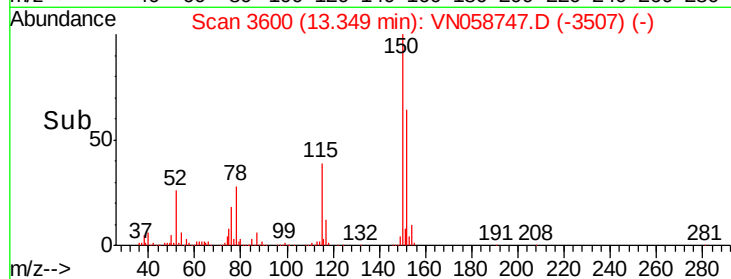
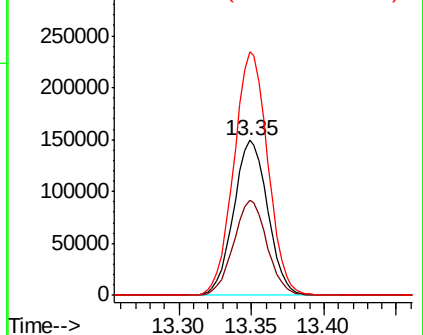
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion:152 Resp: 243960
 Ion Ratio Lower Upper
 152 100
 115 59.3 30.4 91.2
 150 156.1 0.0 345.4

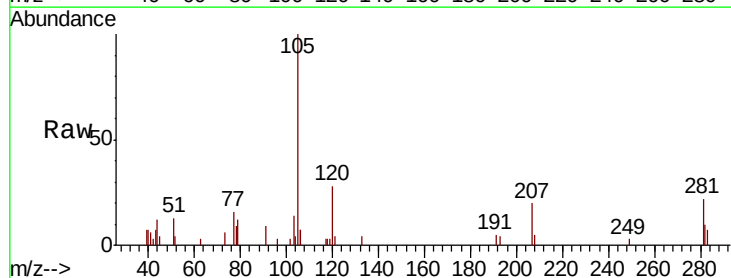


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

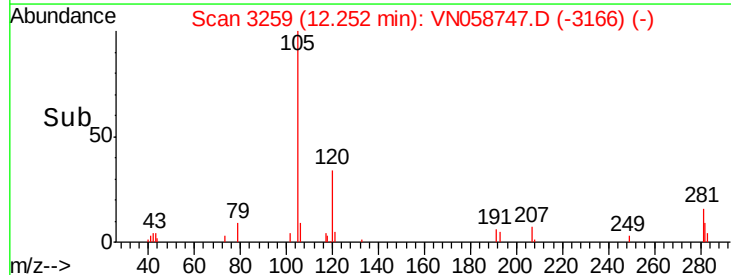
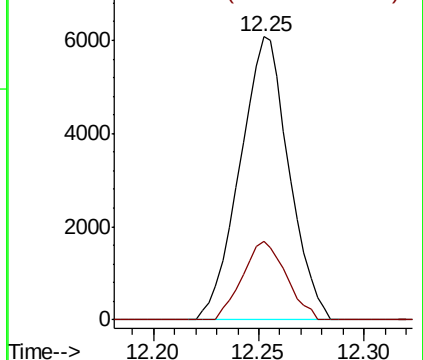


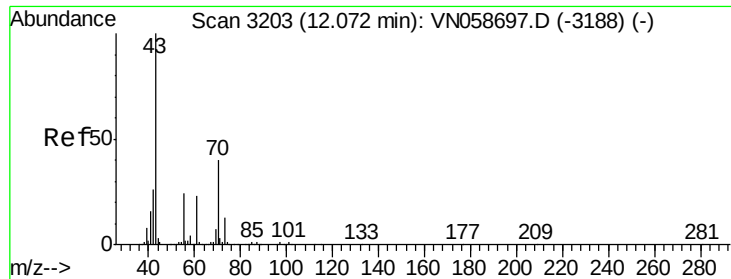
#73
 Isopropylbenzene
 Concen: 0.555 ug/l
 RT: 12.25 min Scan# 3259
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion:105 Resp: 9800
 Ion Ratio Lower Upper
 105 100
 120 24.7 13.1 39.1



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

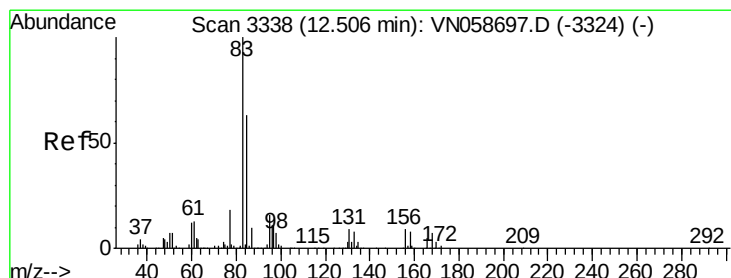
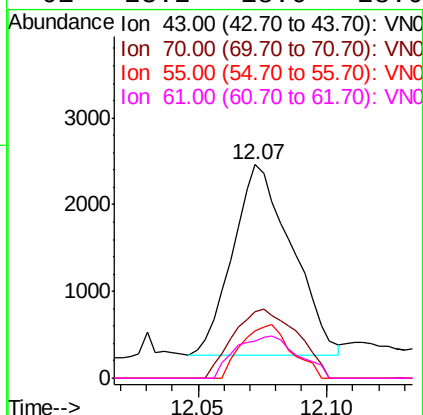
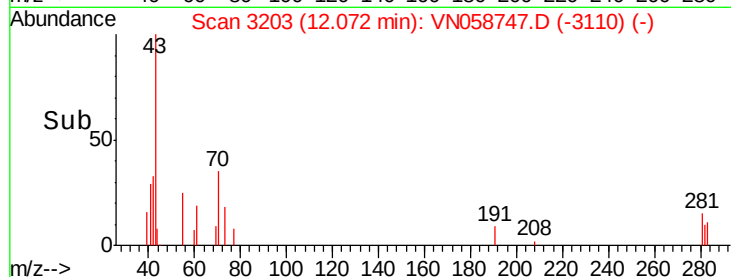
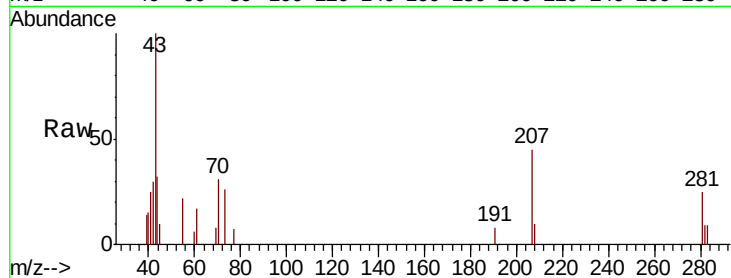




#74
N-amyl acetate
Concen: 0.443 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

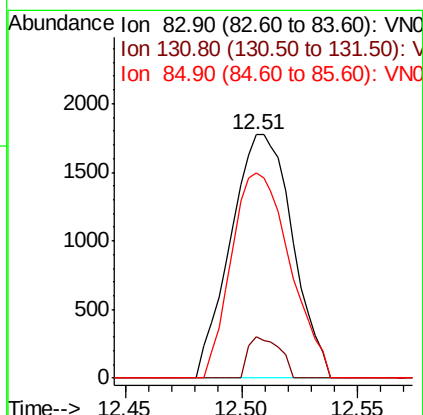
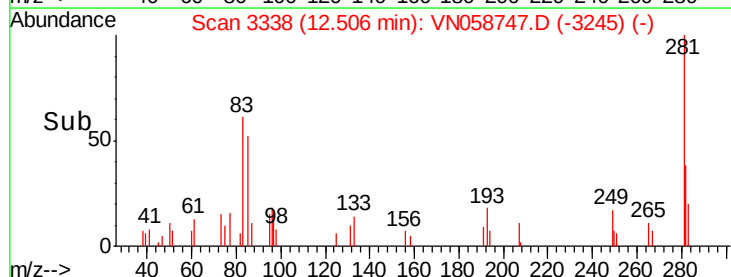
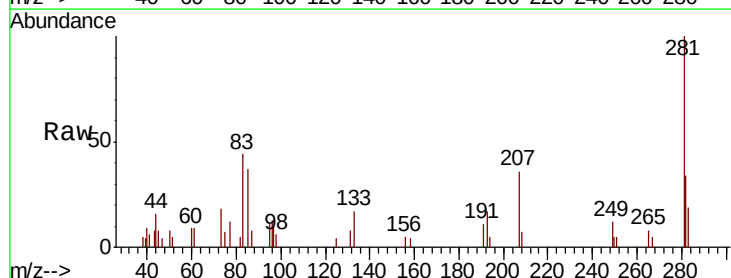
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

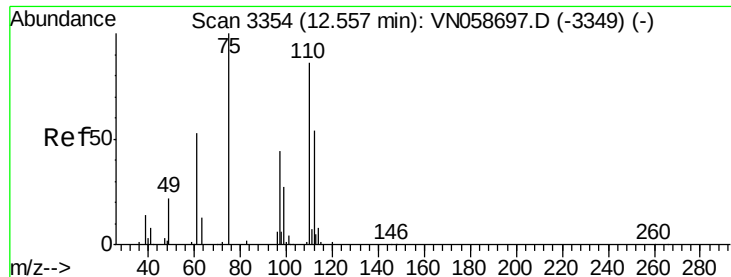
Tot Ion:	43.00	Resp:	3513
Ion	Ratio	Lower	Upper
43	100		
70	39.3	32.2	48.4
55	23.5	19.6	29.4
61	23.2	18.6	28.0



#75
1,1,2,2-Tetrachloroethane
Concen: 0.563 ug/l
RT: 12.51 min Scan# 3338
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion:	83.00	Resp:	3277
Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.8	14.4
85	80.1	31.9	95.5

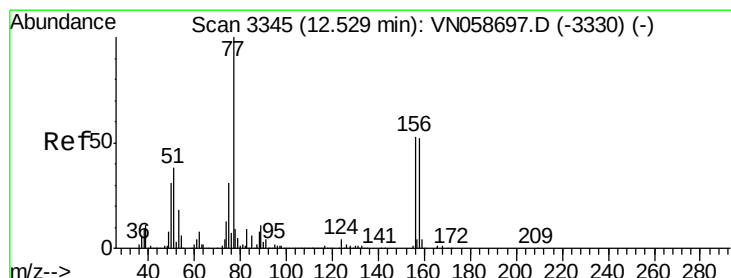
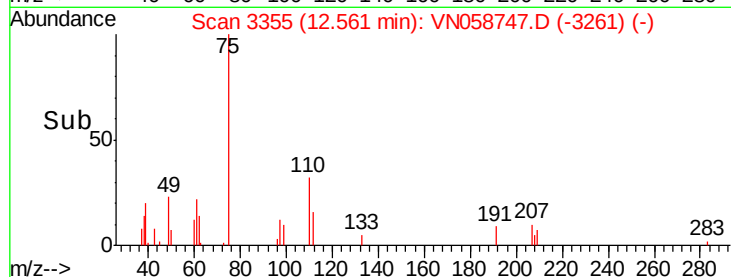
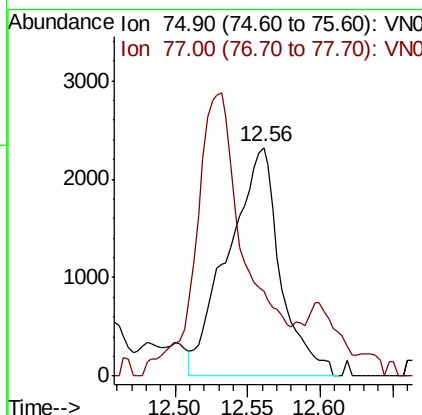
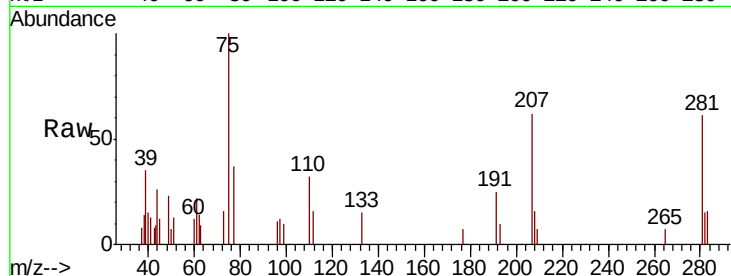




#76
 1,2,3-Trichloropropane
 Concen: 1.083 ug/l
 RT: 12.56 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

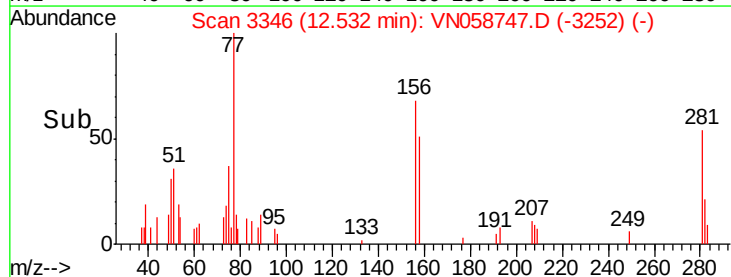
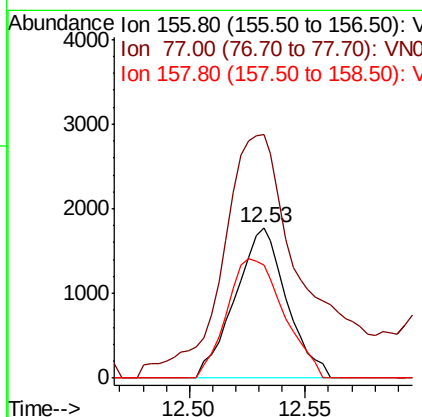
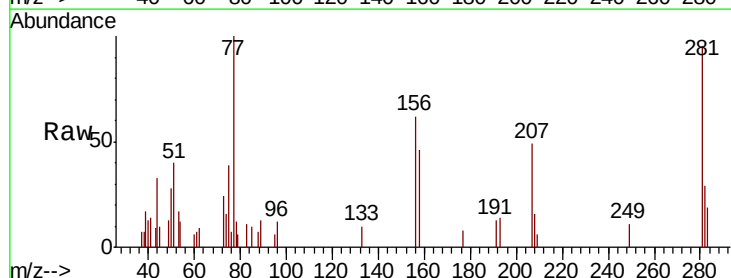
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

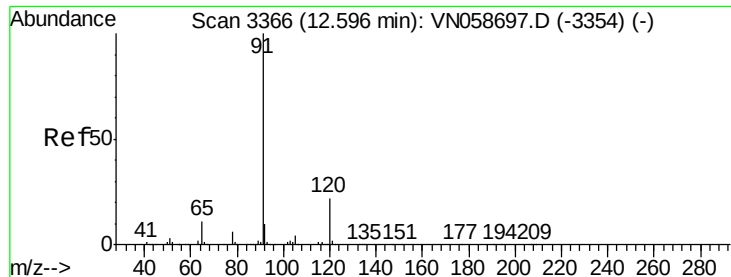
Tot Ion: 75 Resp: 5794
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#77
 Bromobenzene
 Concen: 0.637 ug/l
 RT: 12.53 min Scan# 3346
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 156 Resp: 2738
 Ion Ratio Lower Upper
 156 100
 77 251.7 115.8 347.3
 158 87.7 48.9 146.6





#78

n-propylbenzene

Concen: 0.610 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

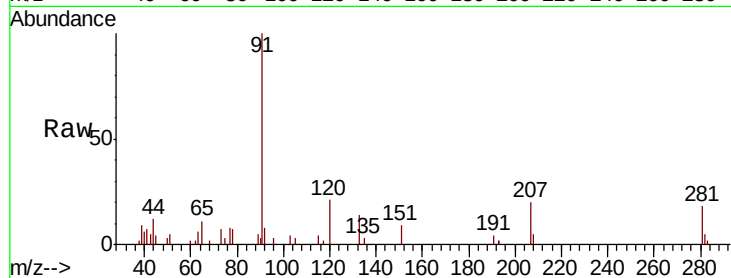
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 12553

Ion Ratio Lower Upper

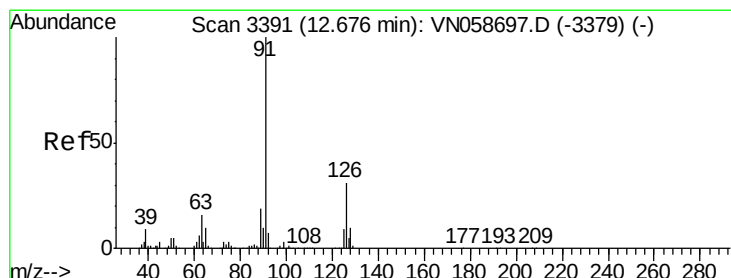
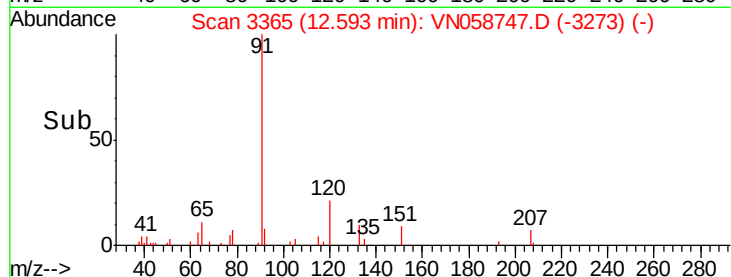
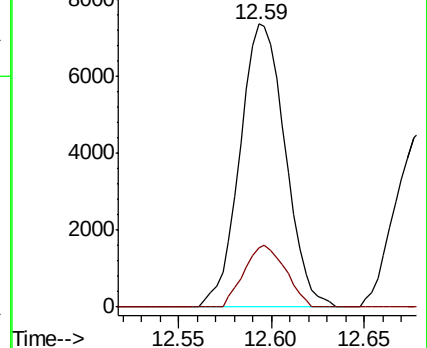
91 100

120 19.9 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3354) (-)

Ion 120.00 (119.70 to 120.70): VN058697.D (-3354) (-)



#79

2-Chlorotoluene

Concen: 0.576 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058747.D

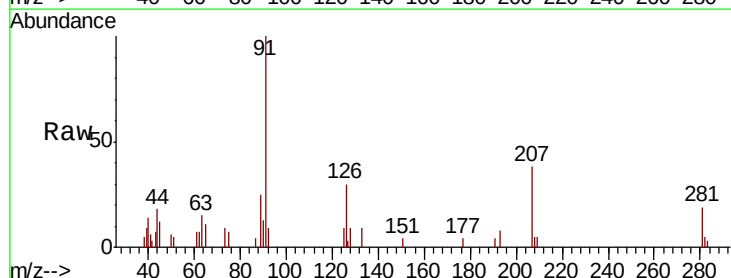
Acq: 14 Oct 2019 14:20

Tgt Ion: 91 Resp: 7356

Ion Ratio Lower Upper

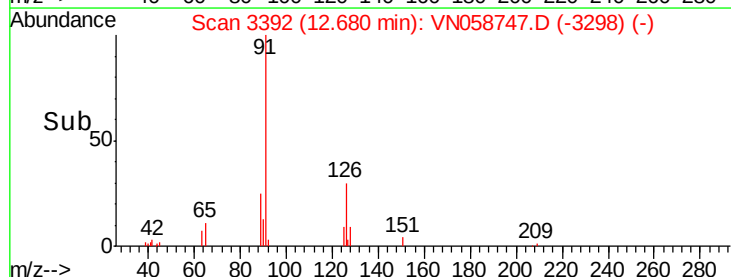
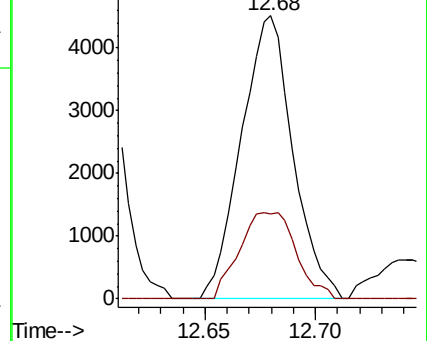
91 100

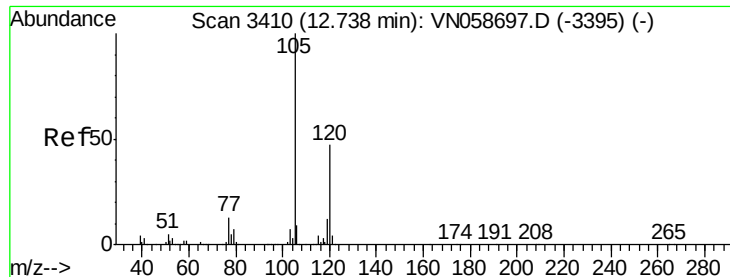
126 33.4 16.2 48.5



Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN058697.D (-3379) (-)





#80

1,3,5-Trimethylbenzene

Concen: 0.503 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

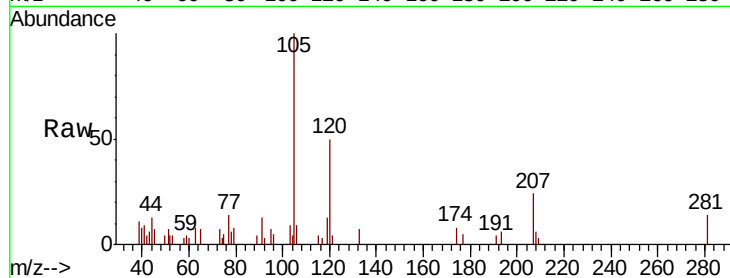
LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 7590

Ion Ratio Lower Upper

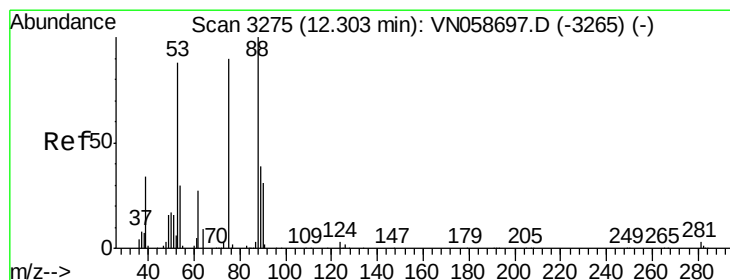
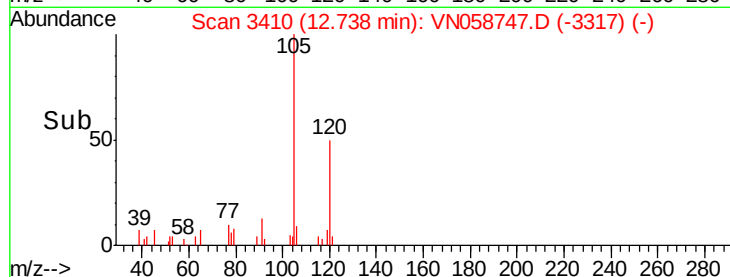
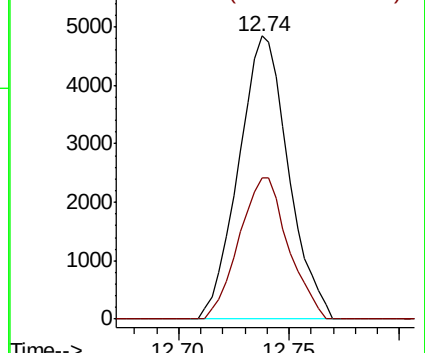
105 100

120 49.1 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 70.116 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

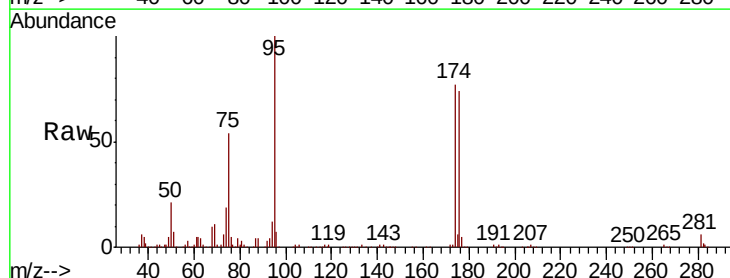
Tgt Ion: 75 Resp: 140089

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

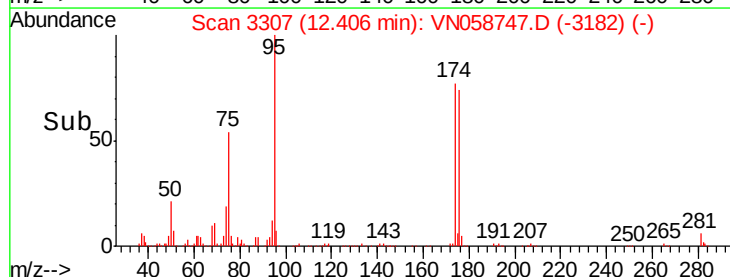
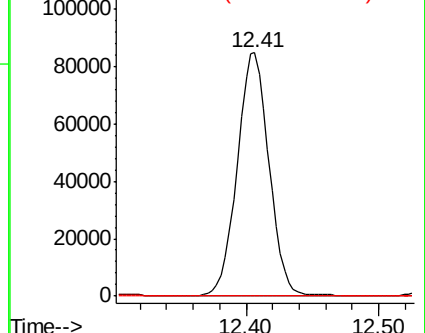
89 0.1 34.9 52.3#

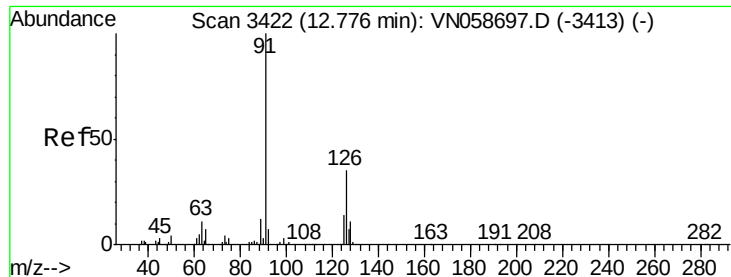


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.519 ug/l

RT: 12.78 min Scan# 3423

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

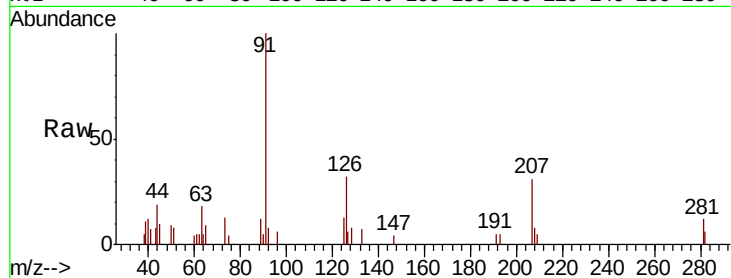
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 6800

Ion Ratio Lower Upper

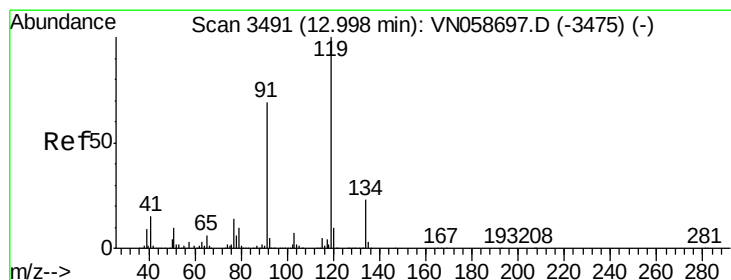
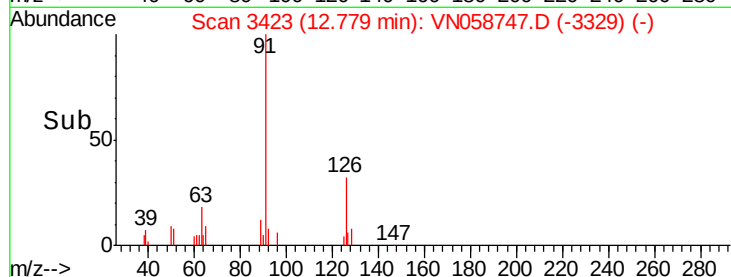
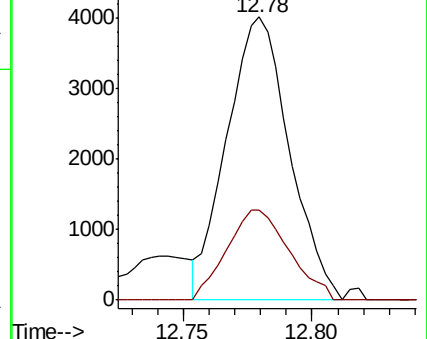
91 100

126 31.7 15.9 47.6



Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3413) (-)

Ion 125.90 (125.60 to 126.60): VN058697.D (-3413) (-)



#83

tert-Butylbenzene

Concen: 0.535 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

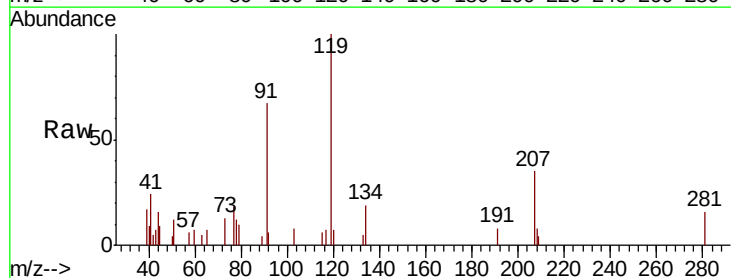
Tgt Ion: 119 Resp: 6913

Ion Ratio Lower Upper

119 100

91 69.2 33.8 101.3

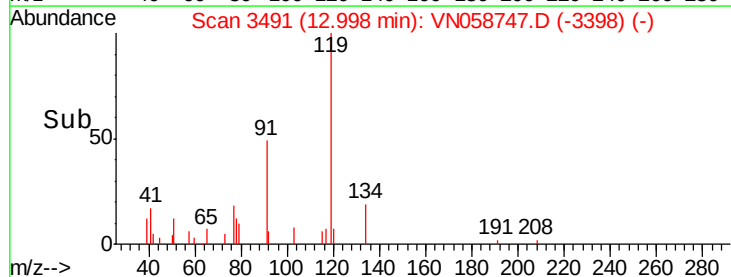
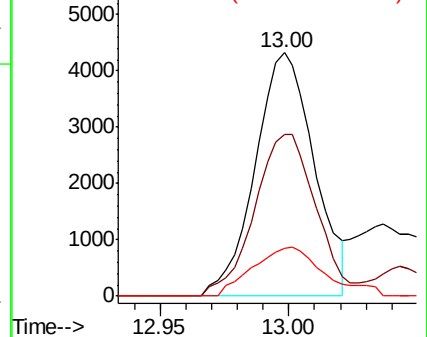
134 24.2 12.6 37.6

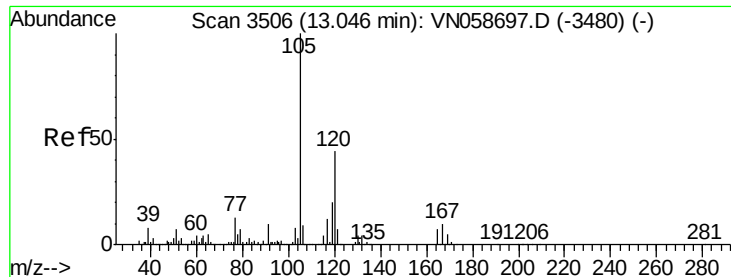


Abundance Ion 119.00 (118.70 to 119.70): VN058697.D (-3475) (-)

Ion 91.00 (90.70 to 91.70): VN058697.D (-3475) (-)

Ion 134.00 (133.70 to 134.70): VN058697.D (-3475) (-)





#84

1,2,4-Trimethylbenzene

Concen: 0.512 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

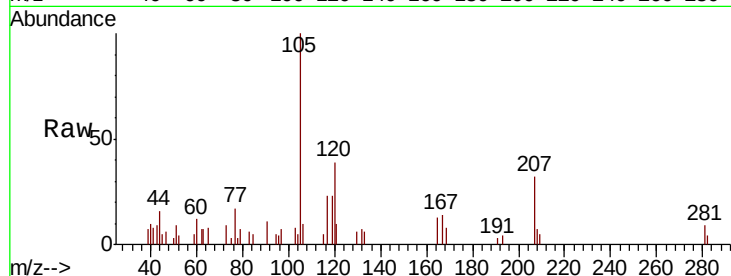
LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 7667

Ion Ratio Lower Upper

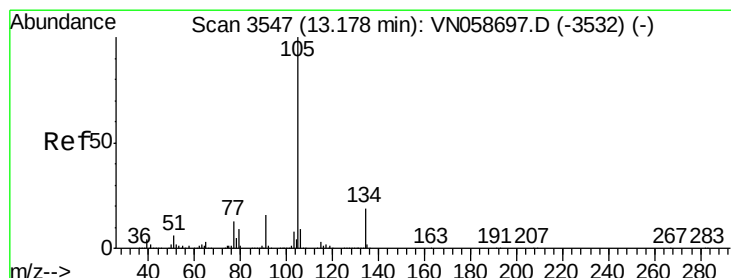
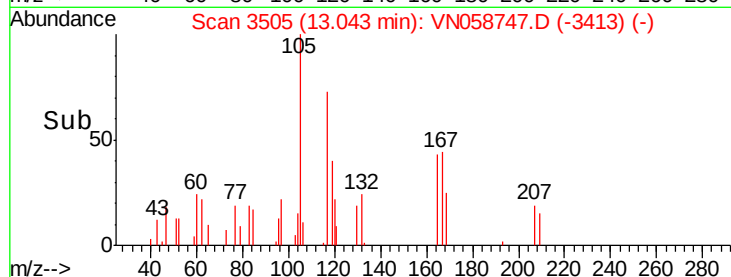
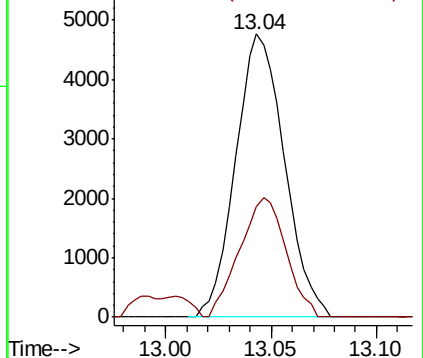
105 100

120 40.1 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 0.515 ug/l

RT: 13.18 min Scan# 3548

Delta R.T. 0.00 min

Lab File: VN058747.D

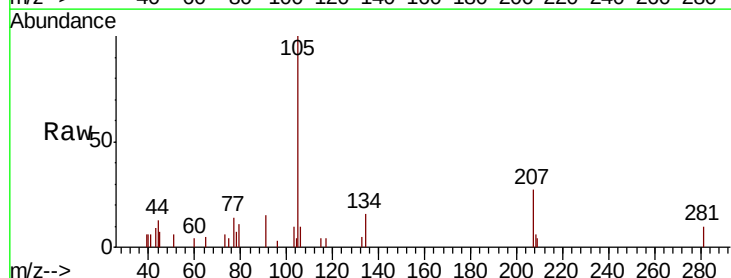
Acq: 14 Oct 2019 14:20

Tgt Ion:105 Resp: 8767

Ion Ratio Lower Upper

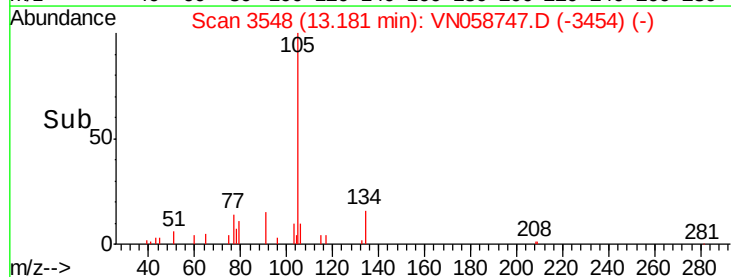
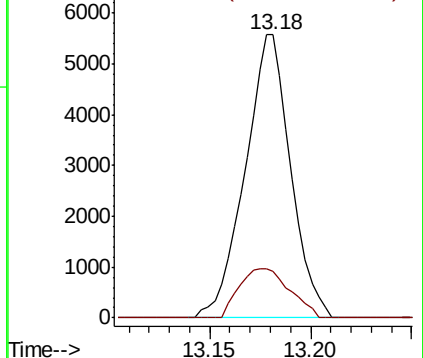
105 100

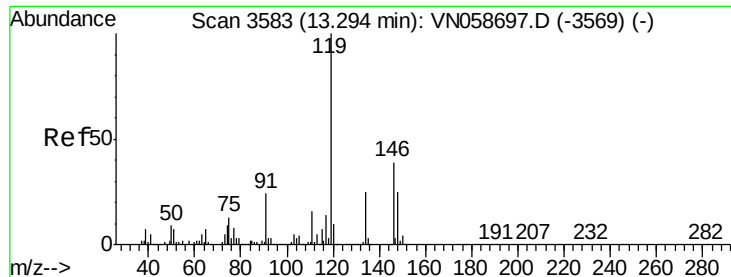
134 19.3 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

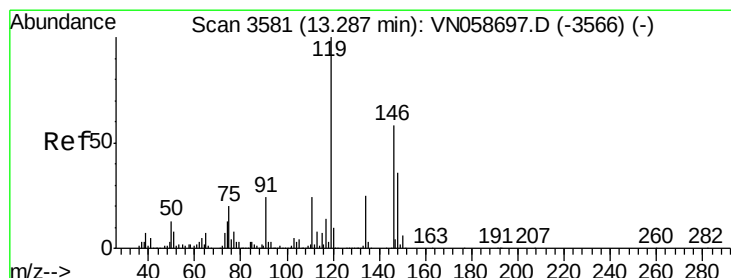
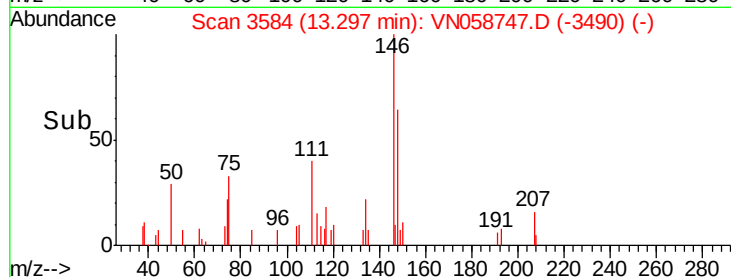
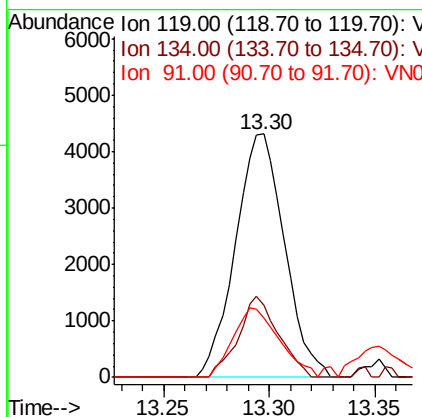
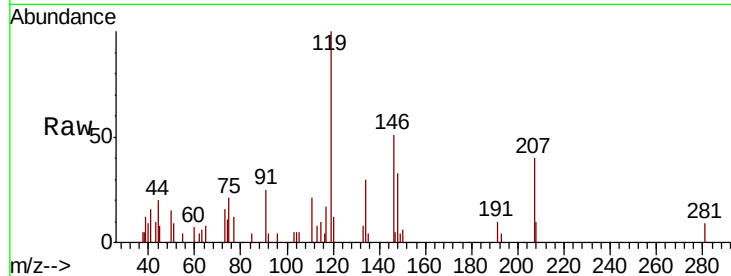




#86
 p-Isopropyltoluene
 Concen: 0.450 ug/l
 RT: 13.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

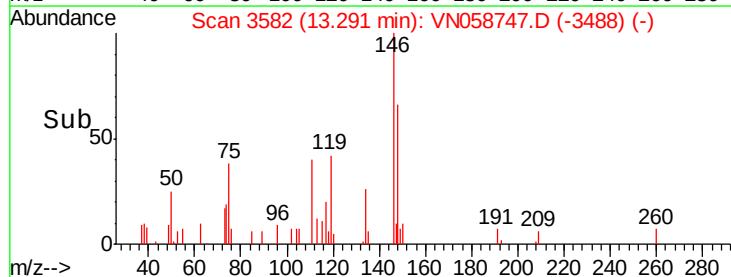
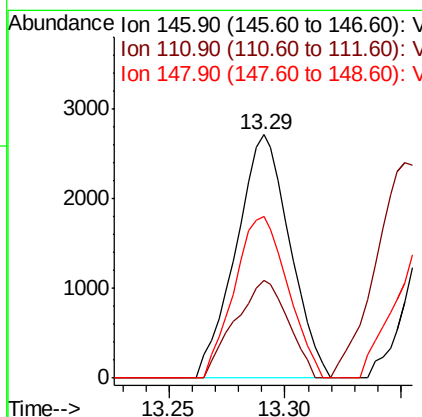
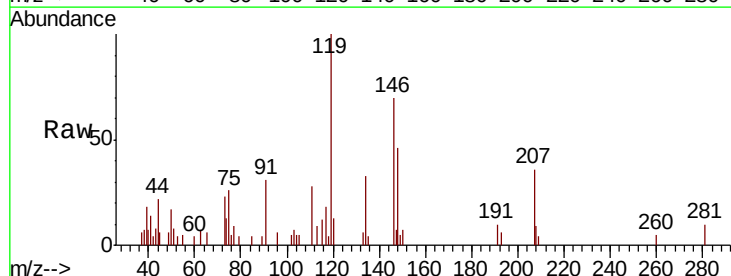
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

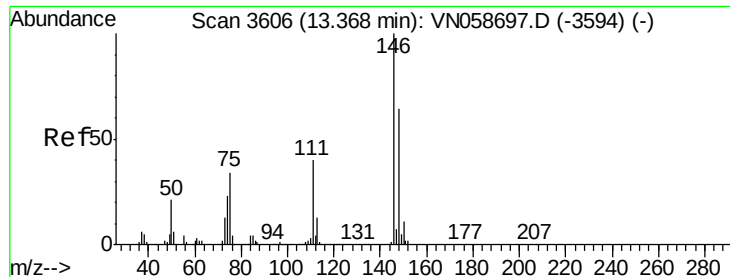
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.1	12.7	38.1
91	26.9	11.9	35.5



#87
 1,3-Dichlorobenzene
 Concen: 0.551 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.5	61.6
148	66.0	31.3	93.9





#88

1,4-Dichlorobenzene

Concen: 0.542 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.08 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

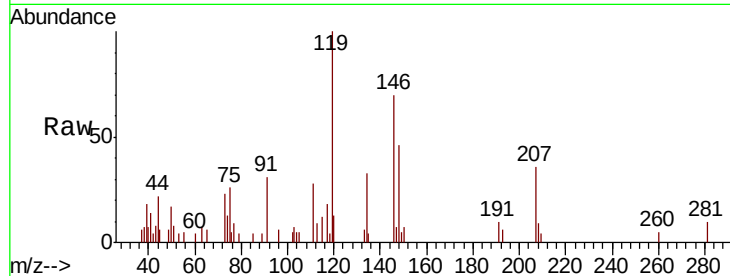
Tot Ion:146 Resp: 4367

Ion Ratio Lower Upper

146 100

111 39.7 20.1 60.2

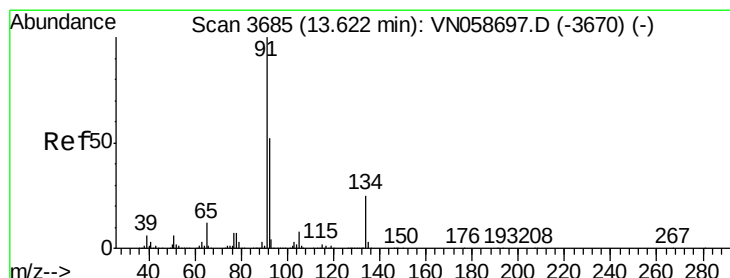
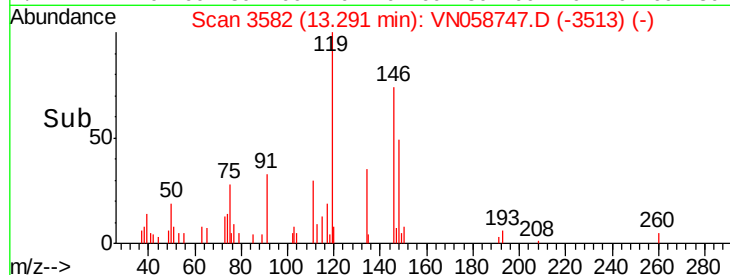
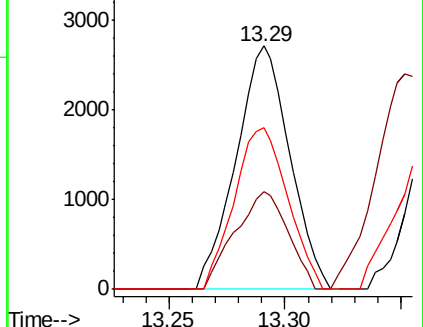
148 66.0 31.9 95.7



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: 0.461 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

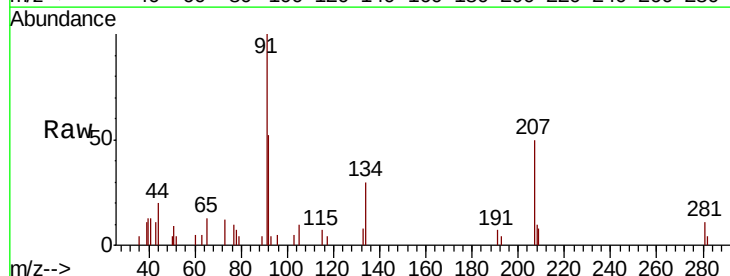
Tgt Ion: 91 Resp: 6602

Ion Ratio Lower Upper

91 100

92 51.3 26.0 78.0

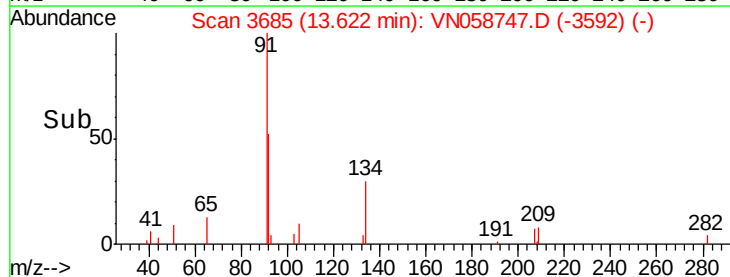
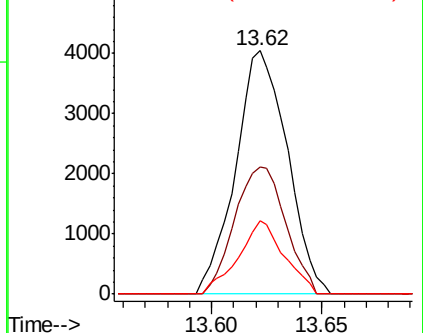
134 26.6 12.2 36.6

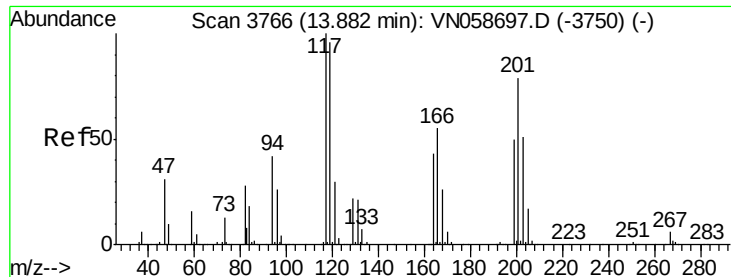


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

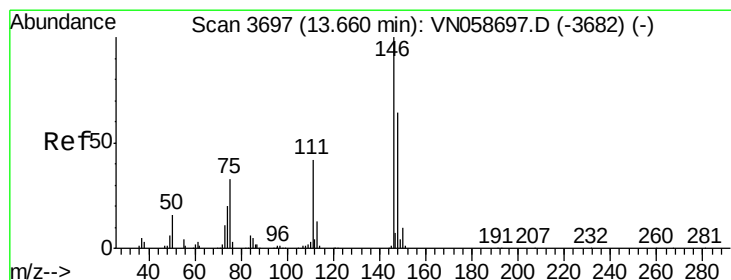
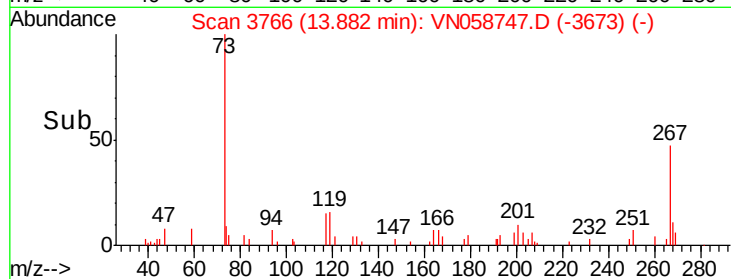
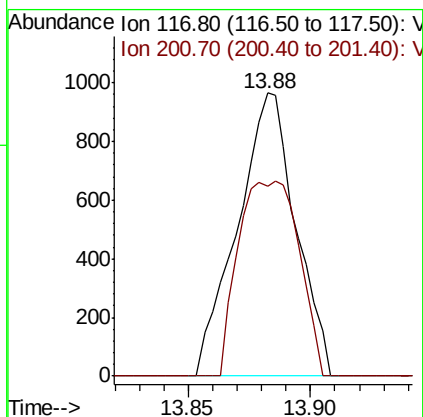
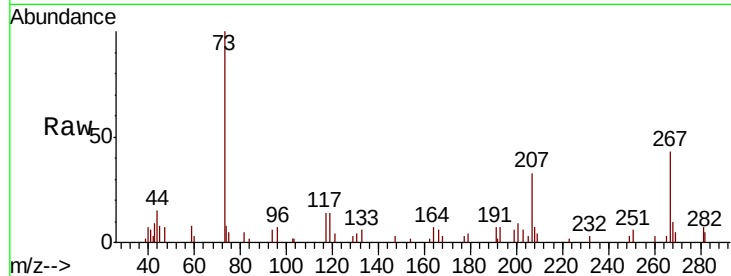




#90
Hexachloroethane
Concen: 0.576 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

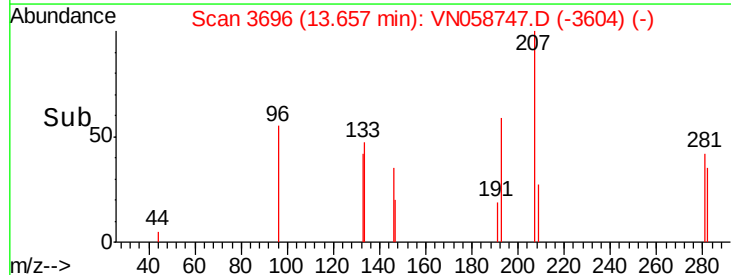
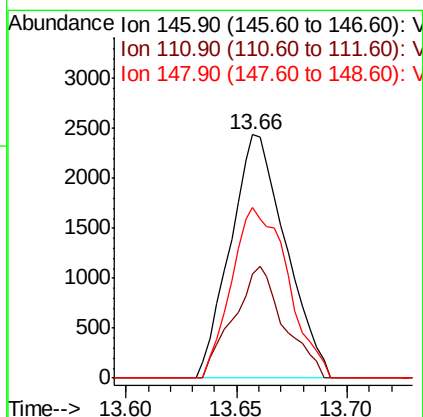
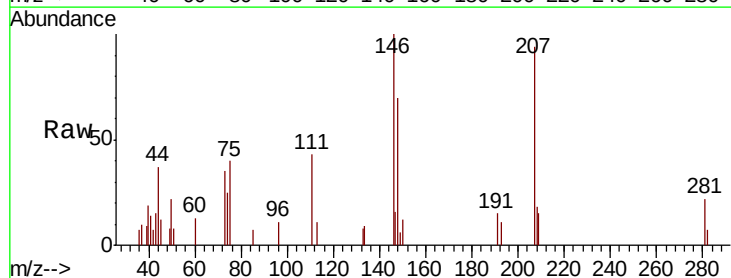
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

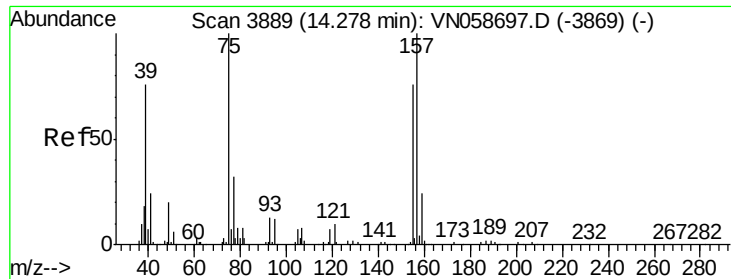
Tot Ion:117 Resp: 1596
Ion Ratio Lower Upper
117 100
201 72.1 39.6 118.7



#91
1,2-Dichlorobenzene
Concen: 0.551 ug/l
RT: 13.66 min Scan# 3696
Delta R.T. -0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion:146 Resp: 4254
Ion Ratio Lower Upper
146 100
111 41.8 21.1 63.4
148 71.5 31.8 95.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.805 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. -0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

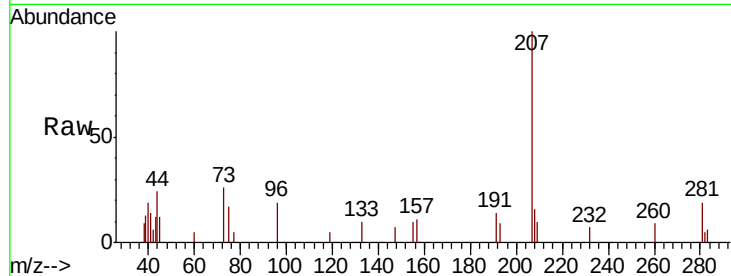
Tot Ion: 75 Resp: 1095

Ion Ratio Lower Upper

75 100

155 41.1 37.9 113.6

157 60.9 49.4 148.2



Abundance Ion 74.90 (74.60 to 75.60): VN058697.D (-3869) (-)

Ion 154.80 (154.50 to 155.50): VN058697.D (-3869) (-)

Ion 156.80 (156.50 to 157.50): VN058697.D (-3869) (-)

14.27

600

400

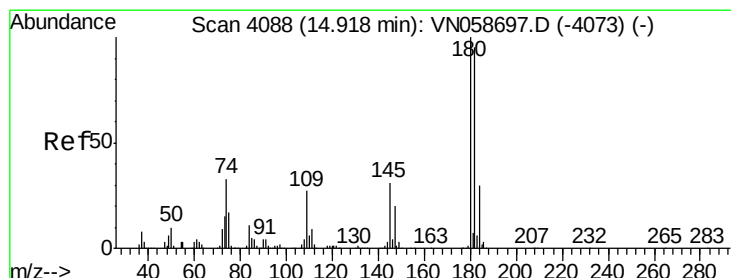
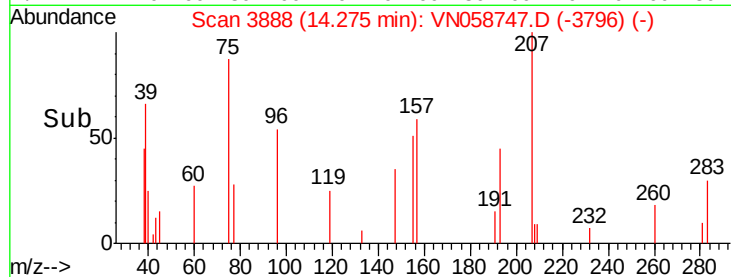
200

0

14.25

14.30

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.450 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. -0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

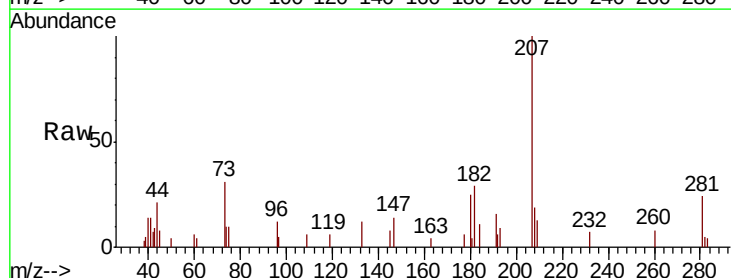
Tgt Ion: 180 Resp: 2119

Ion Ratio Lower Upper

180 100

182 108.9 47.4 142.2

145 31.7 15.4 46.2



Abundance Ion 179.80 (179.50 to 180.50): VN058697.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN058697.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN058697.D (-4073) (-)

14.91

1500

1000

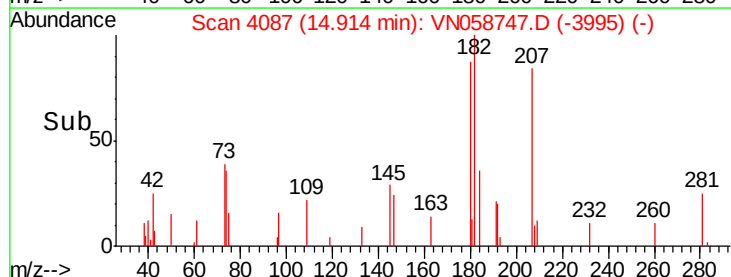
500

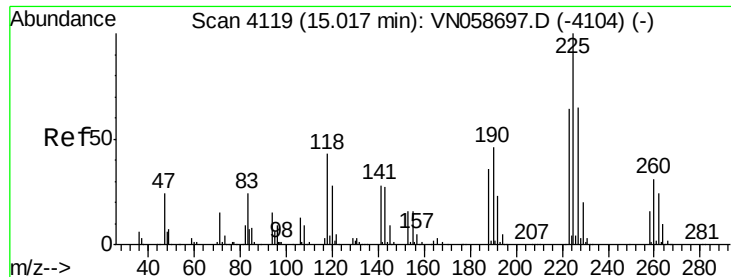
0

14.90

14.95

Time-->





#94

Hexachlorobutadiene

Concen: 0.505 ug/l

RT: 15.02 min Scan# 4120

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

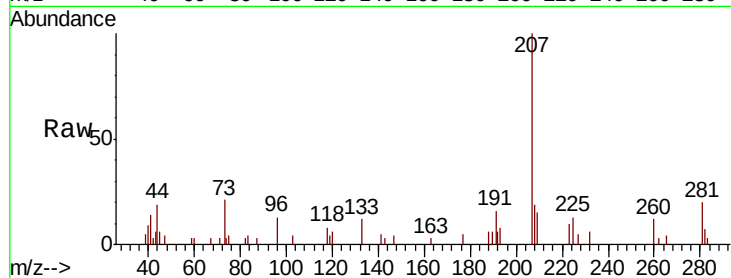
Tot Ion:225 Resp: 1252

Ion Ratio Lower Upper

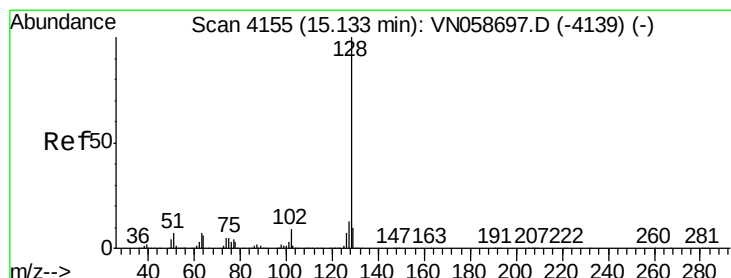
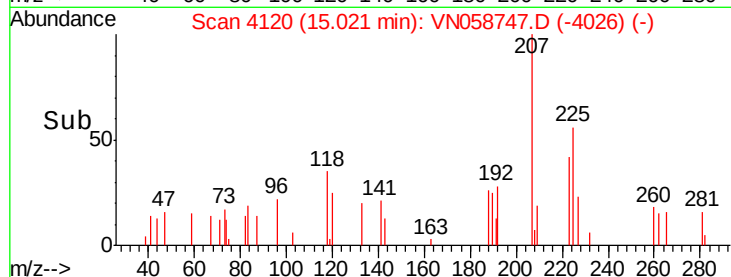
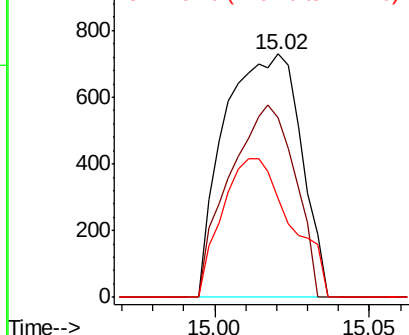
225 100

223 67.8 32.3 96.8

227 51.2 32.4 97.0



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: 0.418 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

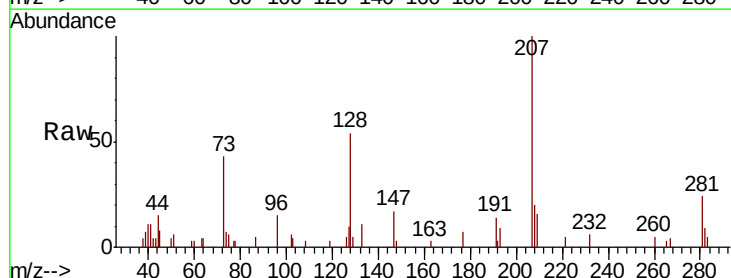
Tgt Ion:128 Resp: 5666

Ion Ratio Lower Upper

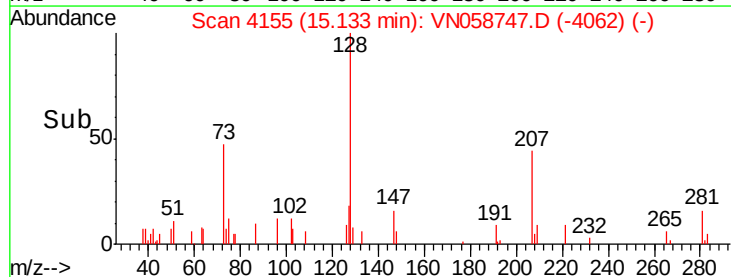
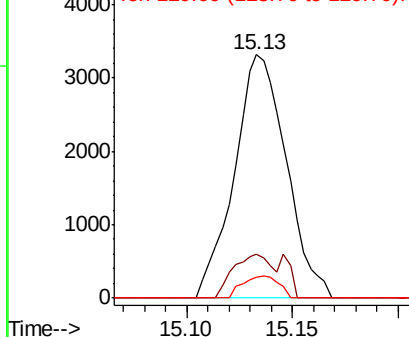
128 100

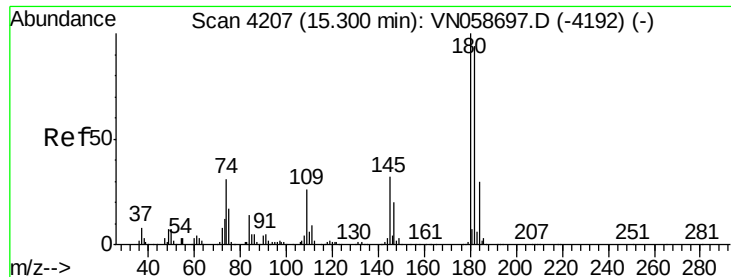
127 17.1 10.2 15.4#

129 6.3 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.451 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.7	47.3	142.0
145	38.7	16.2	48.6

