

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122920\
 Data File : VV019867.D
 Acq On : 29 Dec 2020 16:53
 Operator : SY/MD
 Sample : L4485-09
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Manual Integrations
 APPROVED

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 12/30/2020 6:35:36 PM

Quant Time: Dec 30 05:08:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR122920WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 30 04:48:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.62	114	262498	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.86	117	247605	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.26	152	114950	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.30	65	92927	4.92	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.40%
7) Chloroethane-d5	1.57	69	80484	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.10	63	147255	3.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.20%
20) 2-Butanone-d5	3.94	46	196945	49.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.84%
24) Chloroform-d	4.35	84	167826	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	5.04	65	88879	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.05	84	339289	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
36) 1,2-Dichloropropane-d6	6.07	67	106117	5.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.00%
41) Toluene-d8	7.32	98	287937	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
43) trans-1,3-Dichloropropene-	7.63	79	32983	4.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.80%
46) 2-Hexanone-d5	8.10	63	129595	45.30	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.60%
56) 1,1,2,2-Tetrachloroethane-	10.22	84	59878	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
66) 1,2-Dichlorobenzene-d4	11.63	152	93324	5.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.13	85	6204	0.247	ug/L	97
3) Chloromethane	1.24	50	7208	0.260	ug/L	92
5) Vinyl chloride	1.31	62	6760	0.248	ug/L #	80
6) Bromomethane	1.52	94	4212	0.264	ug/L	91
8) Chloroethane	1.58	64	3782	0.227	ug/L	86
9) Trichlorofluoromethane	1.75	101	7782	0.235	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.11	101	5632	0.316	ug/L	86
12) 1,1-Dichloroethene	2.11	96	5682	0.312	ug/L #	1
13) Acetone	2.24	43	7352m	2.460	ug/L	
14) Carbon disulfide	2.29	76	15242	0.242	ug/L #	90
15) Methyl Acetate	2.45	43	2361m	0.316	ug/L	
16) Methylene chloride	2.51	84	7453	0.337	ug/L	95
17) Methyl tert-butyl Ether	2.78	73	10962	0.241	ug/L	96
18) trans-1,2-Dichloroethene	2.76	96	4892	0.238	ug/L	93
19) 1,1-Dichloroethane	3.19	63	9064	0.228	ug/L	96
21) 2-Butanone	4.02	43	12735m	2.533	ug/L	
22) cis-1,2-Dichloroethene	3.92	96	4895	0.229	ug/L	83

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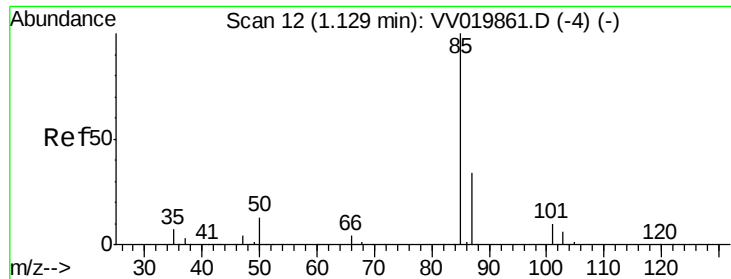
MMDadoda
 12/30/2020 6:35:36 PM

Quant Time: Dec 30 05:08:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR122920WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.26	128	2034	0.239	ug/L #	88
25) Chloroform	4.38	83	17599	0.445	ug/L	93
27) 1,2-Dichloroethane	5.15	62	5792	0.240	ug/L	97
29) 1,1,1-Trichloroethane	4.61	97	7666	0.227	ug/L #	84
30) Cyclohexane	4.68	56	7323	0.216	ug/L	99
31) Carbon tetrachloride	4.83	117	5797	0.210	ug/L	99
33) Benzene	5.11	78	18300	0.221	ug/L	100
34) Trichloroethene	5.93	95	5101	0.230	ug/L	94
35) Methylcyclohexane	6.14	83	7632	0.230	ug/L	94
37) 1,2-Dichloropropane	6.18	63	4756	0.229	ug/L #	94
38) Bromodichloromethane	6.52	83	5894	0.230	ug/L	88
39) cis-1,3-Dichloropropene	7.05	75	5884	0.206	ug/L	88
40) 4-Methyl-2-pentanone	7.24	43	24540	2.090	ug/L #	87
42) Toluene	7.40	91	19314	0.229	ug/L	98
44) trans-1,3-Dichloropropene	7.67	75	6780	0.290	ug/L	89
45) 1,1,2-Trichloroethane	7.85	97	2982	0.222	ug/L	83
47) Tetrachloroethene	7.98	164	3618	0.240	ug/L	88
48) 2-Hexanone	8.15	43	31910	3.922	ug/L	95
49) Dibromochloromethane	8.25	129	3177	0.218	ug/L	90
50) 1,2-Dibromoethane	8.36	107	2883	0.236	ug/L #	94
51) Chlorobenzene	8.89	112	12504	0.235	ug/L	92
52) Ethylbenzene	9.02	91	20182	0.216	ug/L	97
53) m,p-xylene	9.15	106	7293	0.214	ug/L	98
54) o-xylene	9.55	106	6886	0.211	ug/L	94
55) Styrene	9.57	104	10488	0.190	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.25	83	3525	0.248	ug/L	89
59) Bromoform	9.74	173	1242	0.199	ug/L #	82
60) Isopropylbenzene	9.94	105	18535	0.221	ug/L	98
61) 1,2,3-Trichloropropane	10.28	75	2481	0.223	ug/L #	88
62) 1,3,5-Trimethylbenzene	10.55	105	14726	0.213	ug/L	97
63) 1,2,4-Trimethylbenzene	10.92	105	14943	0.212	ug/L	98
64) 1,3-Dichlorobenzene	11.19	146	8241	0.224	ug/L	94
65) 1,4-Dichlorobenzene	11.28	146	9234	0.251	ug/L	98
67) 1,2-Dichlorobenzene	11.66	146	8499	0.252	ug/L #	91
68) 1,2-Dibromo-3-chloropropan	12.44	75	410	0.179	ug/L #	77
69) 1,3,5-Trichlorobenzene	12.65	180	5989	0.220	ug/L	89
70) 1,2,4-trichlorobenzene	13.27	180	4727	0.213	ug/L	99
71) Naphthalene	13.51	128	5681	0.170	ug/L	99
72) 1,2,3-Trichlorobenzene	13.76	180	3855	0.205	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 0.247 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-02

Tot Ion: 85 Resp: 6204

Ion Ratio Lower Upper

85 100

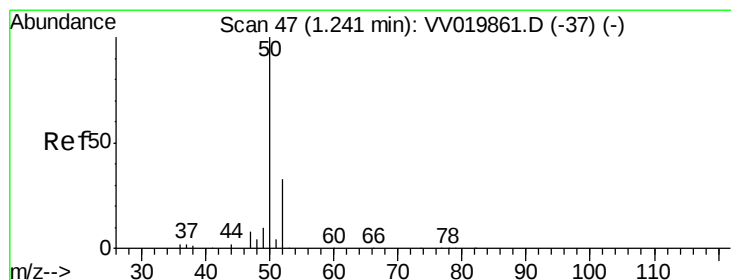
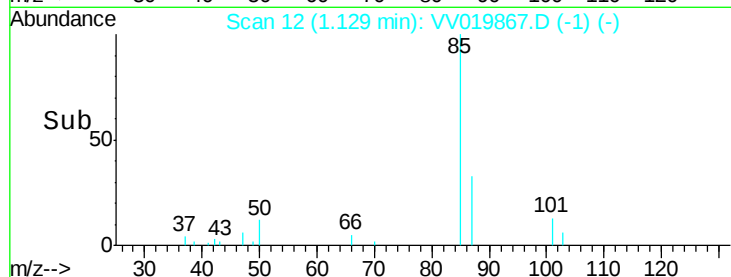
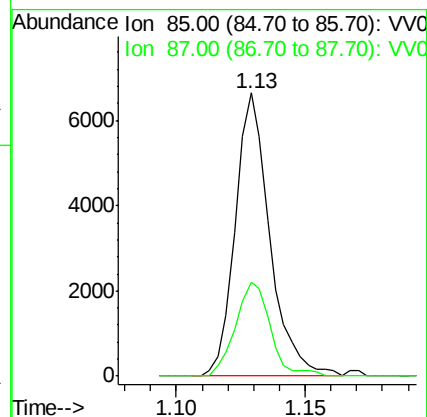
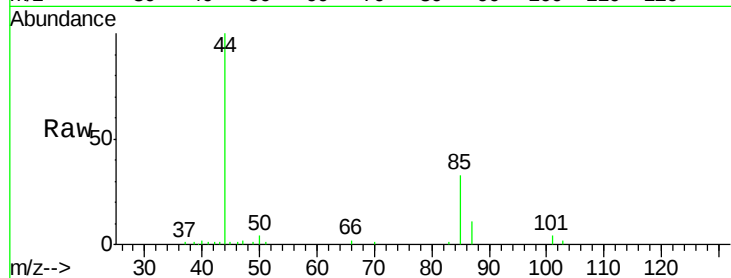
87 33.4 25.6 38.4

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#3

Chloromethane

Concen: 0.260 ug/L

RT: 1.24 min Scan# 47

Delta R.T. -0.00 min

Lab File: VV019867.D

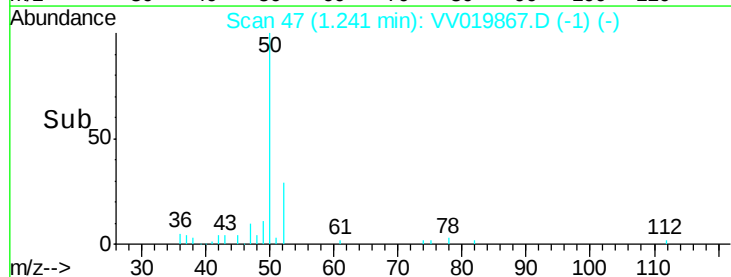
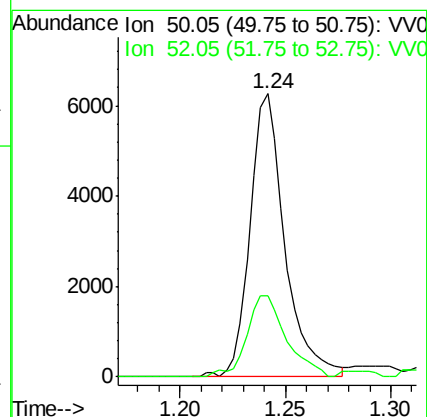
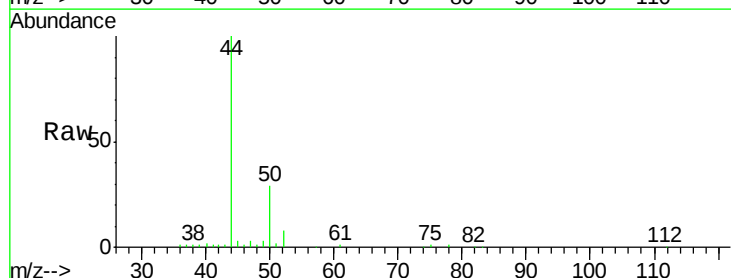
Acq: 29 Dec 2020 16:53

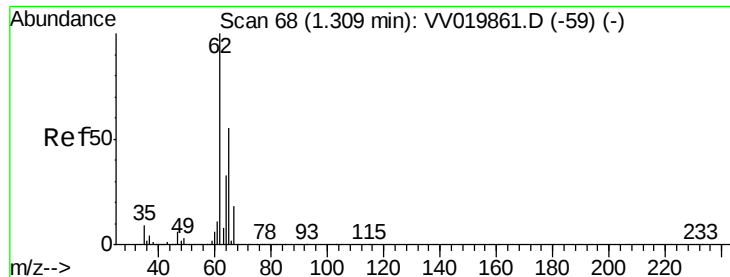
Tgt Ion: 50 Resp: 7208

Ion Ratio Lower Upper

50 100

52 28.6 23.1 42.9





#5

Vinyl chloride

Concen: 0.248 ug/L

RT: 1.31 min Scan# 68

Delta R.T. -0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-02

Tot Ion: 62 Resp: 6760

Ion Ratio Lower Upper

62 100

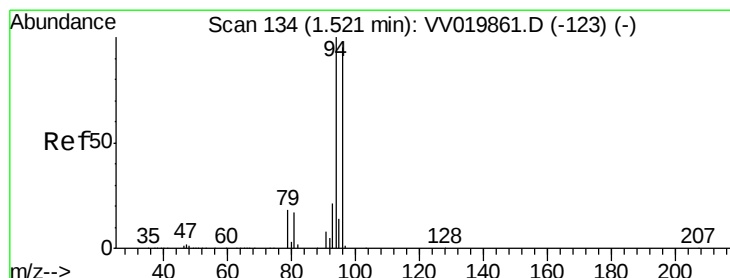
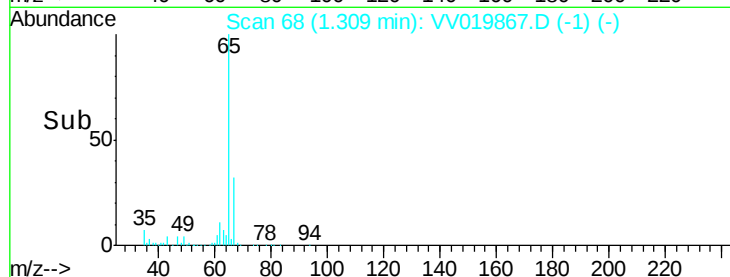
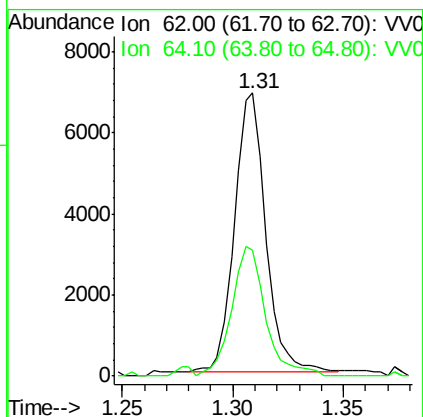
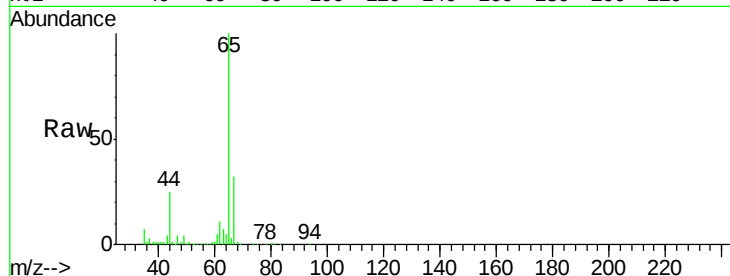
64 44.3 23.2 43.2#

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#6

Bromomethane

Concen: 0.264 ug/L

RT: 1.52 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV019867.D

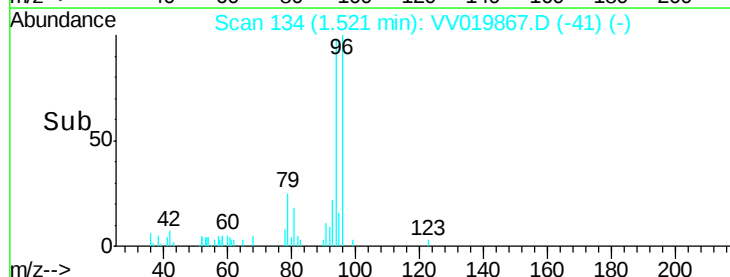
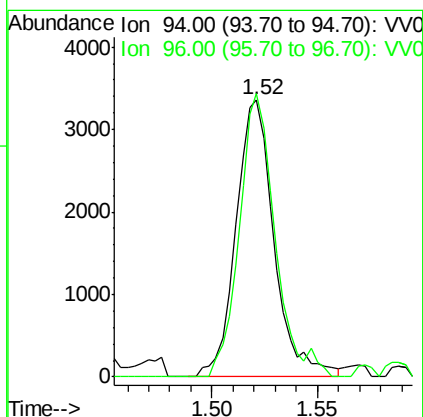
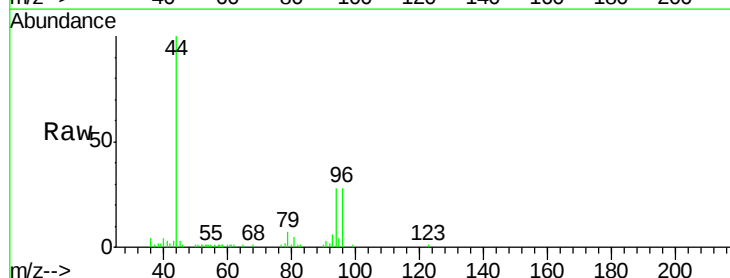
Acq: 29 Dec 2020 16:53

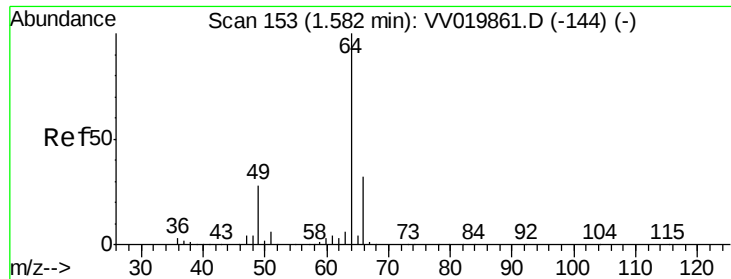
Tgt Ion: 94 Resp: 4212

Ion Ratio Lower Upper

94 100

96 102.1 65.6 121.8





#8

Chloroethane

Concen: 0.227 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Tot Ion: 64 Resp: 3782

Ion Ratio Lower Upper

64 100

66 39.4 22.0 40.8

Instrument :

MSVOA_V

ClientSampleId :

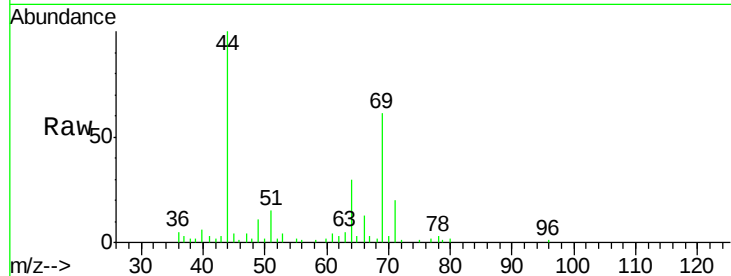
MDL-WATER-02

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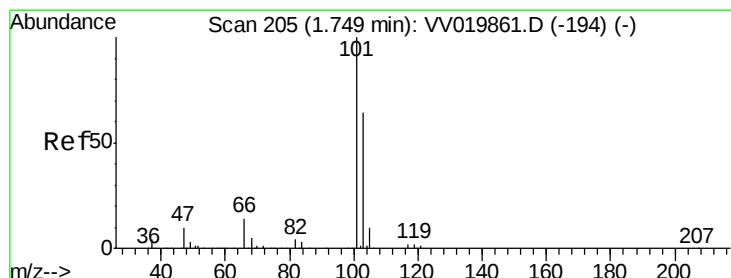
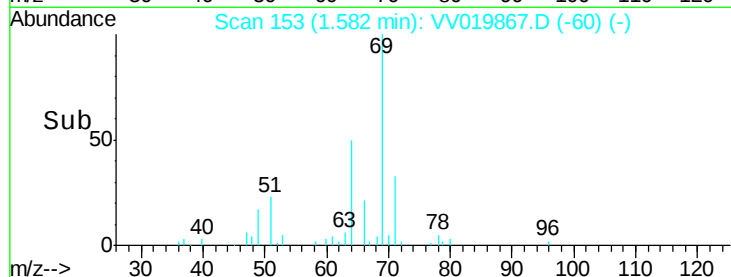
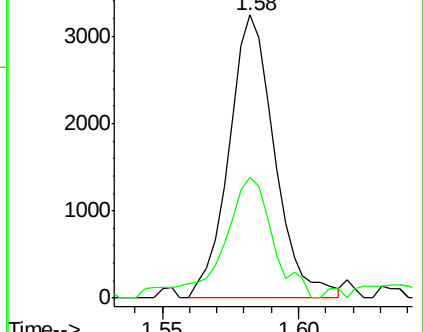
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Abundance Ion 64.10 (63.80 to 64.80): VV019867.D (-144) (-)

Ion 66.05 (65.75 to 66.75): VV019867.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 0.235 ug/L

RT: 1.75 min Scan# 205

Delta R.T. -0.00 min

Lab File: VV019867.D

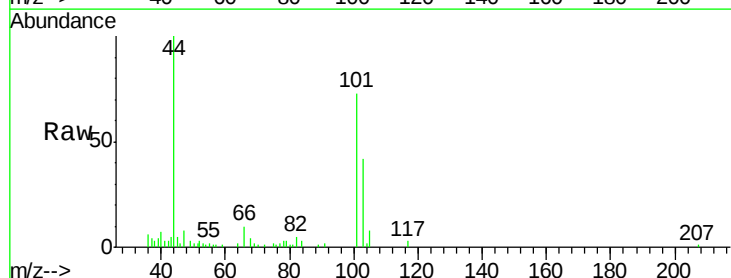
Acq: 29 Dec 2020 16:53

Tgt Ion: 101 Resp: 7782

Ion Ratio Lower Upper

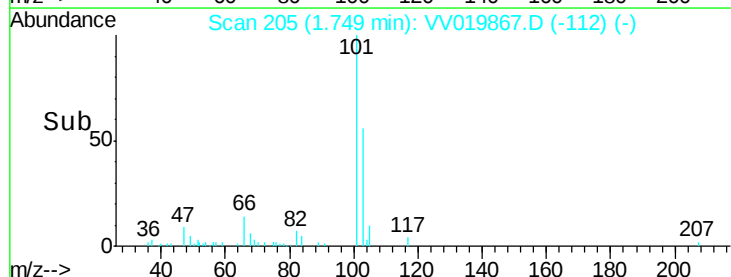
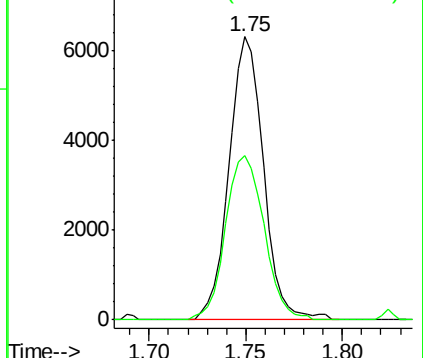
101 100

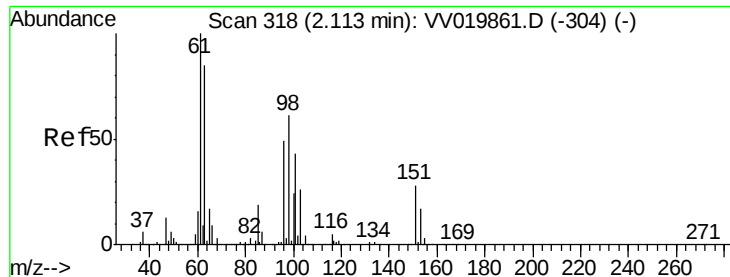
103 65.3 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV019867.D (-194) (-)

Ion 103.00 (102.70 to 103.70): VV019867.D (-194) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.316 ug/L

RT: 2.11 min Scan# 317

Delta R.T. -0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Instrument :

MSVOA_V

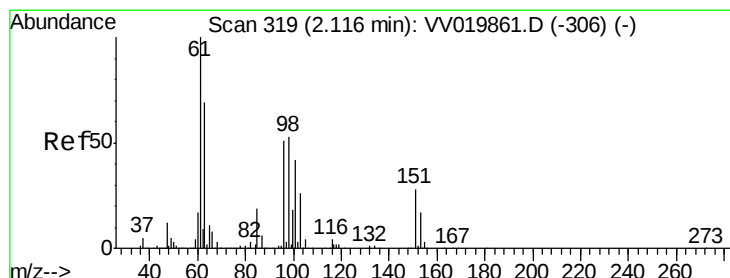
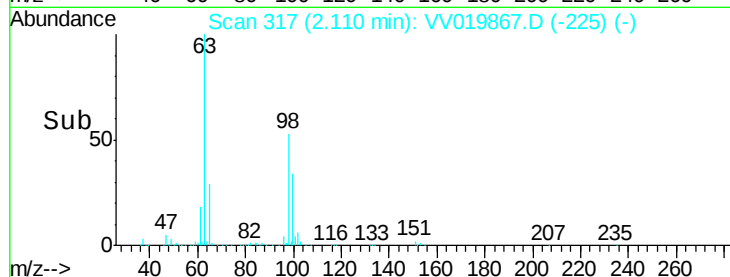
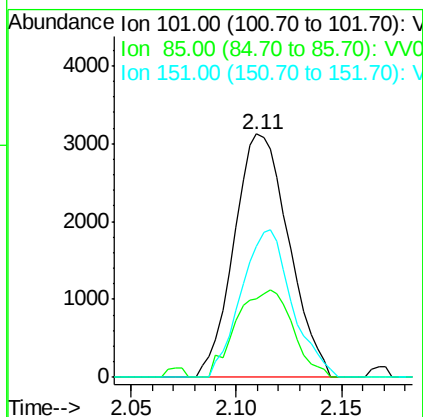
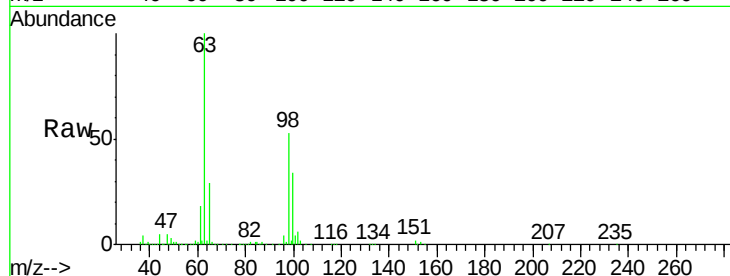
ClientSampleId :

MDL-WATER-02

Tot Ion:	101	Resp:	5632
Ion Ratio	Lower	Upper	
101	100		
85	37.0	36.4	54.6
151	56.2	54.1	81.1

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#12

1,1-Dichloroethene

Concen: 0.312 ug/L

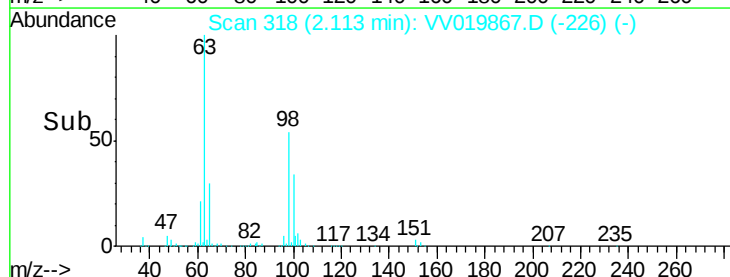
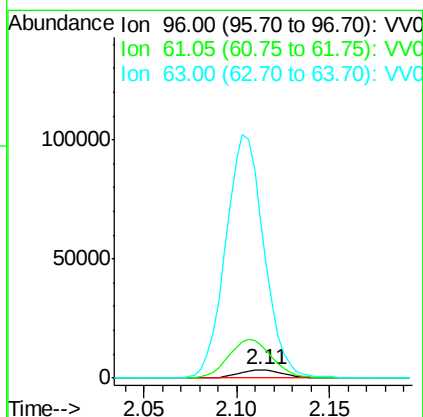
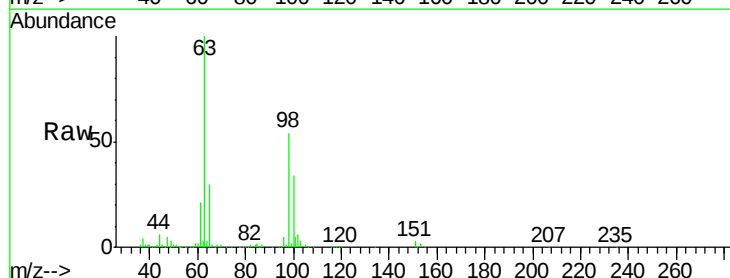
RT: 2.11 min Scan# 318

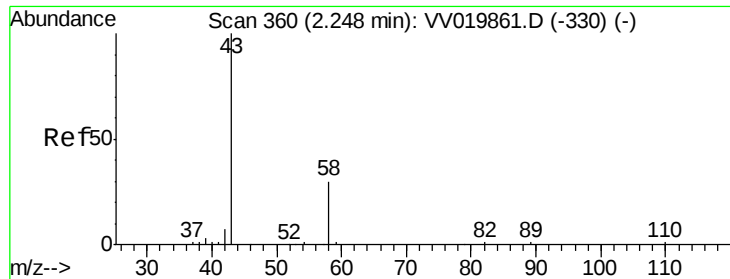
Delta R.T. -0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Tgt Ion:	96	Resp:	5682
Ion Ratio	Lower	Upper	
96	100		
61	395.5	131.5	244.1#
63	1899.4	95.2	176.8#





#13

Acetone

Concen: 2.460 ug/L m

RT: 2.24 min Scan# 359

Delta R.T. -0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Tot Ion: 43 Resp: 7352

Ion Ratio Lower Upper

43 100

58 3.6 0.0 31.4

Instrument :

MSVOA_V

ClientSampleId :

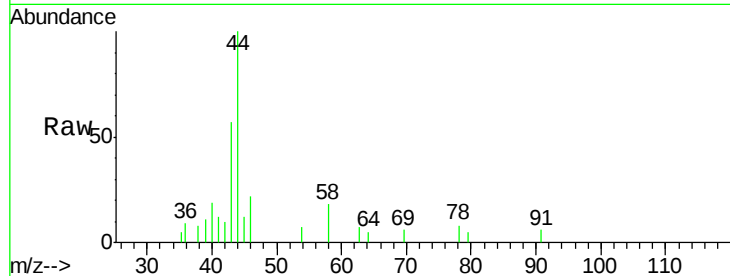
MDL-WATER-02

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Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.24

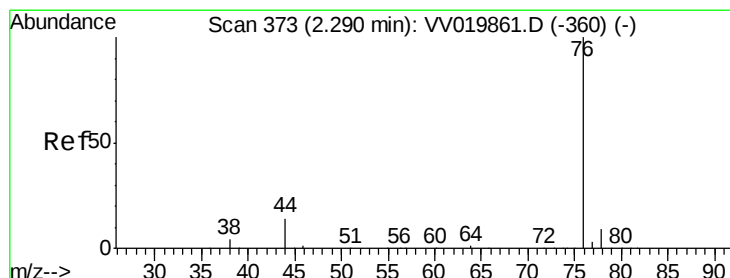
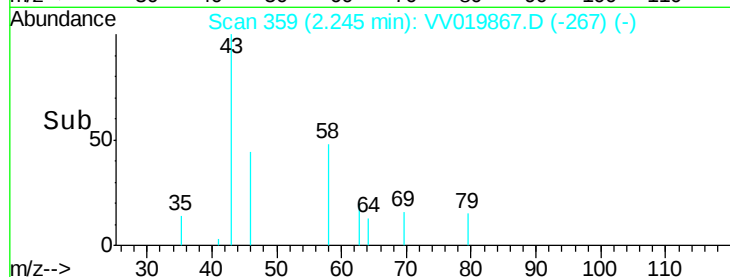
1000

500

0

2.20 2.30

Time-->



#14

Carbon disulfide

Concen: 0.242 ug/L

RT: 2.29 min Scan# 373

Delta R.T. -0.00 min

Lab File: VV019867.D

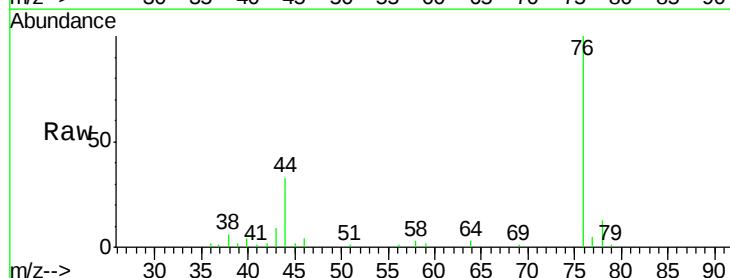
Acq: 29 Dec 2020 16:53

Tgt Ion: 76 Resp: 15242

Ion Ratio Lower Upper

76 100

78 12.7 7.2 10.8#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

12000

10000

8000

6000

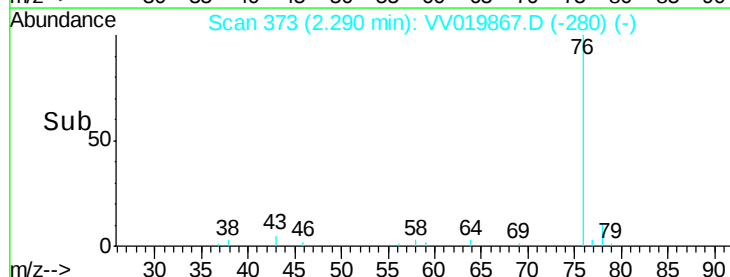
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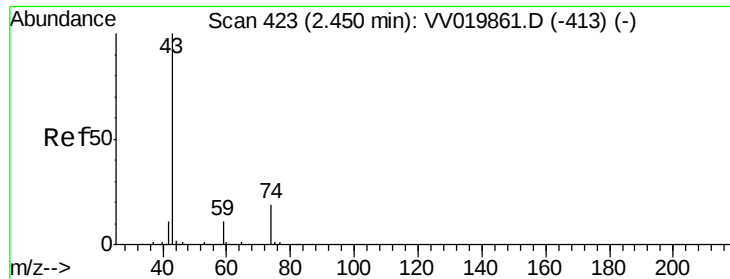
2000

0

2.25 2.30 2.35

Time-->





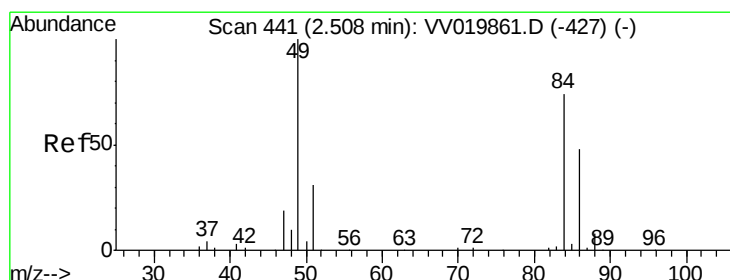
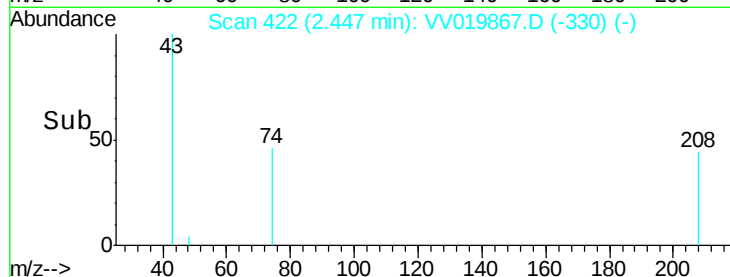
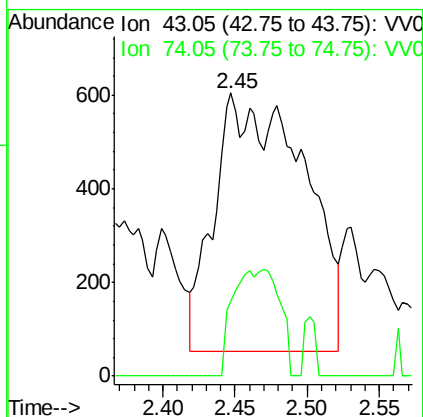
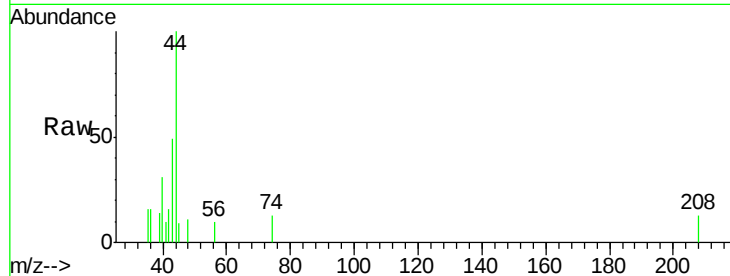
#15
Methyl Acetate
Concen: 0.316 ug/L m
RT: 2.45 min Scan# 422
Delta R.T. -0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion: 43 Resp: 2361
Ion Ratio Lower Upper
43 100
74 10.9 10.6 16.0

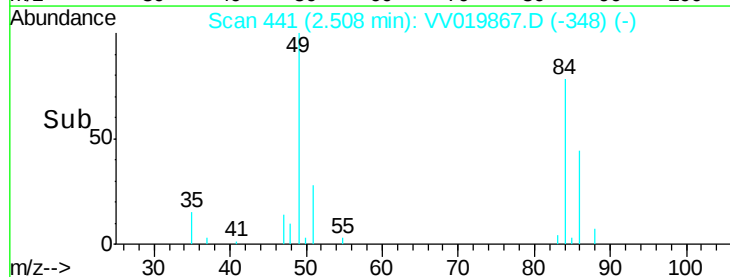
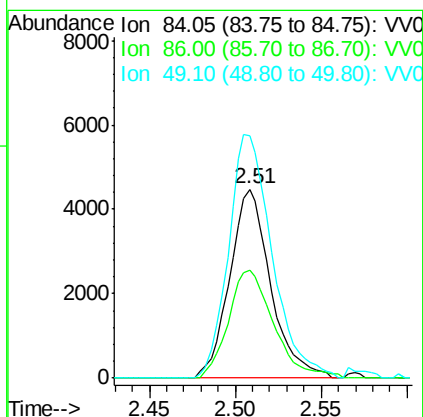
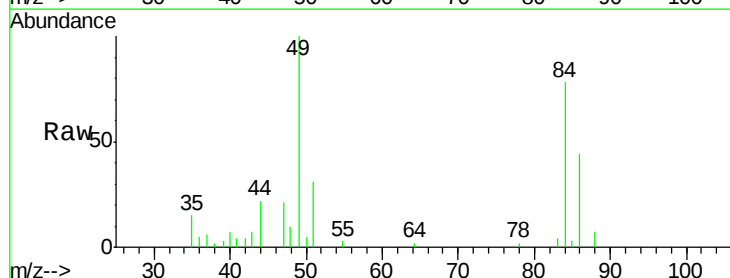
Manual Integrations
APPROVED

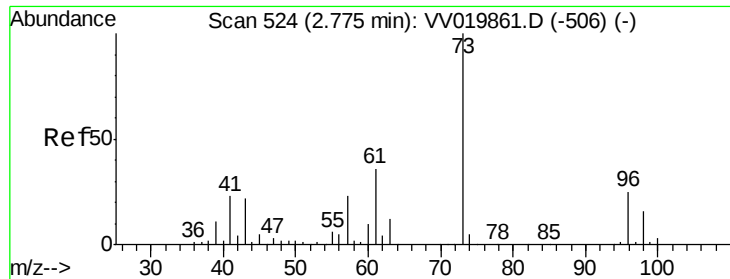
MMDadoda
12/30/2020 6:35:36 PM



#16
Methylene chloride
Concen: 0.337 ug/L
RT: 2.51 min Scan# 441
Delta R.T. -0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion: 84 Resp: 7453
Ion Ratio Lower Upper
84 100
86 57.0 42.8 79.4
49 128.5 93.9 174.3





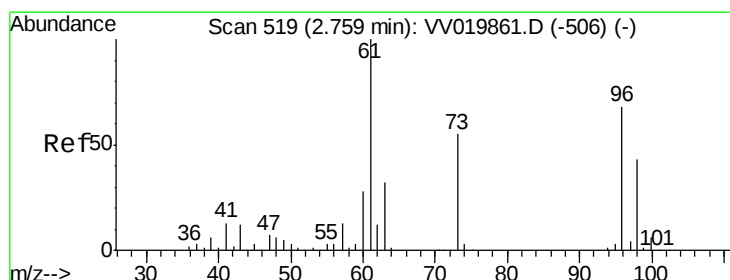
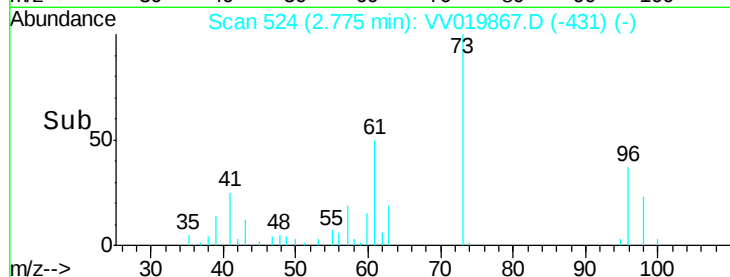
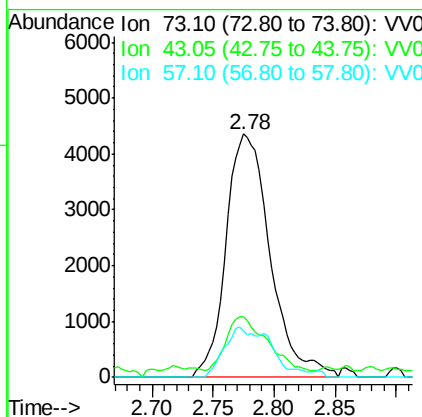
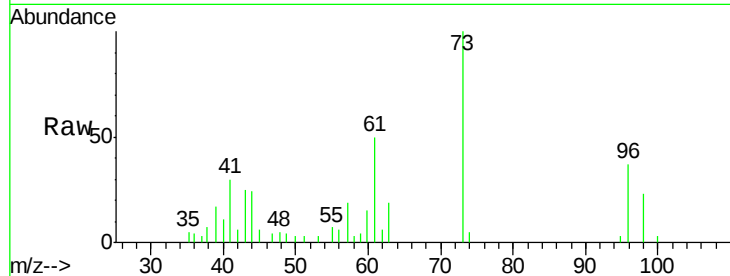
#17
Methvl tert-butvl Ether
Concen: 0.241 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion:	73	Resp:	10962
Ion	Ratio	Lower	Upper
73	100		
43	23.9	17.0	25.6
57	21.9	18.2	27.4

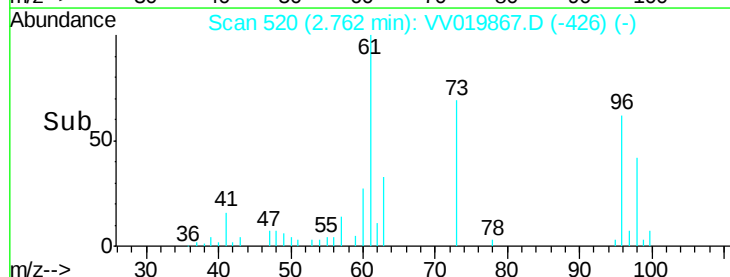
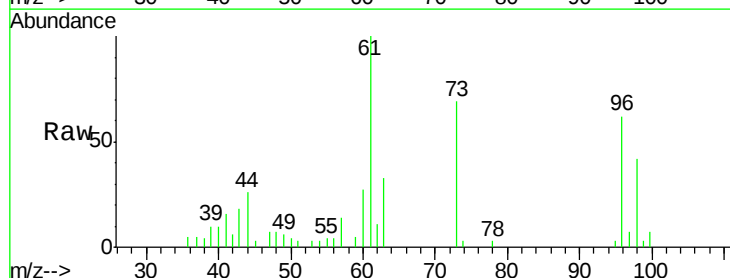
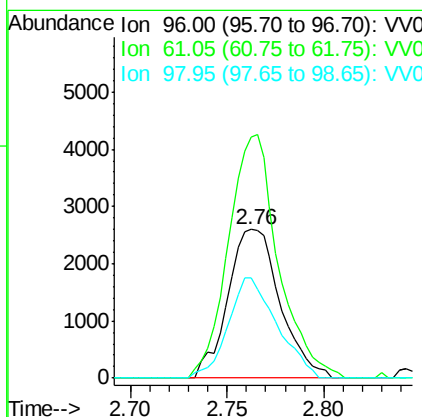
Manual Integrations
APPROVED

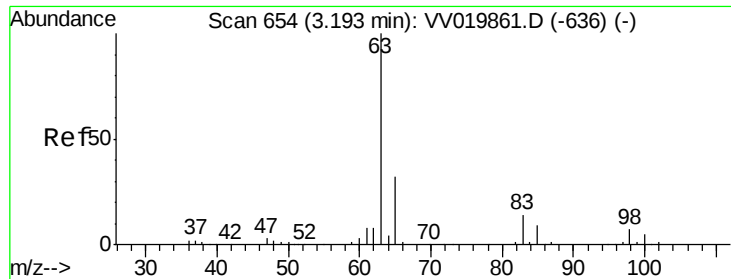
MMDadoda
12/30/2020 6:35:36 PM



#18
trans-1,2-Dichloroethene
Concen: 0.238 ug/L
RT: 2.76 min Scan# 520
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion:	96	Resp:	4892
Ion	Ratio	Lower	Upper
96	100		
61	162.4	106.3	197.3
98	67.7	44.7	82.9





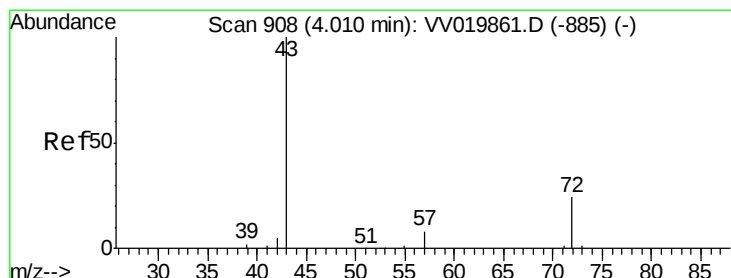
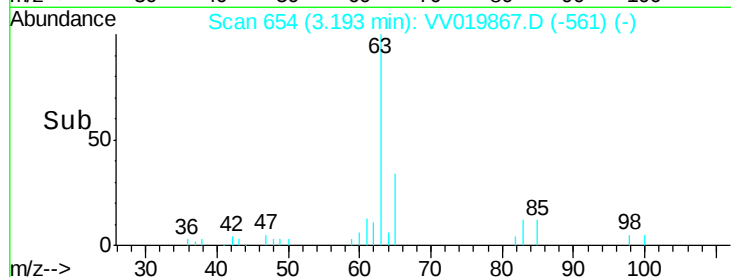
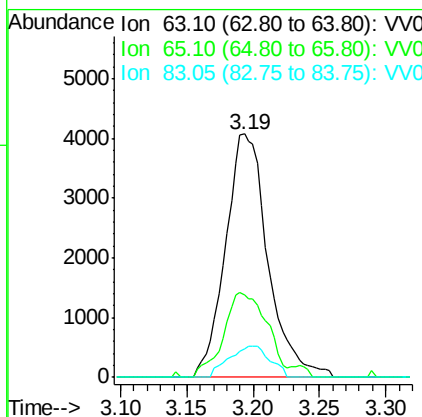
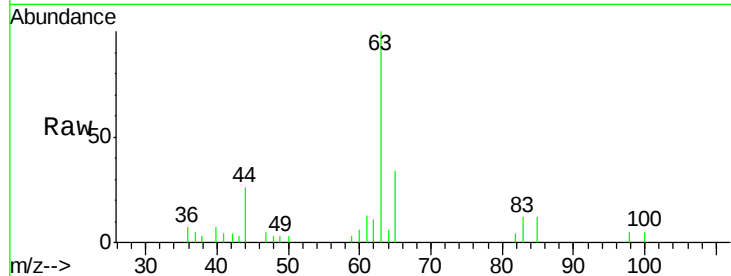
#19
 1,1-Dichloroethane
 Concen: 0.228 ug/L
 RT: 3.19 min Scan# 654
 Delta R.T. -0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.6	21.8	40.6
83	12.0	9.0	16.8

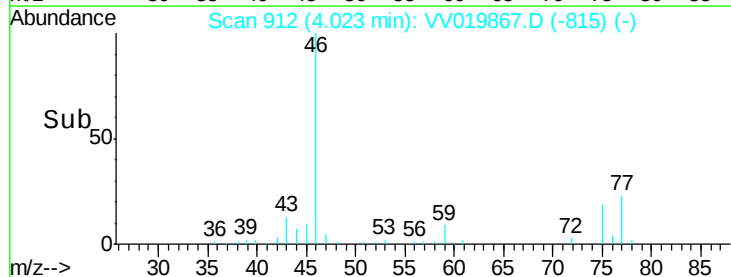
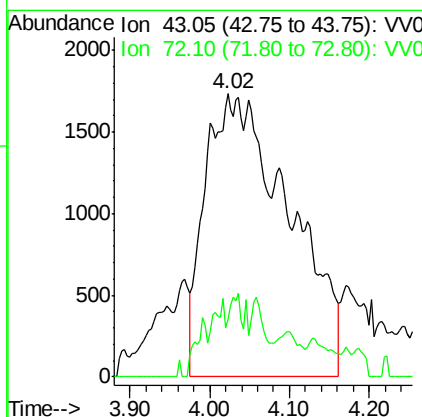
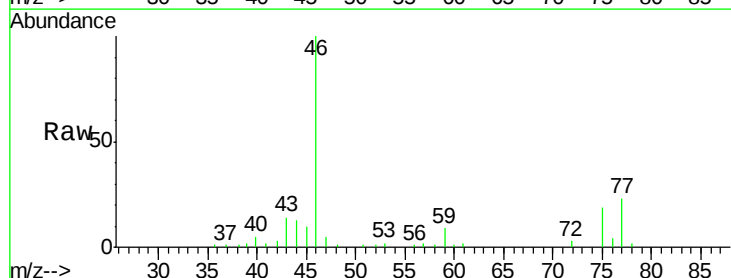
Manual Integrations
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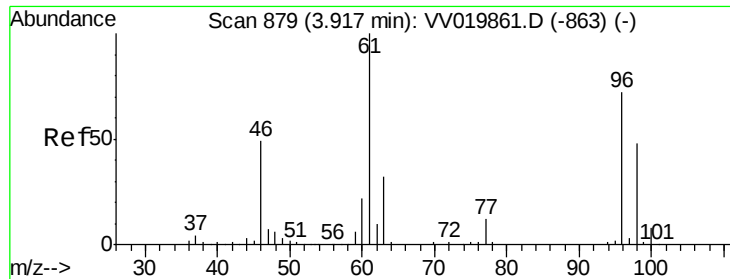
MMDadoda
 12/30/2020 6:35:36 PM



#21
 2-Butanone
 Concen: 2.533 ug/L m
 RT: 4.02 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	2.8	10.9	32.7#





#22

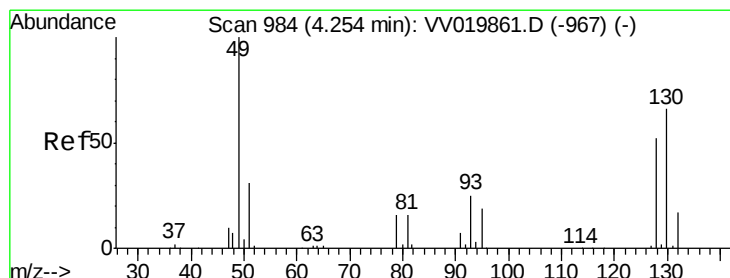
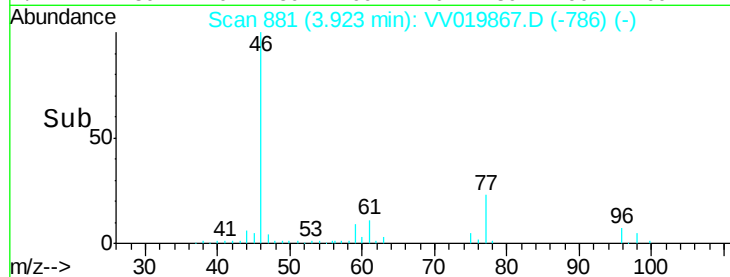
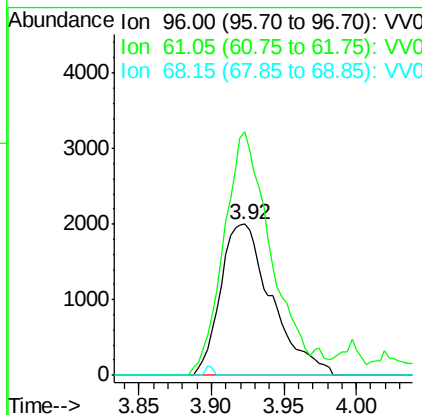
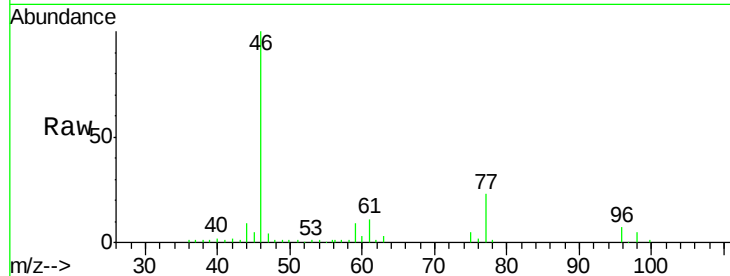
cis-1,2-Dichloroethene
Concen: 0.229 ug/L
RT: 3.92 min Scan# 881
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
96	100		
61	160.9	98.1	182.3
68	0.0	0.0	0.0

Manual Integrations
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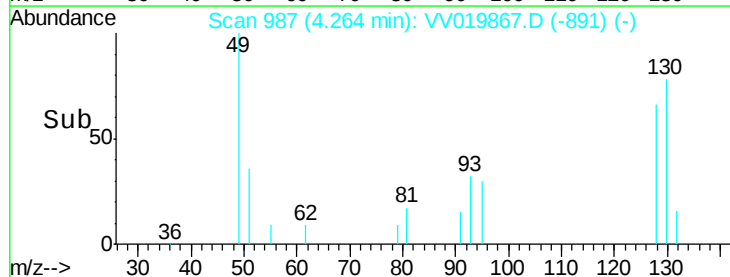
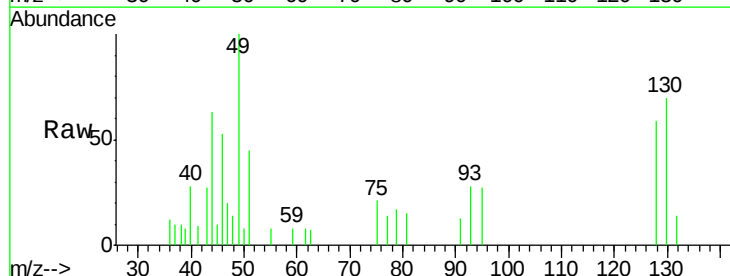
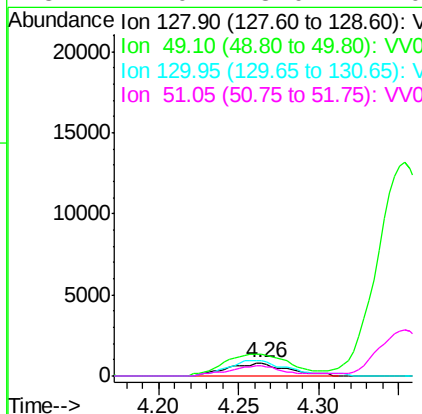
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12/30/2020 6:35:36 PM

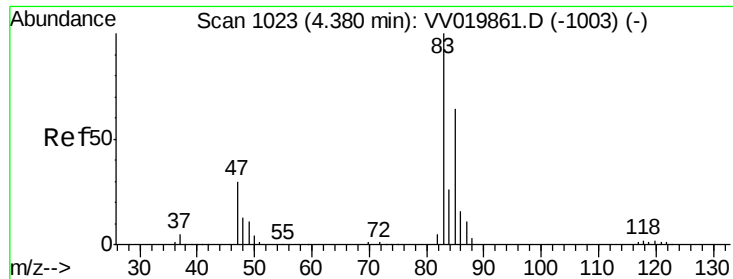


#23

Bromochloromethane
Concen: 0.239 ug/L
RT: 4.26 min Scan# 987
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
128	100		
49	170.2	132.6	246.2
130	118.4	86.4	160.4
51	77.0	48.0	72.0





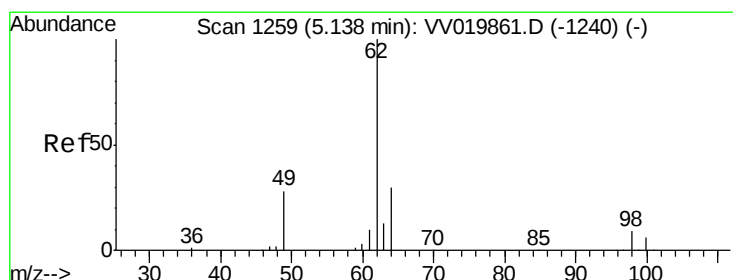
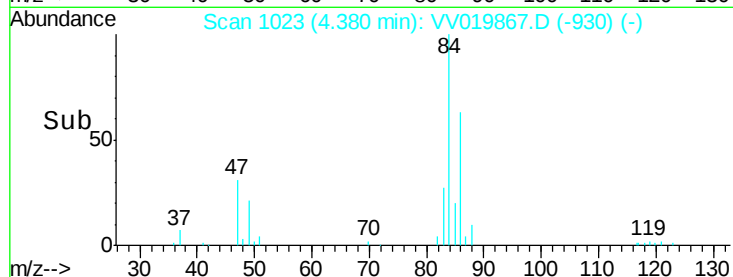
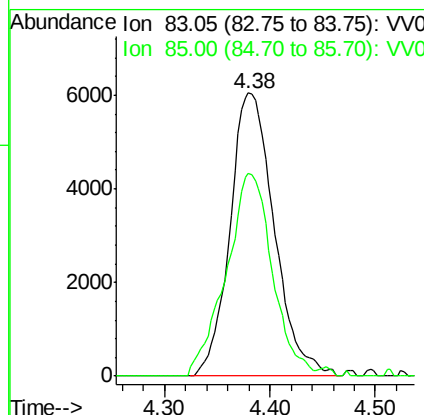
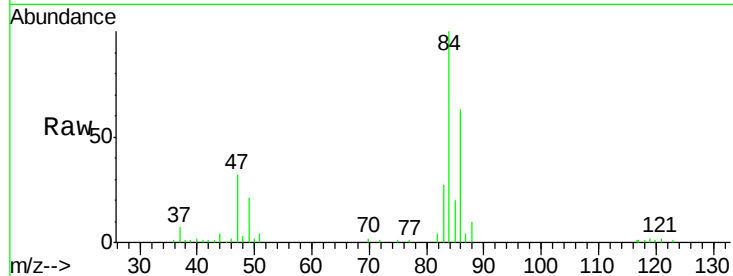
#25
Chloroform
Concen: 0.445 ug/L
RT: 4.38 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion: 83 Resp: 17599
Ion Ratio Lower Upper
83 100
85 71.7 46.4 86.2

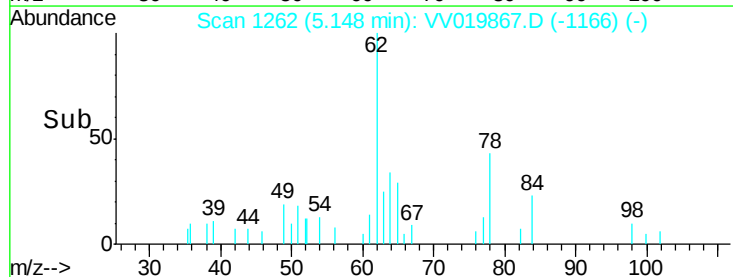
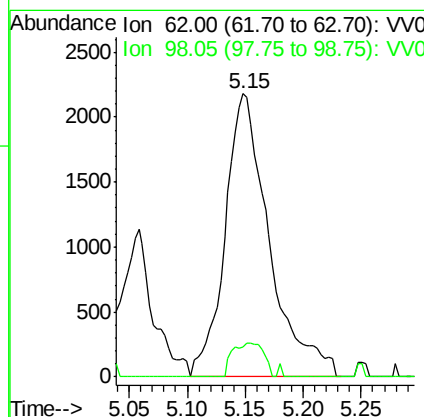
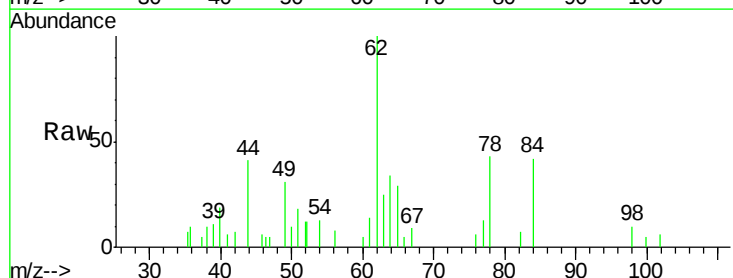
Manual Integrations
APPROVED

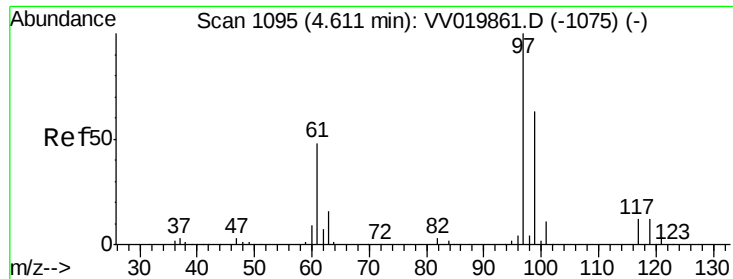
MMDadoda
12/30/2020 6:35:36 PM



#27
1,2-Dichloroethane
Concen: 0.240 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion: 62 Resp: 5792
Ion Ratio Lower Upper
62 100
98 10.5 7.6 11.4





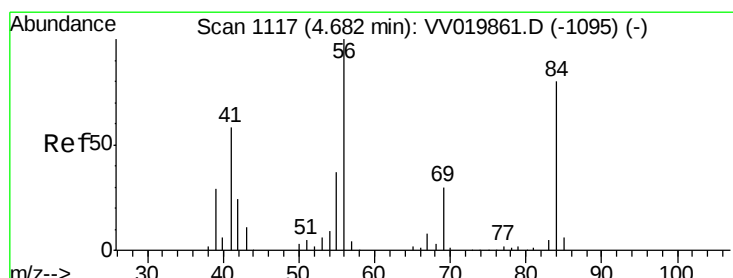
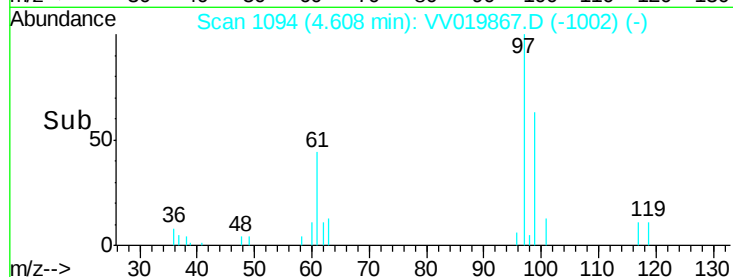
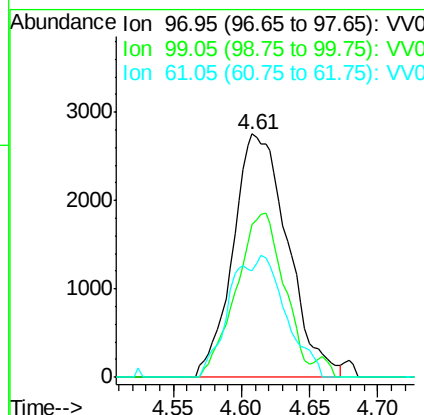
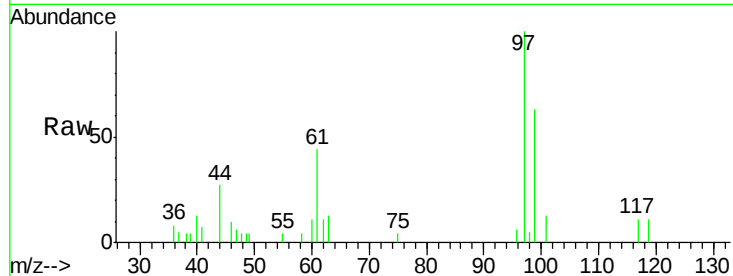
#29
1,1,1-Trichloroethane
Concen: 0.227 ug/L
RT: 4.61 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
97	100		
99	58.9	51.1	76.7
61	28.1	38.6	57.8

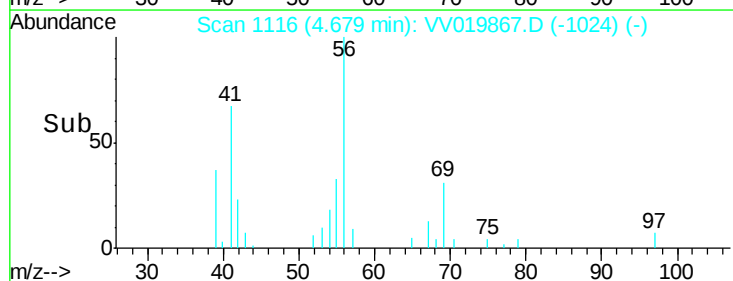
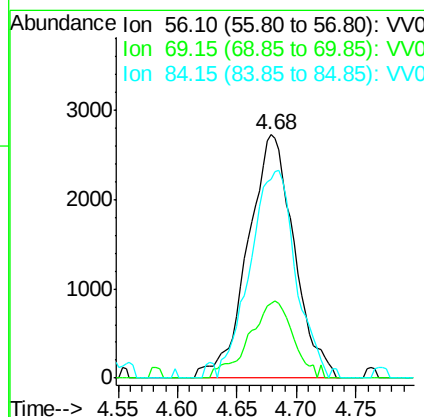
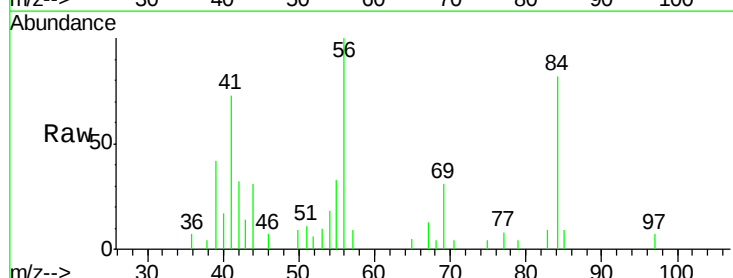
Manual Integrations
APPROVED

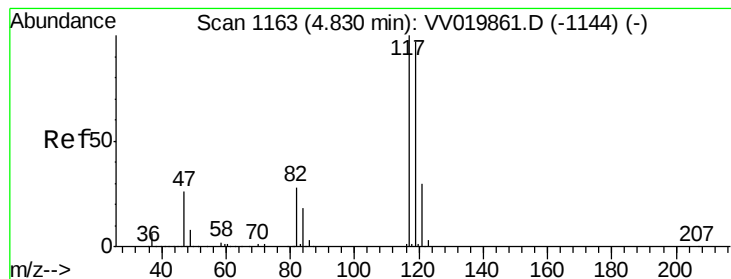
MMDadoda
12/30/2020 6:35:36 PM



#30
Cyclohexane
Concen: 0.216 ug/L
RT: 4.68 min Scan# 1116
Delta R.T. -0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.1	36.1
84	84.1	66.8	100.2





#31

Carbon tetrachloride

Concen: 0.210 ug/L

RT: 4.83 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-02

Tot Ion:117 Resp: 5797

Ion Ratio Lower Upper

117 100

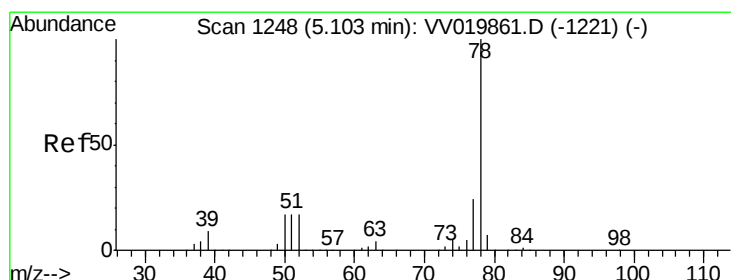
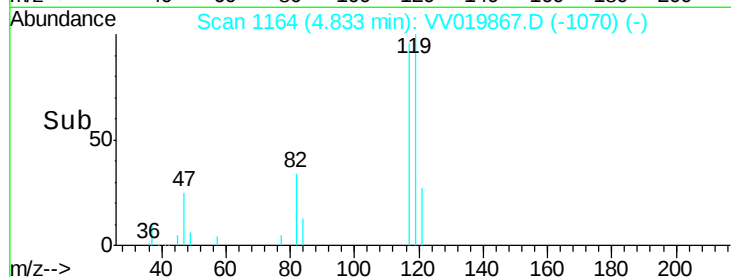
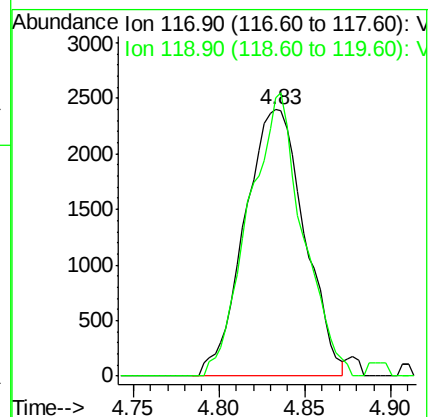
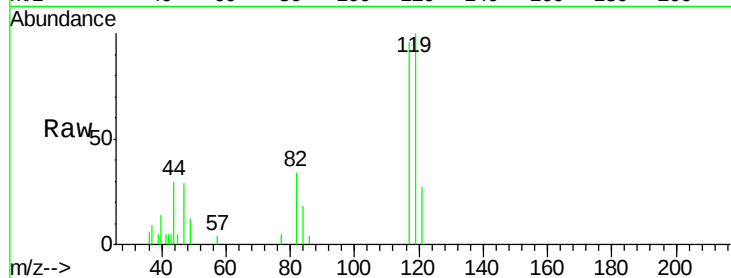
119 96.4 76.0 114.0

Manual Integrations

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#33

Benzene

Concen: 0.221 ug/L

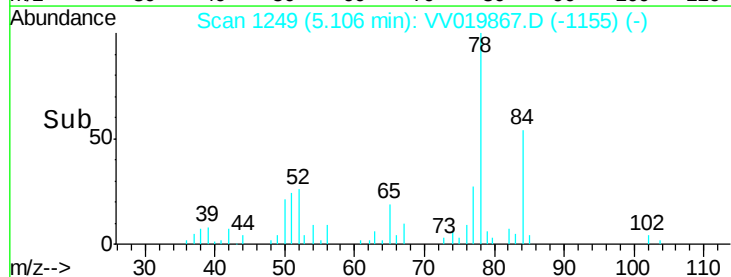
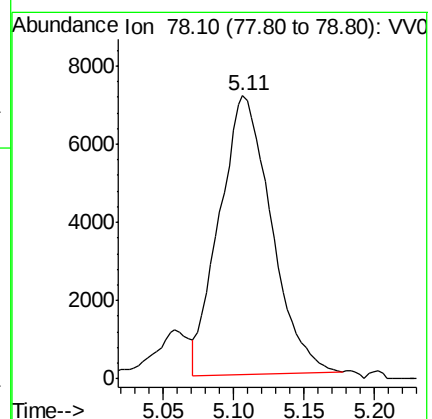
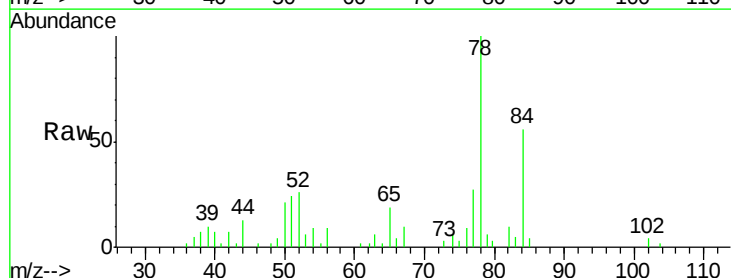
RT: 5.11 min Scan# 1249

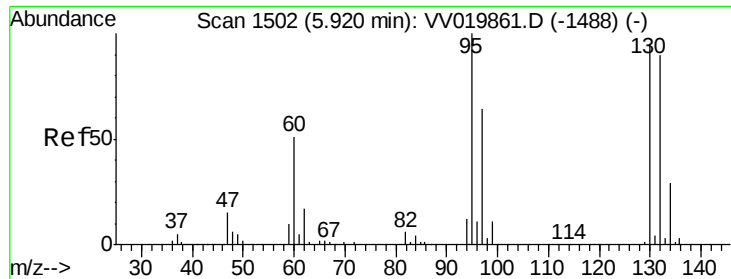
Delta R.T. 0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Tgt Ion: 78 Resp: 18300





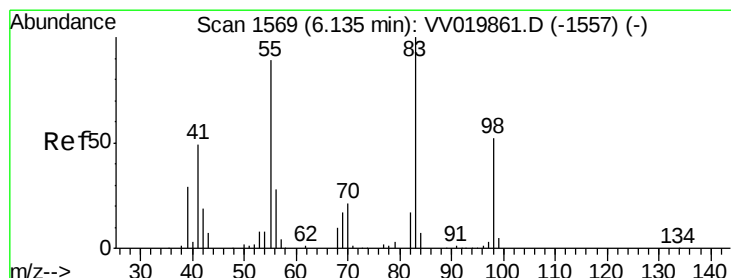
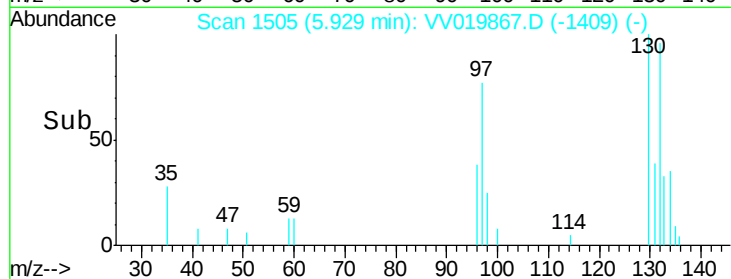
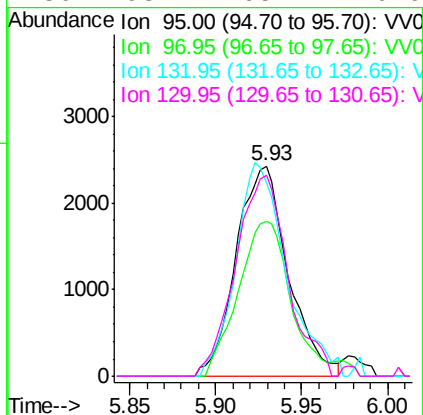
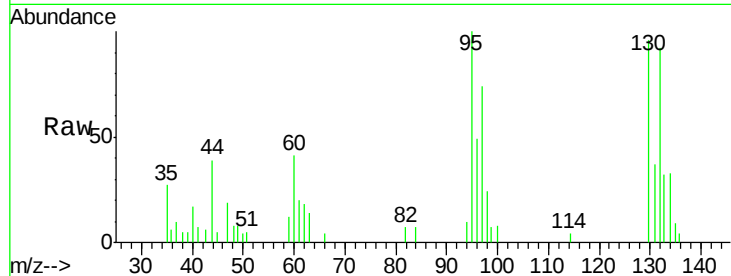
#34
 Trichloroethene
 Concen: 0.230 ug/L
 RT: 5.93 min Scan# 1505
 Delta R.T. 0.01 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Tot Ion	95	Resp:	5101
Ion	Ratio	Lower	Upper
95	100		
97	73.9	44.1	81.9
132	91.7	61.2	113.8
130	95.7	65.1	120.9

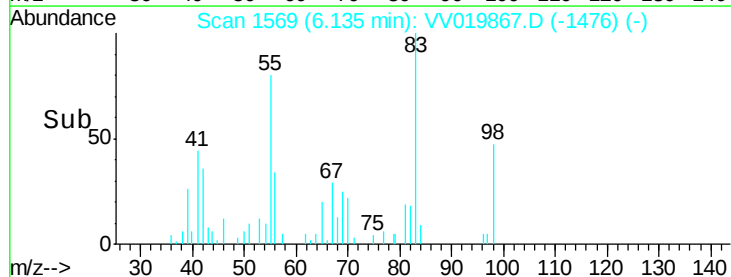
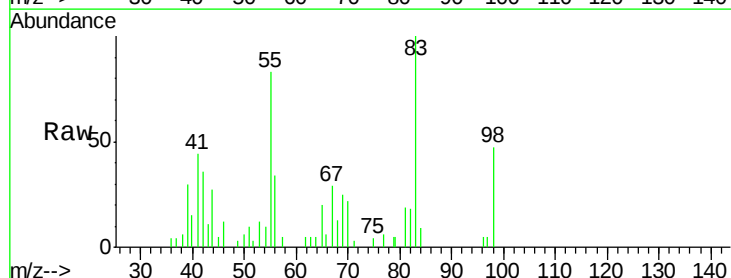
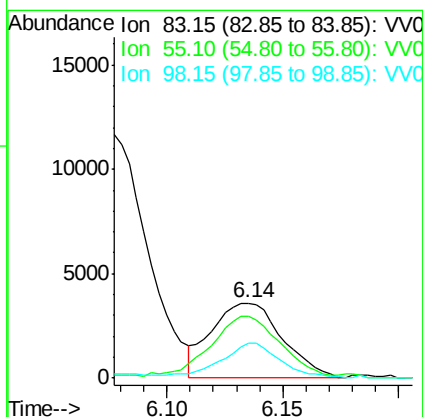
Manual Integrations
 APPROVED

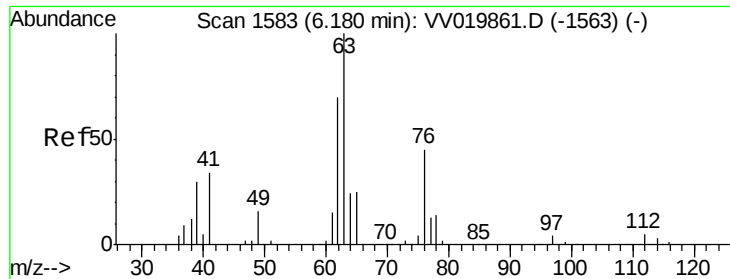
MMDadoda
 12/30/2020 6:35:36 PM



#35
 Methylcyclohexane
 Concen: 0.230 ug/L
 RT: 6.14 min Scan# 1569
 Delta R.T. -0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Tgt Ion	83	Resp:	7632
Ion	Ratio	Lower	Upper
83	100		
55	82.7	67.5	101.3
98	39.8	38.6	58.0





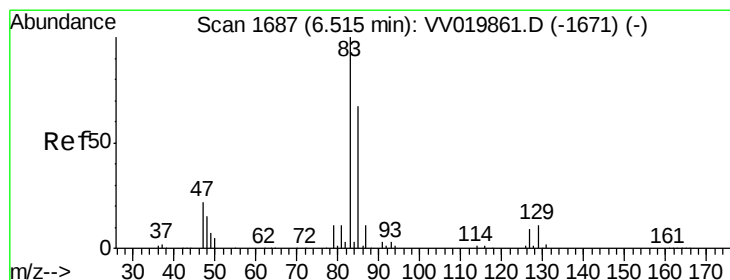
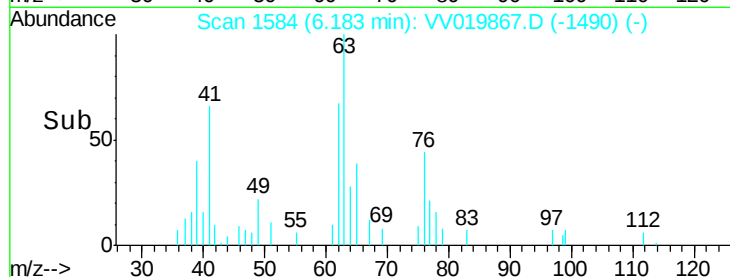
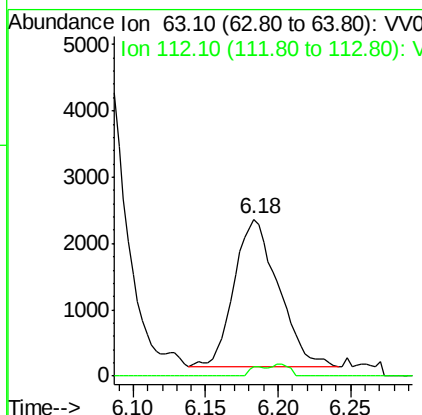
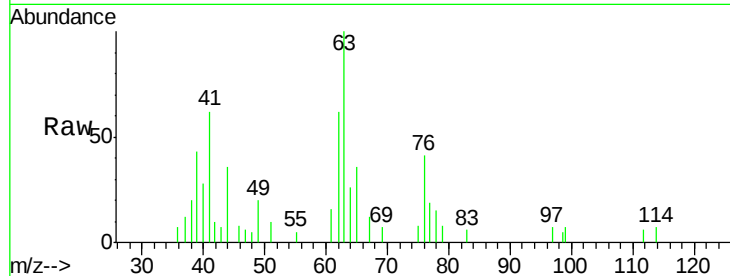
#37
 1,2-Dichloropropane
 Concen: 0.229 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Tot Ion: 63 Resp: 4756
 Ion Ratio Lower Upper
 63 100
 112 2.5 3.6 5.4#

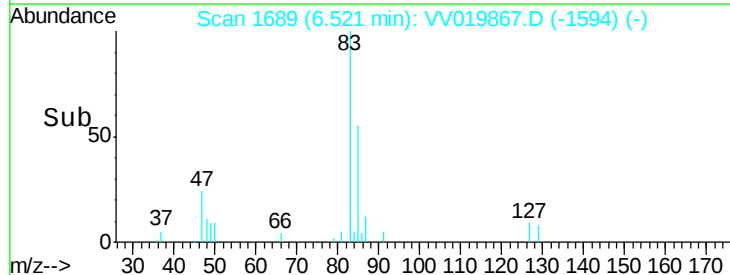
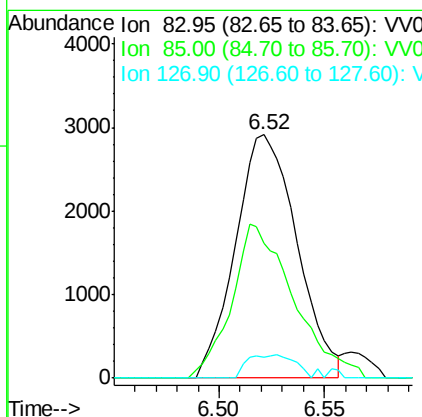
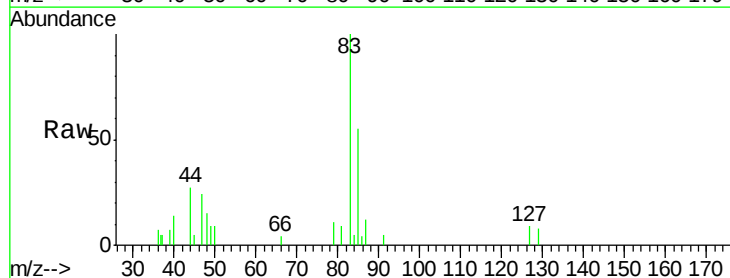
Manual Integrations
 APPROVED

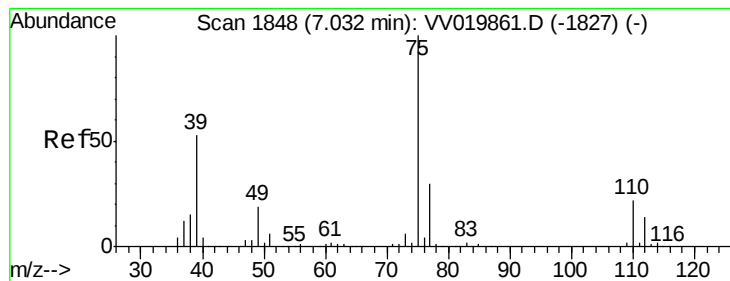
MMDadoda
 12/30/2020 6:35:36 PM



#38
 Bromodichloromethane
 Concen: 0.230 ug/L
 RT: 6.52 min Scan# 1689
 Delta R.T. 0.01 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Tgt Ion: 83 Resp: 5894
 Ion Ratio Lower Upper
 83 100
 85 55.2 45.9 85.3
 127 8.8 6.2 9.2





#39

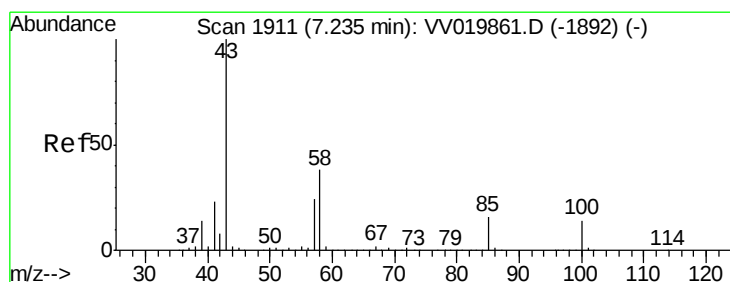
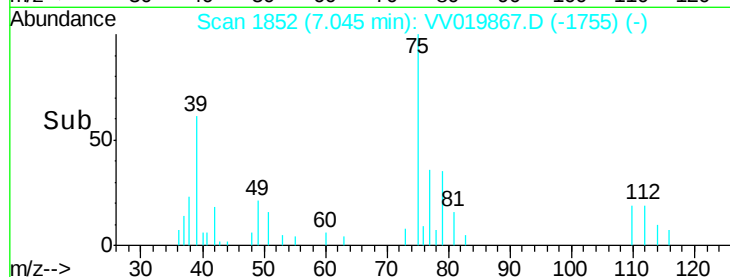
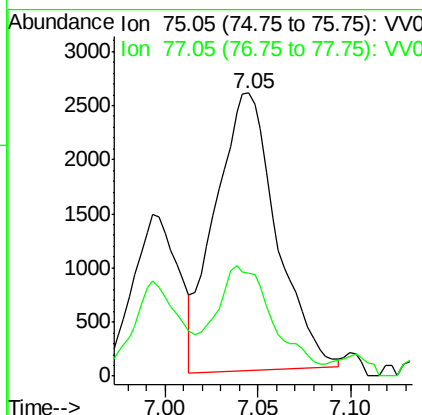
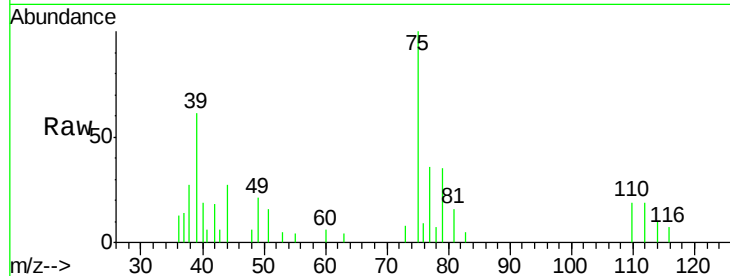
cis-1,3-Dichloropropene
Concen: 0.206 ug/L
RT: 7.05 min Scan# 1852
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
75	100		
77	36.3	21.0	39.0

Manual Integrations
APPROVED

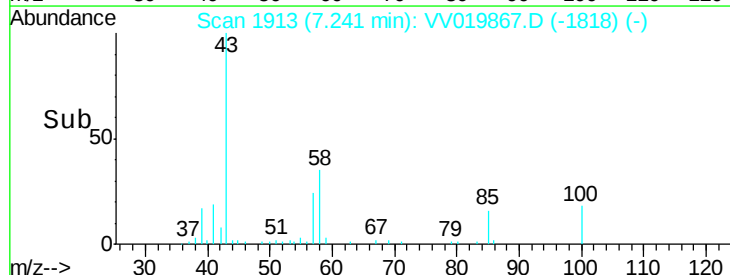
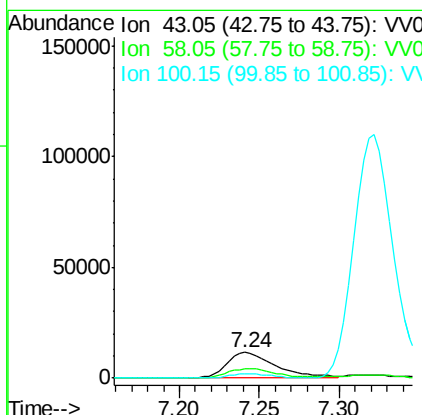
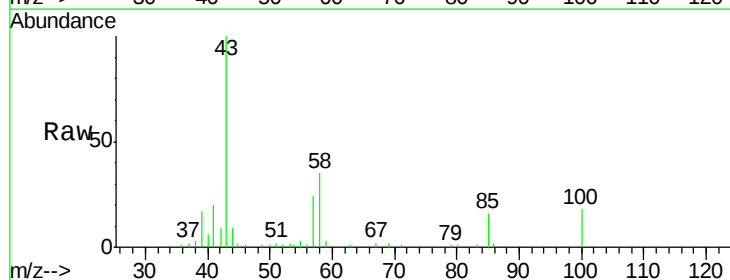
MMDadoda
12/30/2020 6:35:36 PM

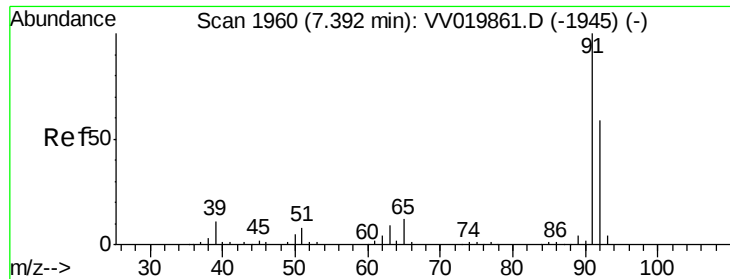


#40

4-Methyl-2-pentanone
Concen: 2.090 ug/L
RT: 7.24 min Scan# 1913
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.7	30.0	45.0
100	0.0	11.4	17.0





#42

Toluene

Concen: 0.229 ug/L

RT: 7.40 min Scan# 1962

Delta R.T. 0.01 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-02

Tot Ion: 91 Resp: 19314

Ion Ratio Lower Upper

91 100

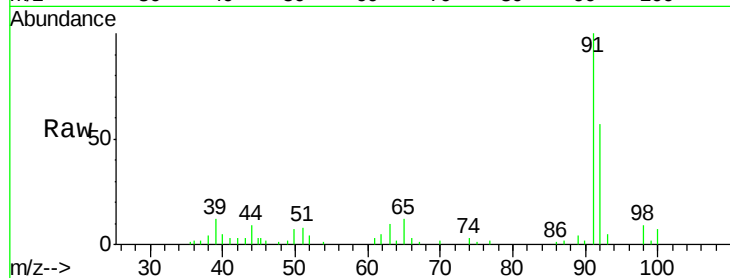
92 57.1 40.9 76.0

Manual Integrations

APPROVED

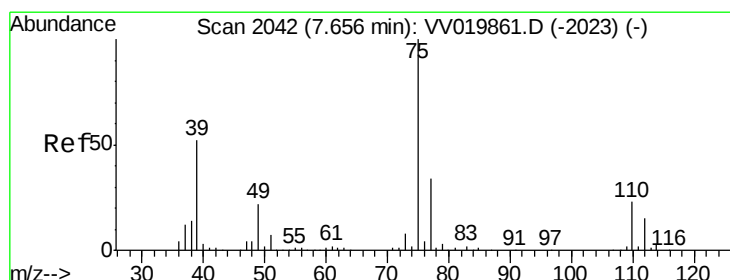
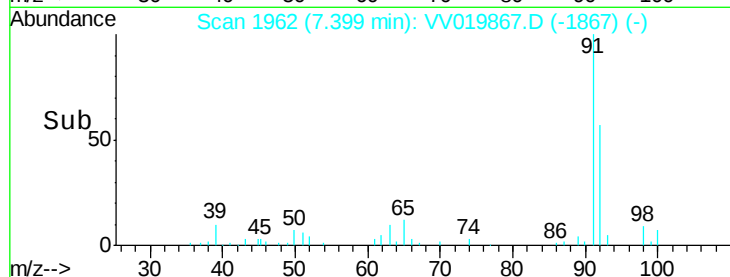
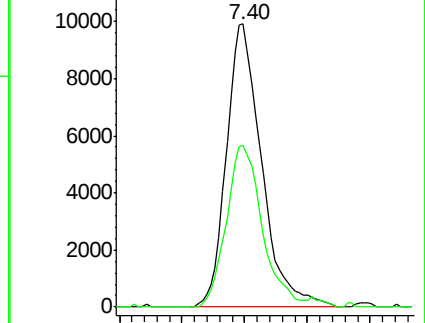
MMDadoda

12/30/2020 6:35:36 PM



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.290 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. 0.01 min

Lab File: VV019867.D

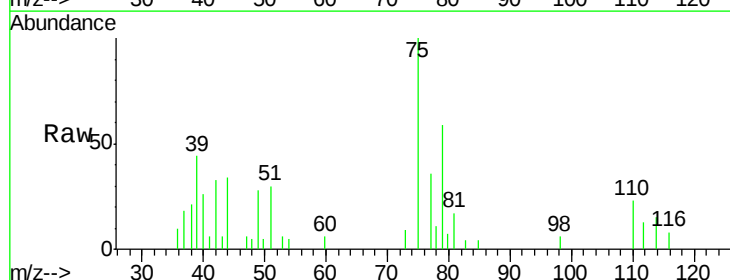
Acq: 29 Dec 2020 16:53

Tgt Ion: 75 Resp: 6780

Ion Ratio Lower Upper

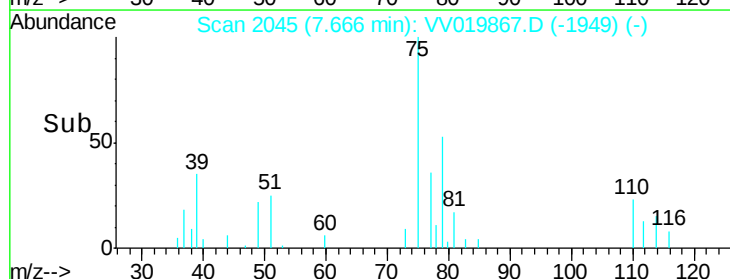
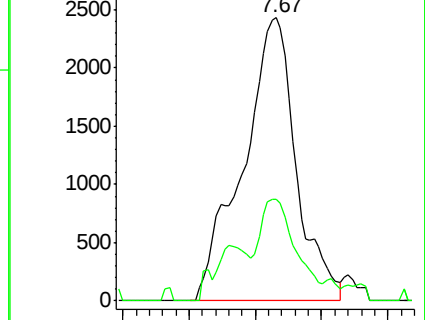
75 100

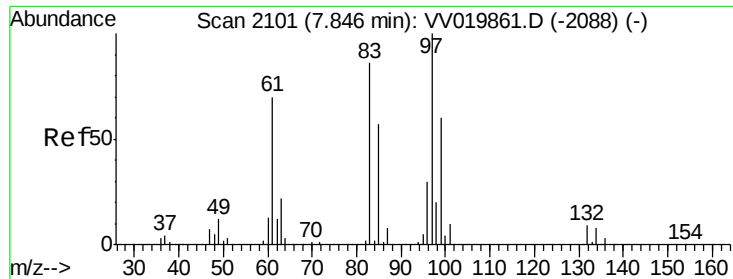
77 36.0 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





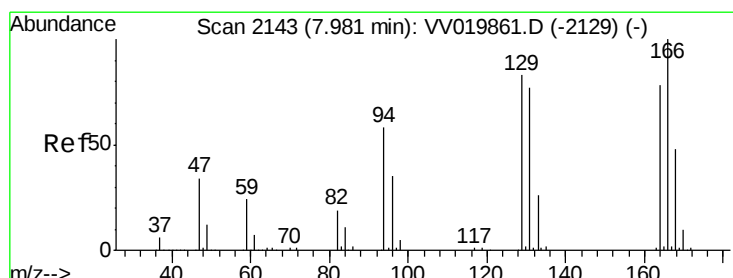
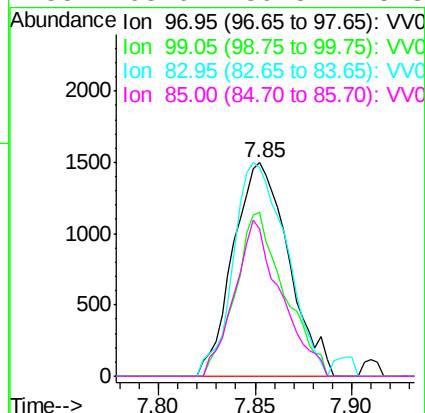
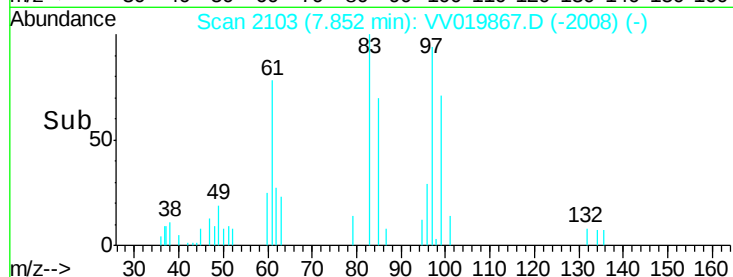
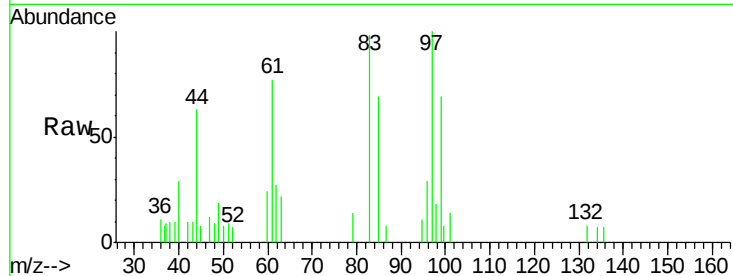
#45
1,1,2-Trichloroethane
Concen: 0.222 ug/L
RT: 7.85 min Scan# 2103
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion:	97	Resp:	2982
Ion	Ratio	Lower	Upper
97	100		
99	76.8	42.4	78.8
83	97.9	59.4	110.4
85	68.9	39.5	73.3

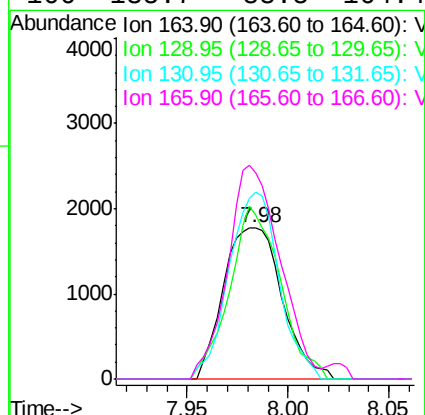
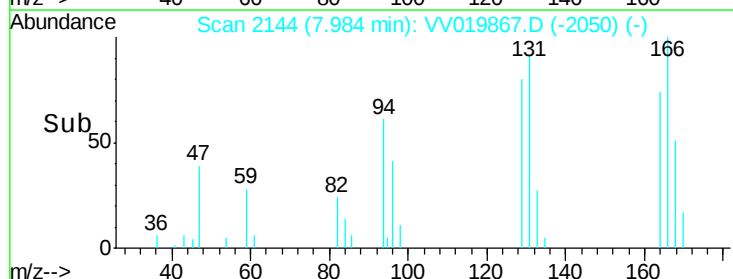
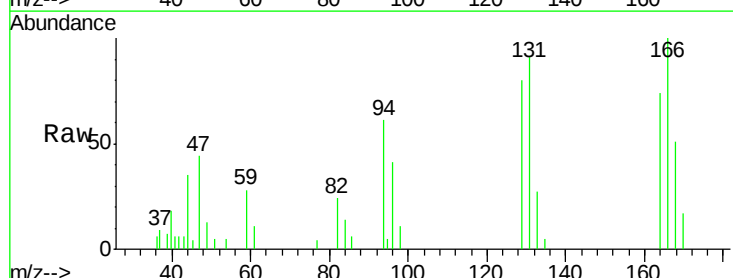
Manual Integrations
APPROVED

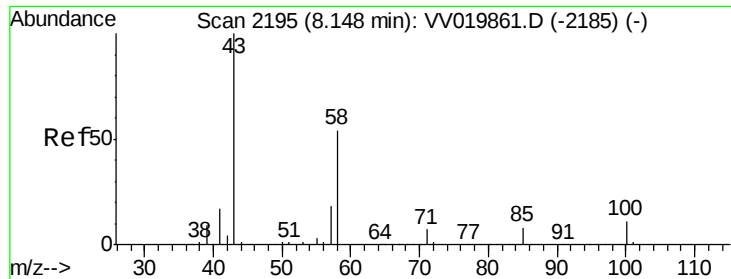
MMDadoda
12/30/2020 6:35:36 PM



#47
Tetrachloroethene
Concen: 0.240 ug/L
RT: 7.98 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion:	164	Resp:	3618
Ion	Ratio	Lower	Upper
164	100		
129	108.5	72.1	133.9
131	123.3	68.9	127.9
166	135.7	88.5	164.4





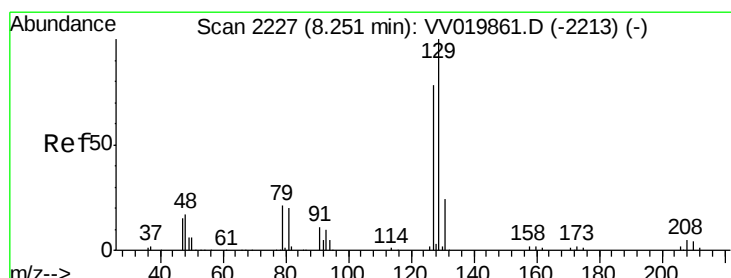
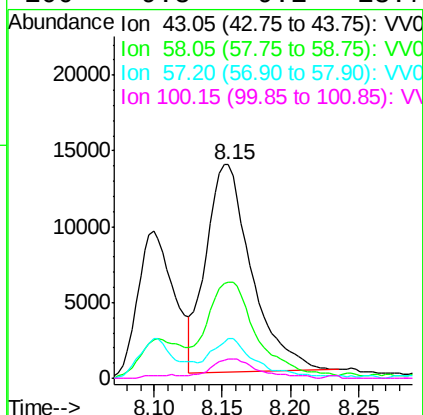
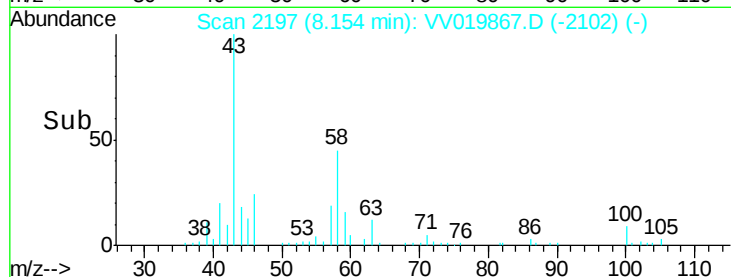
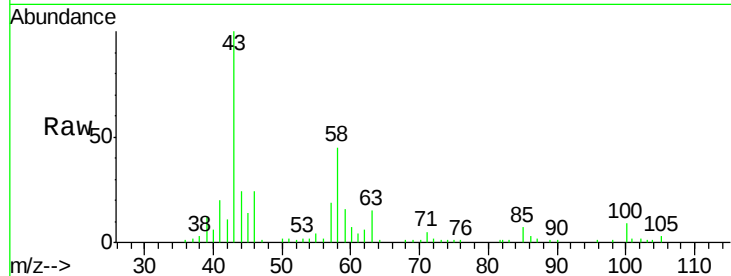
#48
2-Hexanone
Concen: 3.922 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion	43	Resp	31910
Ion Ratio	Lower	Upper	
43	100		
58	49.0	42.4	63.6
57	16.9	14.8	22.2
100	9.8	9.1	13.7

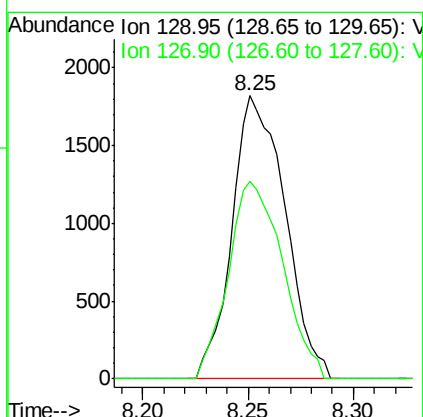
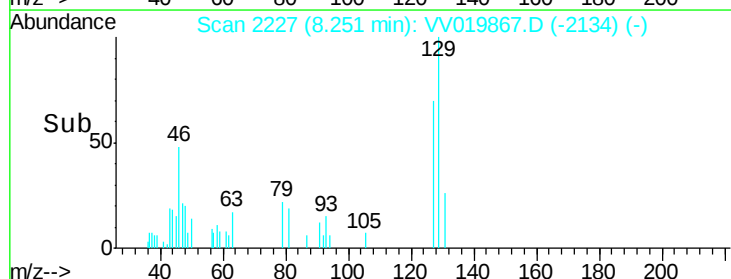
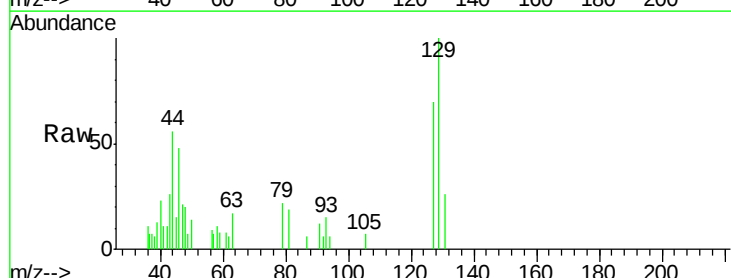
Manual Integrations
APPROVED

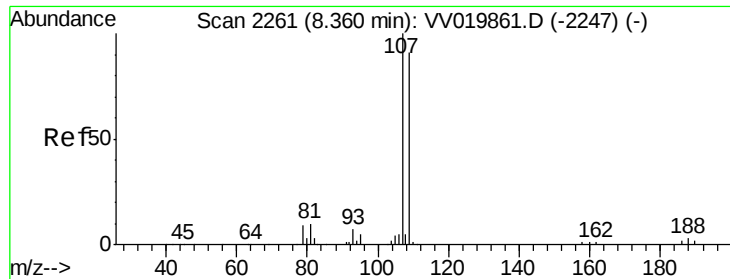
MMDadoda
12/30/2020 6:35:36 PM



#49
Dibromochloromethane
Concen: 0.218 ug/L
RT: 8.25 min Scan# 2227
Delta R.T. -0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion	129	Resp	3177
Ion Ratio	Lower	Upper	
129	100		
127	69.8	55.0	102.2





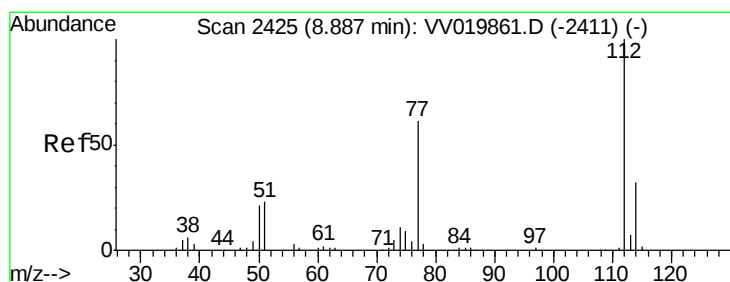
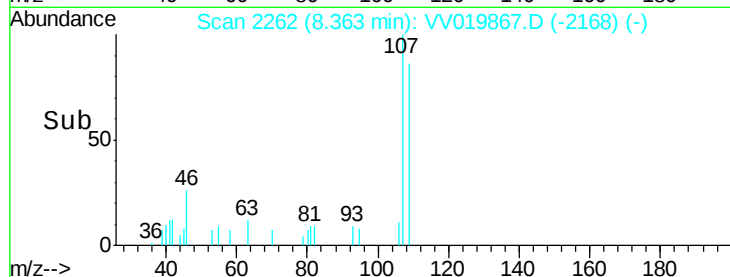
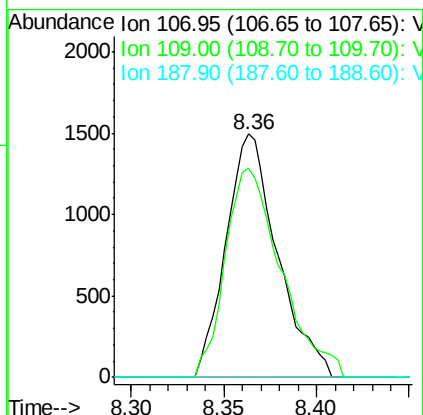
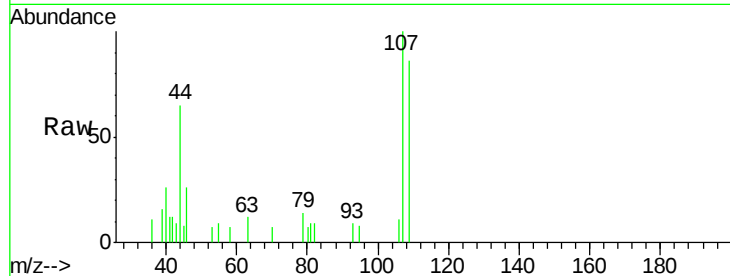
#50
1,2-Dibromoethane
Concen: 0.236 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
107	100		
109	85.6	63.8	118.4
188	0.0	2.5	3.7#

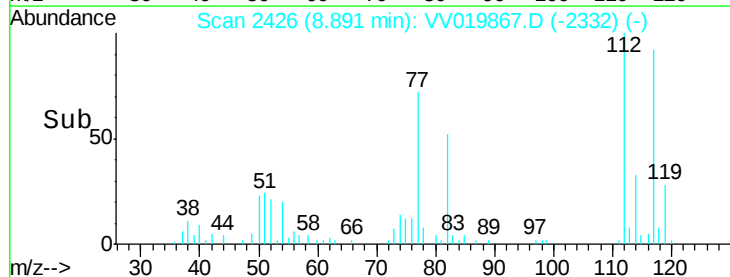
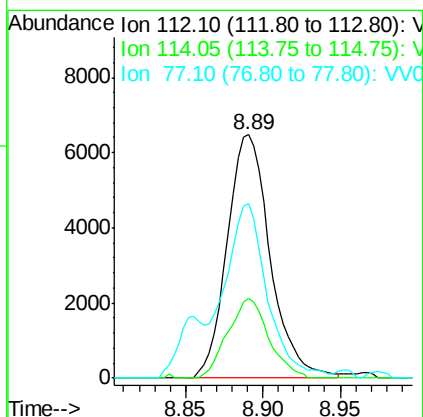
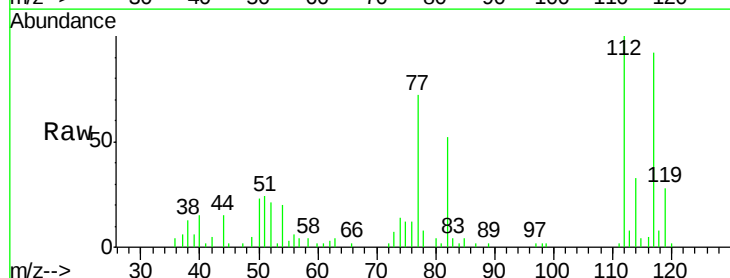
Manual Integrations
APPROVED

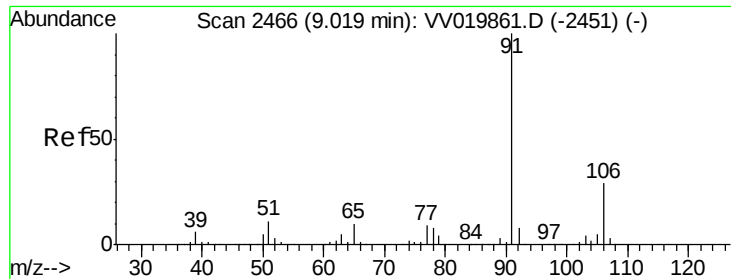
MMDadoda
12/30/2020 6:35:36 PM



#51
Chlorobenzene
Concen: 0.235 ug/L
RT: 8.89 min Scan# 2426
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	21.8	40.6
77	71.9	51.0	76.4





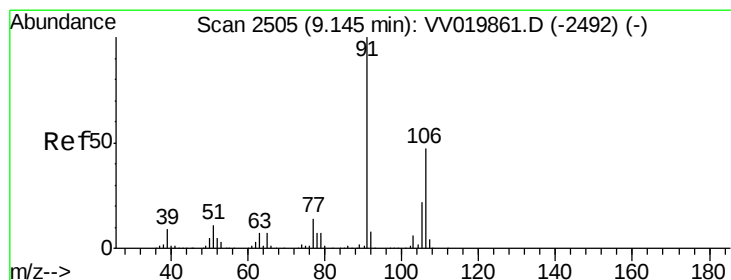
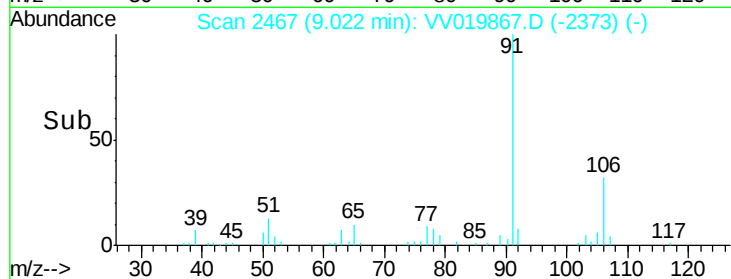
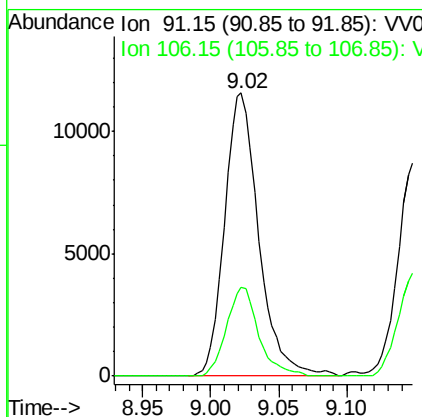
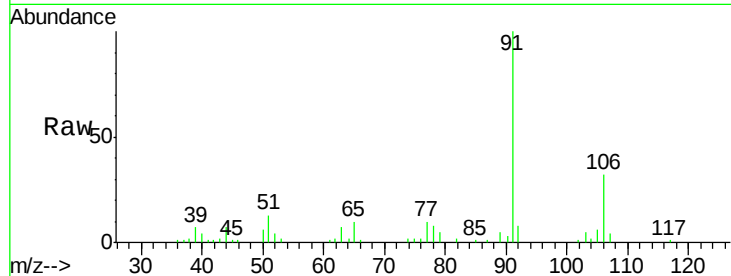
#52
Ethylbenzene
Concen: 0.216 ug/L
RT: 9.02 min Scan# 2467
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion: 91 Resp: 20182
Ion Ratio Lower Upper
91 100
106 31.5 20.9 38.7

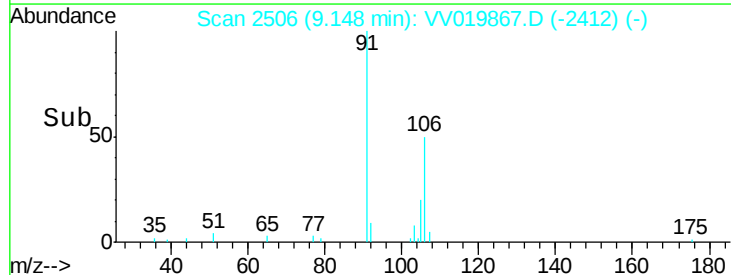
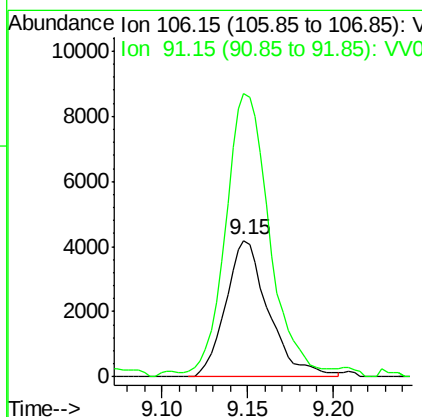
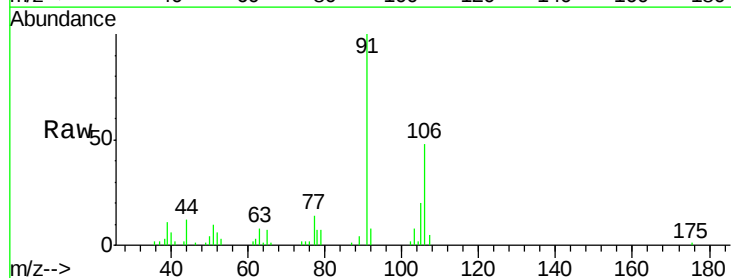
Manual Integrations
APPROVED

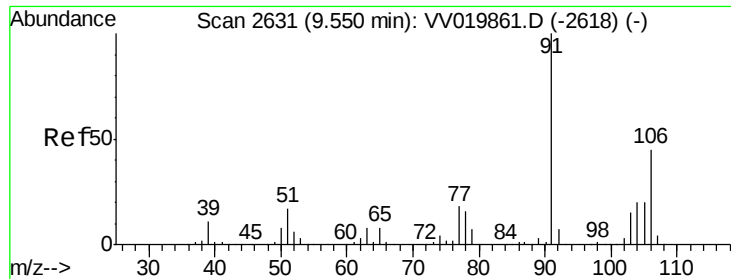
MMDadoda
12/30/2020 6:35:36 PM



#53
m,p-xylene
Concen: 0.214 ug/L
RT: 9.15 min Scan# 2506
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion: 106 Resp: 7293
Ion Ratio Lower Upper
106 100
91 206.9 147.1 273.1





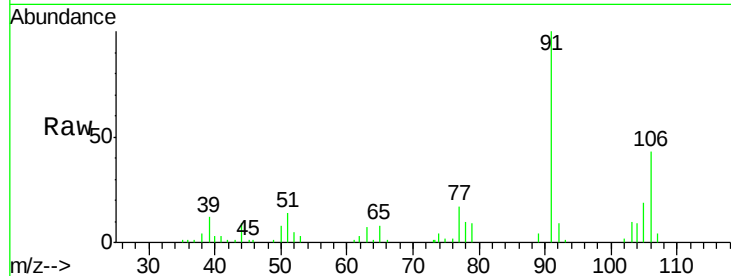
#54
o-xylene
Concen: 0.211 ug/L
RT: 9.55 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

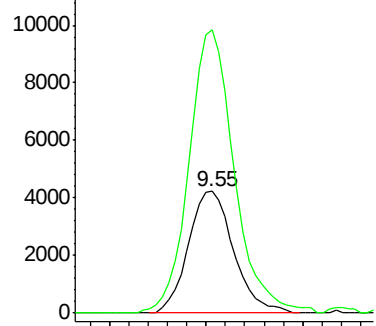
Tot Ion:106 Resp: 6886
Ion Ratio Lower Upper
106 100
91 232.6 155.8 289.3

Manual Integrations
APPROVED

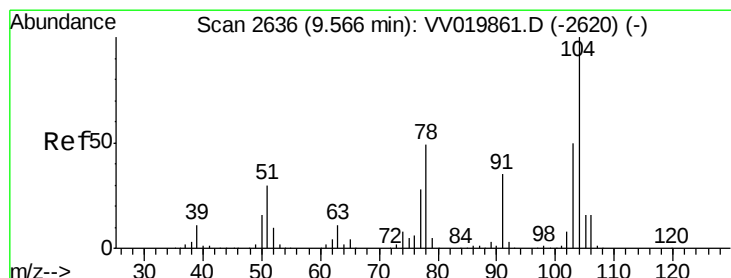
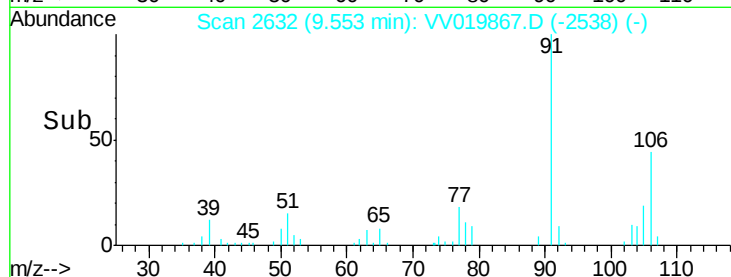
MMDadoda
12/30/2020 6:35:36 PM



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

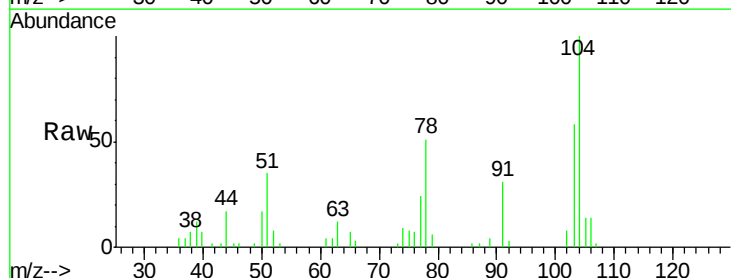


Time-->

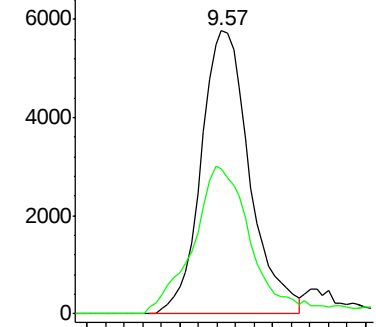


#55
Styrene
Concen: 0.190 ug/L
RT: 9.57 min Scan# 2638
Delta R.T. 0.01 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

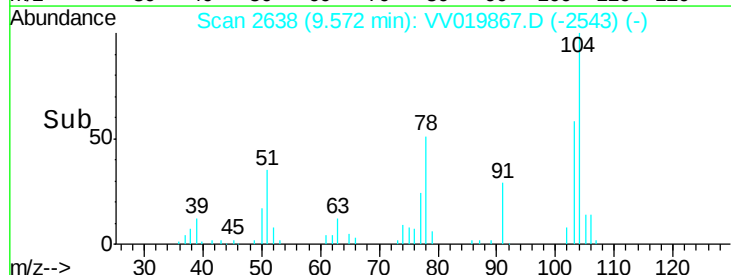
Tgt Ion:104 Resp: 10488
Ion Ratio Lower Upper
104 100
78 51.4 33.7 62.7

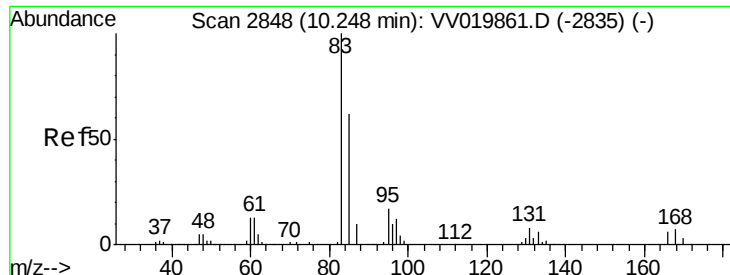


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0



Time-->





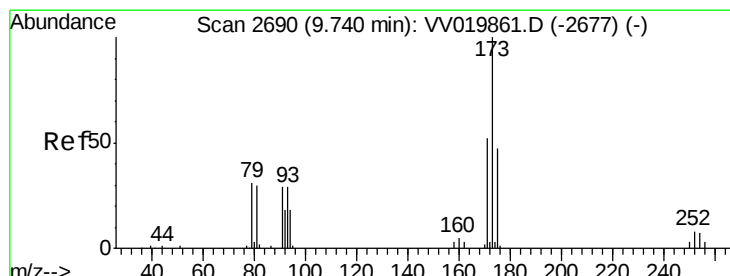
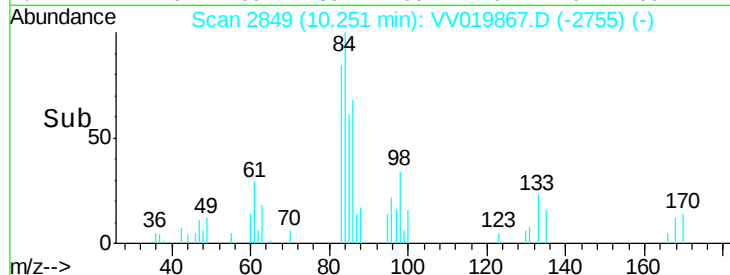
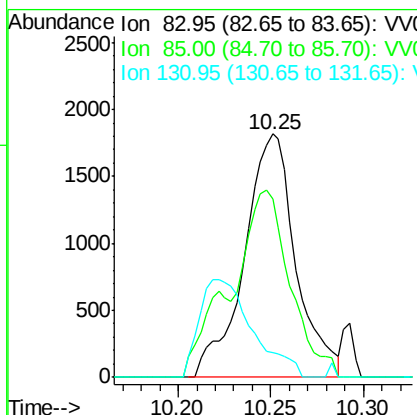
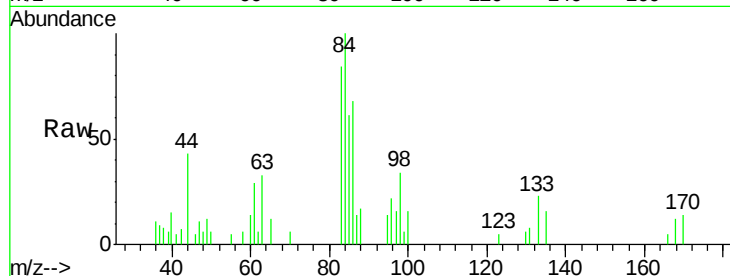
#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.248 ug/L
 RT: 10.25 min Scan# 2849
 Delta R.T. 0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
83	100		
85	73.0	44.3	82.3
131	10.0	7.4	11.2

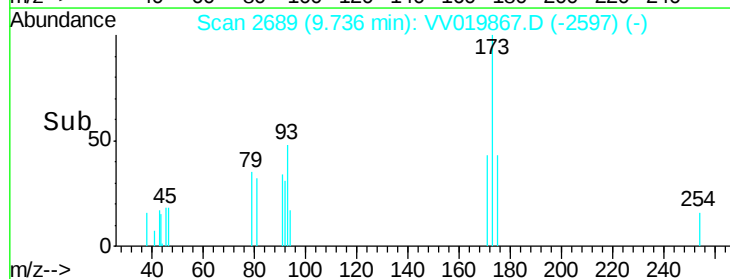
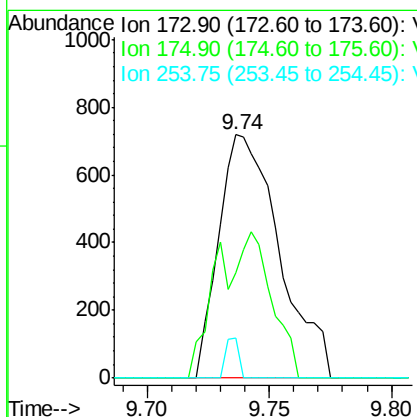
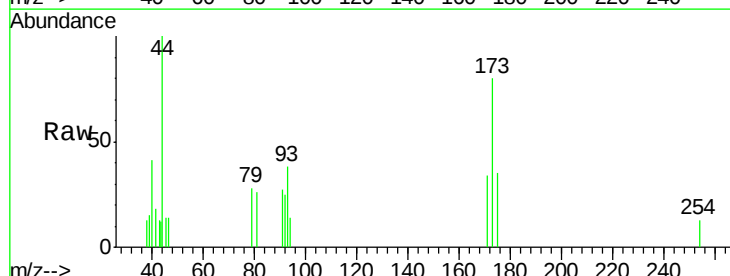
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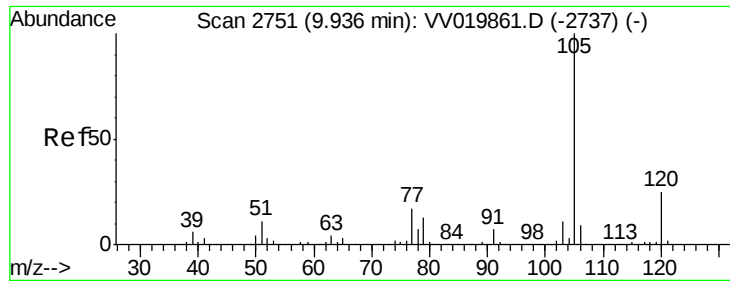
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#59
 Bromoform
 Concen: 0.199 ug/L
 RT: 9.74 min Scan# 2689
 Delta R.T. -0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
173	100		
175	34.8	38.3	57.5#
254	3.6	6.4	9.6#





#60

Isopropylbenzene

Concen: 0.221 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Instrument :

MSVOA_V

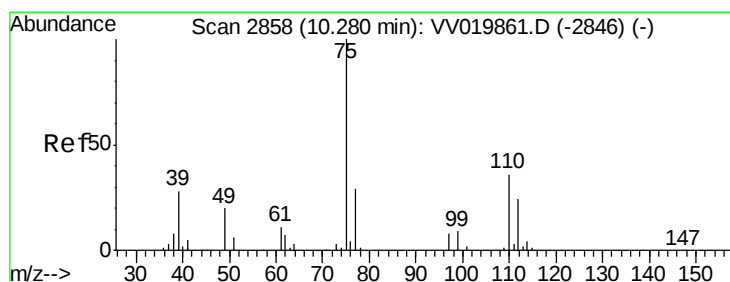
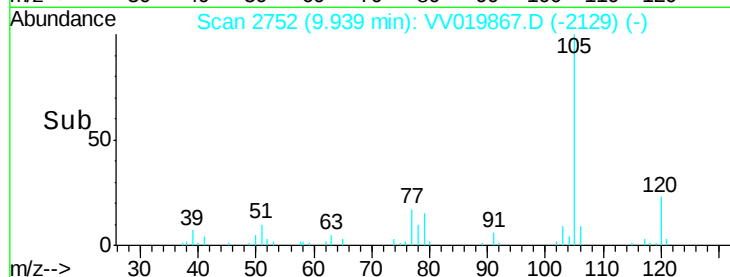
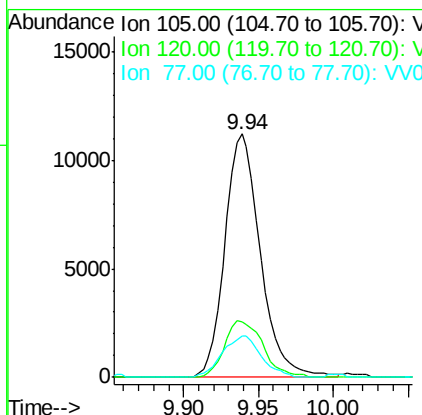
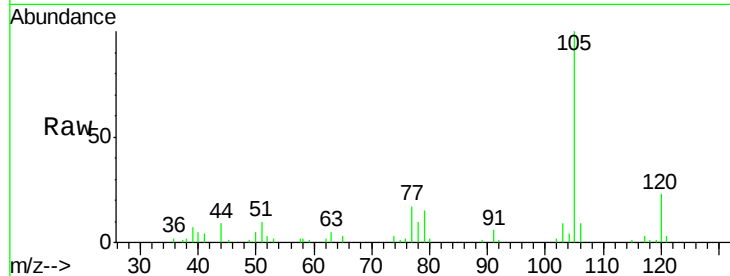
ClientSampleId :

MDL-WATER-02

Tot Ion:	105	Resp:	18535
Ion Ratio	Lower	Upper	
105	100		
120	25.3	20.4	30.6
77	18.7	13.7	20.5

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#61

1,2,3-Trichloropropane

Concen: 0.223 ug/L

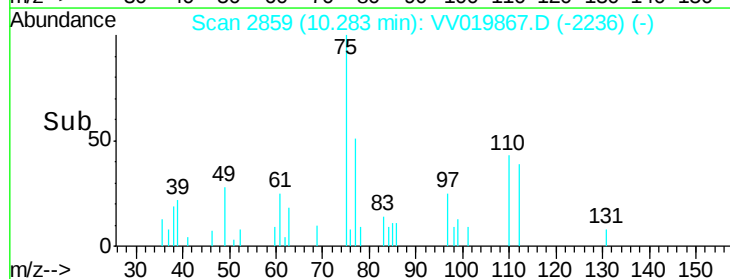
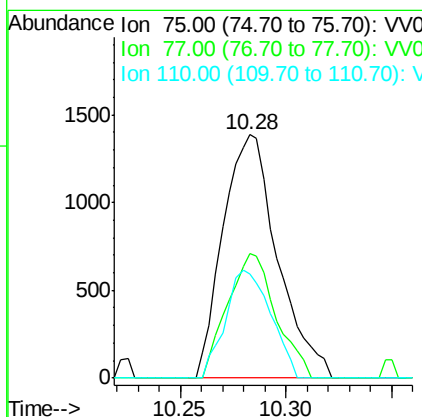
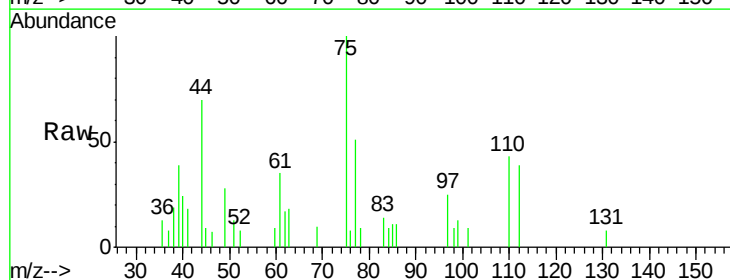
RT: 10.28 min Scan# 2859

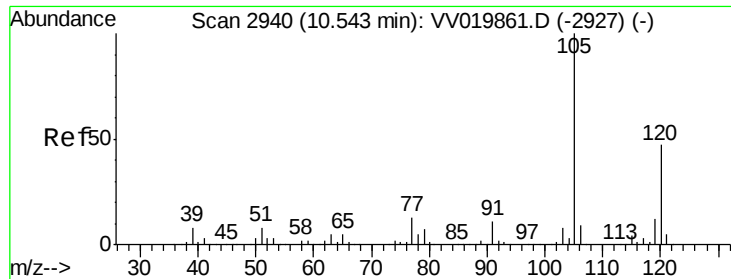
Delta R.T. 0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Tgt Ion:	75	Resp:	2481
Ion Ratio	Lower	Upper	
75	100		
77	45.3	25.6	38.4#
110	36.8	30.5	45.7





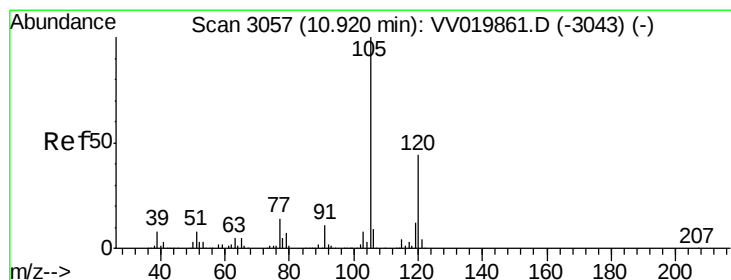
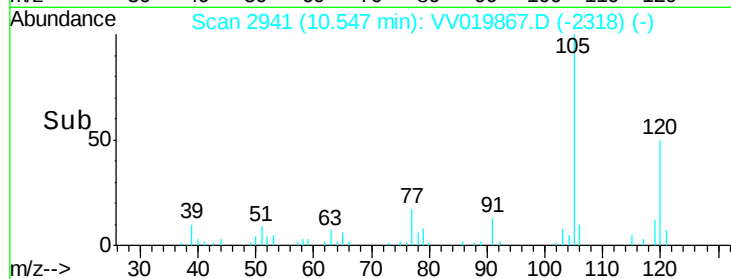
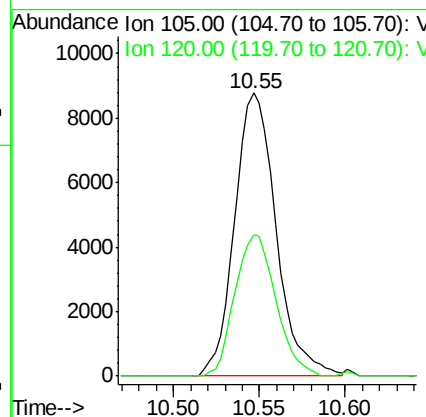
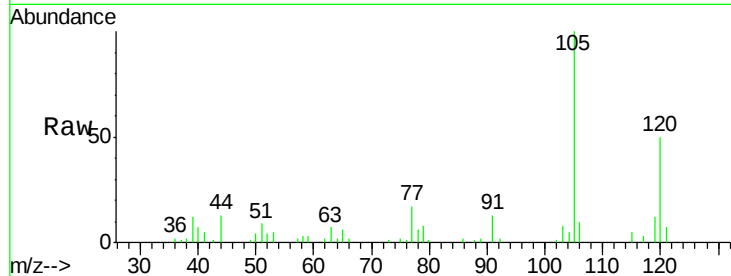
#62
 1,3,5-Trimethylbenzene
 Concen: 0.213 ug/L
 RT: 10.55 min Scan# 2941
 Delta R.T. 0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Tot Ion:105 Resp: 14726
 Ion Ratio Lower Upper
 105 100
 120 49.2 37.8 56.6

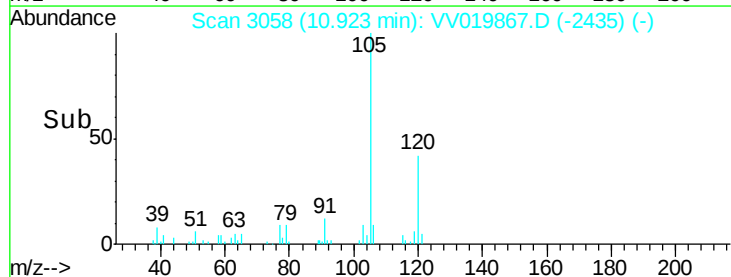
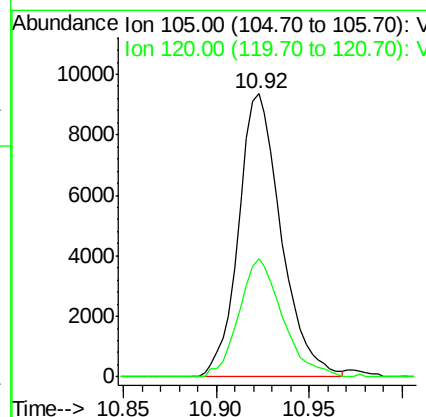
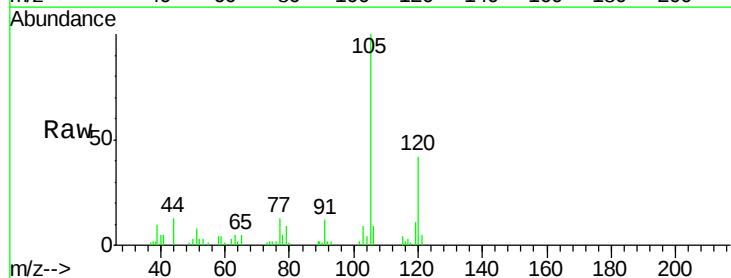
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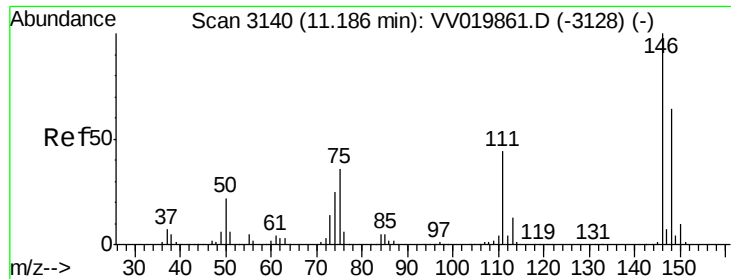
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.212 ug/L
 RT: 10.92 min Scan# 3058
 Delta R.T. 0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Tgt Ion:105 Resp: 14943
 Ion Ratio Lower Upper
 105 100
 120 42.6 34.9 52.3





#64

1,3-Dichlorobenzene

Concen: 0.224 ug/L

RT: 11.19 min Scan# 3142

Delta R.T. 0.01 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Instrument :

MSVOA_V

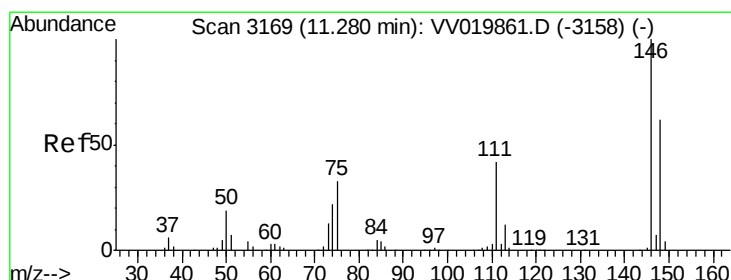
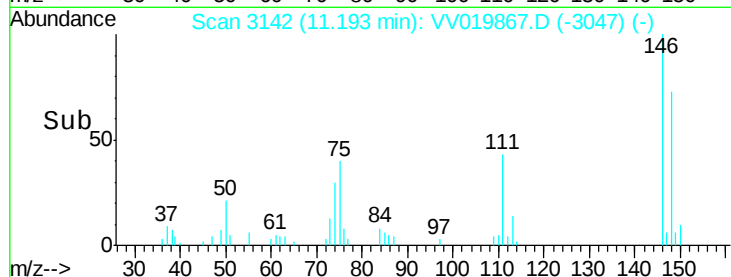
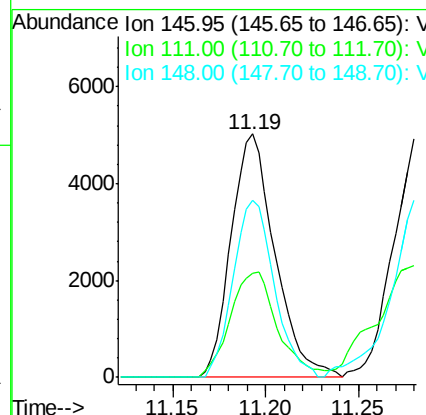
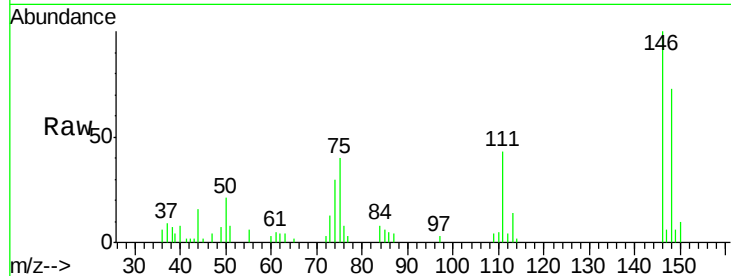
ClientSampleId :

MDL-WATER-02

Tot Ion:	146	Resp:	8241
Ion Ratio	Lower	Upper	
146	100		
111	42.5	30.4	56.5
148	72.7	45.8	85.2

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#65

1,4-Dichlorobenzene

Concen: 0.251 ug/L

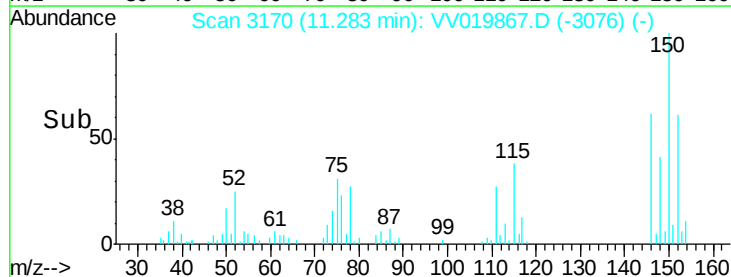
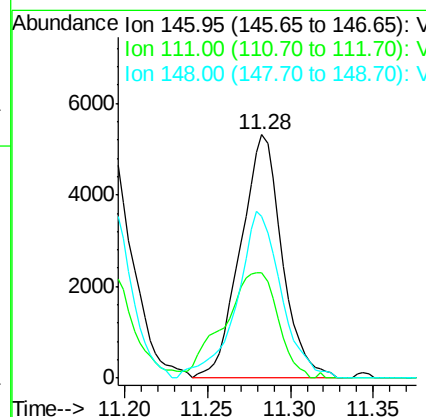
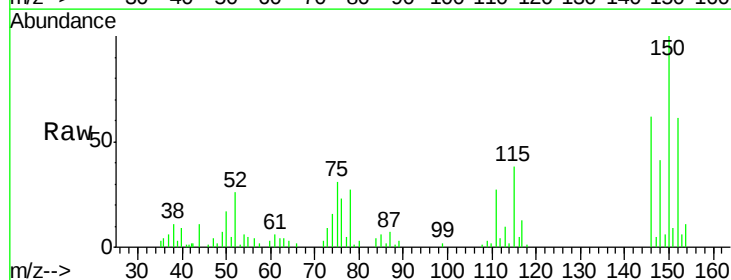
RT: 11.28 min Scan# 3170

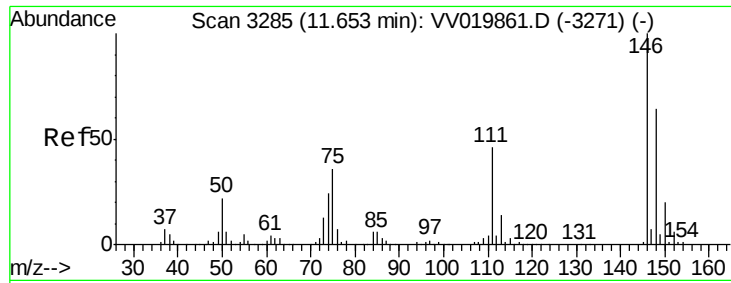
Delta R.T. 0.00 min

Lab File: VV019867.D

Acq: 29 Dec 2020 16:53

Tgt Ion:	146	Resp:	9234
Ion Ratio	Lower	Upper	
146	100		
111	43.2	29.7	55.1
148	66.6	45.1	83.7





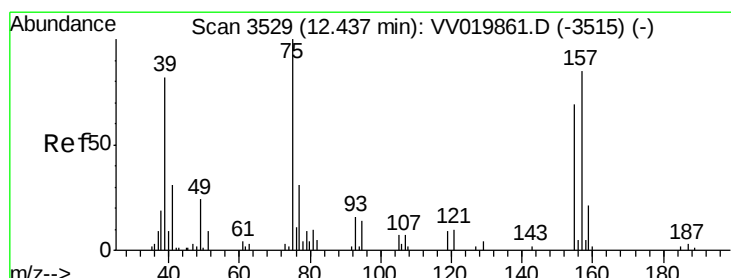
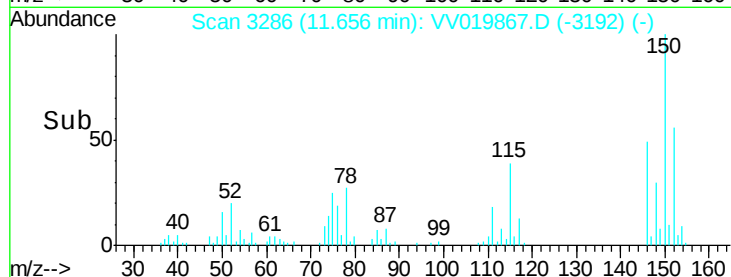
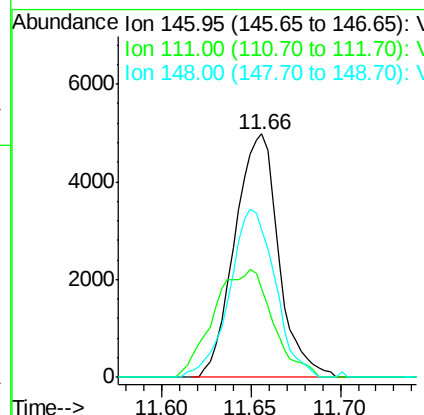
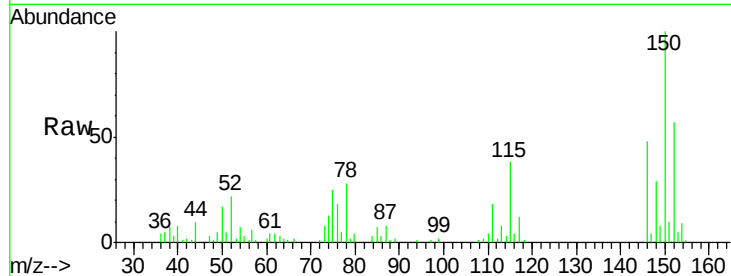
#67
 1,2-Dichlorobenzene
 Concen: 0.252 ug/L
 RT: 11.66 min Scan# 3286
 Delta R.T. 0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.5	37.7	56.5#
148	60.8	50.6	75.8

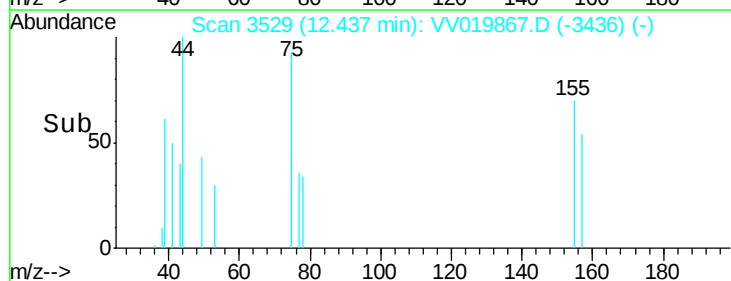
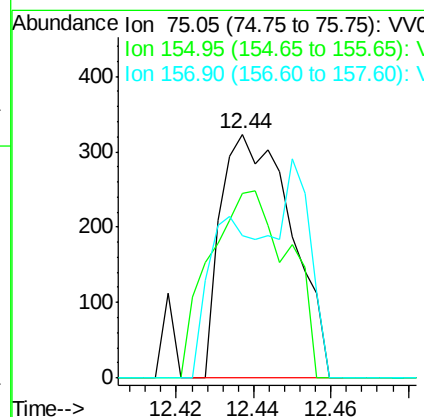
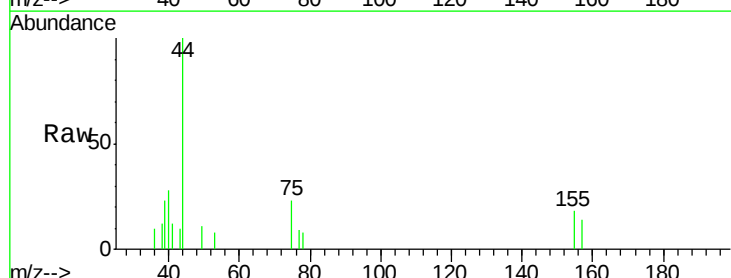
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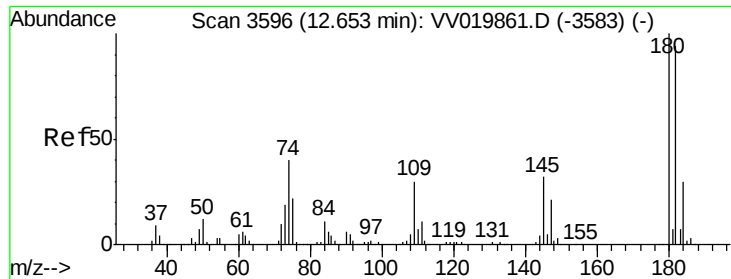
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.179 ug/L
 RT: 12.44 min Scan# 3529
 Delta R.T. -0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.5	56.5	84.7
157	58.5	74.2	111.2#





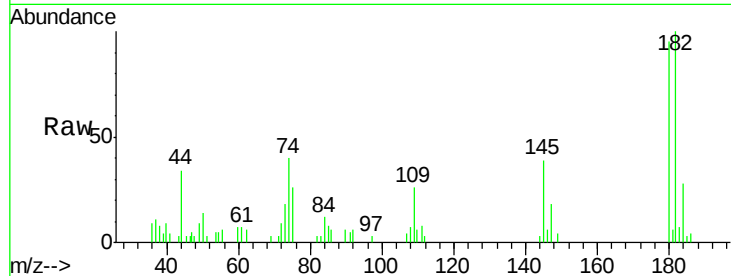
#69
 1,3,5-Trichlorobenzene
 Concen: 0.220 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
180	100		
182	107.7	75.9	113.9
184	32.3	23.5	35.3
145	38.3	26.2	39.2

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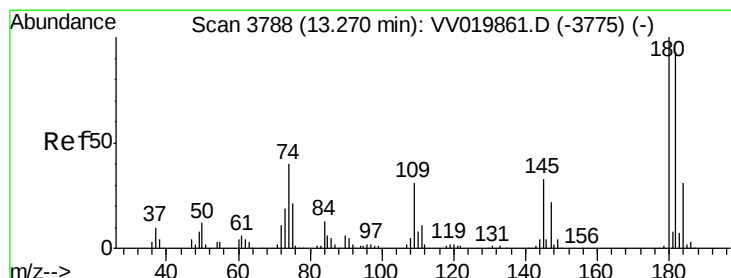
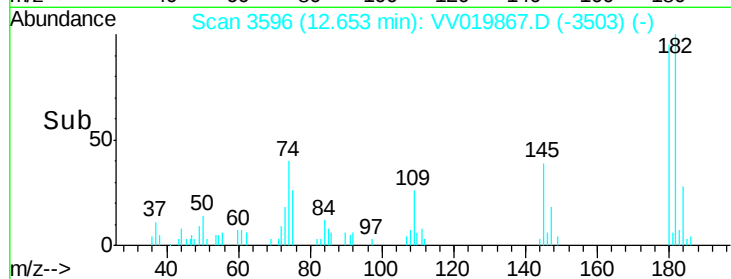
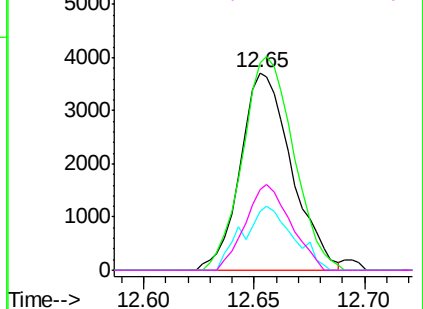
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 0.213 ug/L
 RT: 13.27 min Scan# 3789
 Delta R.T. 0.00 min
 Lab File: VV019867.D
 Acq: 29 Dec 2020 16:53

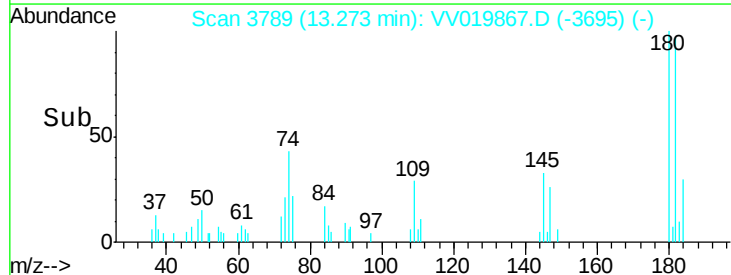
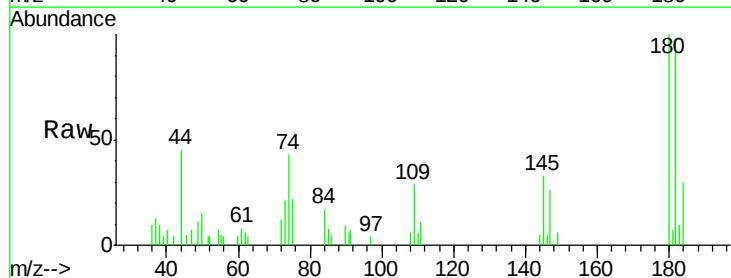
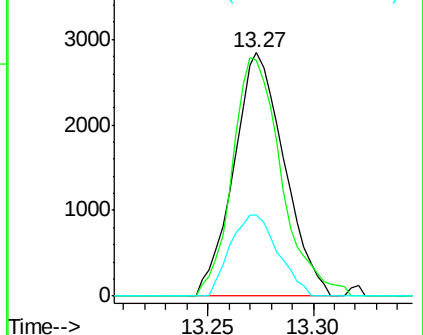
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.9	113.9
145	31.4	26.6	39.8

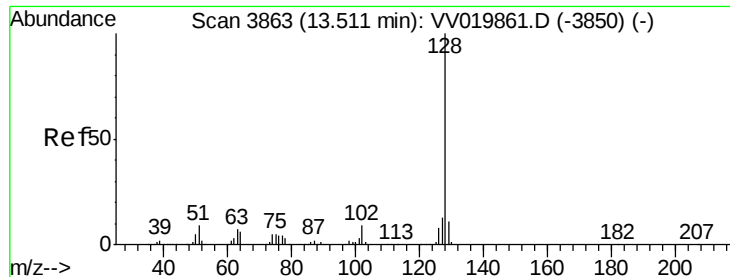
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





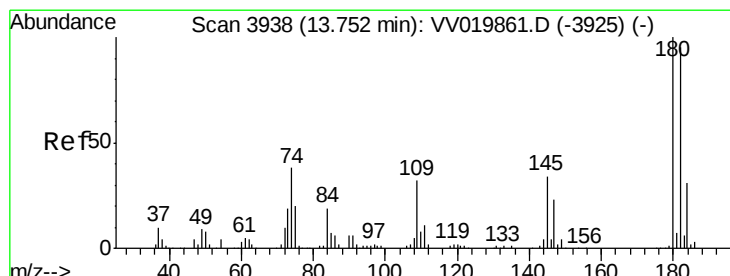
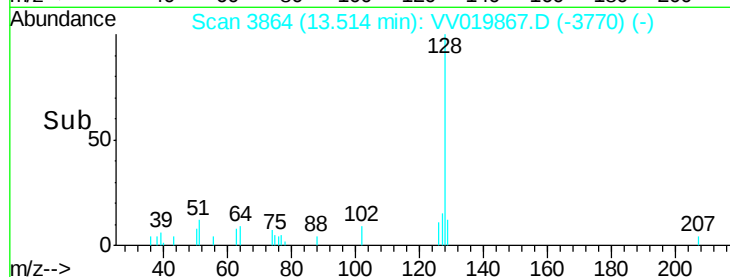
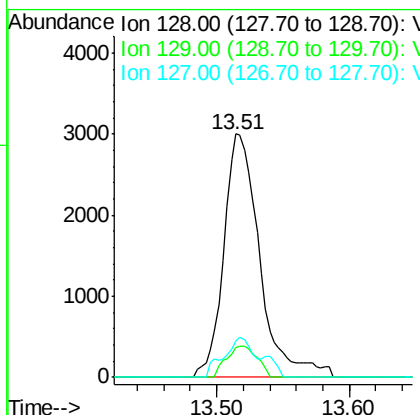
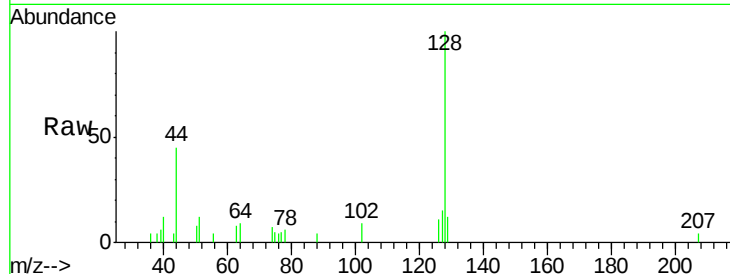
#71
Naphthalene
Concen: 0.170 ug/L
RT: 13.51 min Scan# 3864
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.5	12.7
127	13.5	10.2	15.4

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#72
1,2,3-Trichlorobenzene
Concen: 0.205 ug/L
RT: 13.76 min Scan# 3939
Delta R.T. 0.00 min
Lab File: VV019867.D
Acq: 29 Dec 2020 16:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	74.6	112.0
145	42.0	28.8	43.2

