

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019233.D
 Acq On : 03 Nov 2020 14:01
 Operator : SY/MD
 Sample : L4485-11
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 7:00:23 PM

Quant Time: Nov 04 07:27:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 04 07:03:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	247074	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	237916	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	123733	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	83282	43.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.36%
7) Chloroethane-d5	1.58	69	72697	48.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.30%
11) 1,1-Dichloroethene-d2	2.12	63	137380	38.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.82%
21) 2-Butanone-d5	3.91	46	111751	106.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.29%
24) Chloroform-d	4.37	84	168013	47.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.16%
26) 1,2-Dichloroethane-d4	5.05	65	119391	48.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.02%
32) Benzene-d6	5.07	84	317527	48.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.66%
36) 1,2-Dichloropropane-d6	6.09	67	98415	50.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.34%
41) Toluene-d8	7.34	98	292781	47.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.68%
43) trans-1,3-Dichloropropene-	7.64	79	52851	47.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.18%
47) 2-Hexanone-d5	8.11	63	72385	95.06	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.06%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	120997	46.30	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.60%
66) 1,2-Dichlorobenzene-d4	11.65	152	123418	49.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3765	2.487 ug/L	95
3) Chloromethane	1.25	50	3931	2.494 ug/L	100
5) Vinyl chloride	1.32	62	4518	2.754 ug/L #	69
6) Bromomethane	1.53	94	2856	2.590 ug/L	94
8) Chloroethane	1.60	64	2859	2.664 ug/L	96
9) Trichlorofluoromethane	1.77	101	6909	2.544 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4730	3.665 ug/L #	83
12) 1,1-Dichloroethene	2.13	96	4185	3.138 ug/L #	1
13) Acetone	2.20	43	4972	6.218 ug/L	93
14) Carbon disulfide	2.31	76	9966	2.602 ug/L	99
15) Methyl Acetate	2.45	43	4111	2.654 ug/L #	68
16) Methylene chloride	2.53	84	4545	2.866 ug/L	99
17) trans-1,2-Dichloroethene	2.78	96	3508	2.424 ug/L	93
18) Methyl tert-butyl Ether	2.79	73	11419	2.245 ug/L	98
19) 1,1-Dichloroethane	3.22	63	7078	2.497 ug/L	97
20) cis-1,2-Dichloroethene	3.95	96	4039	2.526 ug/L	95
22) 2-Butanone	4.03	43	4091m	4.031 ug/L	

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Manual Integrations
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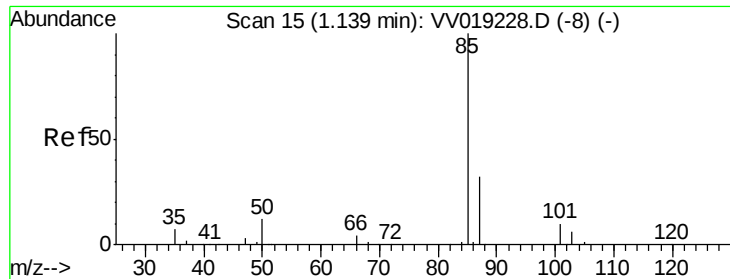
MMDadoda
 11/5/2020 7:00:23 PM

Quant Time: Nov 04 07:27:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

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

23) Bromochloromethane	4.29	128	1918	2.178	ug/L #	91
25) Chloroform	4.40	83	8396	2.762	ug/L	98
27) 1,2-Dichloroethane	5.16	62	6415	2.483	ug/L #	94
29) Cyclohexane	4.70	56	5071	2.491	ug/L #	93
30) 1,1,1-Trichloroethane	4.64	97	6421	2.327	ug/L	97
31) Carbon tetrachloride	4.85	117	5718m	2.400	ug/L	
33) Benzene	5.13	78	14096	2.384	ug/L	100
34) Trichloroethene	5.94	95	3899	2.427	ug/L	96
35) Methylcyclohexane	6.15	83	5123	2.634	ug/L	97
37) 1,2-Dichloropropane	6.20	63	3891	2.466	ug/L #	84
38) Bromodichloromethane	6.54	83	5450	2.400	ug/L	98
39) cis-1,3-Dichloropropene	7.06	75	6263	2.480	ug/L	100
40) 4-Methyl-2-pentanone	7.25	43	8970	4.231	ug/L	97
42) Toluene	7.41	91	17874	2.797	ug/L	97
44) trans-1,3-Dichloropropene	7.68	75	6310	2.439	ug/L	97
45) 1,1,2-Trichloroethane	7.86	97	3658	2.345	ug/L	98
46) Tetrachloroethene	8.00	164	3391	2.586	ug/L	92
48) 2-Hexanone	8.16	43	9995	6.236	ug/L #	90
49) Dibromochloromethane	8.27	129	4100	2.204	ug/L	91
50) 1,2-Dibromoethane	8.38	107	3914	2.421	ug/L #	90
51) Chlorobenzene	8.91	112	10285	2.406	ug/L	96
52) Ethylbenzene	9.04	91	16261	2.306	ug/L	97
53) m,p-Xylene	9.16	106	6099	2.310	ug/L	86
54) o-Xylene	9.57	106	5686	2.185	ug/L	94
55) Styrene	9.59	104	9257	1.999	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.26	83	5574	2.362	ug/L #	92
59) Bromoform	9.75	173	2902	2.113	ug/L	98
60) Isopropylbenzene	9.95	105	14459	2.230	ug/L	100
61) 1,2,3-Trichloropropane	10.30	75	4939	2.569	ug/L #	94
62) 1,3,5-Trimethylbenzene	10.56	105	11599	2.147	ug/L	96
63) 1,2,4-Trimethylbenzene	10.94	105	11687	2.211	ug/L	98
64) 1,3-Dichlorobenzene	11.21	146	8334	2.457	ug/L	96
65) 1,4-Dichlorobenzene	11.29	146	9263	2.640	ug/L	96
67) 1,2-Dichlorobenzene	11.66	146	8757	2.523	ug/L	93
68) 1,2-Dibromo-3-chloropropan	12.45	75	1248	2.225	ug/L #	81
69) 1,3,5-Trichlorobenzene	12.67	180	5987	2.459	ug/L	97
70) 1,2,4-trichlorobenzene	13.29	180	5055	2.207	ug/L	97
71) Naphthalene	13.53	128	9458	1.464	ug/L	98
72) 1,2,3-Trichlorobenzene	13.77	180	4673	2.058	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.487 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-04

Tot Ion: 85 Resp: 3765

Ion Ratio Lower Upper

85 100

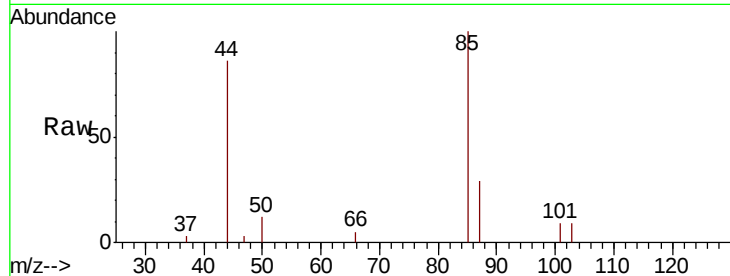
87 29.8 25.9 38.9

Manual Integrations

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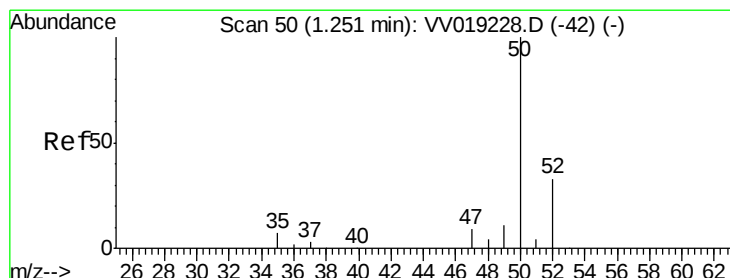
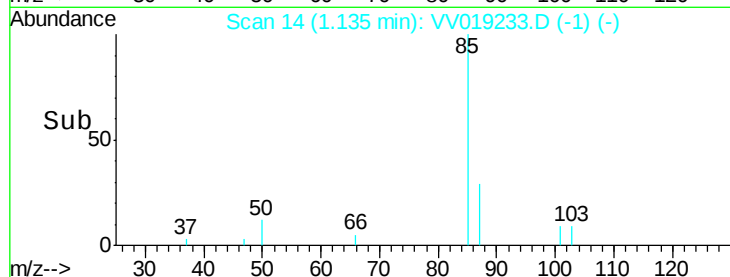
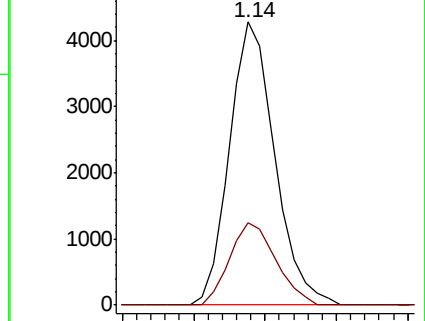
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.494 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019233.D

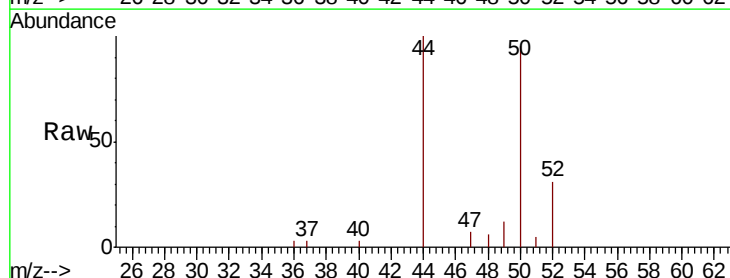
Acq: 03 Nov 2020 14:01

Tgt Ion: 50 Resp: 3931

Ion Ratio Lower Upper

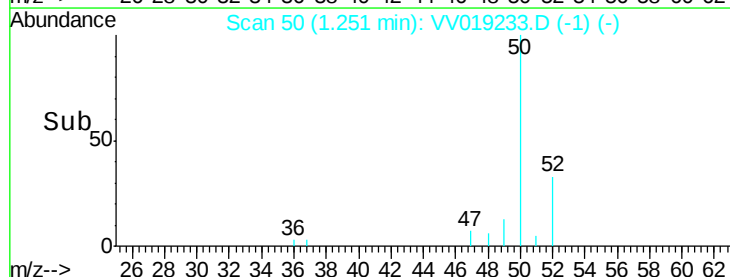
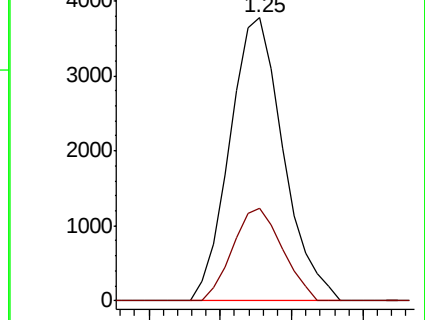
50 100

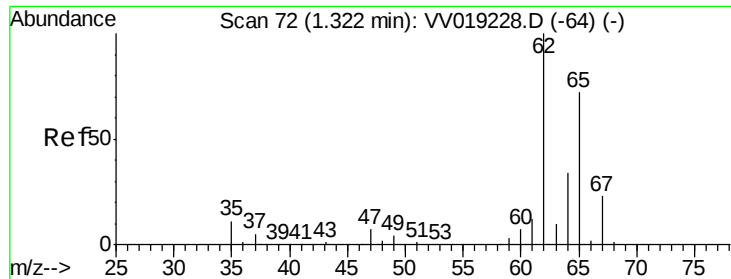
52 32.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.754 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-04

Tot Ion: 62 Resp: 4518

Ion Ratio Lower Upper

62 100

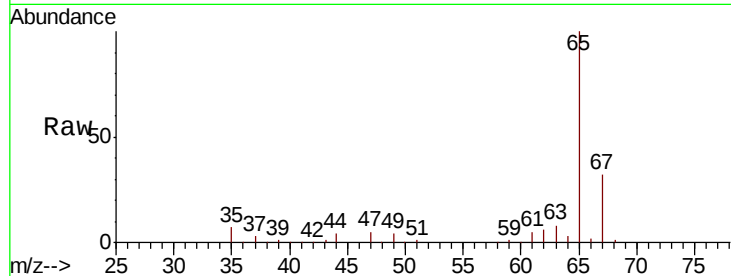
64 51.0 23.3 43.3#

Manual Integrations

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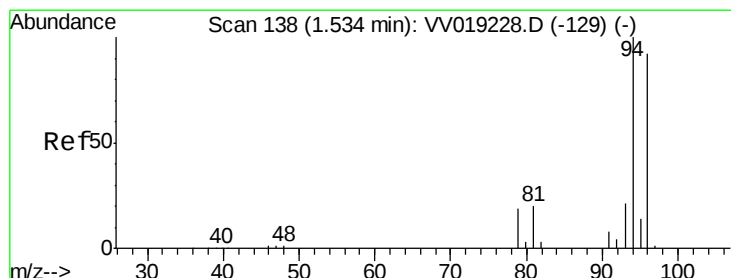
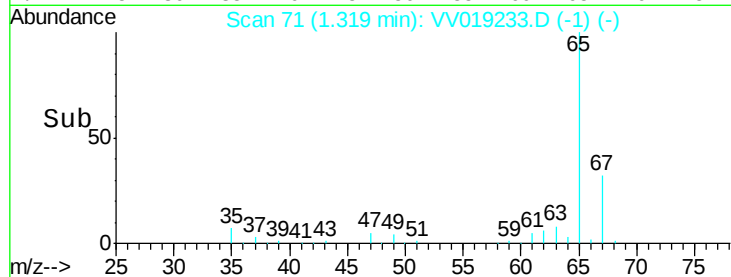
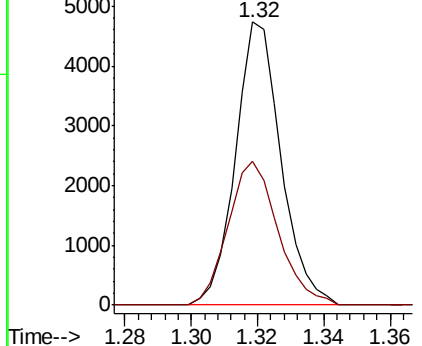
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.590 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019233.D

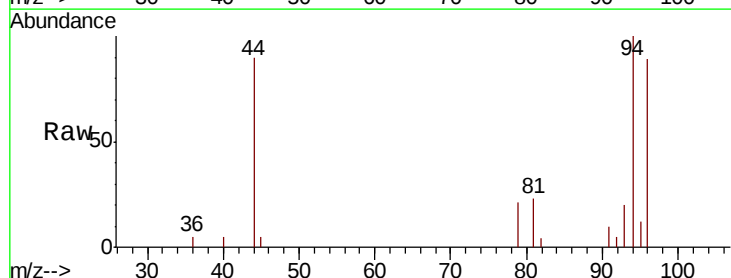
Acq: 03 Nov 2020 14:01

Tgt Ion: 94 Resp: 2856

Ion Ratio Lower Upper

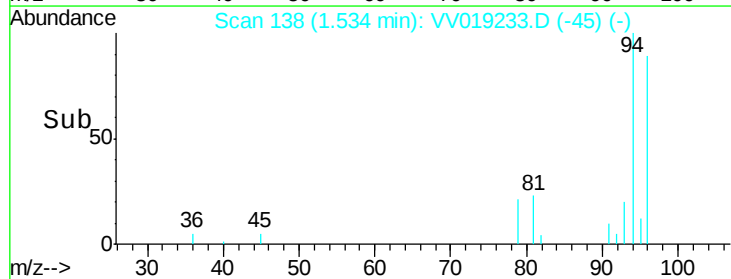
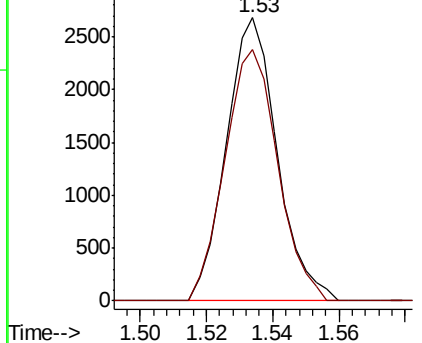
94 100

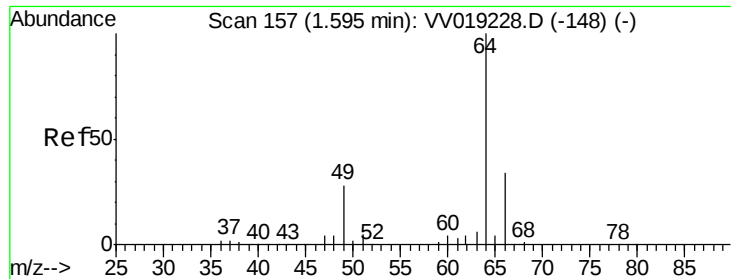
96 88.9 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.664 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-04

Tot Ion: 64 Resp: 2859

Ion Ratio Lower Upper

64 100

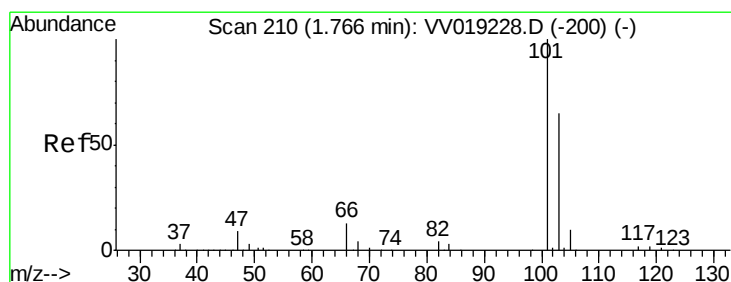
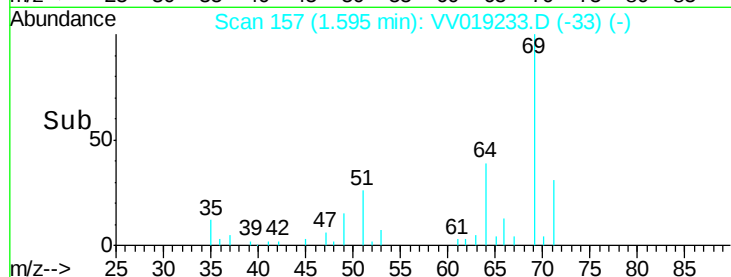
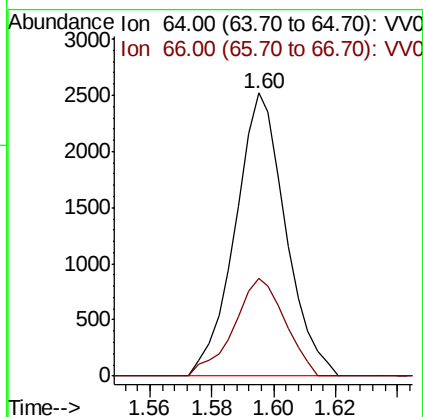
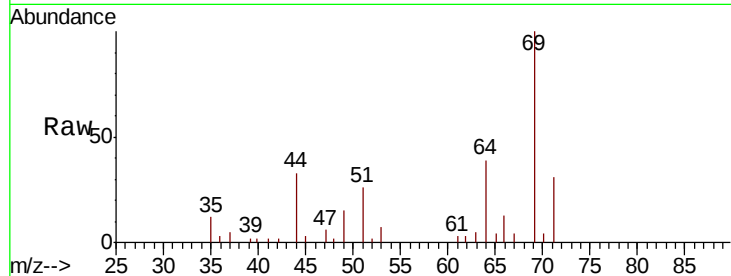
66 34.4 22.5 41.9

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.544 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV019233.D

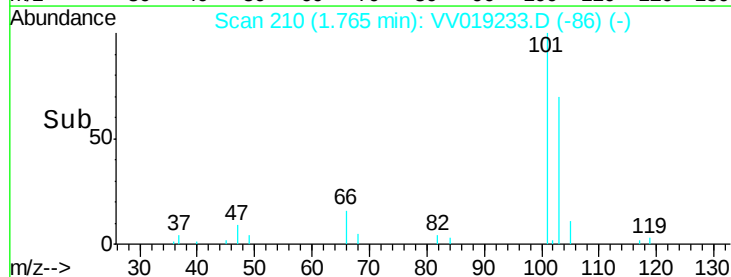
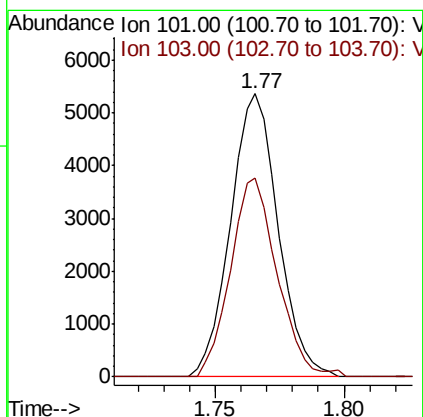
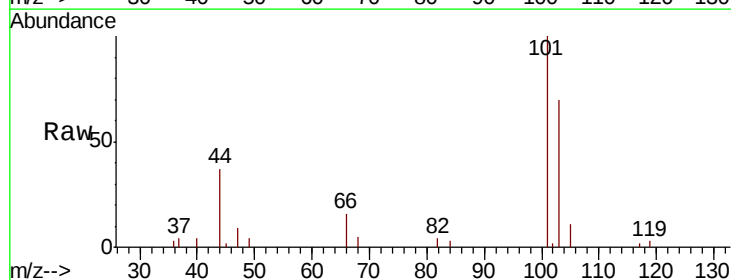
Acq: 03 Nov 2020 14:01

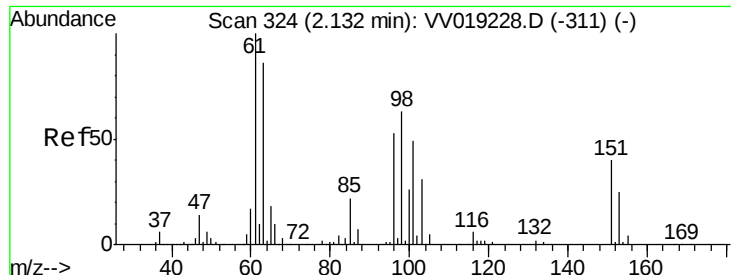
Tgt Ion: 101 Resp: 6909

Ion Ratio Lower Upper

101 100

103 68.2 52.3 78.5





#10

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

Concen: 3.665 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

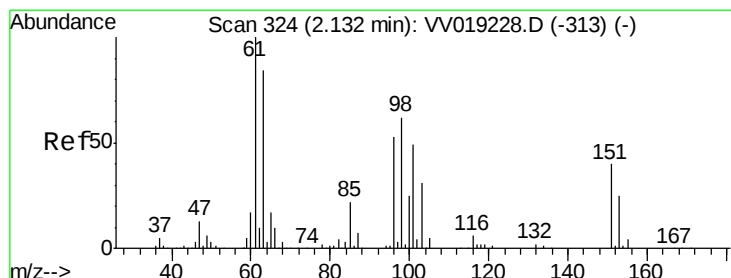
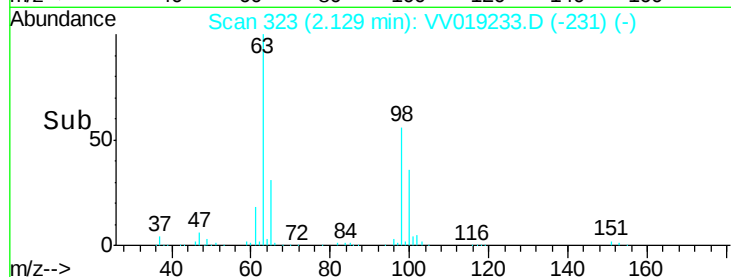
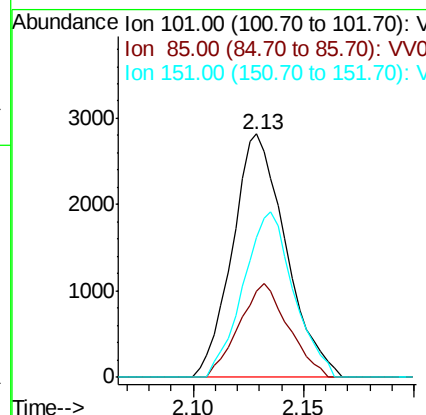
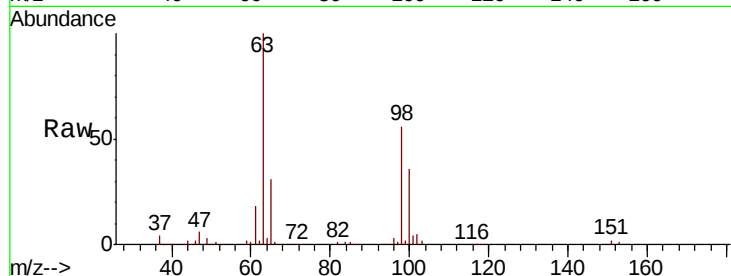
ClientSampleId :

MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
101	100		
85	35.5	35.6	53.4#
151	64.2	64.1	96.1

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.138 ug/L

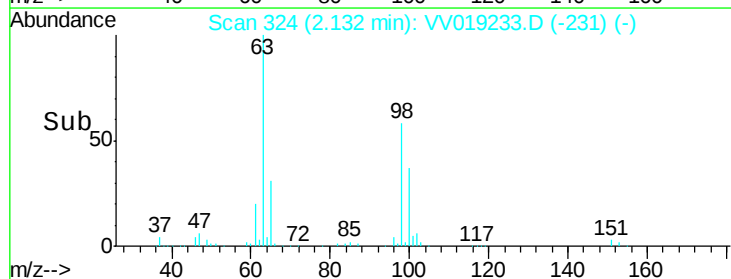
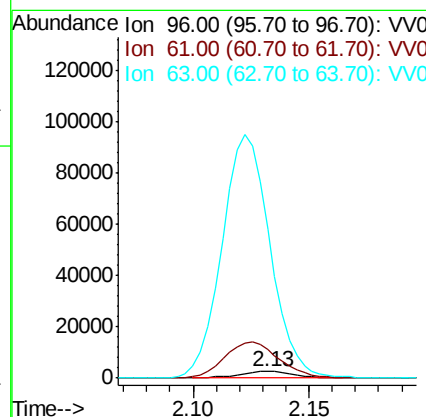
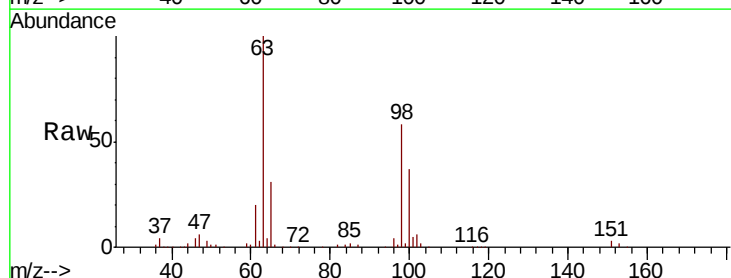
RT: 2.13 min Scan# 324

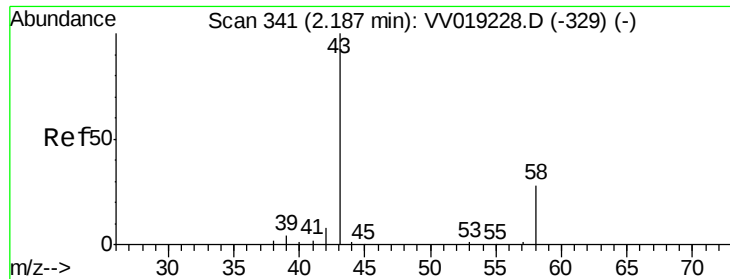
Delta R.T. -0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	436.2	133.6	248.0#
63	2236.5	103.0	191.2#





#13

Acetone

Concen: 6.218 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-04

Tot Ion: 43 Resp: 4972

Ion Ratio Lower Upper

43 100

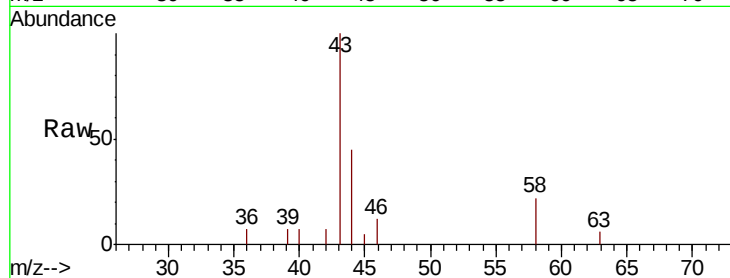
58 24.9 0.0 57.8

Manual Integrations

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11/5/2020 7:00:23 PM



Abundance Ion 43.00 (42.70 to 43.70): VV019228.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV019228.D (-329) (-)

2500

2000

1500

1000

500

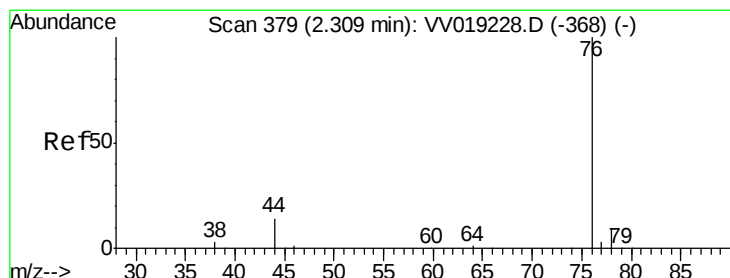
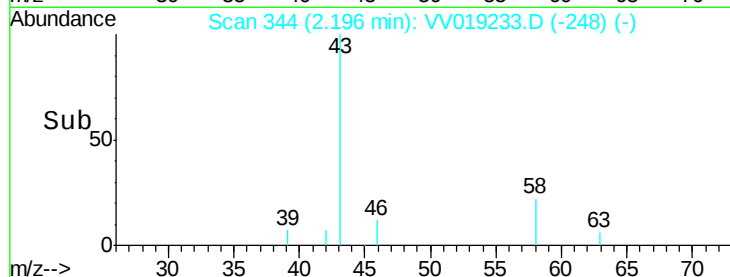
0

2.15

2.20

2.25

Time-->



#14

Carbon disulfide

Concen: 2.602 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019233.D

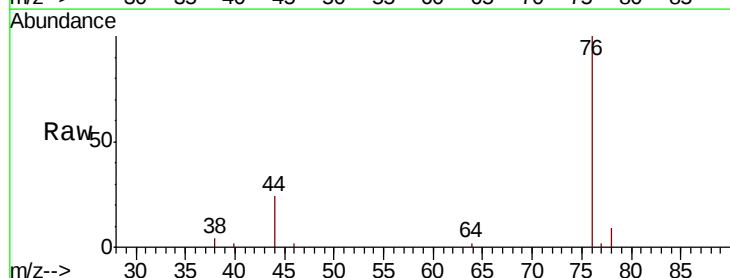
Acq: 03 Nov 2020 14:01

Tgt Ion: 76 Resp: 9966

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019228.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019228.D (-368) (-)

8000

6000

4000

2000

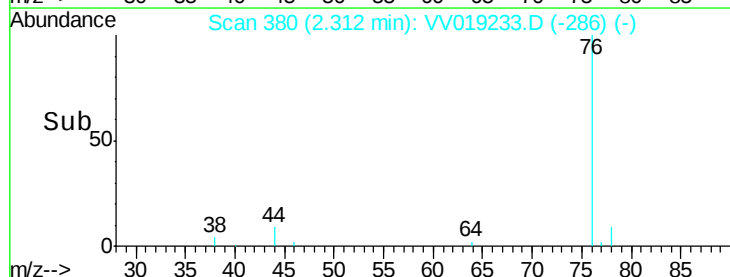
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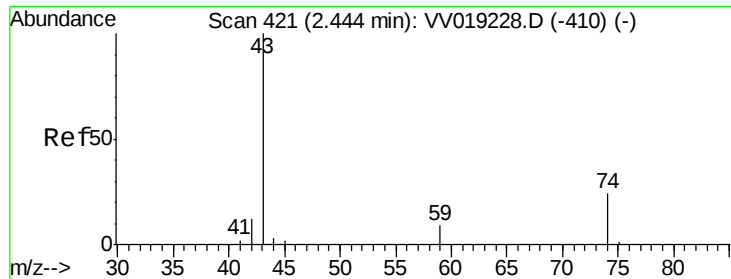
2.25

2.30

2.35

Time-->





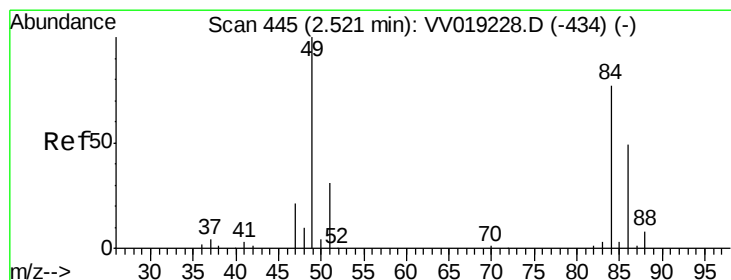
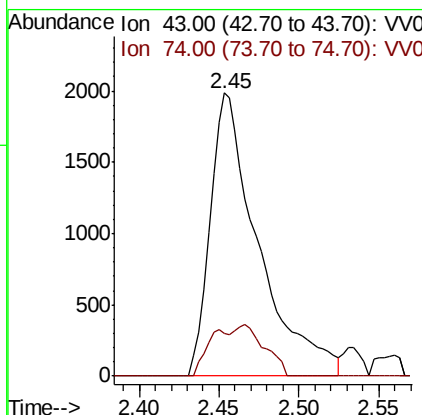
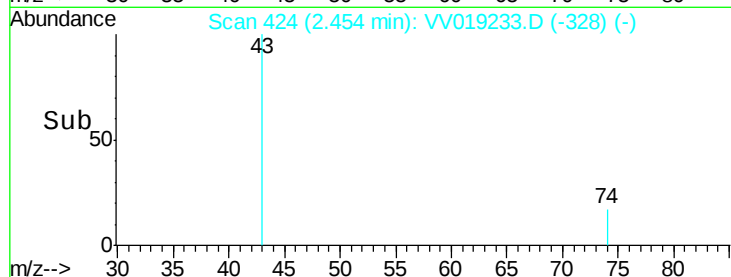
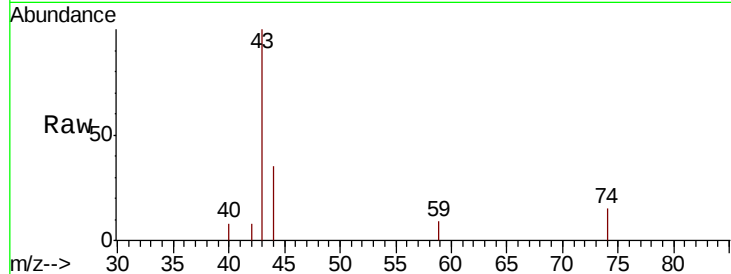
#15
Methvl Acetate
Concen: 2.654 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion: 43 Resp: 4111
Ion Ratio Lower Upper
43 100
74 8.1 18.8 28.2#

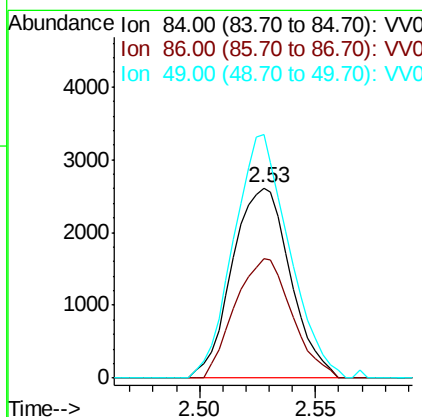
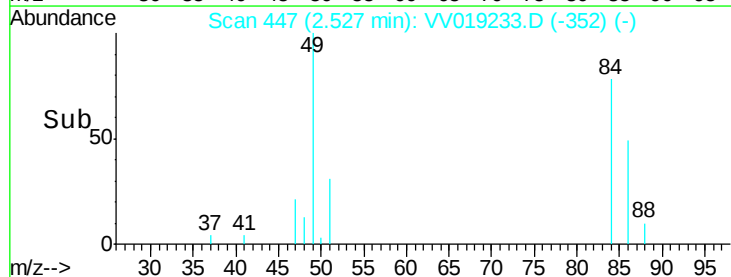
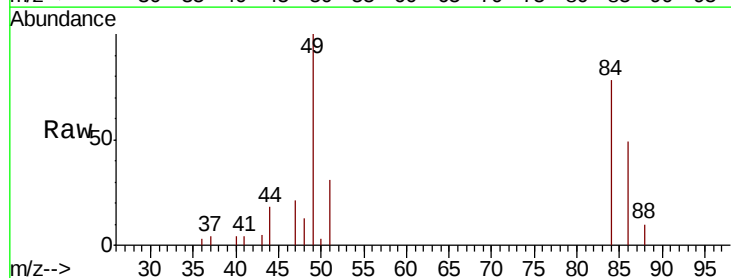
Manual Integrations
APPROVED

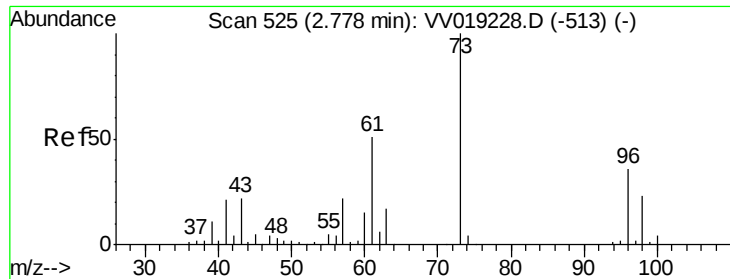
MMDadoda
11/5/2020 7:00:23 PM



#16
Methylene chloride
Concen: 2.866 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion: 84 Resp: 4545
Ion Ratio Lower Upper
84 100
86 62.8 45.6 84.8
49 128.1 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.424 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

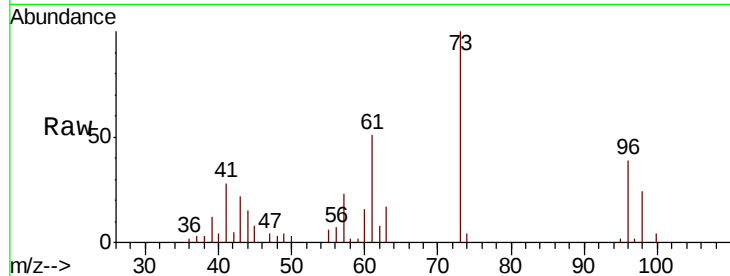
ClientSampleId :

MDL-WATER-04

Tot Ion:	96	Resp:	3508
Ion	Ratio	Lower	Upper
96	100		
61	132.3	100.7	187.1
98	62.0	42.9	79.7

Manual Integrations
APPROVED

MMDadoda
11/5/2020 7:00:23 PM

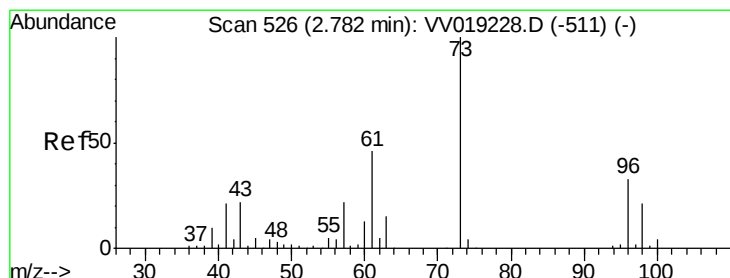
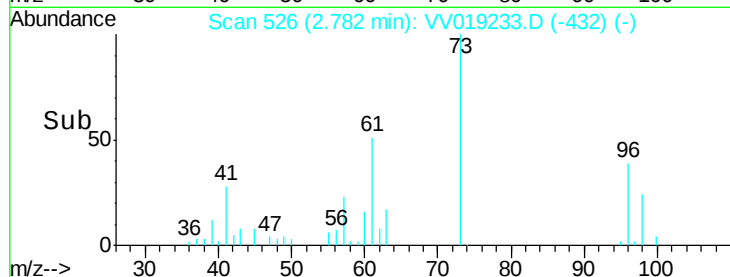


Abundance Ion 96.00 (95.70 to 96.70): VV019228.D (-513) (-)

Ion 61.00 (60.70 to 61.70): VV019228.D (-513) (-)

Ion 98.00 (97.70 to 98.70): VV019228.D (-513) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 2.245 ug/L

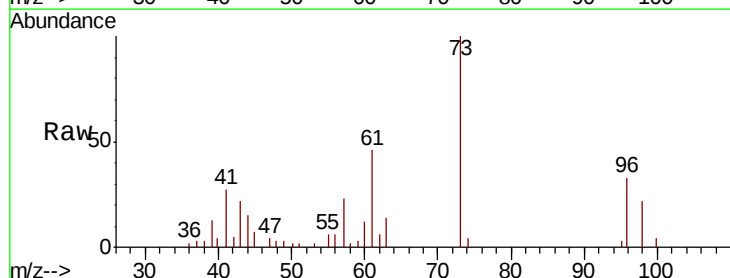
RT: 2.79 min Scan# 528

Delta R.T. 0.01 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Tgt Ion:	73	Resp:	11419
Ion	Ratio	Lower	Upper
73	100		
43	23.0	17.9	26.9
57	22.3	17.1	25.7

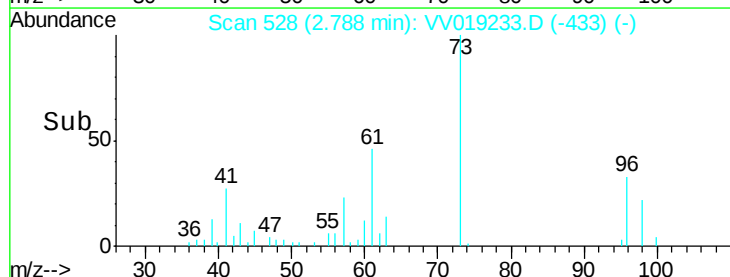


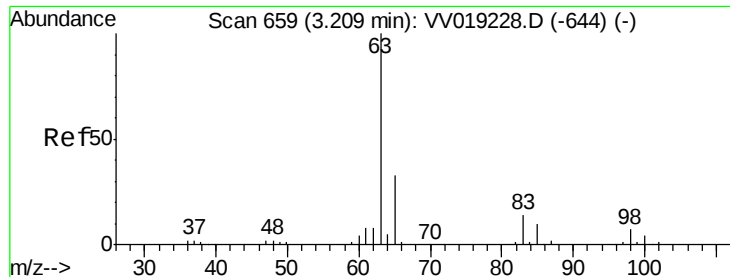
Abundance Ion 73.00 (72.70 to 73.70): VV019228.D (-511) (-)

Ion 43.00 (42.70 to 43.70): VV019228.D (-511) (-)

Ion 57.00 (56.70 to 57.70): VV019228.D (-511) (-)

Time-->





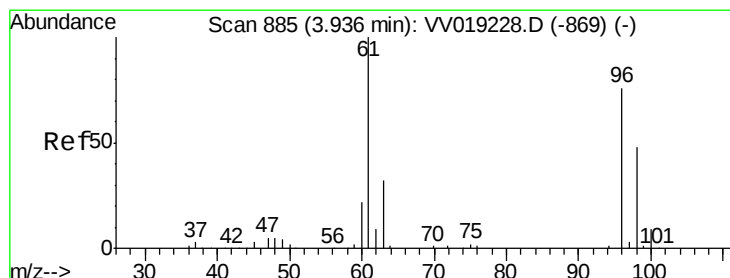
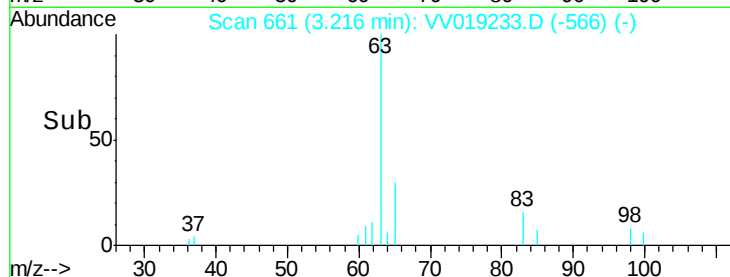
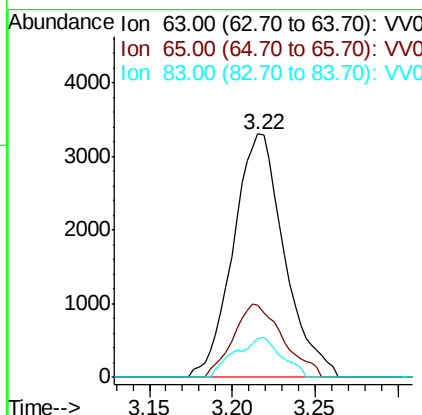
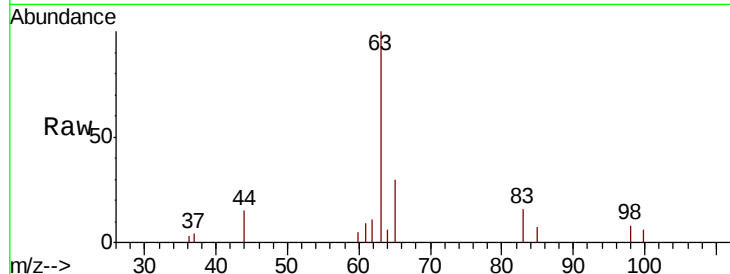
#19
 1,1-Dichloroethane
 Concen: 2.497 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.7	21.8	40.6
83	15.8	9.5	17.7

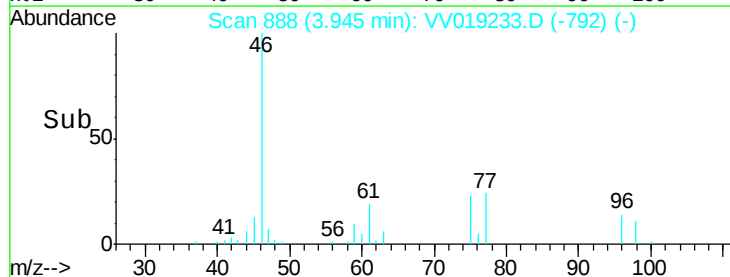
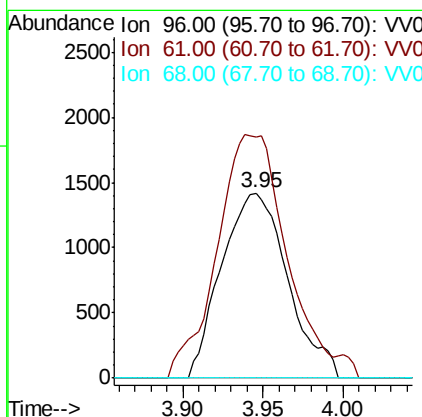
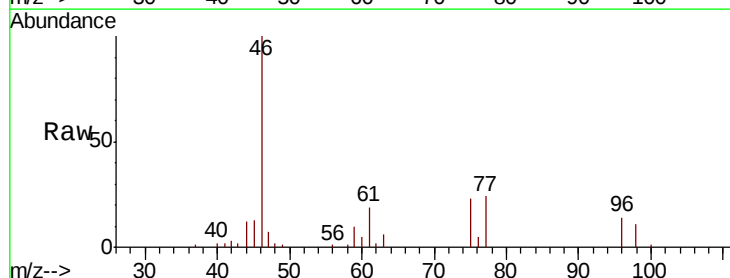
Manual Integrations
 APPROVED

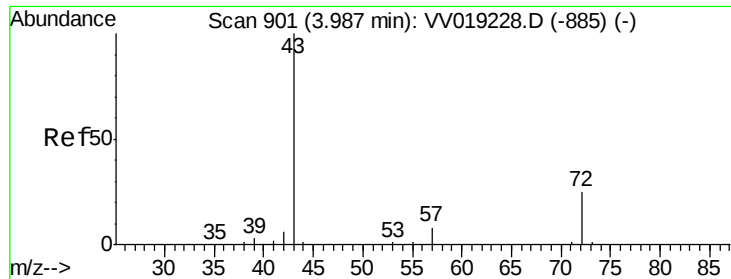
MMDadoda
 11/5/2020 7:00:23 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.526 ug/L
 RT: 3.95 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.2	95.6	177.6
68	0.0	0.0	0.0





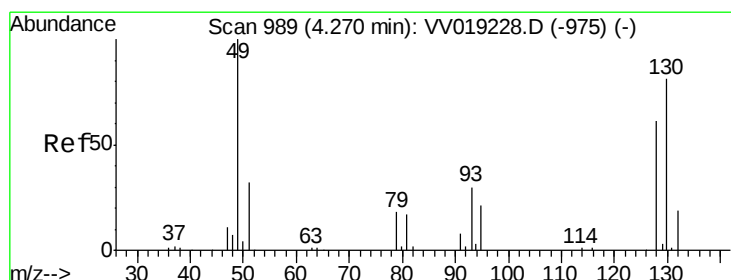
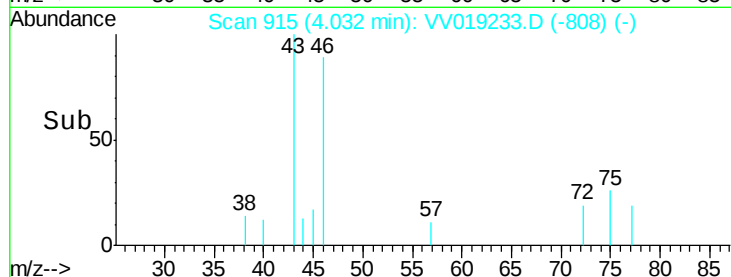
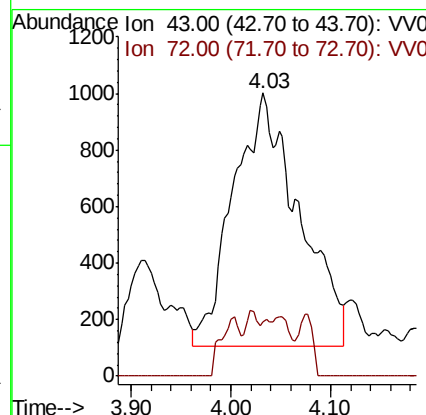
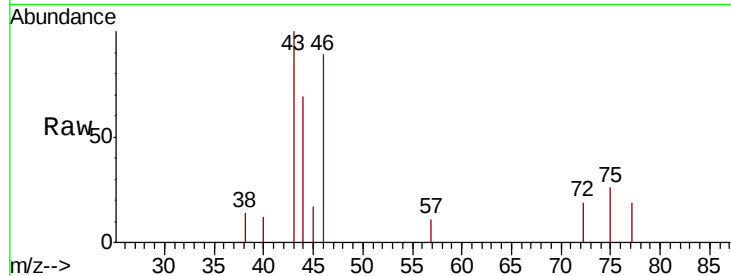
#22
2-Butanone
Concen: 4.031 ug/L m
RT: 4.03 min Scan# 915
Delta R.T. 0.04 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion: 43 Resp: 4091
Ion Ratio Lower Upper
43 100
72 1.8 12.7 38.0#

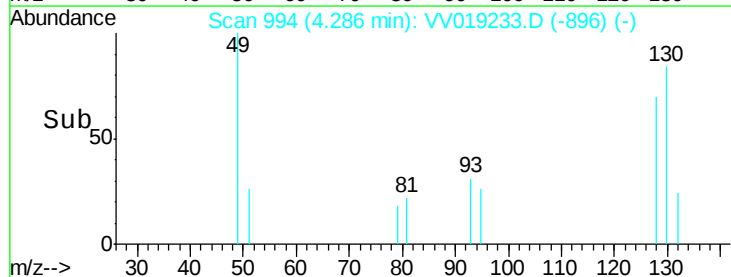
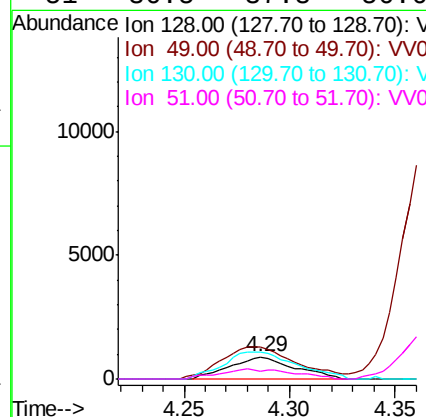
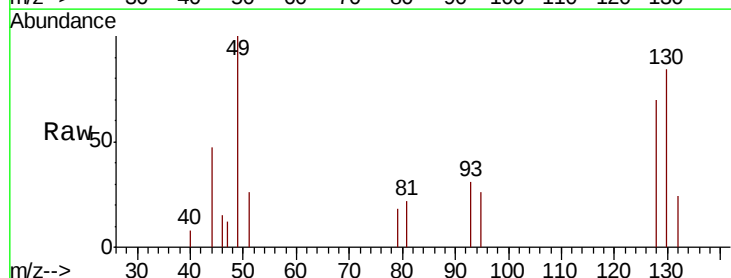
Manual Integrations
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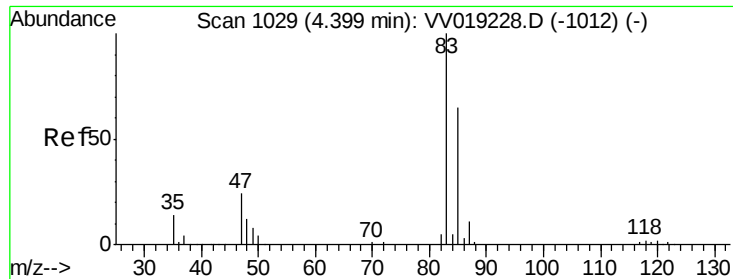
MMDadoda
11/5/2020 7:00:23 PM



#23
Bromochloromethane
Concen: 2.178 ug/L
RT: 4.29 min Scan# 994
Delta R.T. 0.02 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion: 128 Resp: 1918
Ion Ratio Lower Upper
128 100
49 142.4 108.8 202.2
130 119.4 88.5 164.3
51 36.5 37.8 56.6#





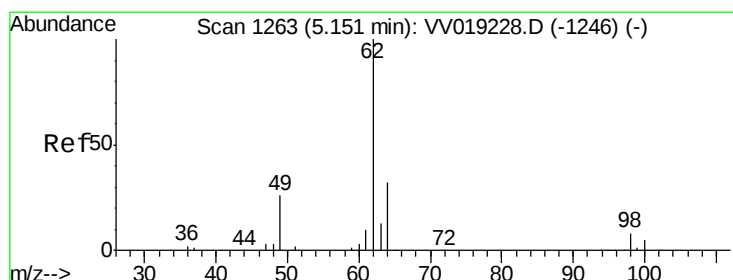
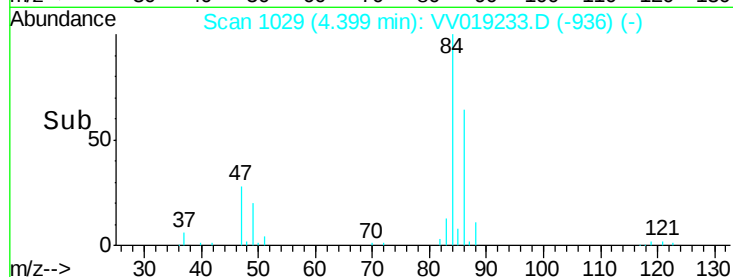
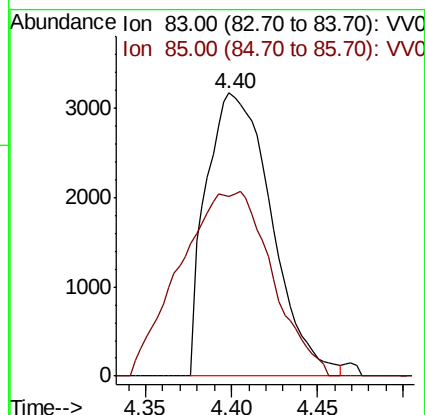
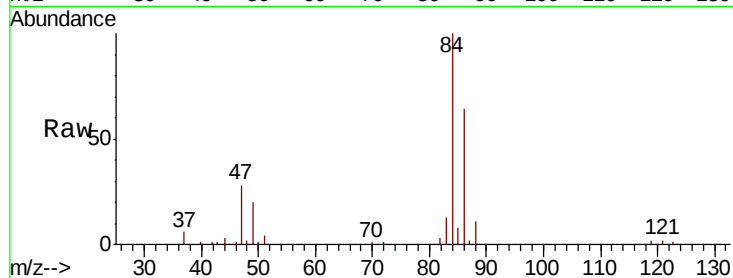
#25
Chloroform
Concen: 2.762 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion: 83 Resp: 8396
Ion Ratio Lower Upper
83 100
85 63.4 45.4 84.4

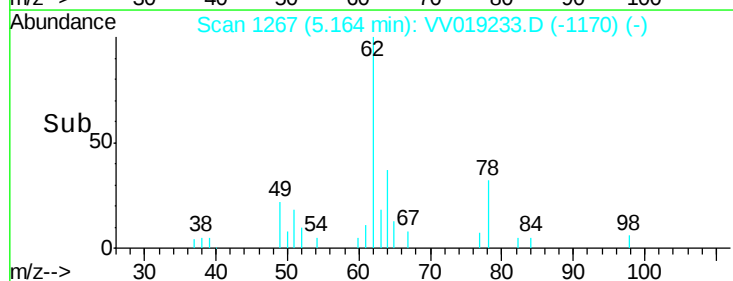
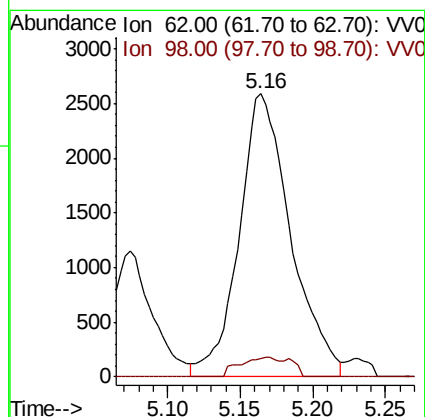
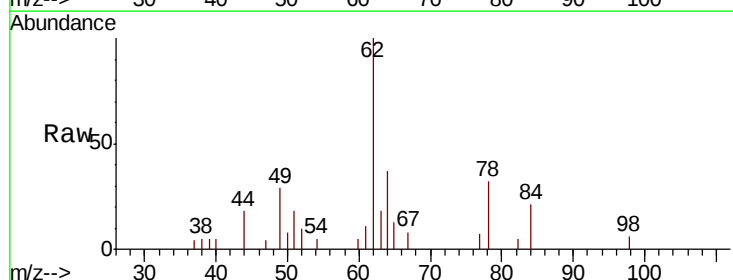
Manual Integrations
APPROVED

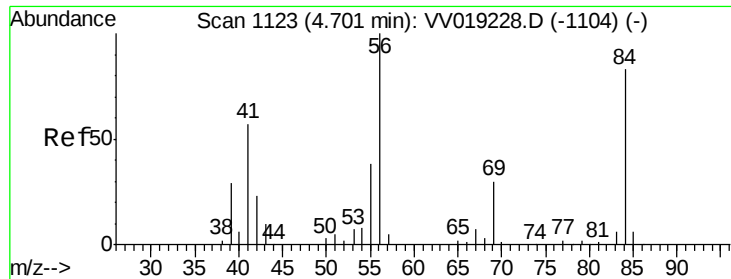
MMDadoda
11/5/2020 7:00:23 PM



#27
1,2-Dichloroethane
Concen: 2.483 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion: 62 Resp: 6415
Ion Ratio Lower Upper
62 100
98 6.3 6.8 10.2#





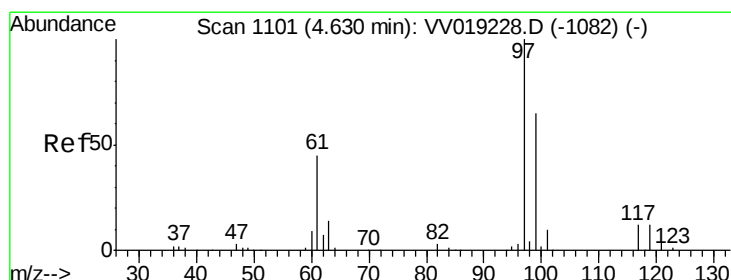
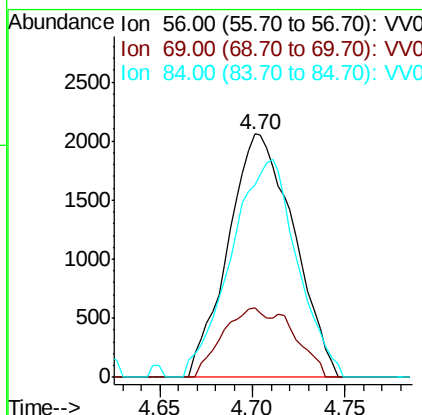
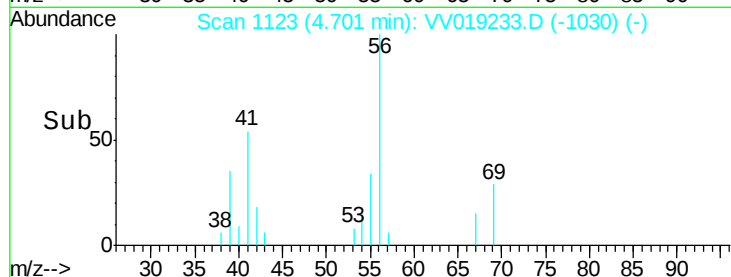
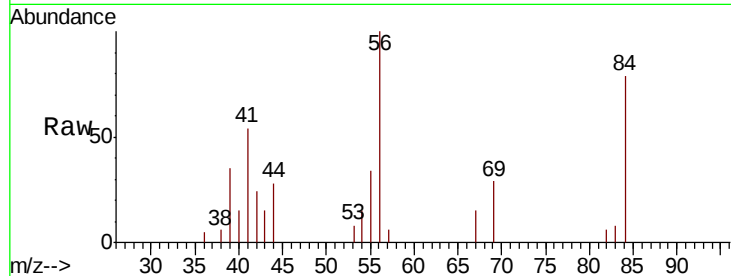
#29
Cvclohexane
Concen: 2.491 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion: 56 Resp: 5071
Ion Ratio Lower Upper
56 100
69 18.7 24.6 36.8#
84 90.2 70.5 105.7

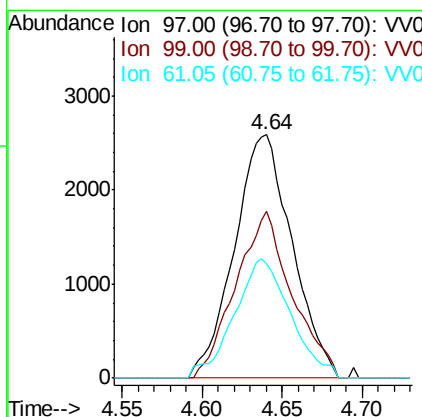
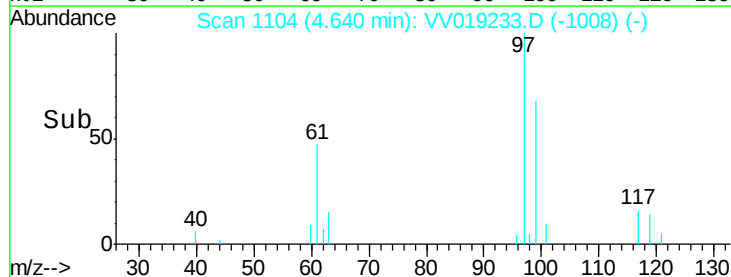
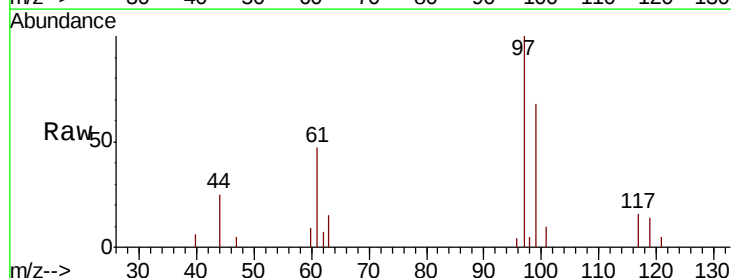
Manual Integrations
APPROVED

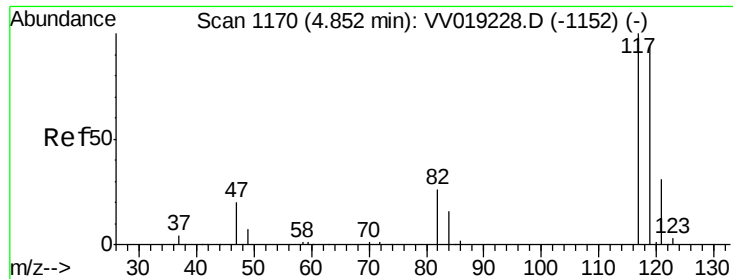
MMDadoda
11/5/2020 7:00:23 PM



#30
1,1,1-Trichloroethane
Concen: 2.327 ug/L
RT: 4.64 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion: 97 Resp: 6421
Ion Ratio Lower Upper
97 100
99 66.7 52.0 78.0
61 47.6 35.3 52.9





#31

Carbon tetrachloride

Concen: 2.400 ug/L m

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-04

Tot Ion:117 Resp: 5718

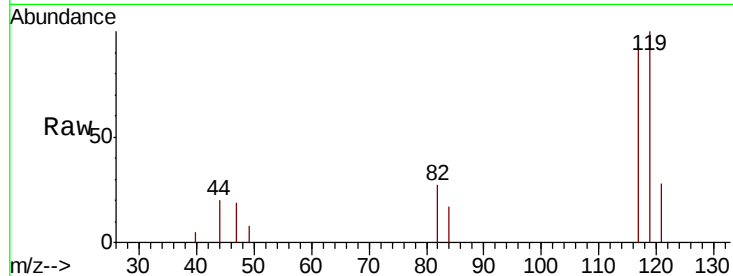
Ion Ratio Lower Upper

117 100

119 13.2 77.8 116.6#

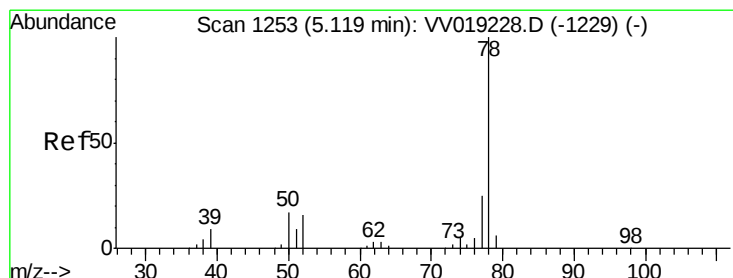
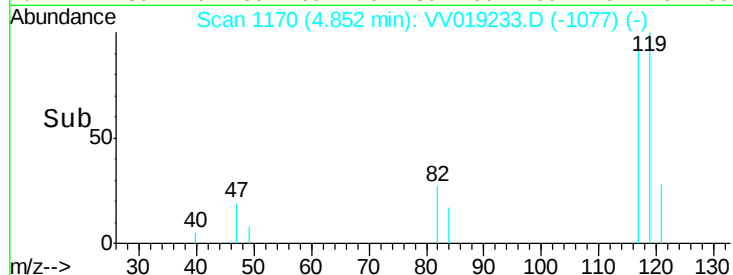
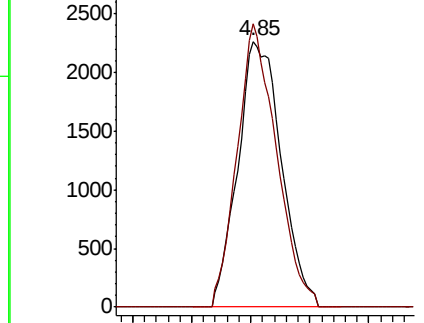
Manual Integrations
APPROVED

MMDadoda
11/5/2020 7:00:23 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.384 ug/L

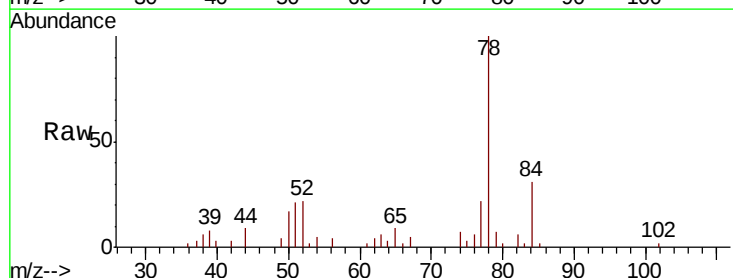
RT: 5.13 min Scan# 1257

Delta R.T. 0.01 min

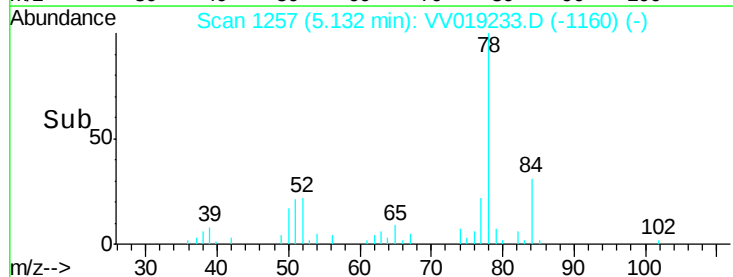
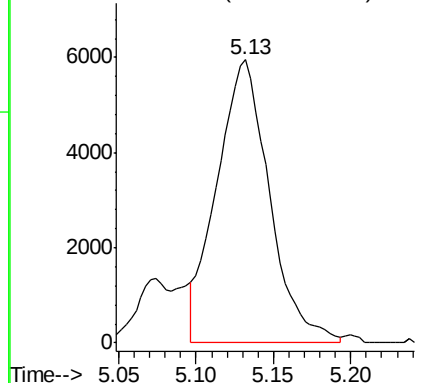
Lab File: VV019233.D

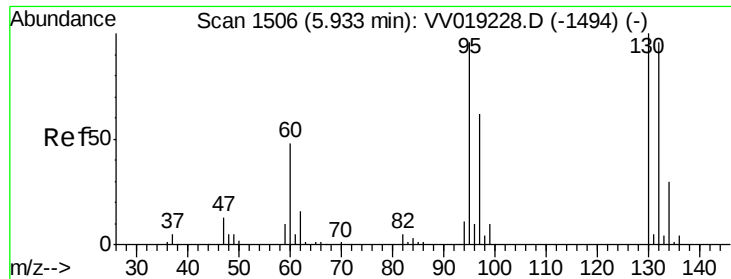
Acq: 03 Nov 2020 14:01

Tgt Ion: 78 Resp: 14096



Abundance Ion 78.00 (77.70 to 78.70): VV0





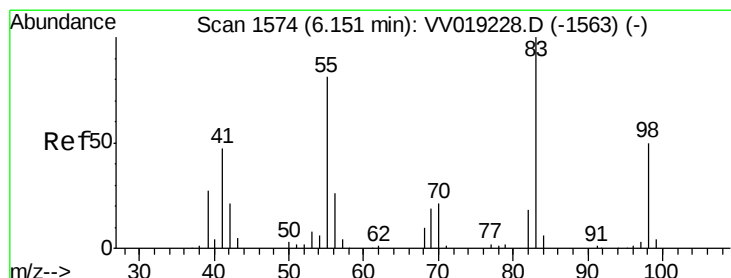
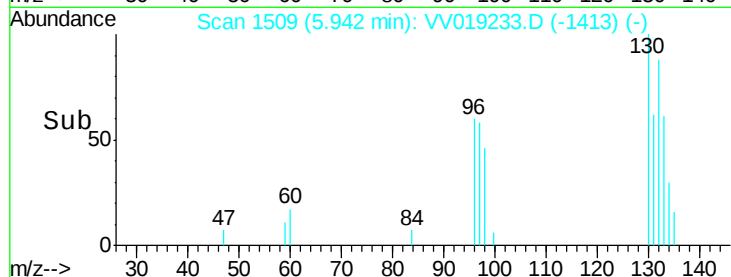
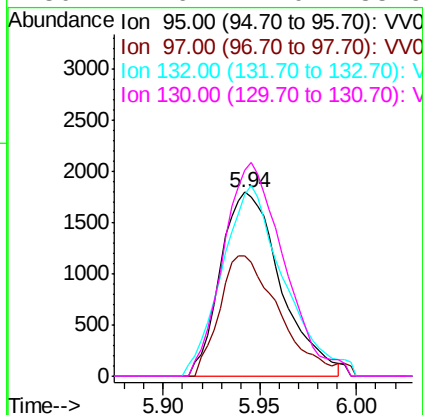
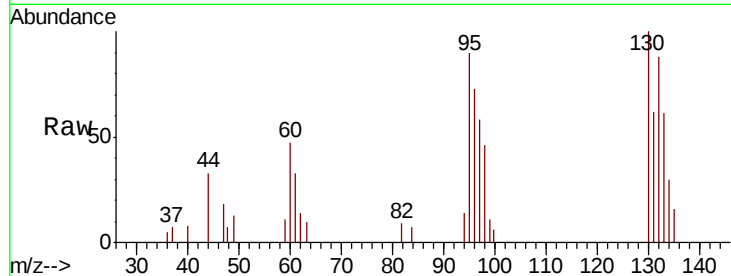
#34
 Trichloroethene
 Concen: 2.427 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Tot Ion: 95 Resp: 3899
 Ion Ratio Lower Upper
 95 100
 97 65.0 45.4 84.4
 132 98.6 68.5 127.3
 130 111.6 72.0 133.6

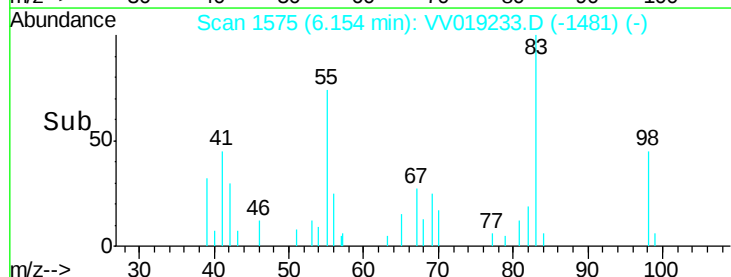
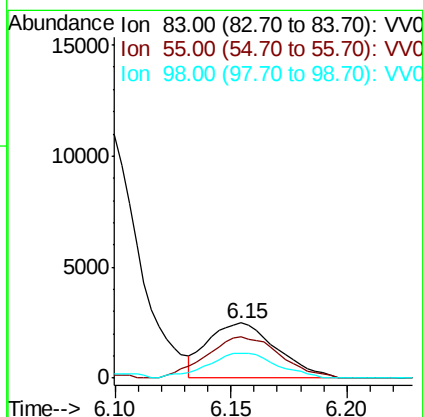
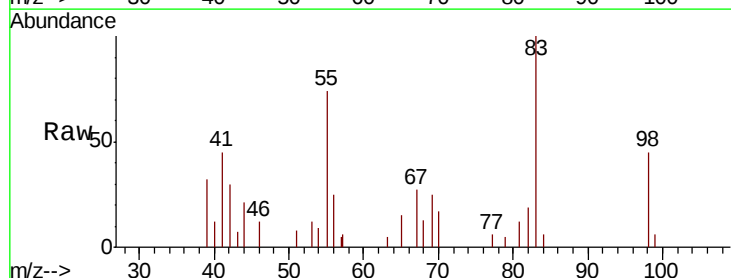
Manual Integrations
 APPROVED

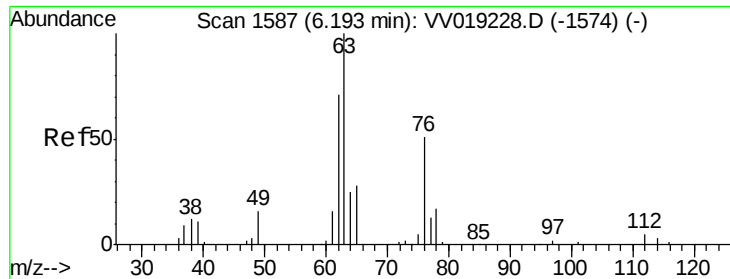
MMDadoda
 11/5/2020 7:00:23 PM



#35
 Methylcyclohexane
 Concen: 2.634 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Tgt Ion: 83 Resp: 5123
 Ion Ratio Lower Upper
 83 100
 55 80.4 62.8 94.2
 98 45.5 38.6 58.0





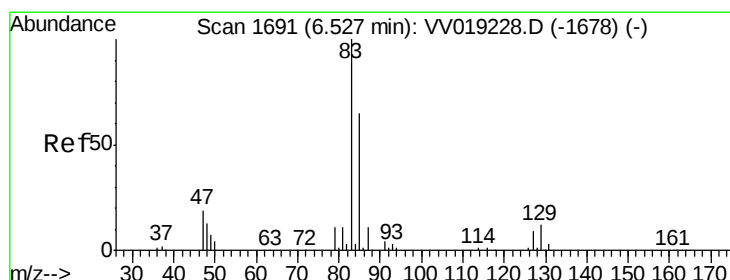
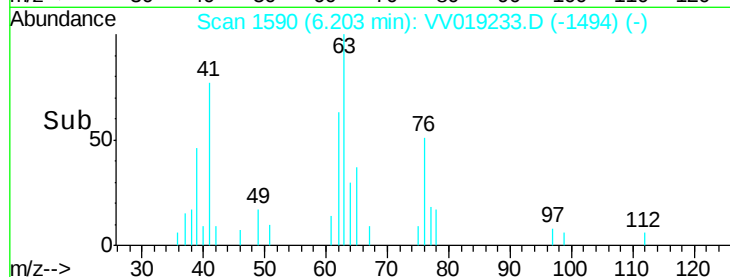
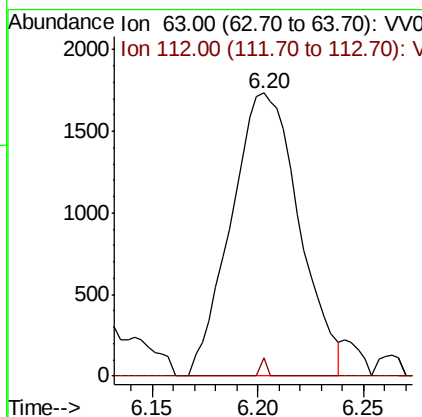
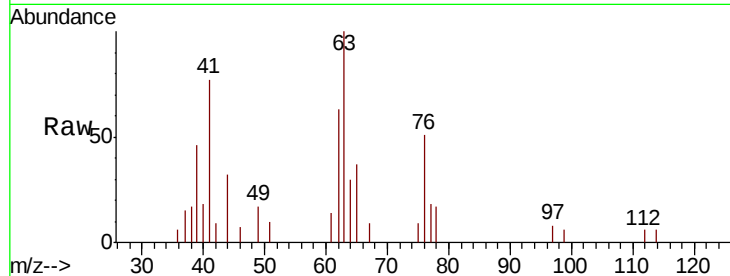
#37
 1,2-Dichloropropane
 Concen: 2.466 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
63	100		
112	0.0	4.2	6.2#

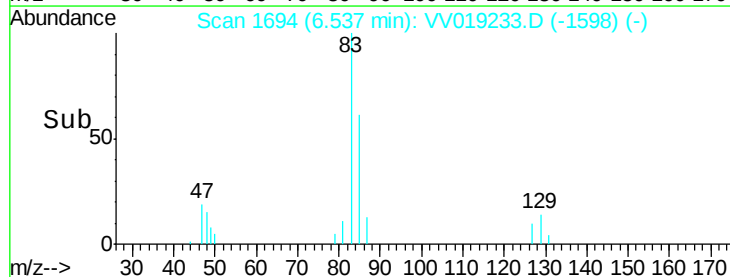
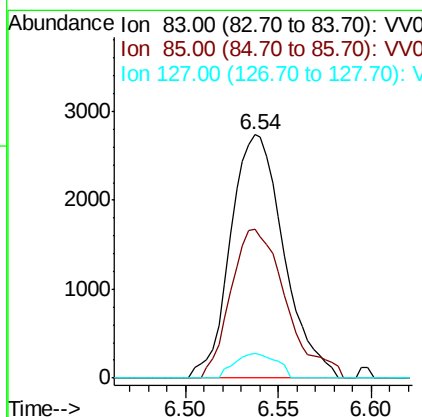
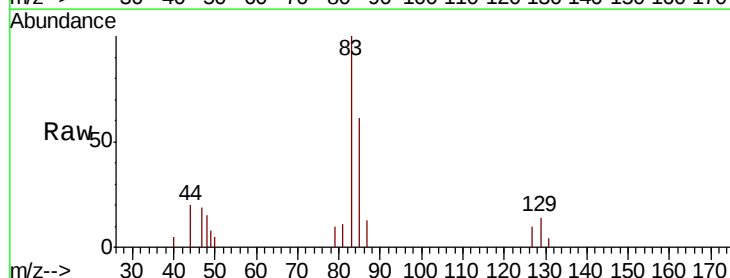
Manual Integrations
 APPROVED

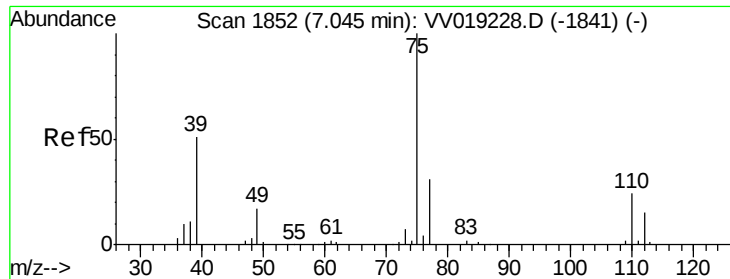
MMDadoda
 11/5/2020 7:00:23 PM



#38
 Bromodichloromethane
 Concen: 2.400 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.2	44.0	81.8
127	10.2	7.3	10.9





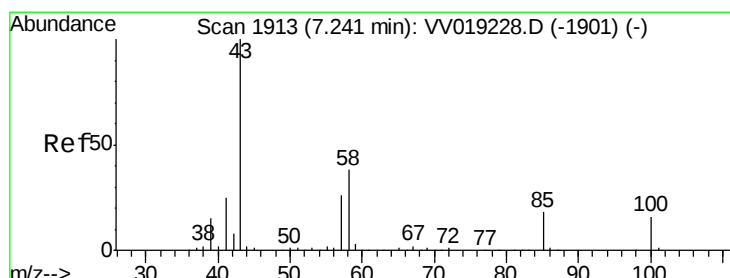
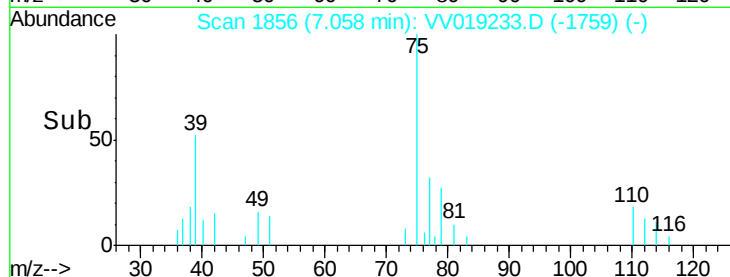
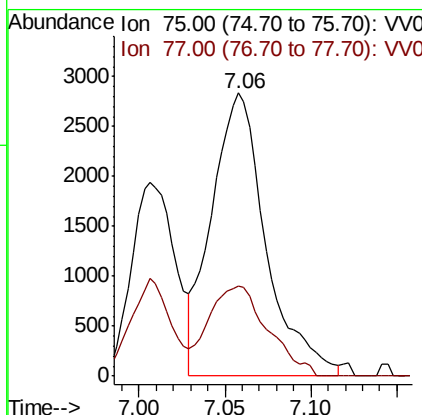
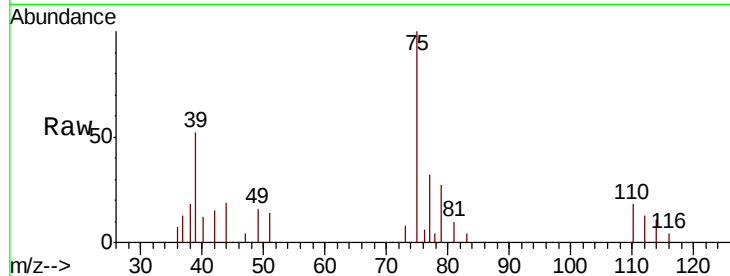
#39
 cis-1,3-Dichloropropene
 Concen: 2.480 ug/L
 RT: 7.06 min Scan# 1856
 Delta R.T. 0.01 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Tot Ion: 75 Resp: 6263
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.2 41.2

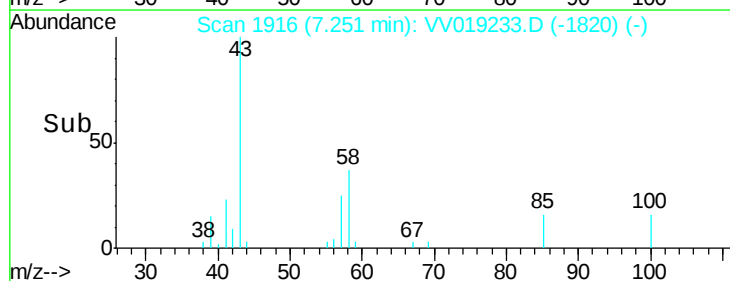
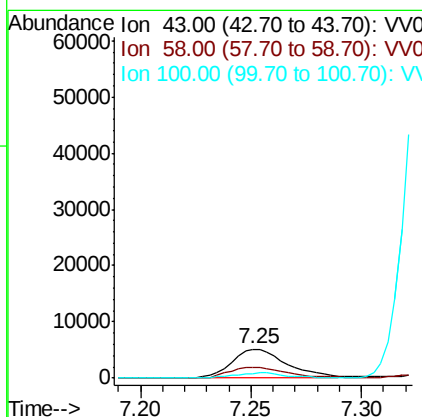
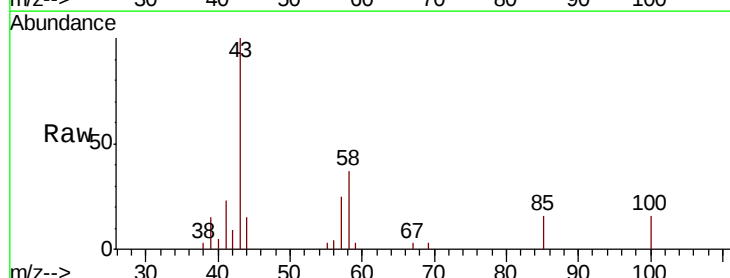
Manual Integrations
 APPROVED

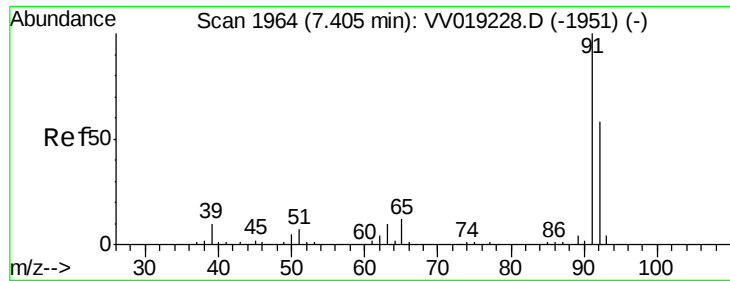
MMDadoda
 11/5/2020 7:00:23 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.231 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Tgt Ion: 43 Resp: 8970
 Ion Ratio Lower Upper
 43 100
 58 40.1 30.5 45.7
 100 16.6 12.7 19.1





#42

Toluene

Concen: 2.797 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.01 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-04

Tot Ion: 91 Resp: 17874

Ion Ratio Lower Upper

91 100

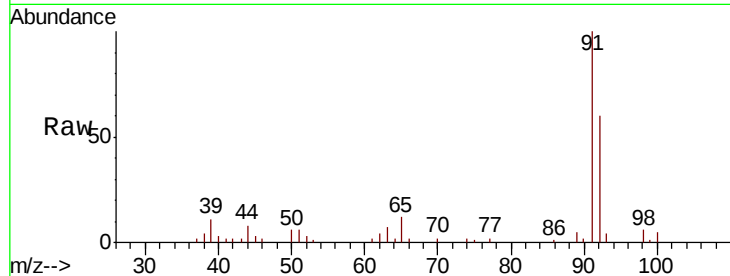
92 60.0 40.6 75.4

Manual Integrations

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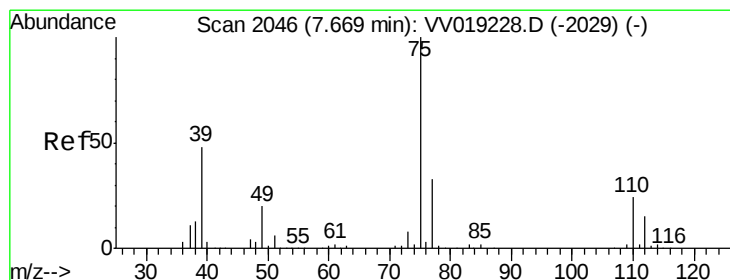
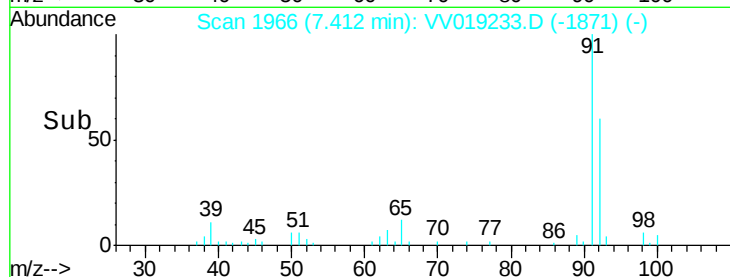
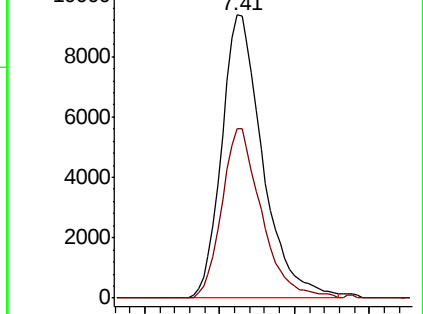
MMDadoda

11/5/2020 7:00:23 PM



Abundance Ion 91.00 (90.70 to 91.70): VV019228.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV019228.D (-1951) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.439 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019233.D

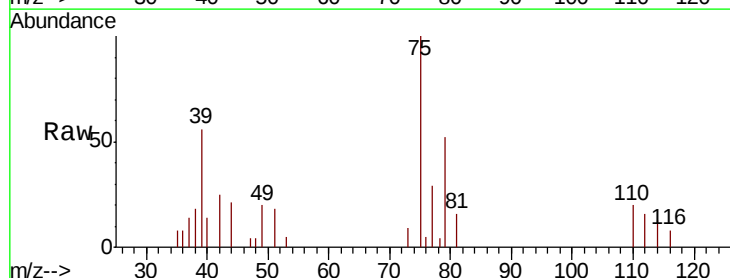
Acq: 03 Nov 2020 14:01

Tgt Ion: 75 Resp: 6310

Ion Ratio Lower Upper

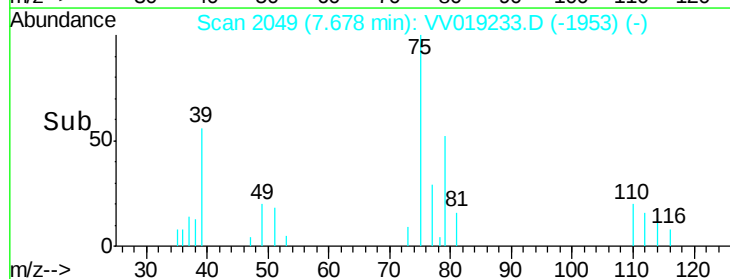
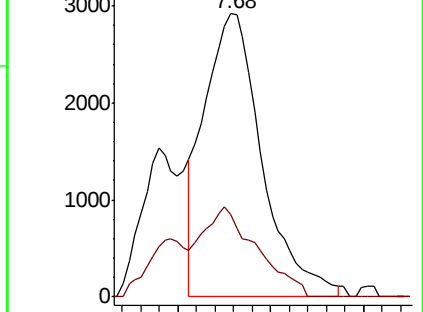
75 100

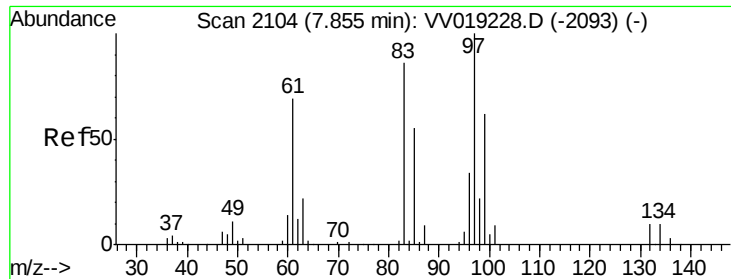
77 29.1 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV019228.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV019228.D (-2029) (-)





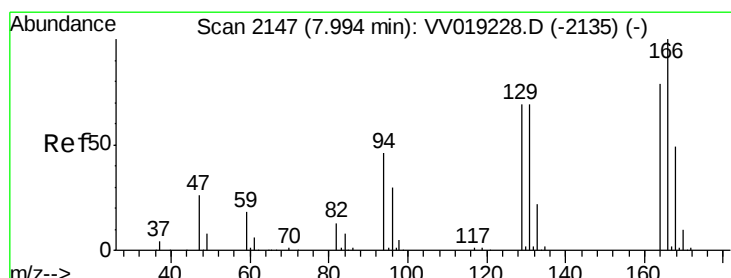
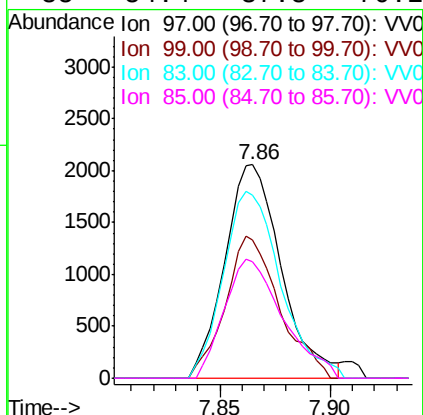
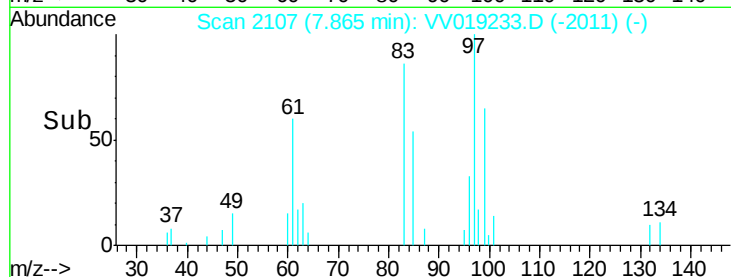
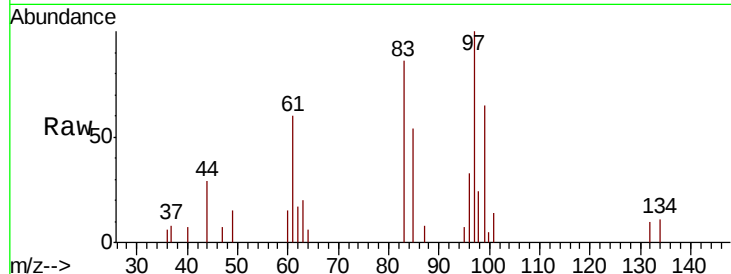
#45
1,1,2-Trichloroethane
Concen: 2.345 ug/L
RT: 7.86 min Scan# 2107
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion:	97	Resp:	3658
Ion	Ratio	Lower	Upper
97	100		
99	64.6	45.1	83.9
83	85.6	57.6	107.0
85	54.4	37.8	70.2

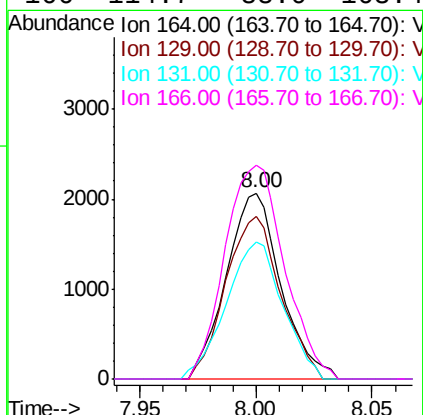
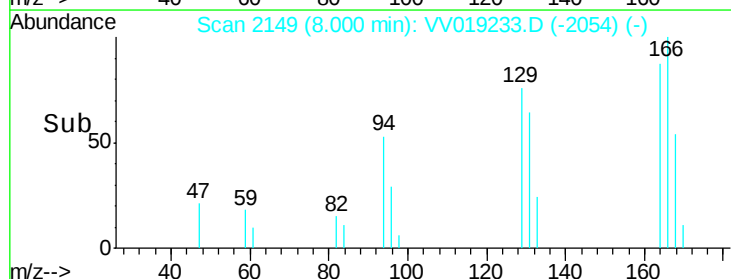
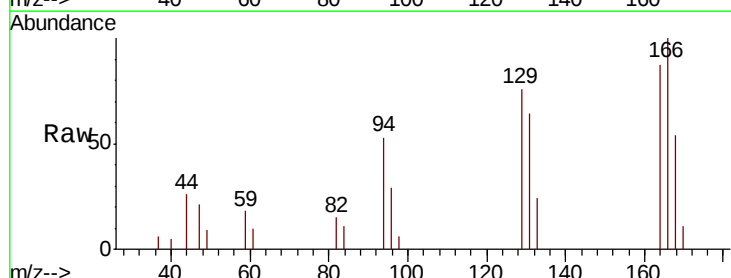
Manual Integrations
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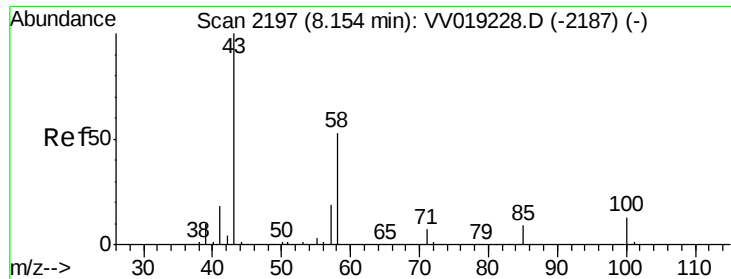
MMDadoda
11/5/2020 7:00:23 PM



#46
Tetrachloroethene
Concen: 2.586 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion:	164	Resp:	3391
Ion	Ratio	Lower	Upper
164	100		
129	87.3	62.6	116.3
131	73.8	59.0	109.6
166	114.7	88.0	163.4





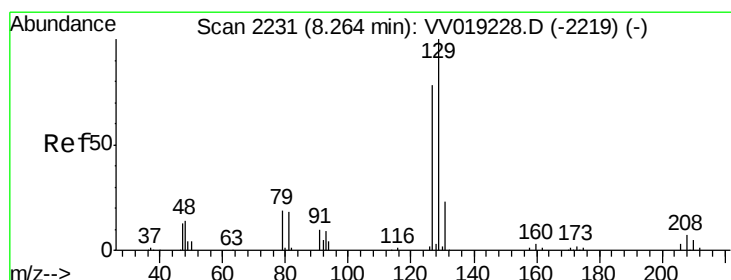
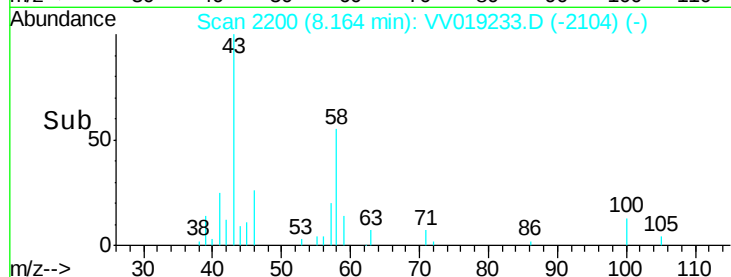
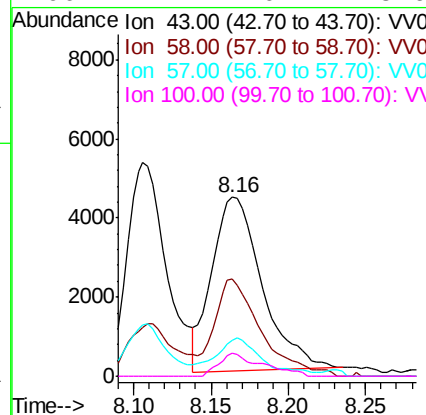
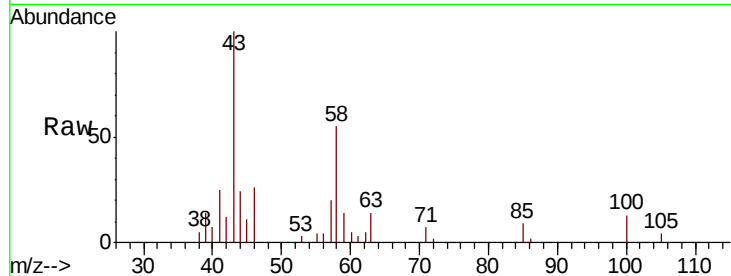
#48
2-Hexanone
Concen: 6.236 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	45.6	42.6	63.8	
57	13.4	15.8	23.8	
100	11.4	10.4	15.6	

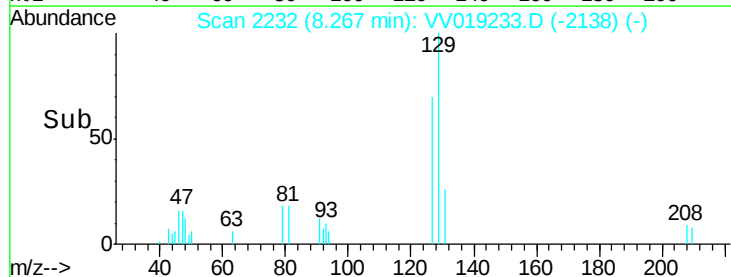
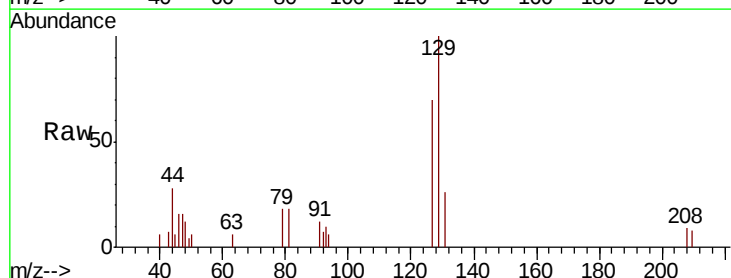
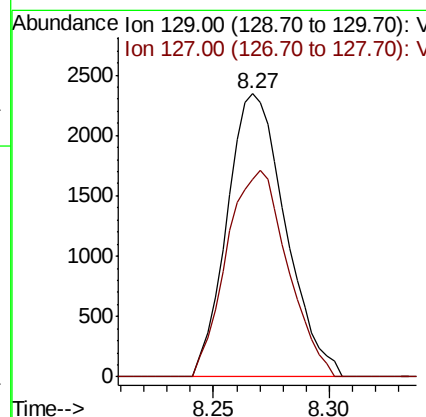
Manual Integrations
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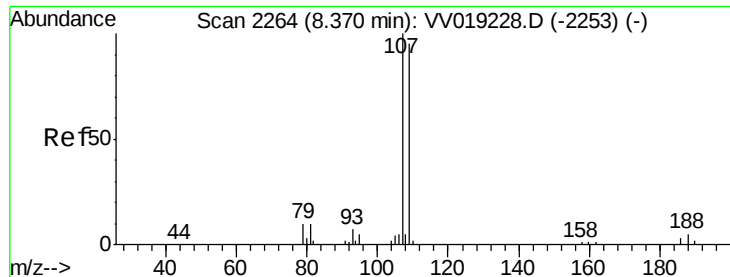
MMDadoda
11/5/2020 7:00:23 PM



#49
Dibromochloromethane
Concen: 2.204 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	69.8	54.4	101.0	





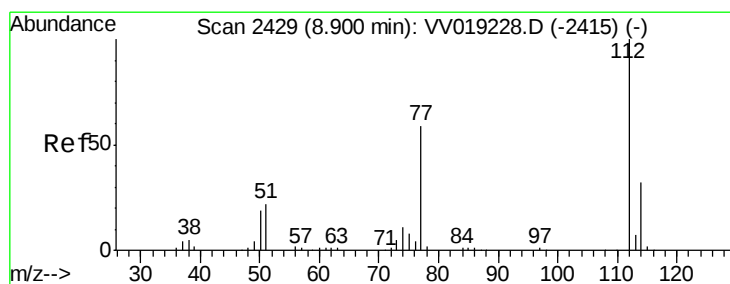
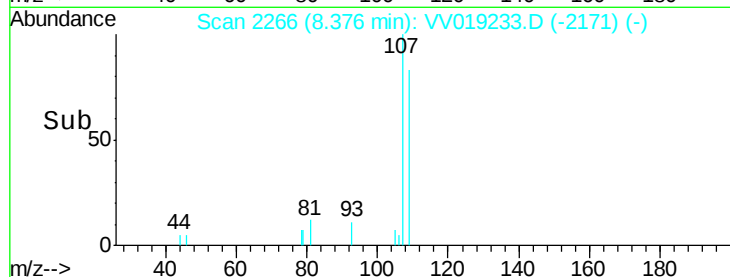
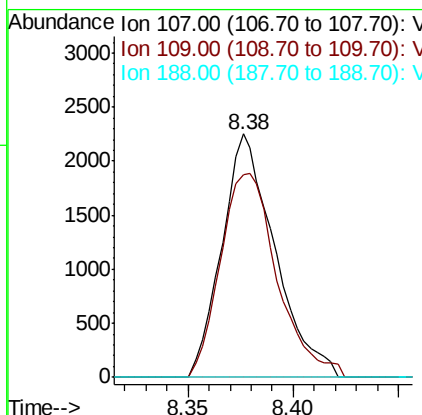
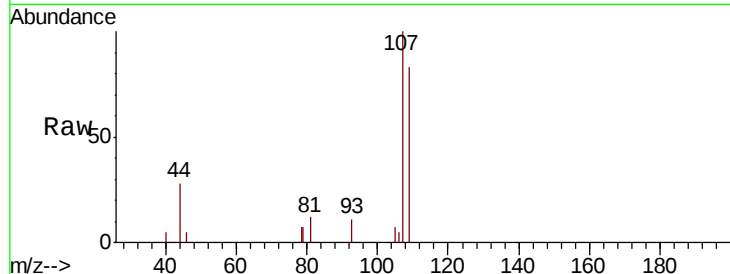
#50
1,2-Dibromoethane
Concen: 2.421 ug/L
RT: 8.38 min Scan# 2266
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
107	100		
109	83.4	64.8	120.4
188	0.0	3.8	5.8#

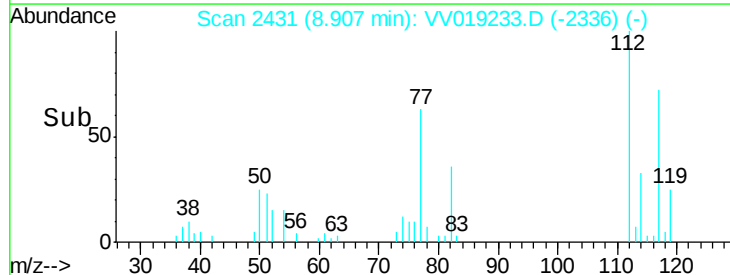
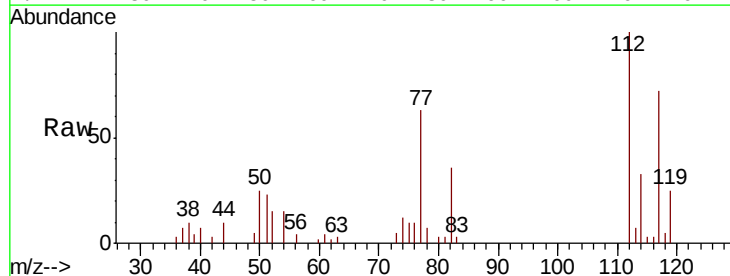
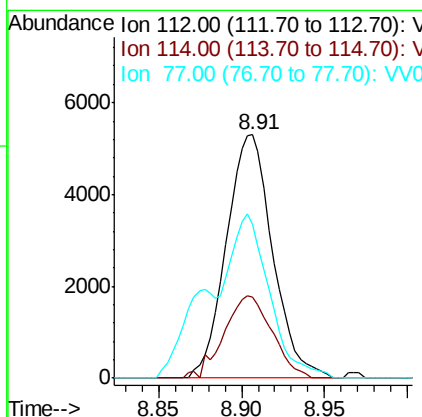
Manual Integrations
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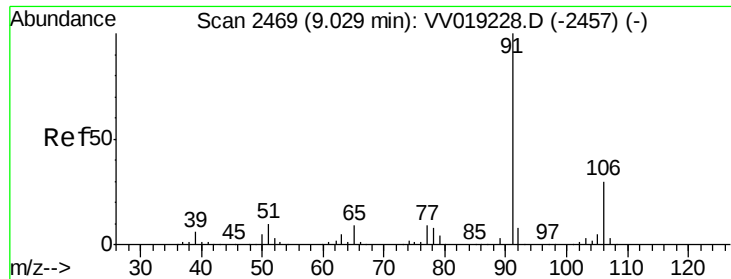
MMDadoda
11/5/2020 7:00:23 PM



#51
Chlorobenzene
Concen: 2.406 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.4	22.7	42.1
77	63.5	47.3	70.9





#52

Ethylbenzene

Concen: 2.306 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.01 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-04

Tot Ion: 91 Resp: 16261

Ion Ratio Lower Upper

91 100

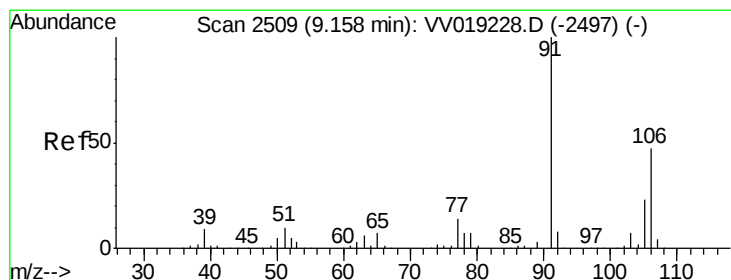
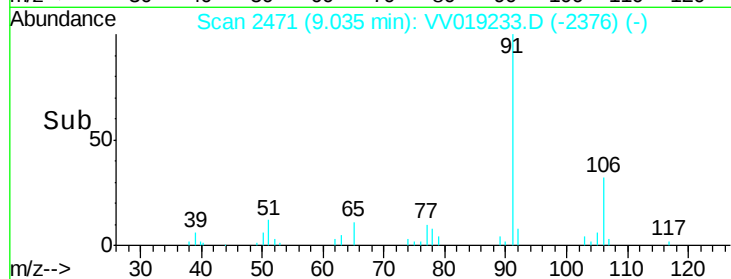
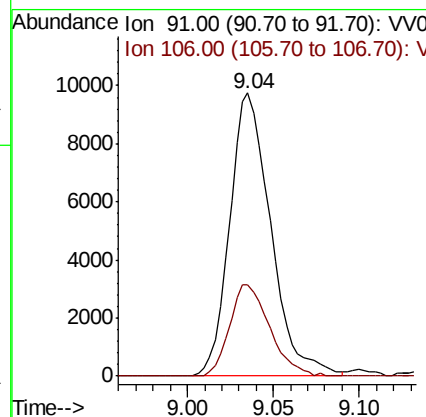
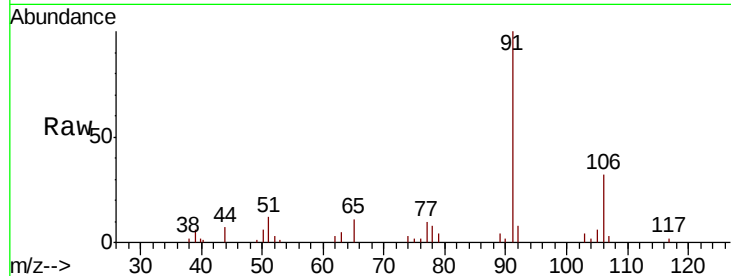
106 32.4 21.6 40.0

Manual Integrations

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11/5/2020 7:00:23 PM



#53

m,p-Xylene

Concen: 2.310 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019233.D

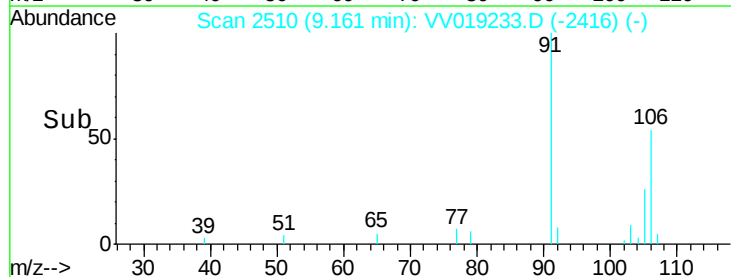
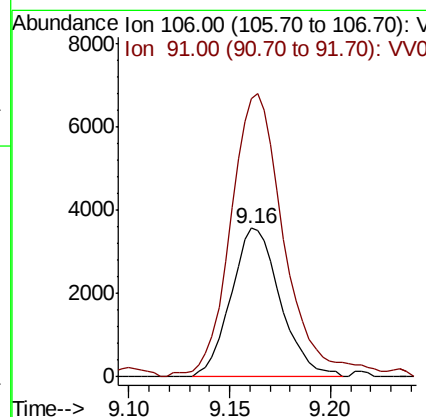
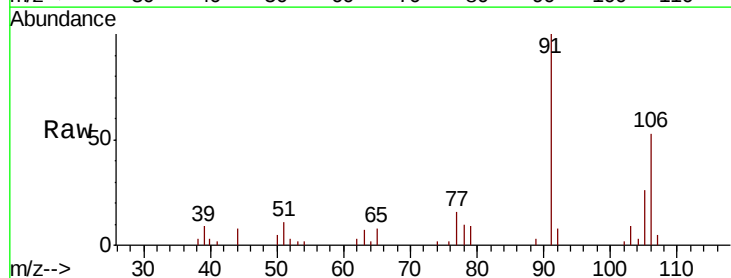
Acq: 03 Nov 2020 14:01

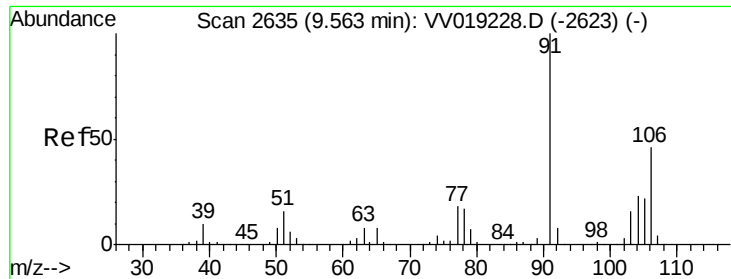
Tgt Ion: 106 Resp: 6099

Ion Ratio Lower Upper

106 100

91 187.6 147.2 273.4





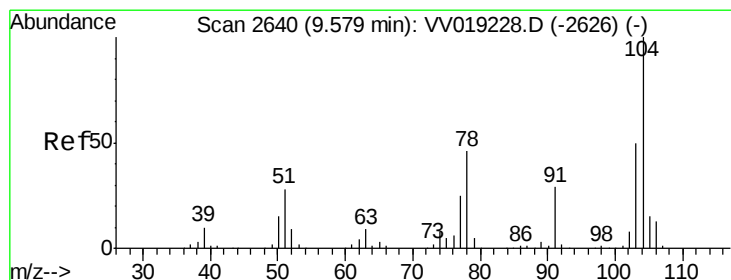
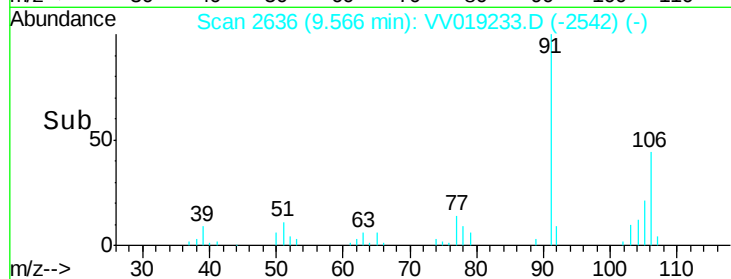
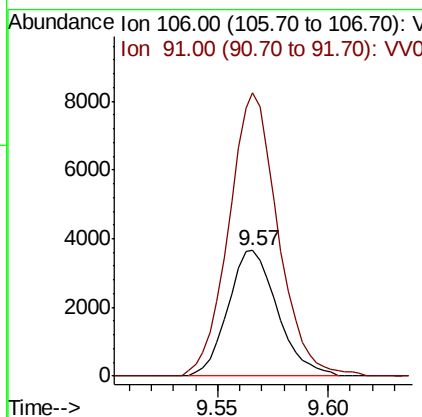
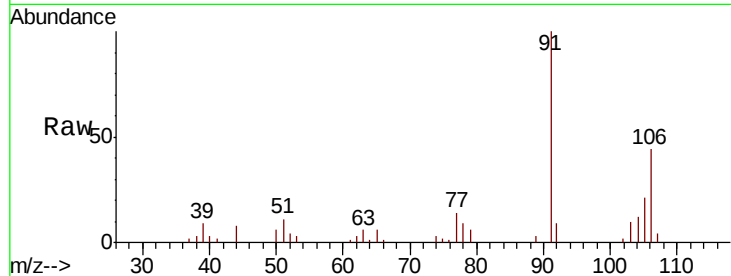
#54
o-Xylene
Concen: 2.185 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion:106 Resp: 5686
Ion Ratio Lower Upper
106 100
91 225.8 151.6 281.6

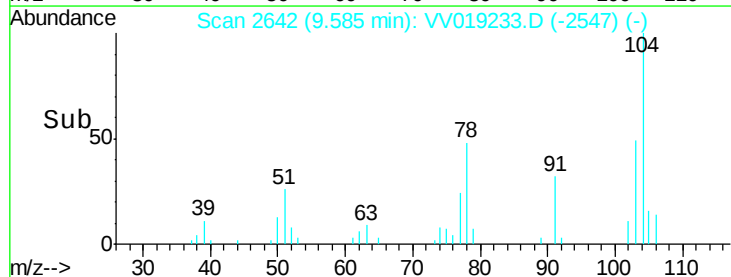
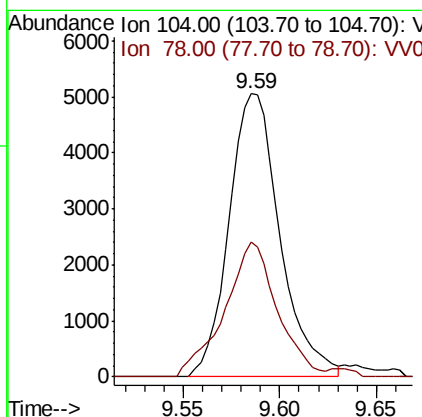
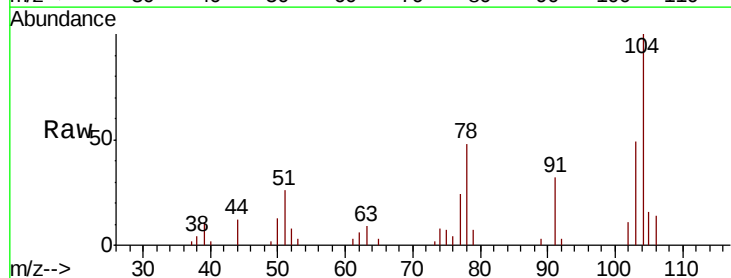
Manual Integrations
APPROVED

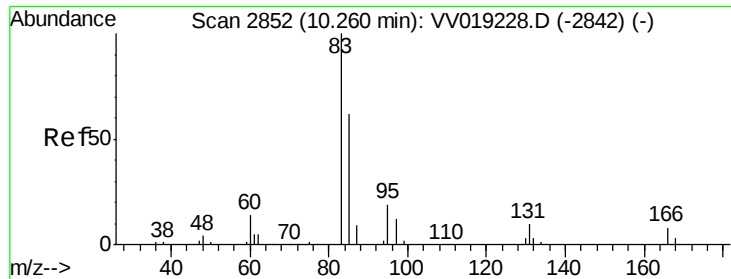
MMDadoda
11/5/2020 7:00:23 PM



#55
Styrene
Concen: 1.999 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion:104 Resp: 9257
Ion Ratio Lower Upper
104 100
78 47.6 32.6 60.5





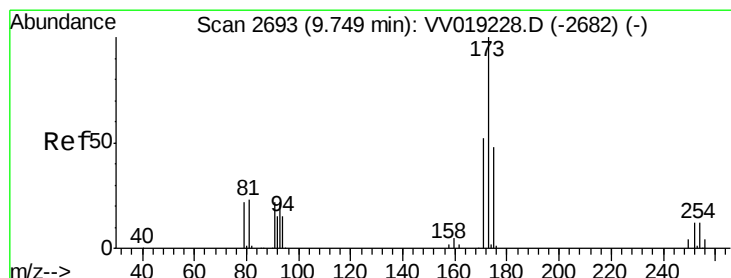
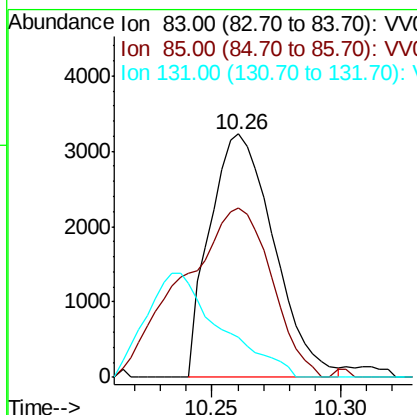
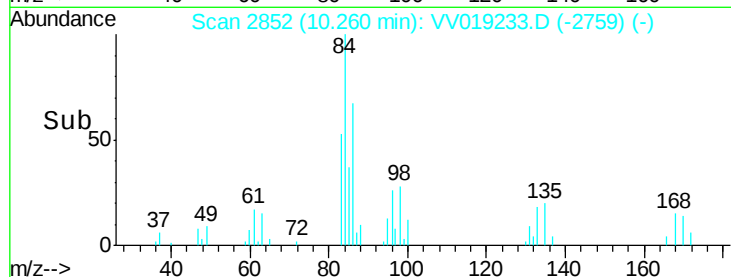
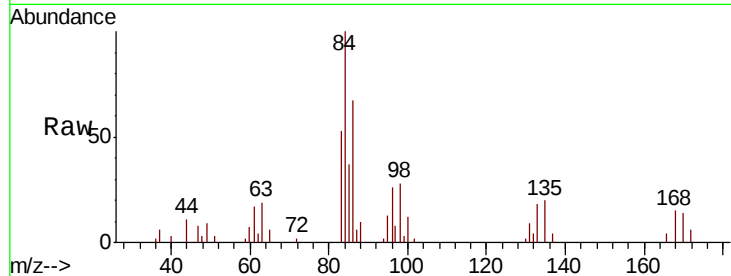
#57
1,1,2,2-Tetrachloroethane
Concen: 2.362 ug/L
RT: 10.26 min Scan# 2852
Delta R.T. -0.00 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion	83	Resp	5574
Ion Ratio	100	Lower	Upper
83	100		
85	69.6	45.0	83.6
131	16.2	8.9	13.3#

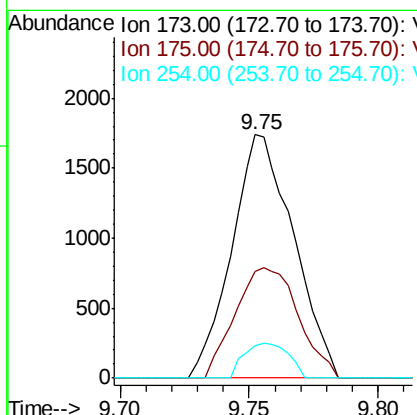
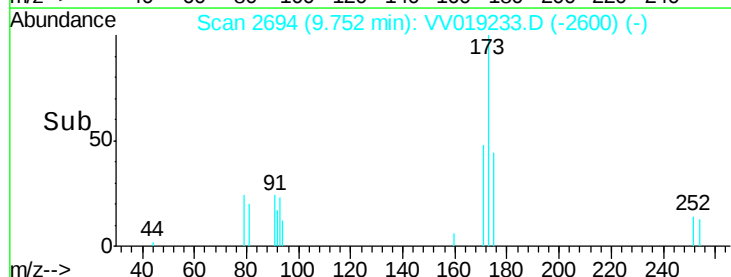
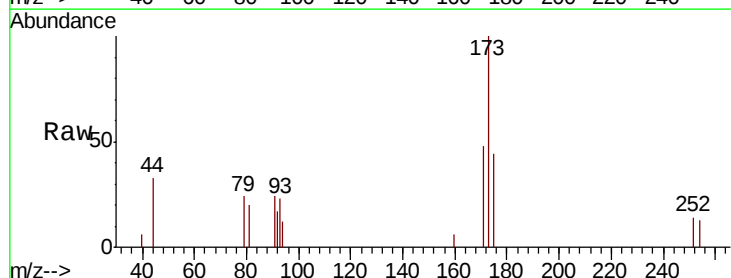
Manual Integrations
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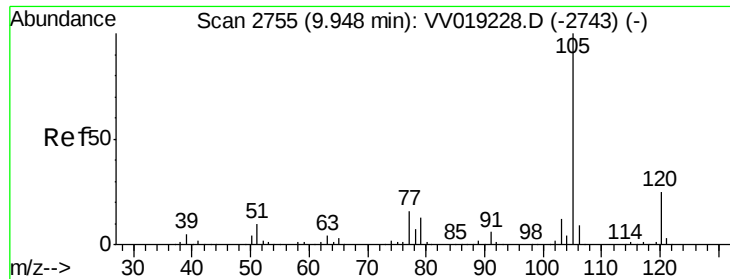
MMDadoda
11/5/2020 7:00:23 PM



#59
Bromoform
Concen: 2.113 ug/L
RT: 9.75 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion	173	Resp	2902
Ion Ratio	100	Lower	Upper
173	100		
175	46.5	38.4	57.6
254	10.4	9.0	13.6





#60

Isopropylbenzene

Concen: 2.230 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

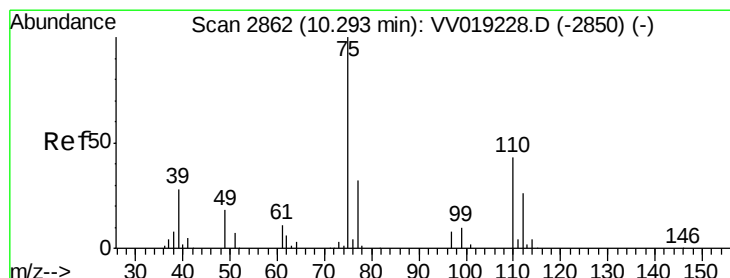
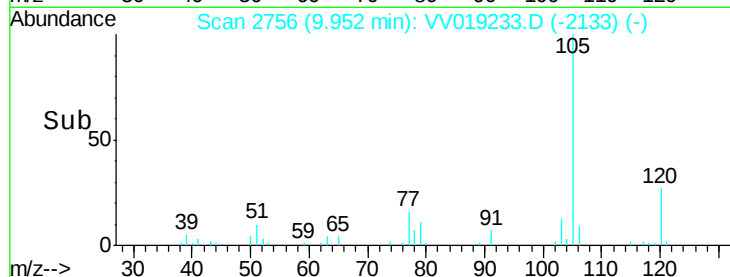
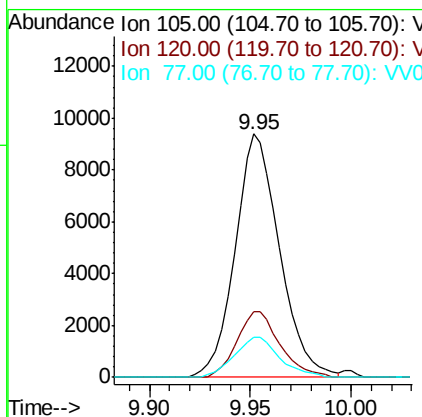
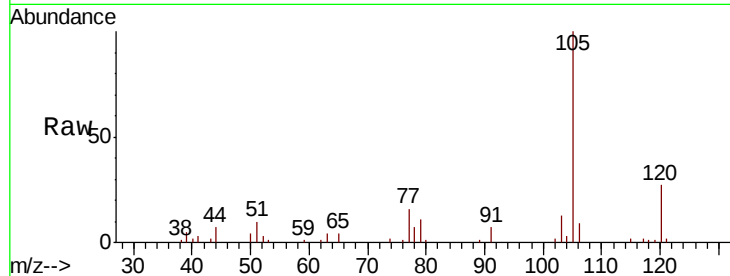
ClientSampleId :

MDL-WATER-04

Tot Ion:	105	Resp:	14459
Ion Ratio	Lower	Upper	
105	100		
120	26.2	21.0	31.4
77	16.7	13.0	19.6

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11/5/2020 7:00:23 PM



#61

1,2,3-Trichloropropane

Concen: 2.569 ug/L

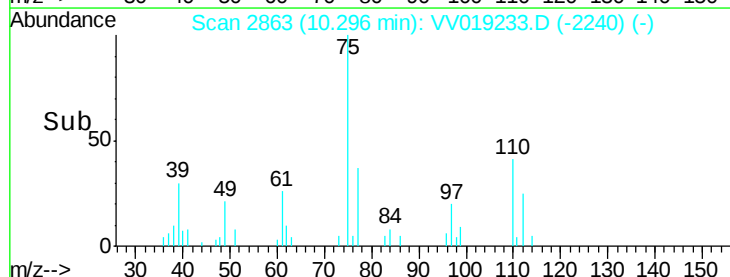
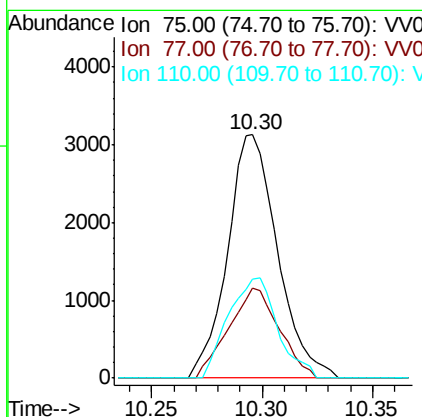
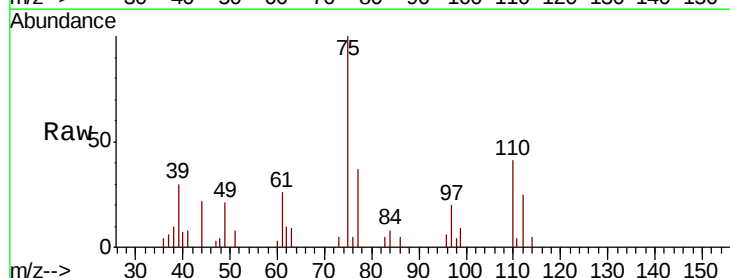
RT: 10.30 min Scan# 2863

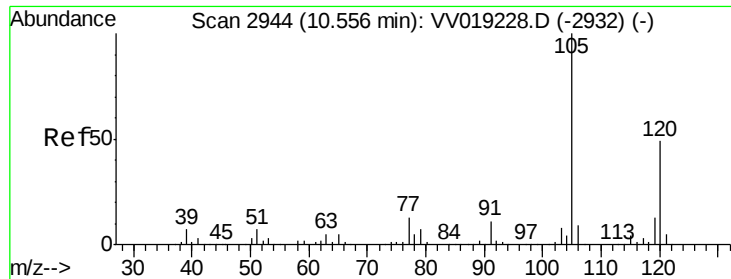
Delta R.T. 0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Tgt Ion:	75	Resp:	4939
Ion Ratio	Lower	Upper	
75	100		
77	37.3	24.8	37.2#
110	40.4	33.4	50.2





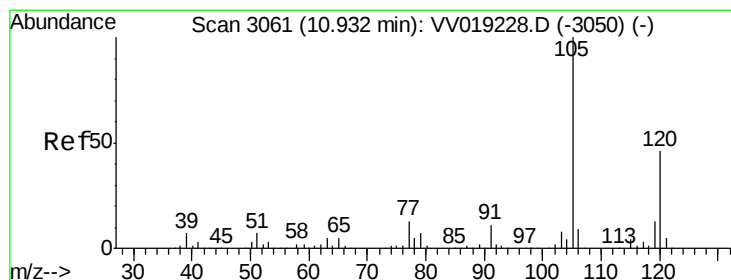
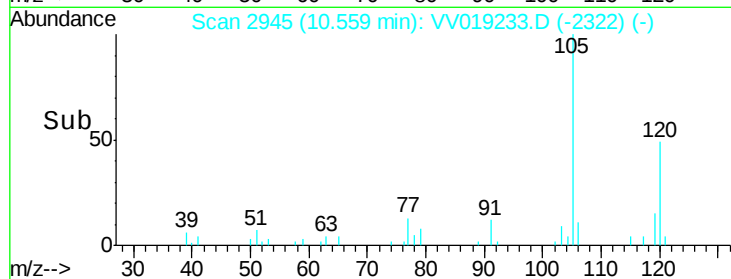
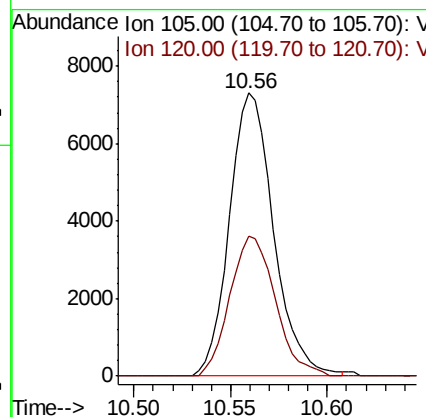
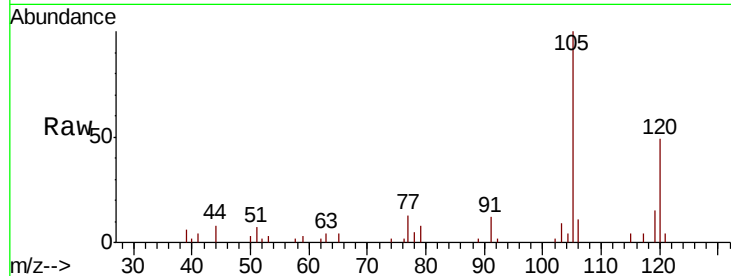
#62
 1,3,5-Trimethylbenzene
 Concen: 2.147 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Tot Ion:105 Resp: 11599
 Ion Ratio Lower Upper
 105 100
 120 50.9 38.3 57.5

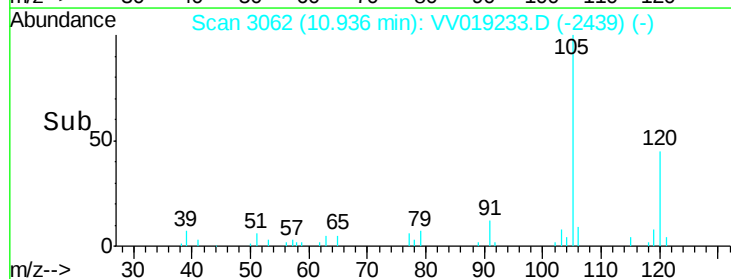
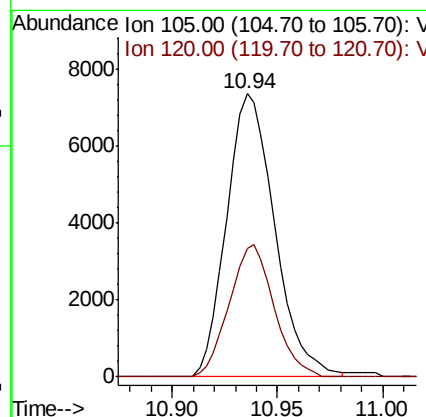
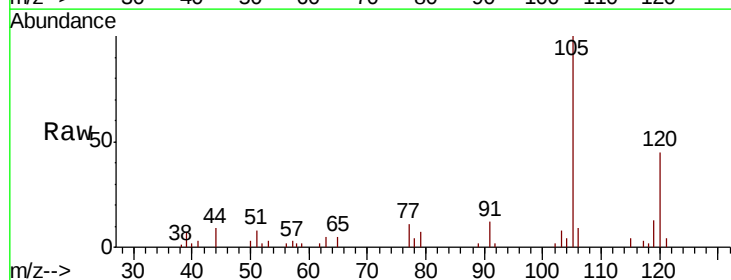
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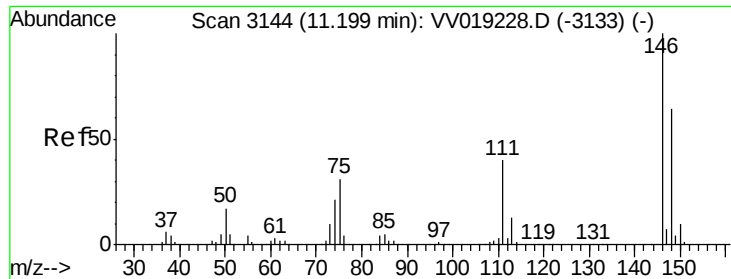
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.211 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Tgt Ion:105 Resp: 11687
 Ion Ratio Lower Upper
 105 100
 120 43.3 35.7 53.5





#64

1,3-Dichlorobenzene

Concen: 2.457 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.01 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Instrument :

MSVOA_V

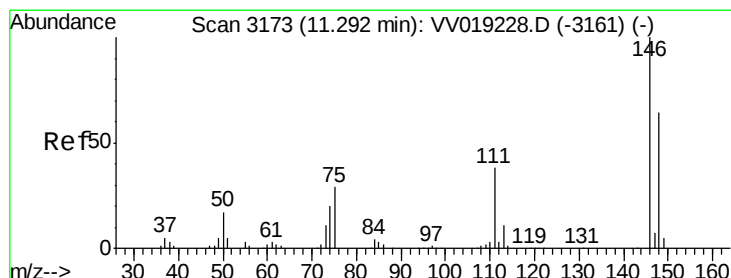
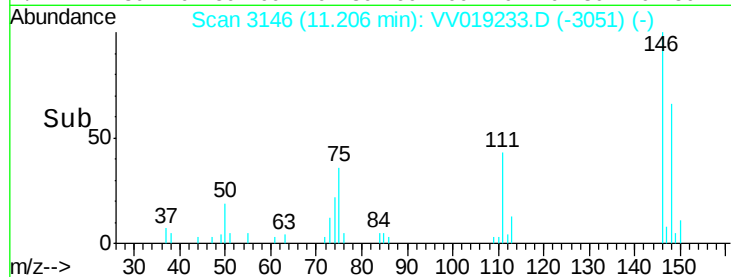
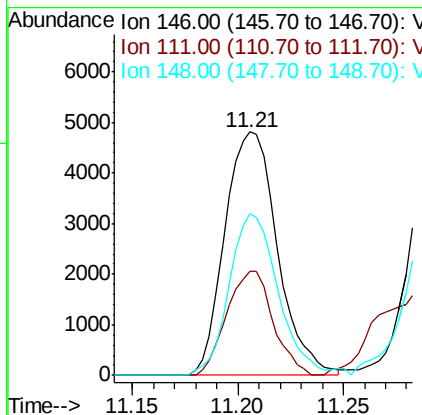
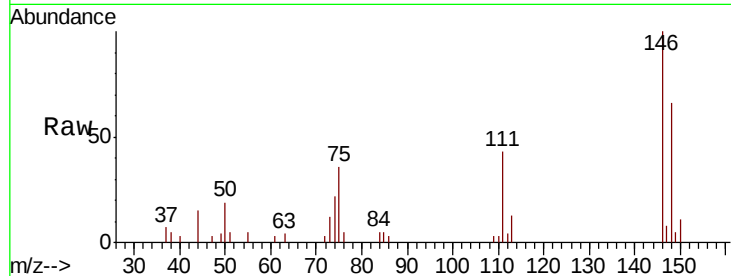
ClientSampleId :

MDL-WATER-04

Tot Ion:	146	Resp:	8334
Ion Ratio	Lower	Upper	
146	100		
111	42.8	27.3	50.7
148	66.2	45.2	84.0

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11/5/2020 7:00:23 PM



#65

1,4-Dichlorobenzene

Concen: 2.640 ug/L

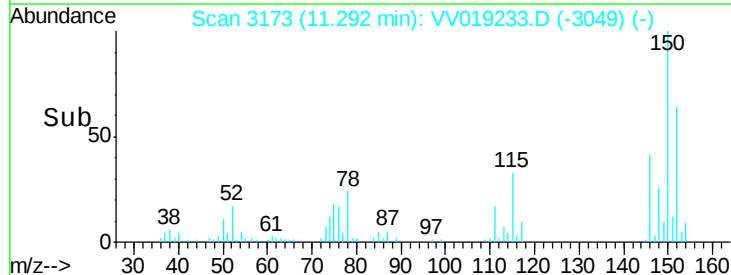
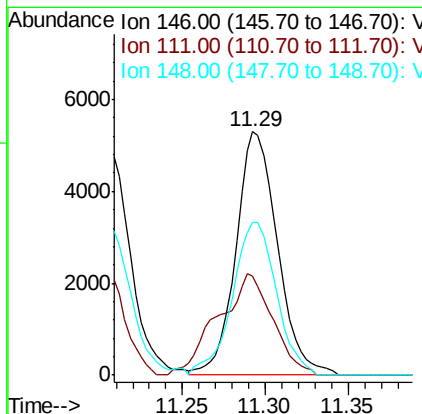
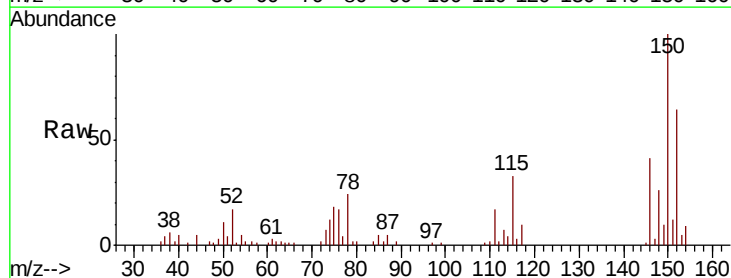
RT: 11.29 min Scan# 3173

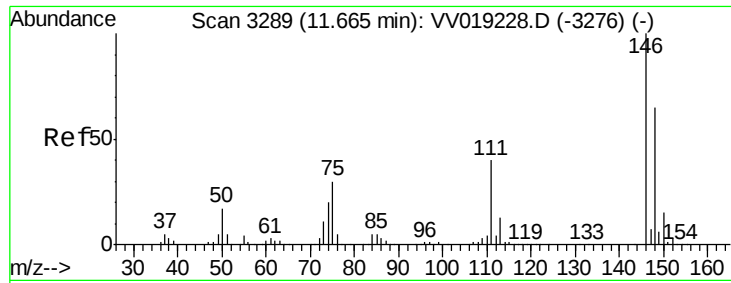
Delta R.T. -0.00 min

Lab File: VV019233.D

Acq: 03 Nov 2020 14:01

Tgt Ion:	146	Resp:	9263
Ion Ratio	Lower	Upper	
146	100		
111	40.9	25.9	48.1
148	62.8	44.9	83.5





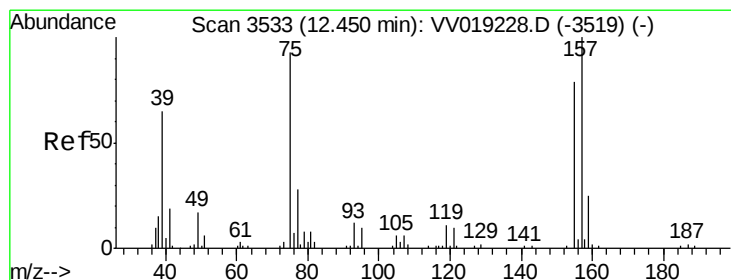
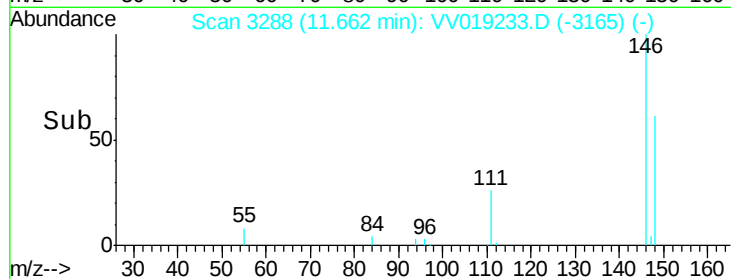
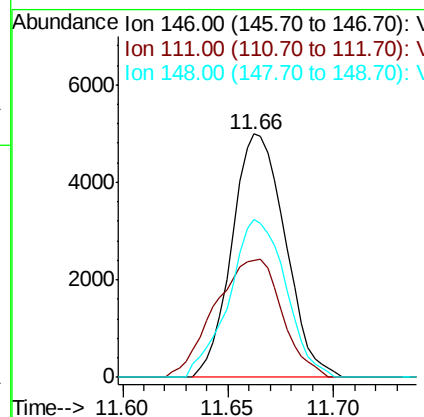
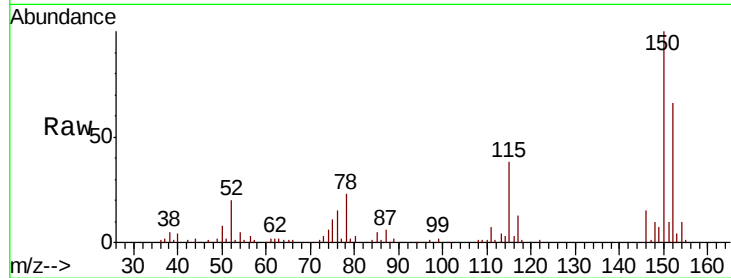
#67
 1,2-Dichlorobenzene
 Concen: 2.523 ug/L
 RT: 11.66 min Scan# 3288
 Delta R.T. -0.00 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.2	32.6	48.8
148	65.0	50.1	75.1

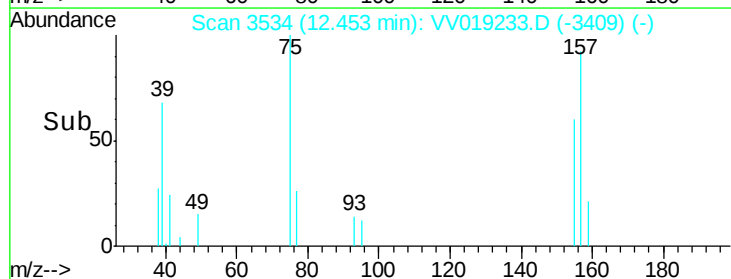
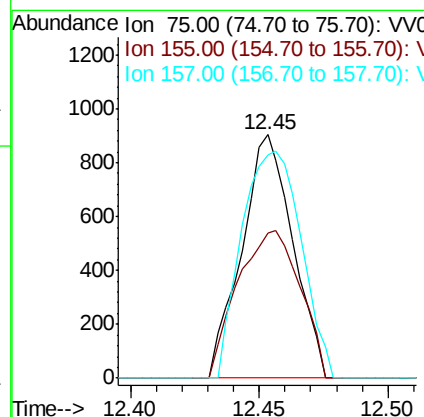
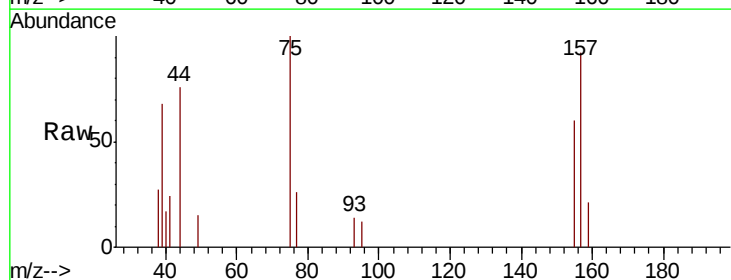
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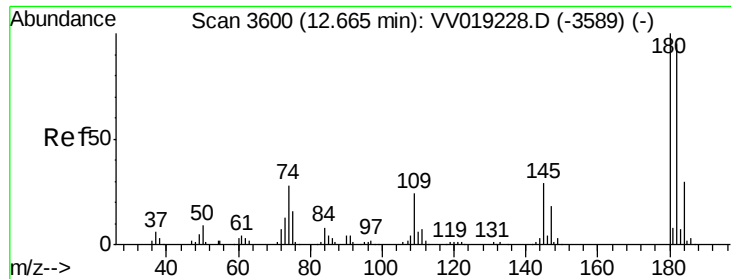
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.225 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.00 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	59.8	65.8	98.6#
157	91.9	86.3	129.5





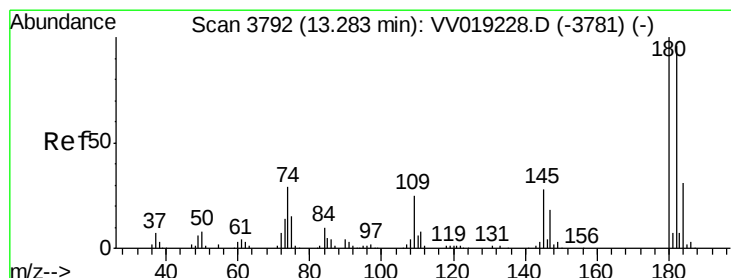
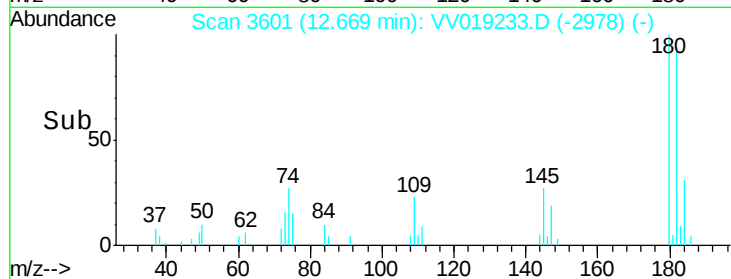
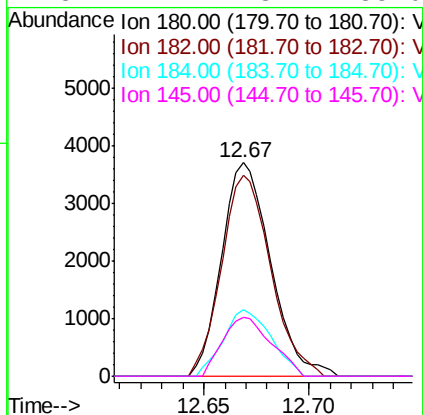
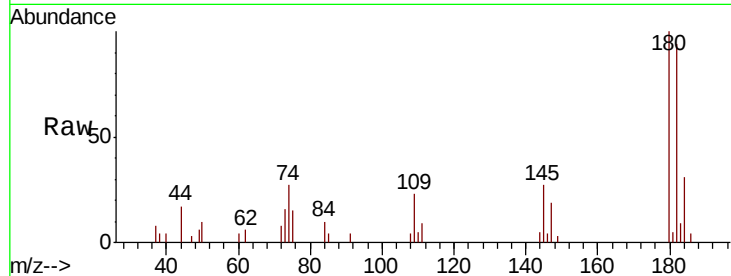
#69
 1,3,5-Trichlorobenzene
 Concen: 2.459 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.1	77.7	116.5
184	30.3	24.9	37.3
145	27.2	23.4	35.0

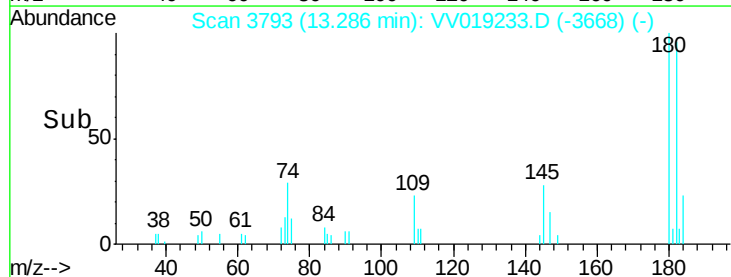
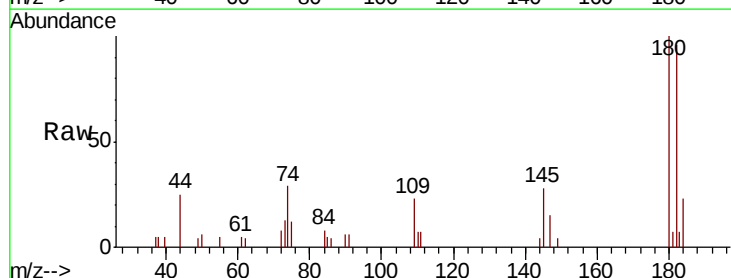
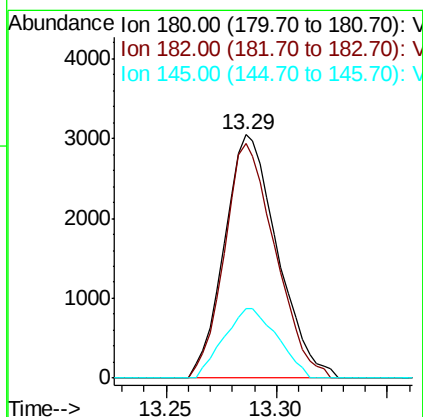
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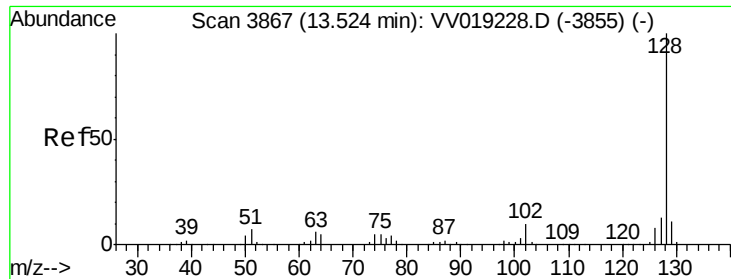
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 11/5/2020 7:00:23 PM



#70
 1,2,4-trichlorobenzene
 Concen: 2.207 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019233.D
 Acq: 03 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.6	76.6	114.8
145	28.8	23.2	34.8





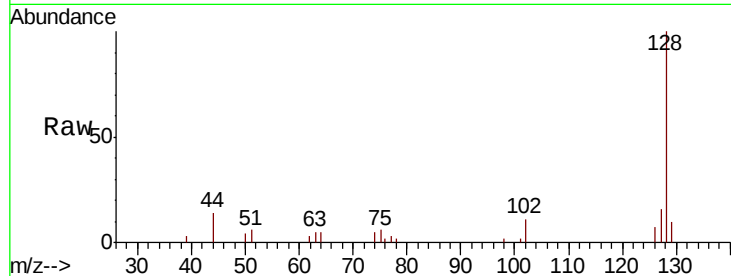
#71
Naphthalene
Concen: 1.464 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.7	16.1
129	10.3	8.6	13.0

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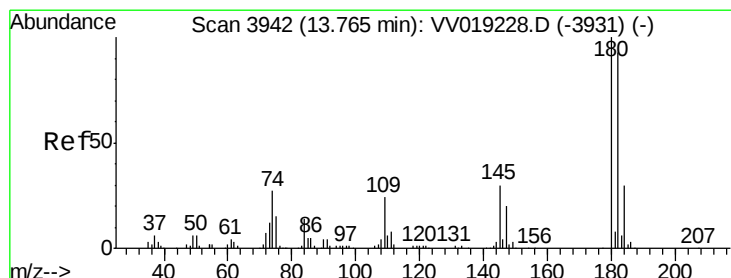
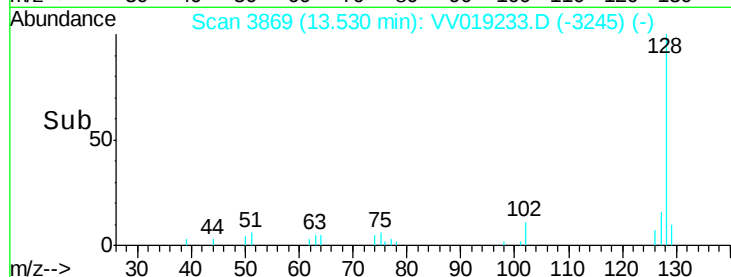
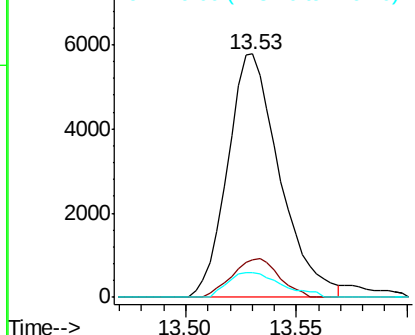


Abundance

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



#72
1,2,3-Trichlorobenzene
Concen: 2.058 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VV019233.D
Acq: 03 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.7	77.4	116.0
145	30.4	24.7	37.1

Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

