

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071720\
 Data File : VV017530.D
 Acq On : 17 Jul 2020 17:50
 Operator : SY/MD
 Sample : L3336-07
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5

Manual Integrations
 APPROVED

MMDadoda
 7/22/2020 10:50:15 AM

Quant Time: Jul 18 06:21:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM070820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 18 05:06:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	320588	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	350050	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.28	152	199248	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	80937	48.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.00%
7) Chloroethane-d5	1.58	69	62859	53.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.24%
11) 1,1-Dichloroethene-d2	2.12	63	152629	40.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.78%
21) 2-Butanone-d5	3.92	46	108702	95.36	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.36%
24) Chloroform-d	4.38	84	148689	38.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.04%
26) 1,2-Dichloroethane-d4	5.06	65	113903	42.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.98%
32) Benzene-d6	5.08	84	273443	36.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.32%
36) 1,2-Dichloropropane-d6	6.10	67	88293	40.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.10%
41) Toluene-d8	7.35	98	296709	40.81	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.62%
43) trans-1,3-Dichloropropene-	7.65	79	57957	45.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.46%
47) 2-Hexanone-d5	8.11	63	106191	118.83	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	118.83%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	139219	45.53	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.06%
64) 1,2-Dichlorobenzene-d4	11.65	152	150267	45.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.22%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	431453	176.118	ug/L	96
12) 1,1-Dichloroethene	2.13	96	38185	19.831	ug/L	# 70
13) Acetone	2.19	43	6685m	4.308	ug/L	
16) Methylene chloride	2.53	84	2404	1.072	ug/L	92
17) trans-1,2-Dichloroethene	2.78	96	37323	17.824	ug/L	95
19) 1,1-Dichloroethane	3.22	63	7498	1.947	ug/L	94
20) cis-1,2-Dichloroethene	3.94	96	6315905	2815.059	ug/L	95
29) Cyclohexane	4.70	56	21872	5.992	ug/L	94
33) Benzene	5.13	78	274232	29.636	ug/L	100
34) Trichloroethene	5.95	95	8377146	3049.340	ug/L	93
35) Methylcyclohexane	6.16	83	90762	22.561	ug/L	98
42) Toluene	7.41	91	40597564m	3925.345	ug/L	
46) Tetrachloroethene	8.03	164	17013607	7375.589	ug/L	88
51) Chlorobenzene	8.91	112	2628306	375.023	ug/L	99
52) Ethylbenzene	9.04	91	4103445	346.874	ug/L	100
53) m,p-Xylene	9.16	106	5429168	1225.857	ug/L	93
54) o-xylene	9.57	106	2148520	505.053	ug/L	98

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 QLast Update : Sat Jul 18 05:06:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	9.96	105	383649	32.416	ug/L	100
62) 1,3-Dichlorobenzene	11.21	146	2293132	368.831	ug/L	98
63) 1,4-Dichlorobenzene	11.30	146	9781893	1550.186	ug/L	95
65) 1,2-Dichlorobenzene	11.67	146	3643598	587.888	ug/L	98
68) 1,2,4-trichlorobenzene	13.30	180	31775257m	7737.091	ug/L	
70) 1,2,3-Trichlorobenzene	13.78	180	11397276	2728.273	ug/L	98

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

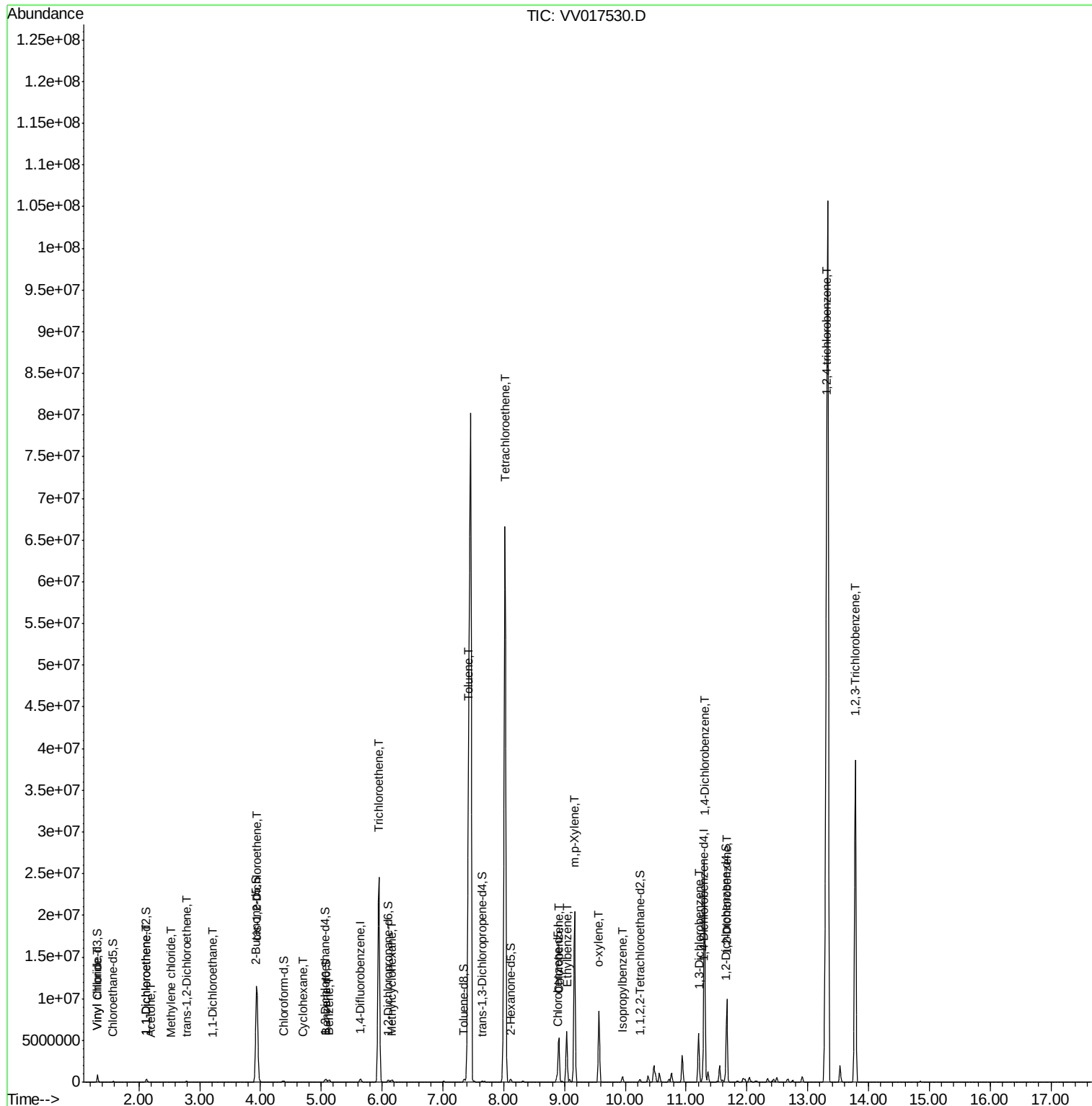
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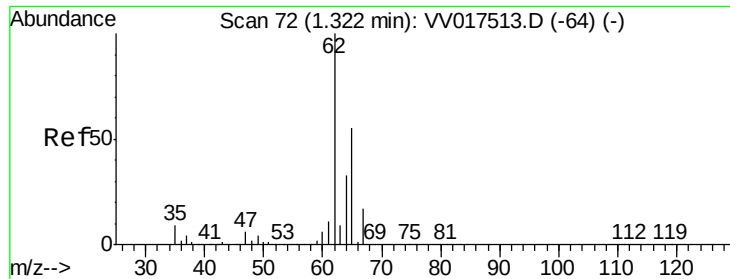
Instrument :
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QLast Update : Sat Jul 18 05:06:25 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 176.118 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampled :

PMW-5

Tot Ion: 62 Resp: 431453

Ion Ratio Lower Upper

62 100

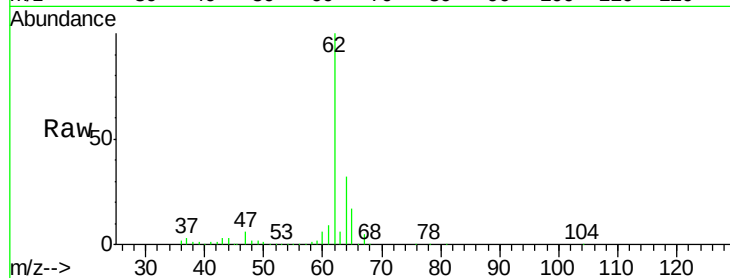
64 32.3 24.1 44.7

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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

400000

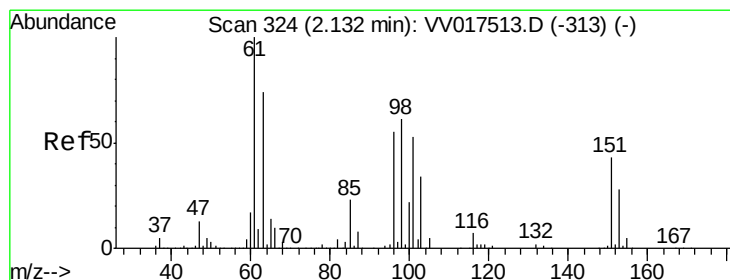
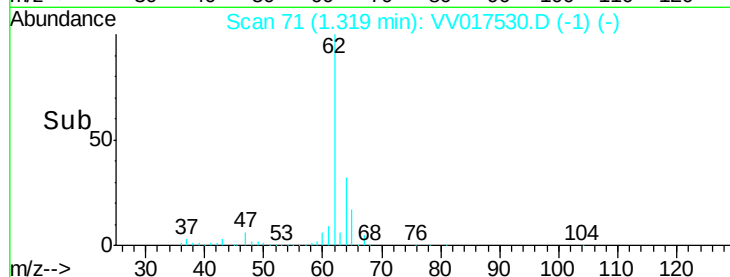
300000

200000

100000

0

Time-->



#12

1,1-Dichloroethene

Concen: 19.831 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

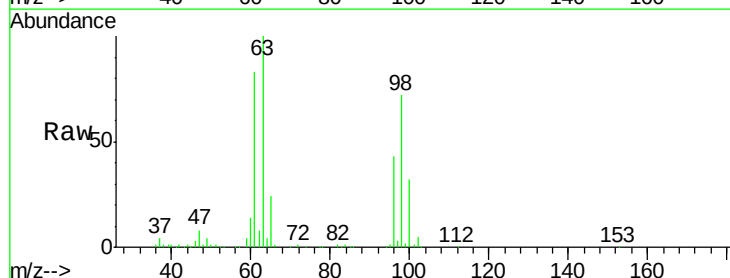
Tgt Ion: 96 Resp: 38185

Ion Ratio Lower Upper

96 100

61 192.3 132.7 246.4

63 231.3 103.3 191.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

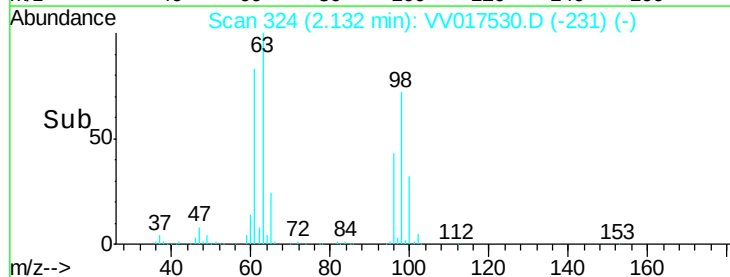
Ion 63.00 (62.70 to 63.70): VV0

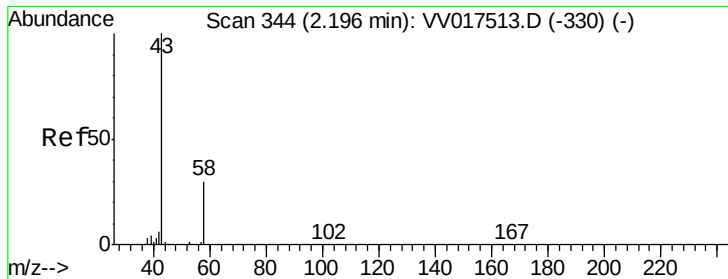
100000

50000

0

Time-->





#13

Acetone

Concen: 4.308 ug/L m

RT: 2.19 min Scan# 343

Delta R.T. -0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampled :

PMW-5

Tot Ion: 43 Resp: 6685

Ion Ratio Lower Upper

43 100

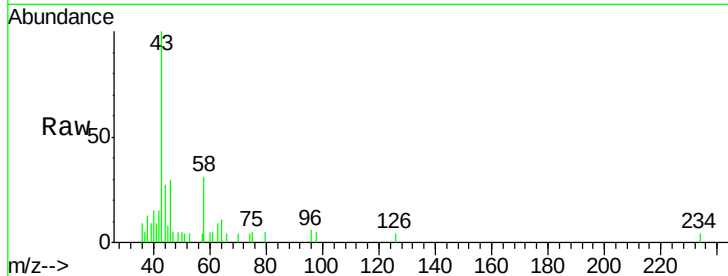
58 0.6 0.0 56.0

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

3000

2500

2000

1500

1000

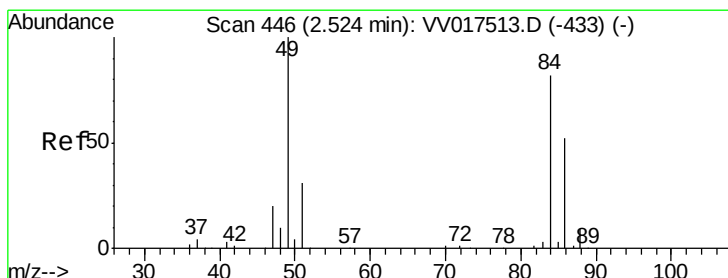
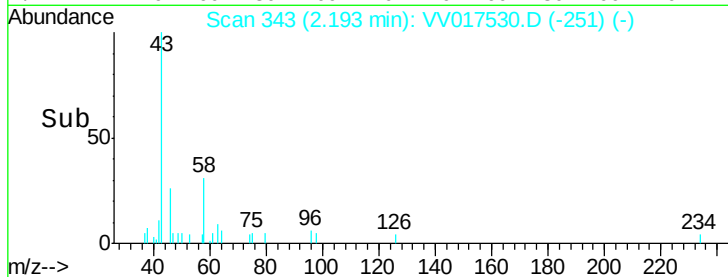
500

0

Time-->

2.15 2.20 2.25

2.19



#16

Methylene chloride

Concen: 1.072 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

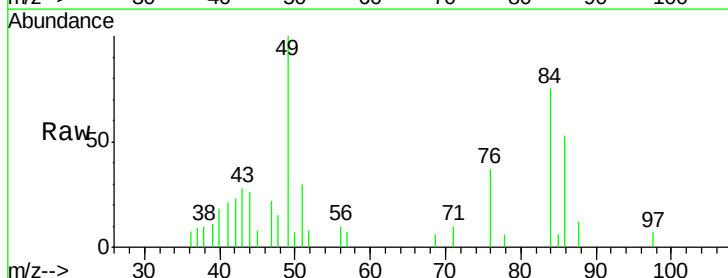
Tgt Ion: 84 Resp: 2404

Ion Ratio Lower Upper

84 100

86 70.0 46.5 86.5

49 132.7 85.3 158.5



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

2500

2000

1500

1000

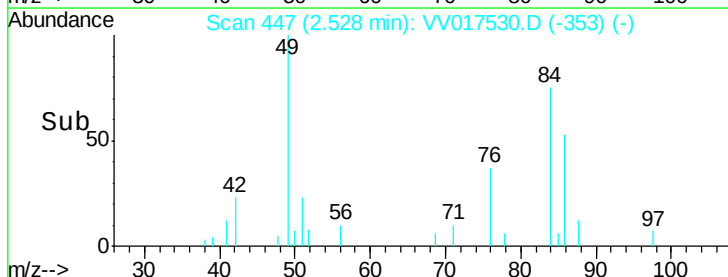
500

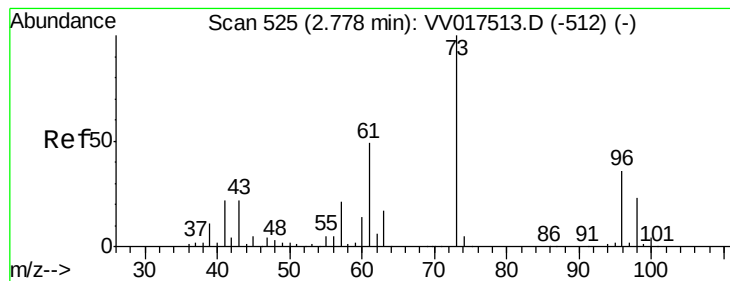
0

Time-->

2.50 2.55

2.53





#17

trans-1,2-Dichloroethene

Concen: 17.824 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

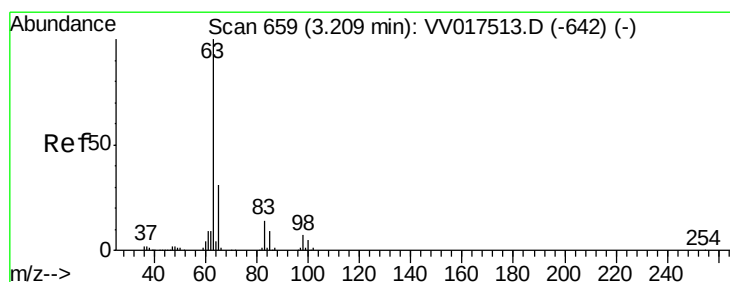
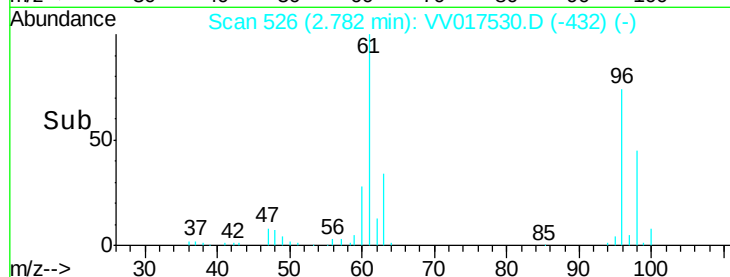
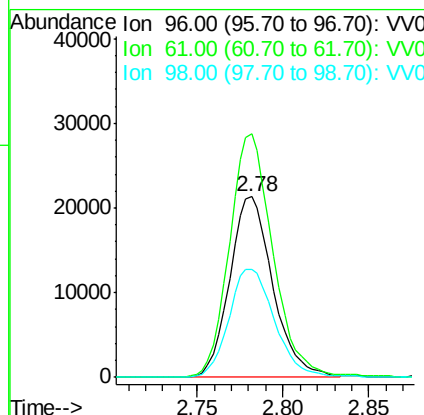
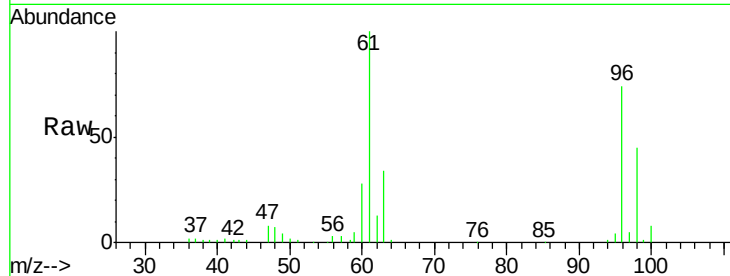
ClientSampled :

PMW-5

Tot Ion:	96	Resp:	37323
Ion	Ratio	Lower	Upper
96	100		
61	134.9	99.0	184.0
98	60.1	44.4	82.5

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#19

1,1-Dichloroethane

Concen: 1.947 ug/L

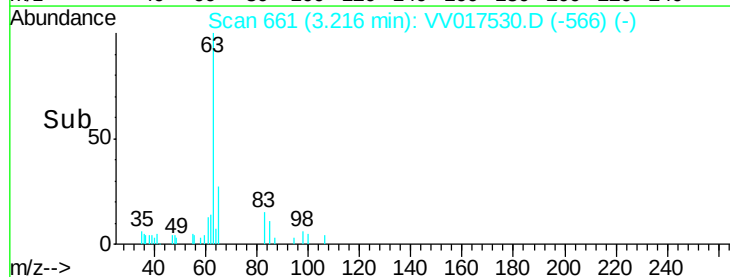
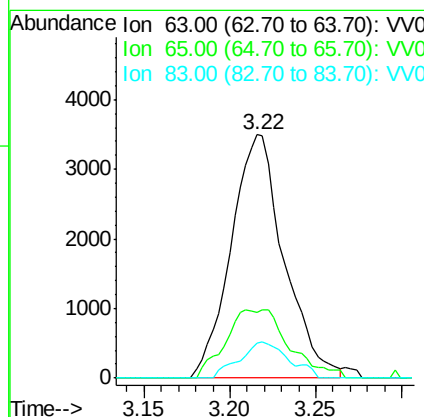
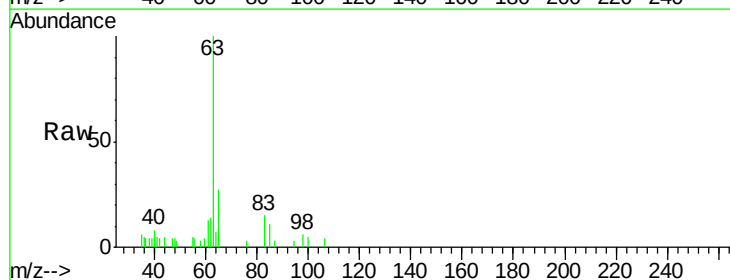
RT: 3.22 min Scan# 661

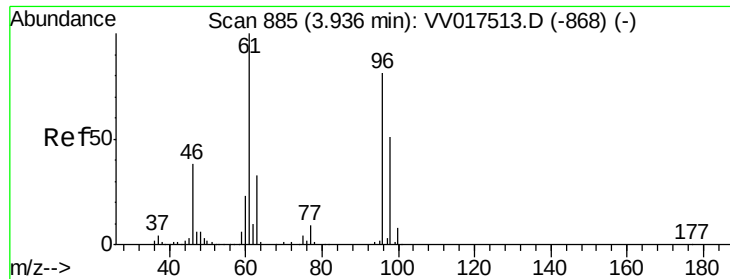
Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Tgt Ion:	63	Resp:	7498
Ion	Ratio	Lower	Upper
63	100		
65	26.9	22.1	41.1
83	14.6	10.1	18.9





#20
 cis-1,2-Dichloroethene
 Concen: 2815.059 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

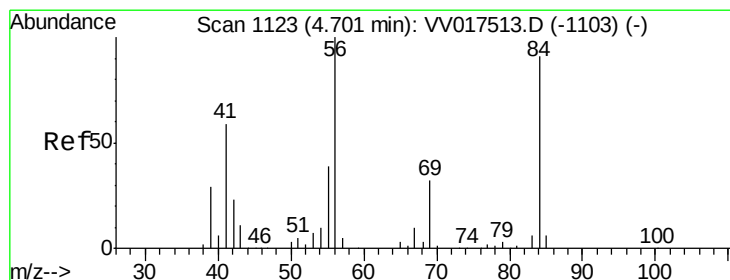
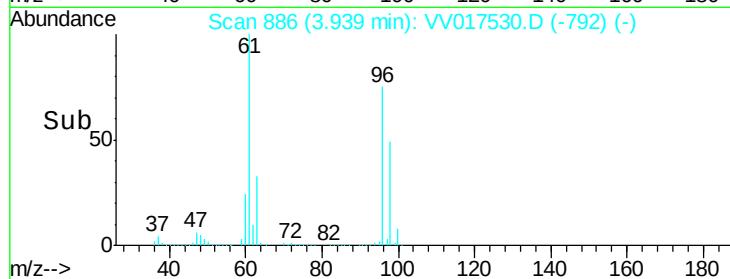
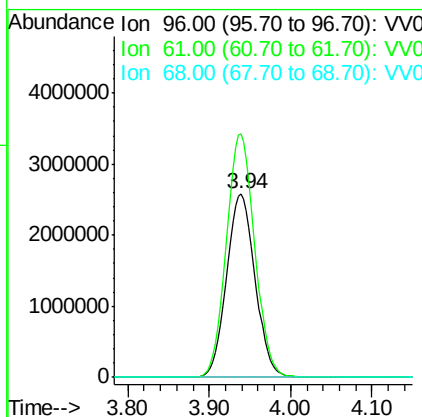
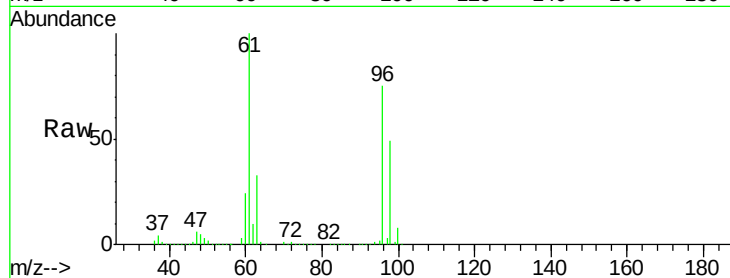
Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5

Tot Ion: 96 Resp: 6315905

Ion	Ratio	Lower	Upper
96	100		
61	132.7	88.9	165.1
68	0.0	0.0	0.0

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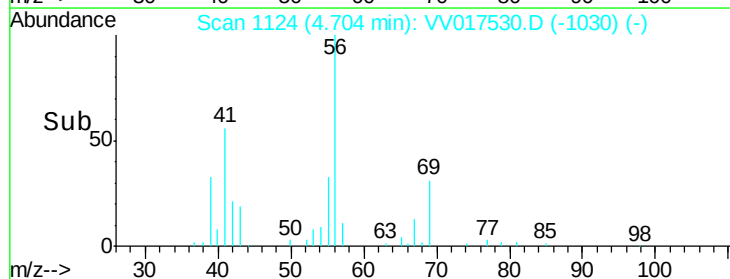
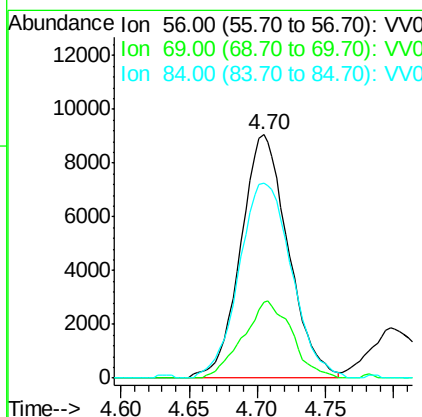
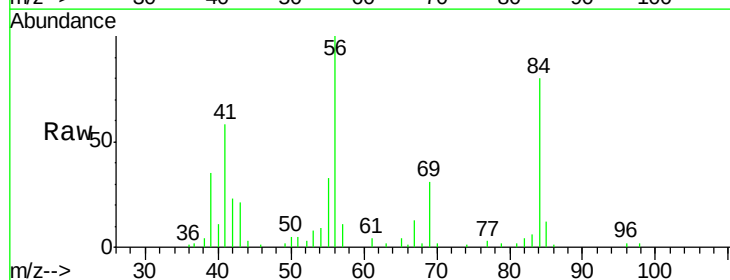
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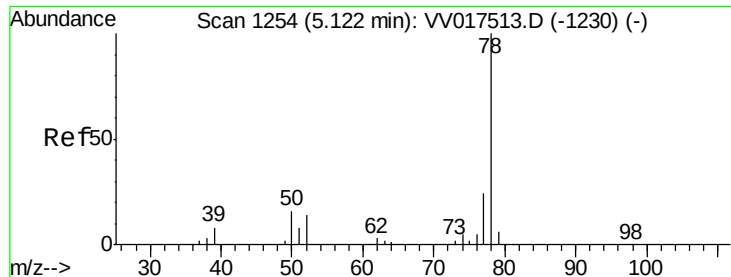


#29
 Cyclohexane
 Concen: 5.992 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Tgt Ion: 56 Resp: 21872

Ion	Ratio	Lower	Upper
56	100		
69	32.7	27.0	40.4
84	88.8	77.4	116.0





#33

Benzene

Concen: 29.636 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

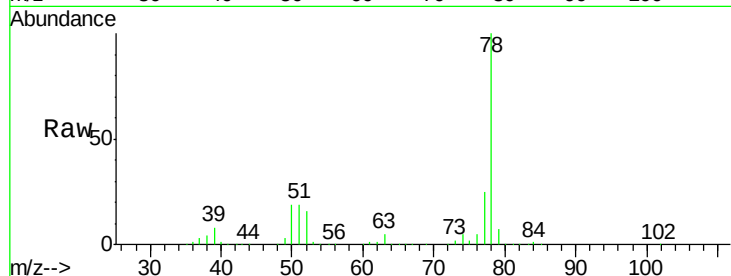
ClientSampled :

PMW-5

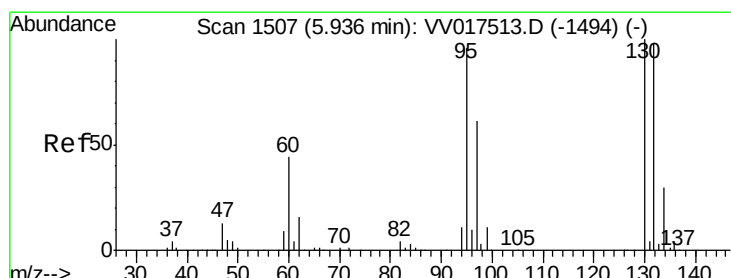
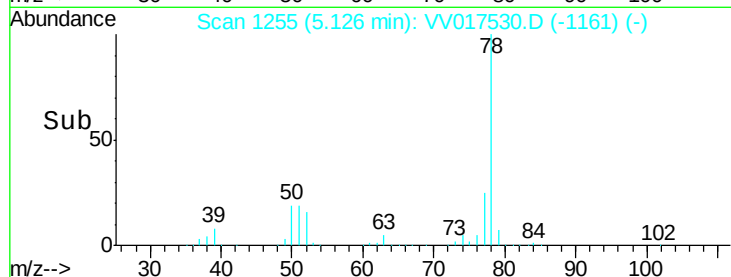
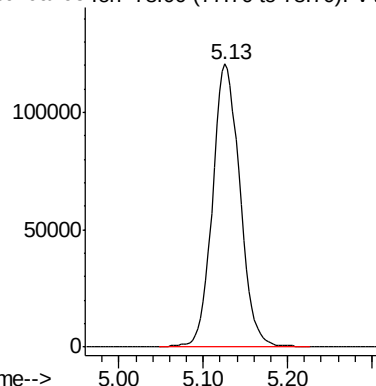
Tgt Ion: 78 Resp: 274232

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Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 3049.340 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Tgt Ion: 95 Resp: 8377146

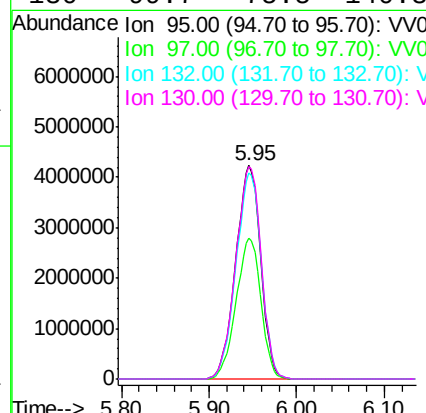
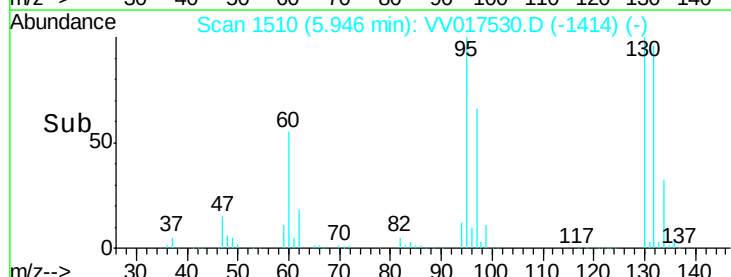
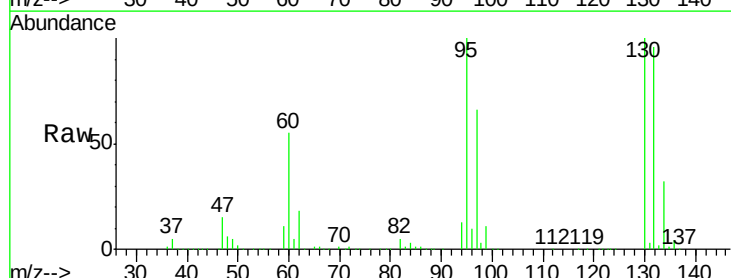
Ion	Ratio	Lower	Upper
95	100		
97	65.8	45.6	84.6
132	96.3	74.1	137.5
130	99.7	75.5	140.3

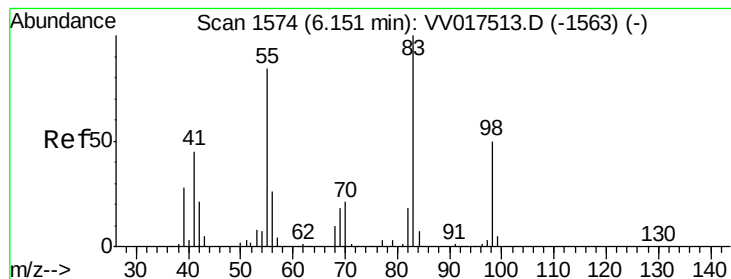
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0





#35

Methylvlcyclohexane

Concen: 22.561 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

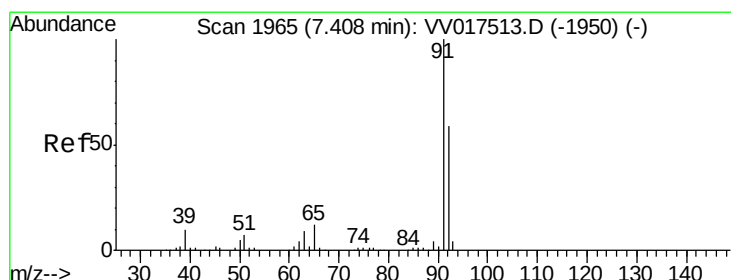
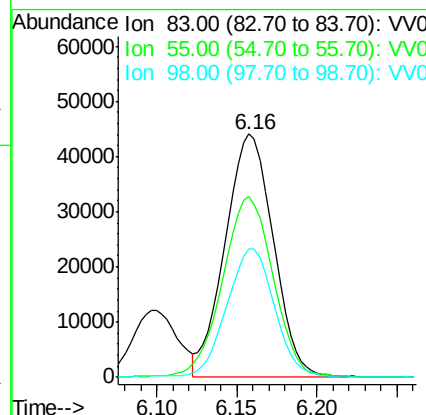
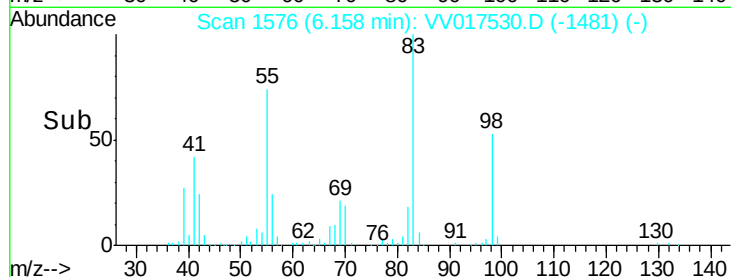
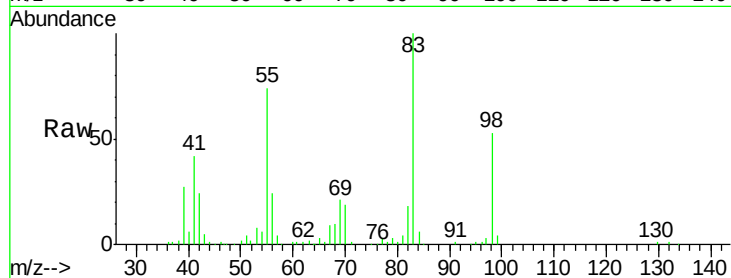
ClientSampled :

PMW-5

Tot Ion:	83	Resp:	90762
Ion	Ratio	Lower	Upper
83	100		
55	78.0	61.0	91.6
98	52.3	41.3	61.9

Manual Integrations
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#42

Toluene

Concen: 3925.345 ug/L m

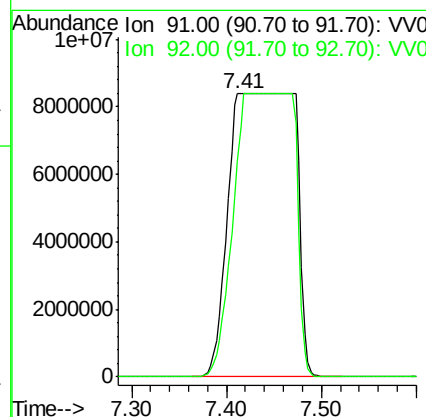
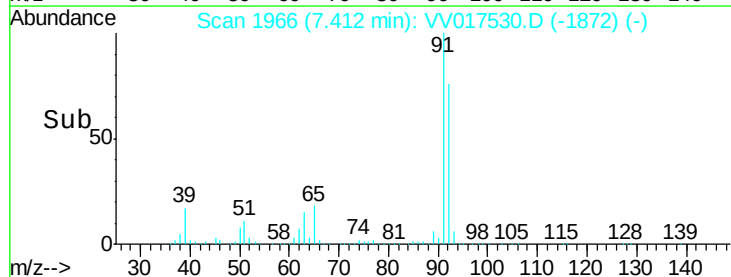
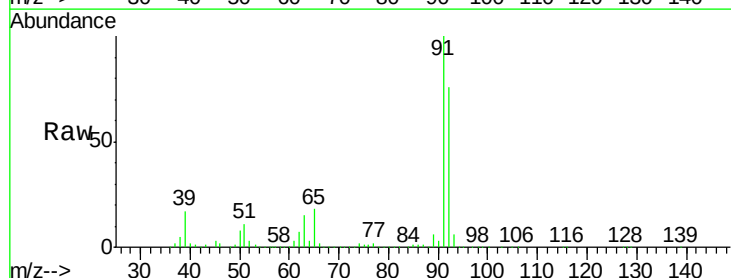
RT: 7.41 min Scan# 1966

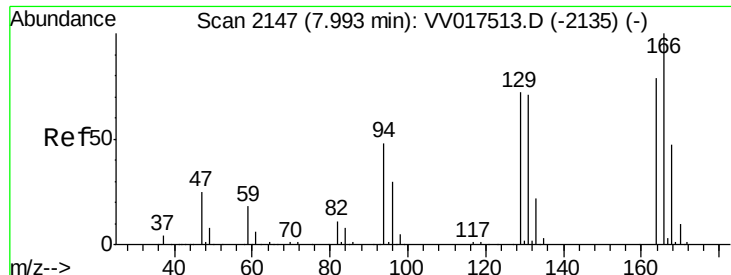
Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Tgt Ion:	91	Resp:	40597564
Ion	Ratio	Lower	Upper
91	100		
92	76.3	40.8	75.8#





#46
Tetrachloroethene
Concen: 7375.589 ug/L
RT: 8.03 min Scan# 2157
Delta R.T. 0.03 min
Lab File: VV017530.D
Acq: 17 Jul 2020 17:50

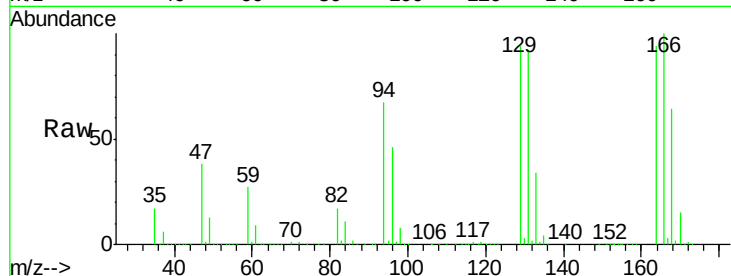
Instrument :
MSVOA_V
ClientSampleId :
PMW-5

Tot Ion:164 Resp:17013607

Ion	Ratio	Lower	Upper
164	100		
129	99.6	66.6	123.8
131	97.4	65.5	121.7
166	105.9	93.9	174.5

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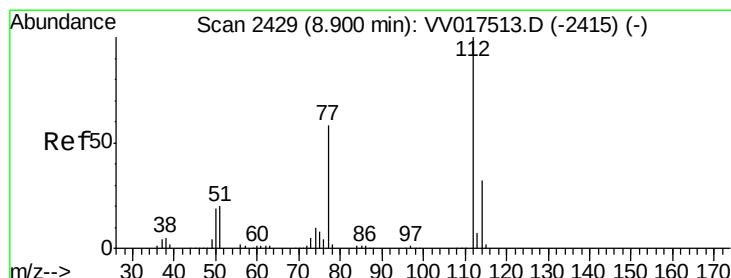
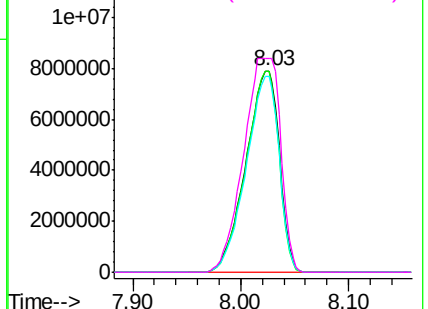
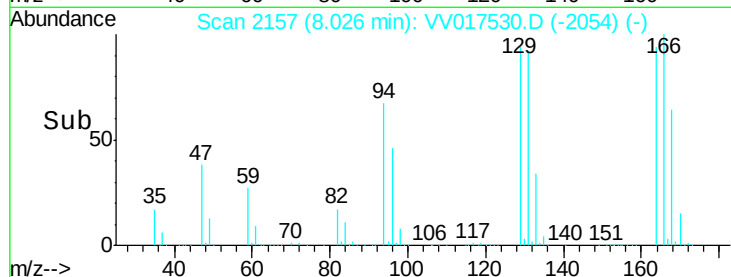
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

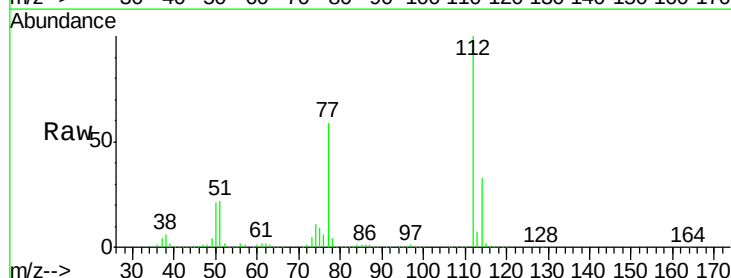
Ion 166.00 (165.70 to 166.70): V



#51
Chlorobenzene
Concen: 375.023 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.01 min
Lab File: VV017530.D
Acq: 17 Jul 2020 17:50

Tgt Ion:112 Resp: 2628306

Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.7	42.1
77	59.1	46.7	70.1

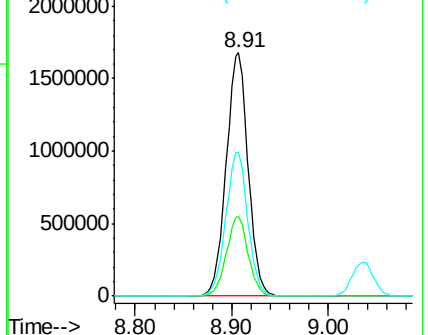
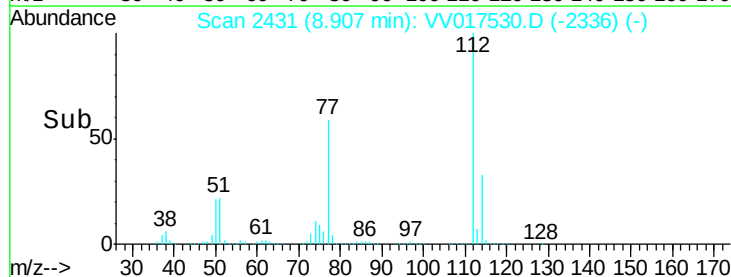


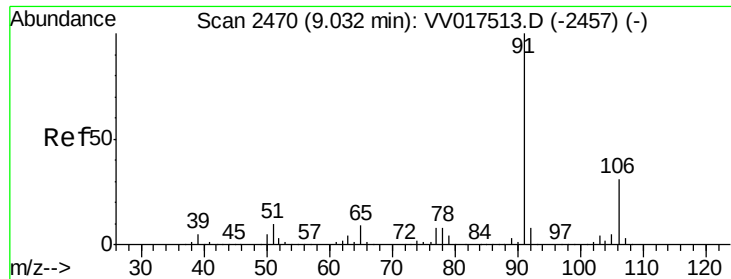
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 346.874 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

PMW-5

Tot Ion: 91 Resp: 4103445

Ion Ratio Lower Upper

91 100

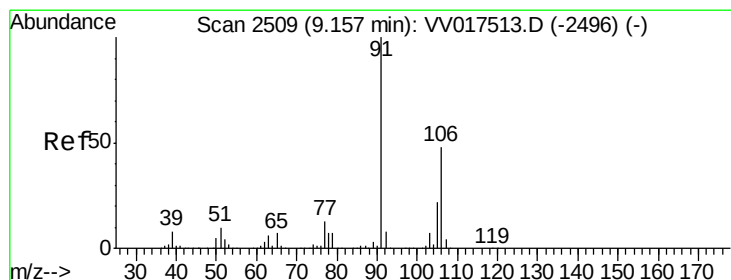
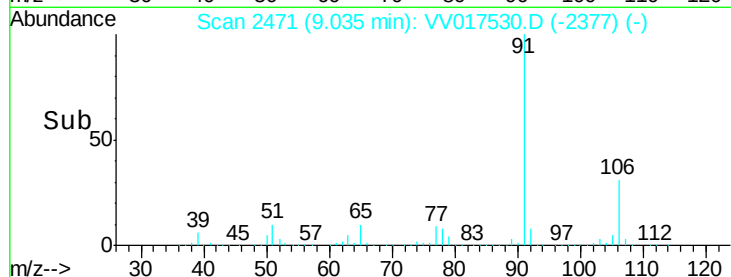
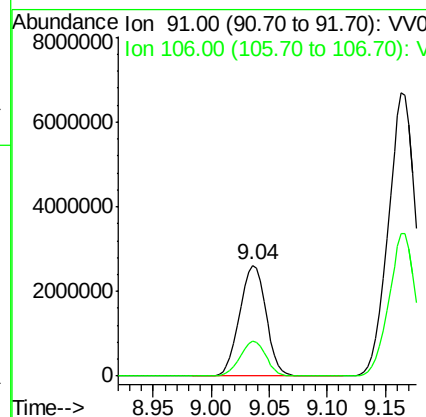
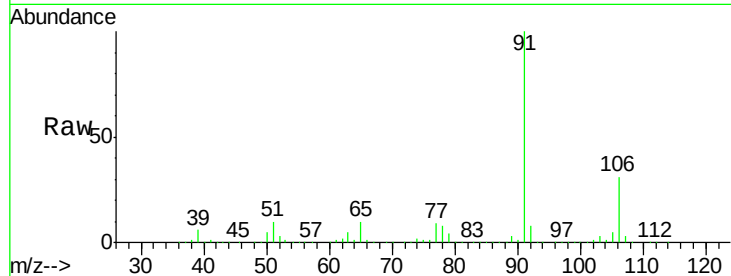
106 31.1 21.8 40.6

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#53

m,p-Xylene

Concen: 1225.857 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV017530.D

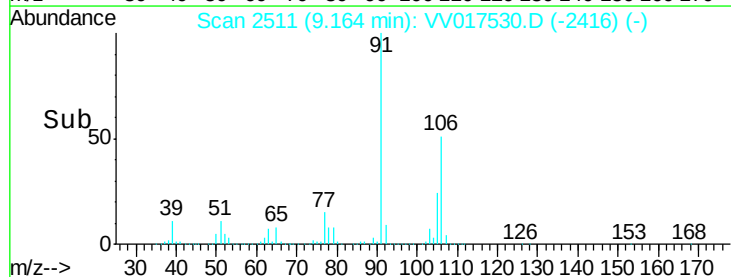
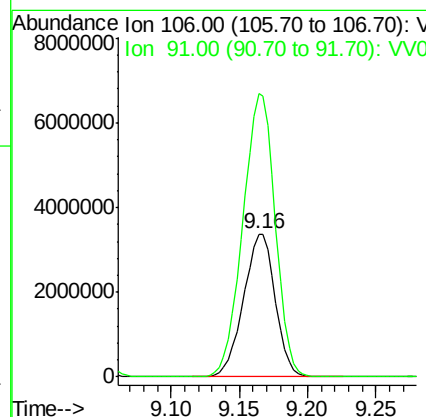
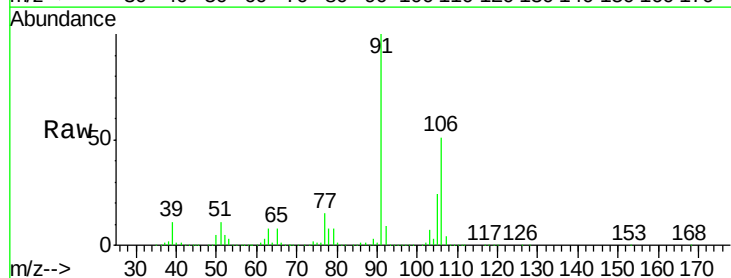
Acq: 17 Jul 2020 17:50

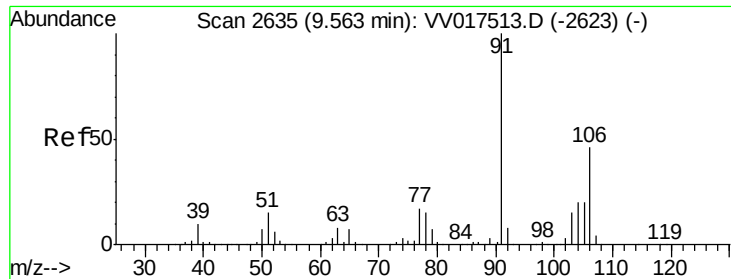
Tgt Ion: 106 Resp: 5429168

Ion Ratio Lower Upper

106 100

91 197.9 146.4 271.8





#54

o-xylene

Concen: 505.053 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

PMW-5

Tot Ion:106 Resp: 2148520

Ion Ratio Lower Upper

106 100

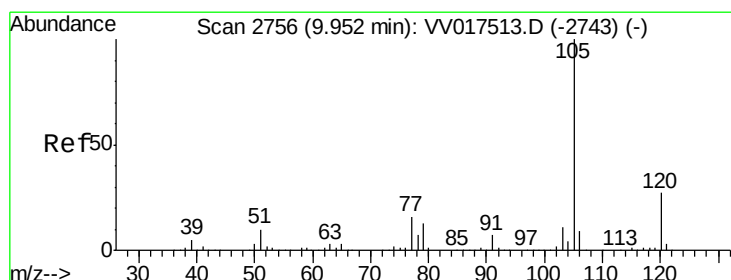
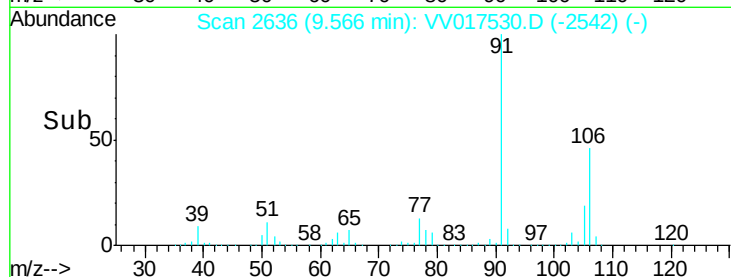
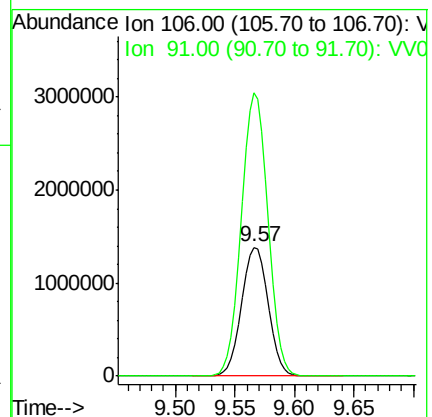
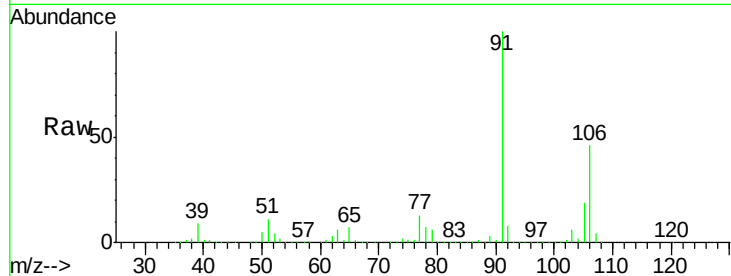
91 219.7 155.6 289.0

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#56

Isopropylbenzene

Concen: 32.416 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

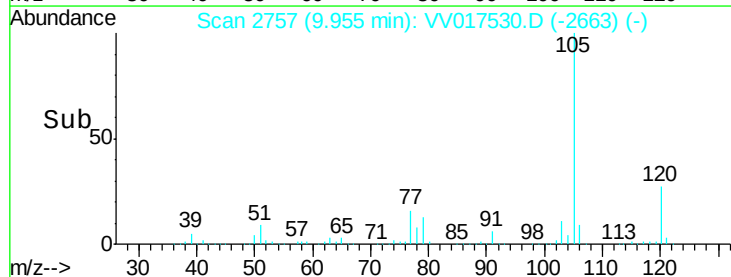
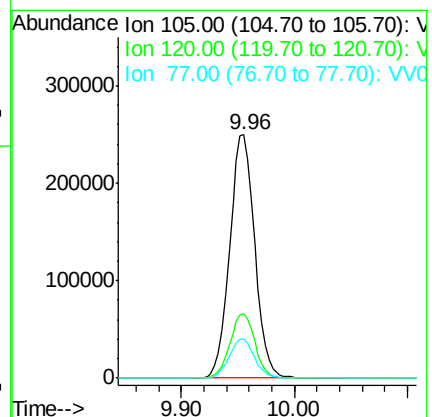
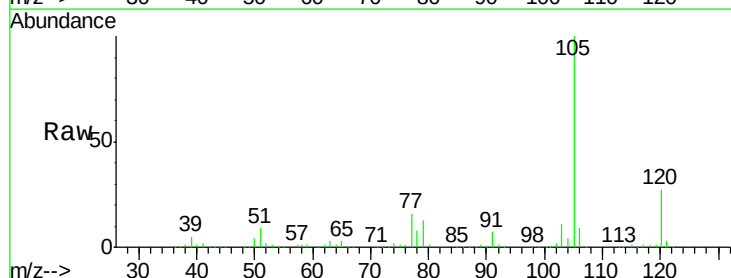
Tgt Ion:105 Resp: 383649

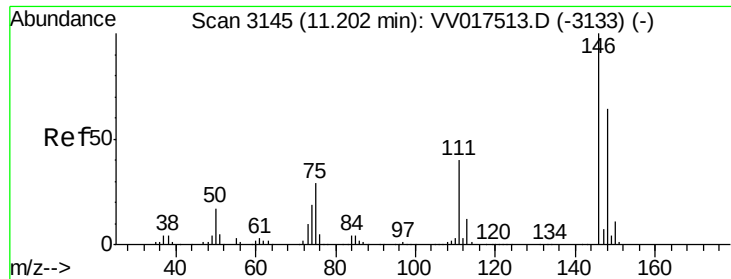
Ion Ratio Lower Upper

105 100

120 26.3 21.1 31.7

77 16.3 13.0 19.6





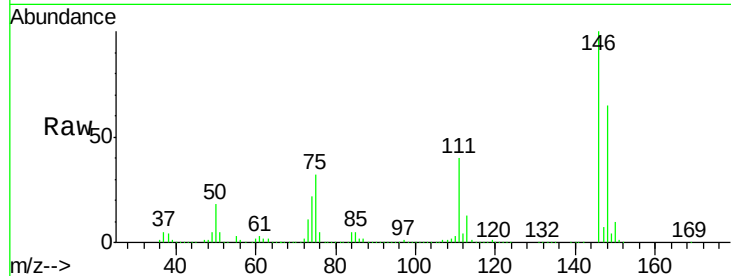
#62
 1,3-Dichlorobenzene
 Concen: 368.831 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Instrument :
 MSVOA_V
 ClientSampled :
 PMW-5

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	27.2	50.6
148	64.6	44.7	82.9

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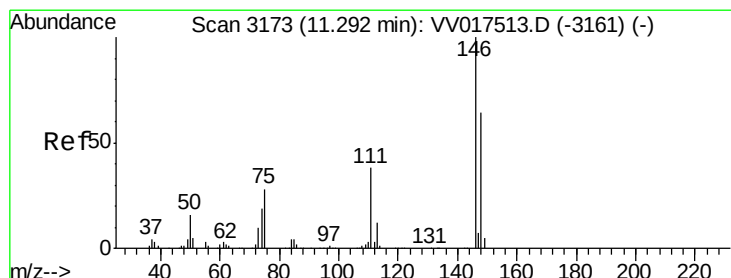
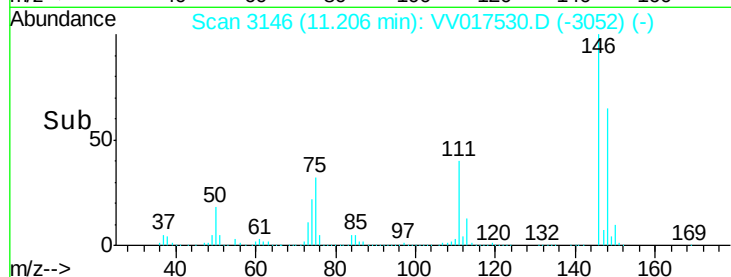
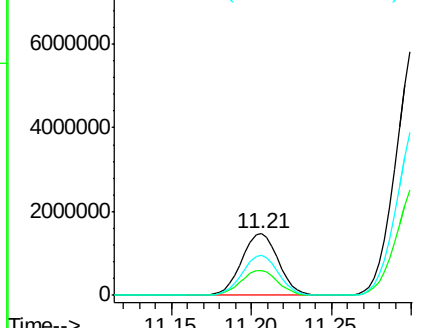


Abundance

Ion 146.00 (145.70 to 146.70): V

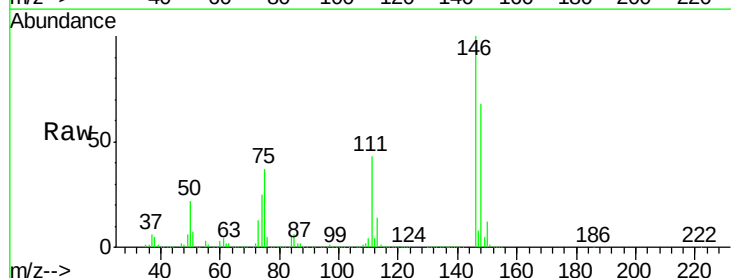
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63
 1,4-Dichlorobenzene
 Concen: 1550.186 ug/L
 RT: 11.30 min Scan# 3176
 Delta R.T. 0.01 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	27.2	50.4
148	67.6	45.4	84.4

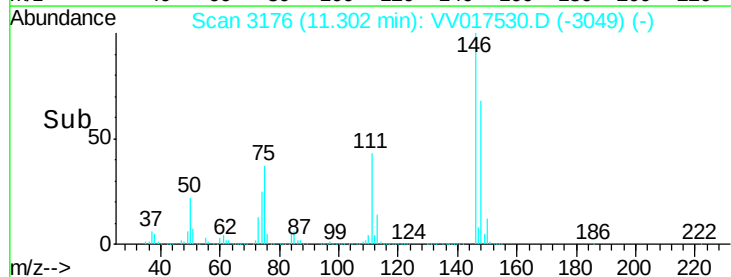
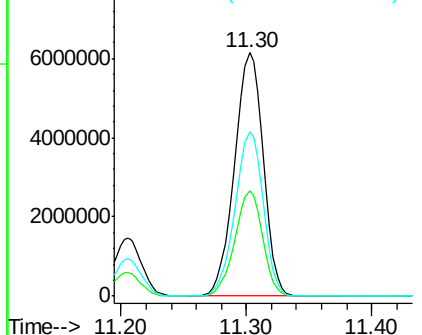


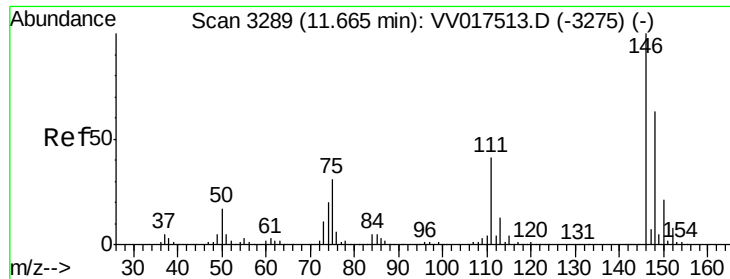
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





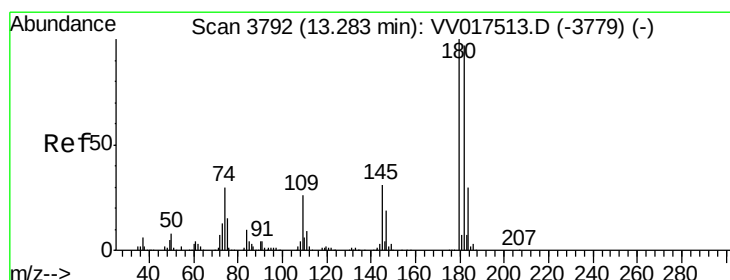
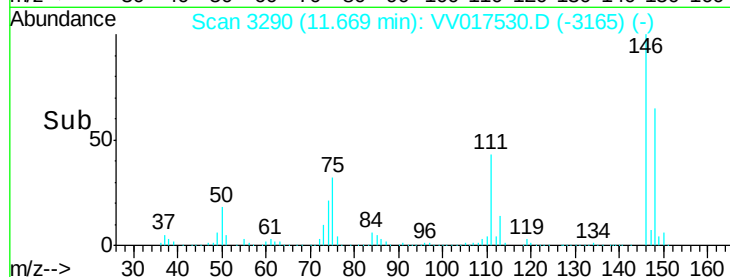
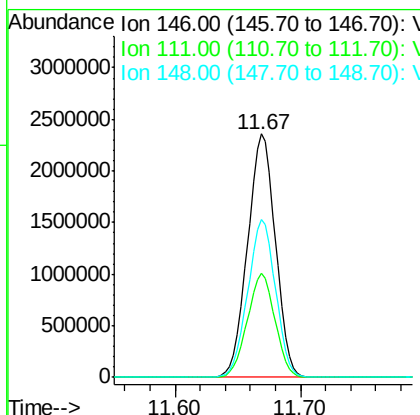
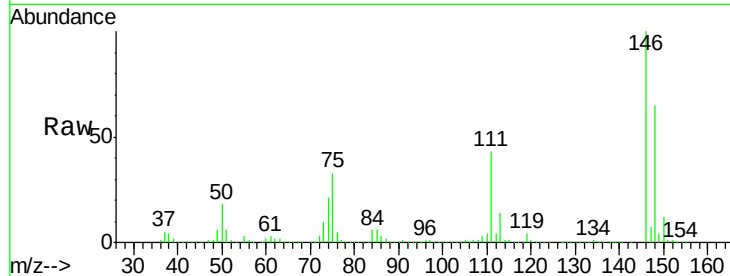
#65
 1,2-Dichlorobenzene
 Concen: 587.888 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.00 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5

Tot Ion:146 Resp: 3643598
 Ion Ratio Lower Upper
 146 100
 111 42.7 33.5 50.3
 148 64.8 50.6 76.0

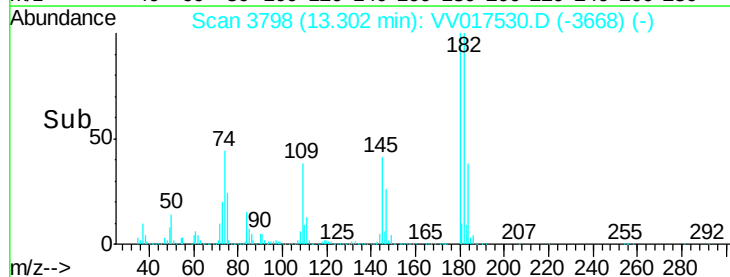
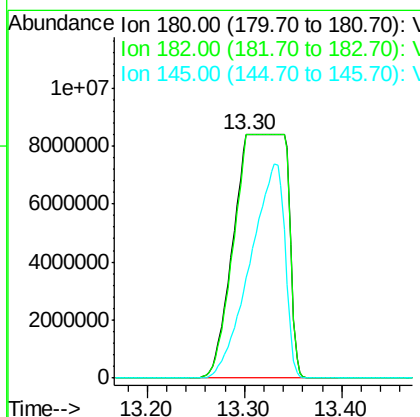
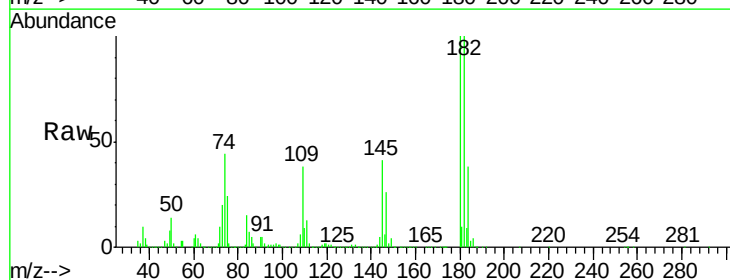
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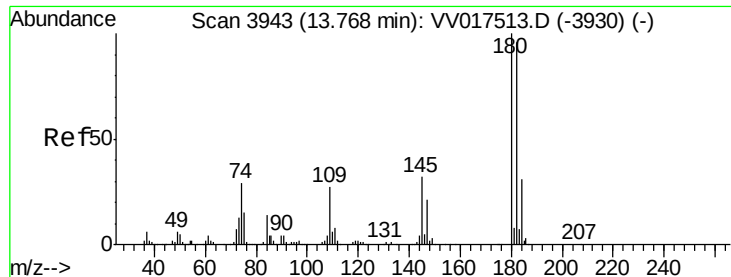
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#68
 1,2,4-trichlorobenzene
 Concen: 7737.091 ug/L m
 RT: 13.30 min Scan# 3798
 Delta R.T. 0.02 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Tgt Ion:180 Resp:31775257
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.0 114.0#
 145 0.0 24.6 36.8#





#70
 1,2,3-Trichlorobenzene
 Concen: 2728.273 ug/L
 RT: 13.78 min Scan# 3948
 Delta R.T. 0.02 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5

Tot Ion:180 Resp:11397276
 Ion Ratio Lower Upper
 180 100
 182 96.7 76.3 114.5
 145 35.6 26.5 39.7

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