

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031820\
 Data File : VV015039.D
 Acq On : 19 Mar 2020 01:39
 Operator : SY/MD
 Sample : L1941-19
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL9

Manual Integrations
 APPROVED

sam
 3/19/2020 11:31:04 AM

Quant Time: Mar 19 06:48:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 19 04:08:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	350153	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.92	117	350134	50.00	ug/L	0.04
60) 1,4-Dichlorobenzene-d4	11.30	152	238758	50.00	ug/L	0.03

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	83324	50.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.86%
7) Chloroethane-d5	1.58	69	66391	51.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.50%
11) 1,1-Dichloroethene-d2	2.12	63	107497	38.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.88%
21) 2-Butanone-d5	3.93	46	97759	88.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.14%
24) Chloroform-d	4.38	84	264837	63.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	126.46%#
26) 1,2-Dichloroethane-d4	5.07	65	131127	49.73	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.46%
32) Benzene-d6	5.09	84	413081	49.72	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.44%
36) 1,2-Dichloropropane-d6	6.10	67	120162	49.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.86%
41) Toluene-d8	7.34	98	424341	50.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.46%
43) trans-1,3-Dichloropropene-	7.64	79	61387	47.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.48%
47) 2-Hexanone-d5	8.13	63	109570	97.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.81%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	186060	50.86	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.72%
64) 1,2-Dichlorobenzene-d4	11.68	152	237682	49.59	ug/L	0.04
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.18%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.20	43	13111m	14.213	ug/L	
25) Chloroform	4.41	83	1583328	385.220	ug/L	99
29) Cyclohexane	4.71	56	21419	6.814	ug/L	96
31) Carbon tetrachloride	4.86	117	386428	113.841	ug/L	97
33) Benzene	5.13	78	34493370m	4024.417	ug/L	
34) Trichloroethene	5.94	95	5905	2.543	ug/L	88
35) Methylcyclohexane	6.16	83	9433m	2.560	ug/L	
38) Bromodichloromethane	6.53	83	14029	4.641	ug/L	95
42) Toluene	7.41	91	19638	2.027	ug/L	94
46) Tetrachloroethene	8.00	164	6271	2.844	ug/L	91
49) Dibromochloromethane	8.27	129	5962	2.270	ug/L	79
51) Chlorobenzene	8.90	112	51487226m	7557.746	ug/L	
62) 1,3-Dichlorobenzene	11.21	146	11208488	1559.626	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	33955521m	4539.077	ug/L	
65) 1,2-Dichlorobenzene	11.68	146	37360232m	4894.331	ug/L	
67) 1,3,5-Trichlorobenzene	12.67	180	17546	3.086	ug/L	98
68) 1,2,4-trichlorobenzene	13.29	180	18751717m	3581.016	ug/L	

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QLast Update : Thu Mar 19 04:08:09 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	13.77	180	6420556	1248.045	ug/L	98

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

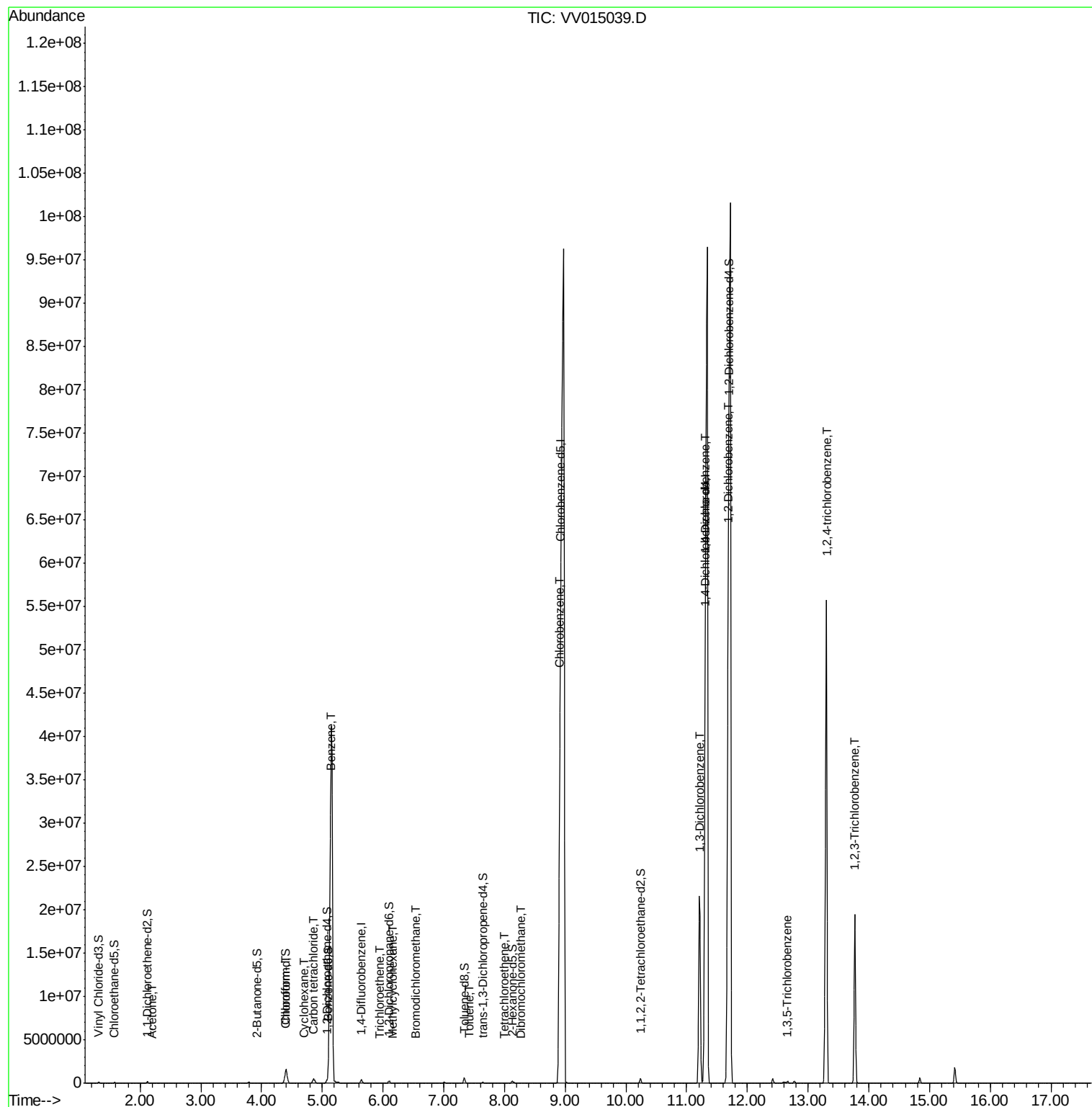
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031820\
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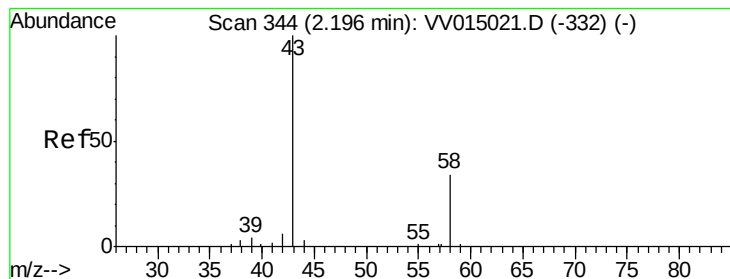
Instrument :
MSVOA_V
ClientSampleId :
C0DL9

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031820WMA.M
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#13

Acetone

Concen: 14.213 ug/L m

RT: 2.20 min Scan# 345

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

C0DL9

Tot Ion: 43 Resp: 13111

Ion Ratio Lower Upper

43 100

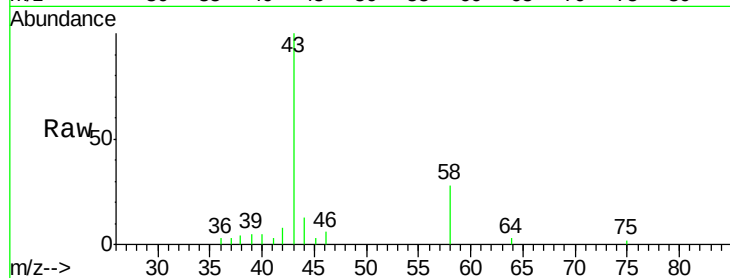
58 27.0 0.0 43.2

Manual Integrations

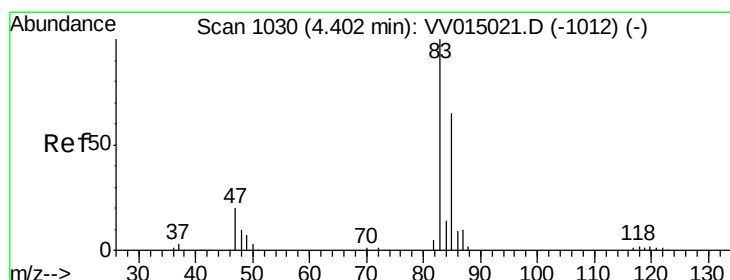
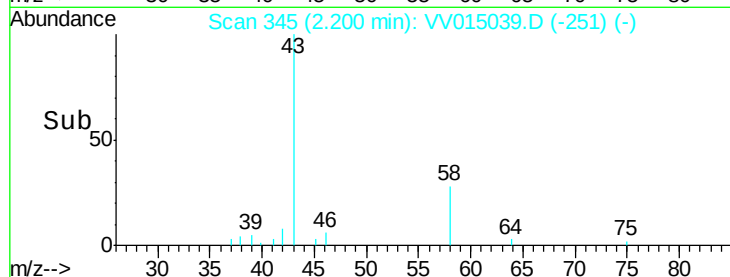
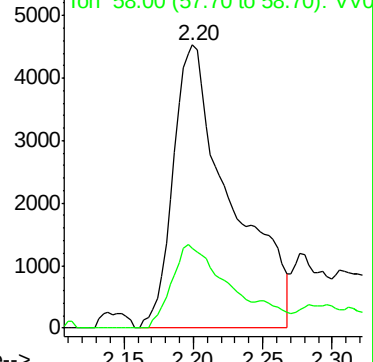
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Abundance Ion 43.00 (42.70 to 43.70): VV015039.D (-251) (-)



#25

Chloroform

Concen: 385.220 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VV015039.D

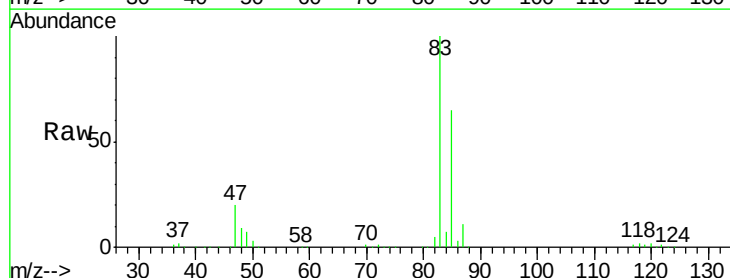
Acq: 19 Mar 2020 01:39

Tgt Ion: 83 Resp: 1583328

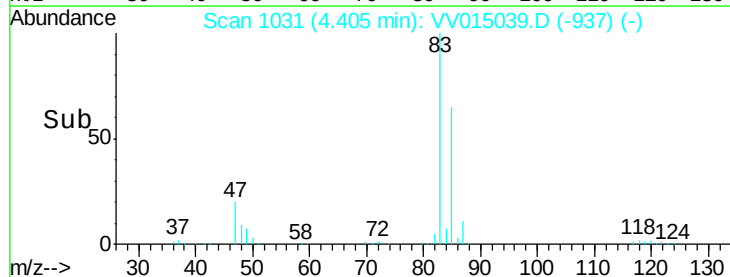
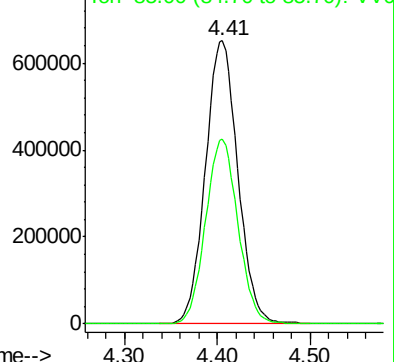
Ion Ratio Lower Upper

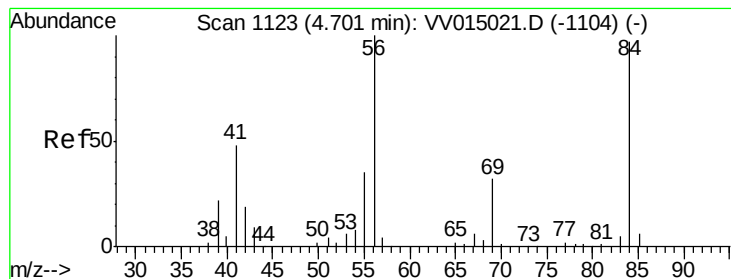
83 100

85 65.3 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VV015039.D (-937) (-)





#29

Cyclohexane

Concen: 6.814 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

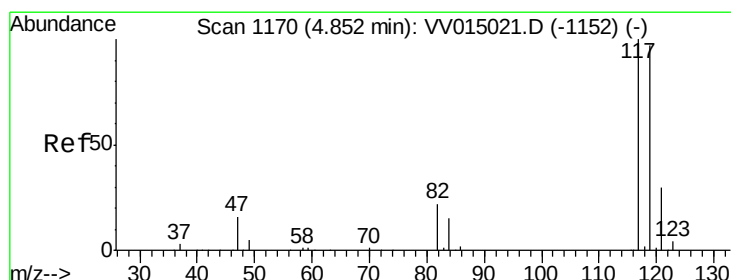
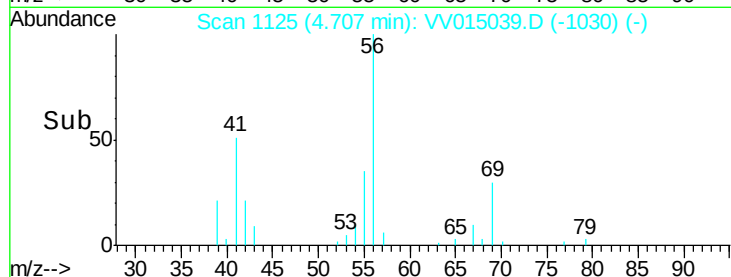
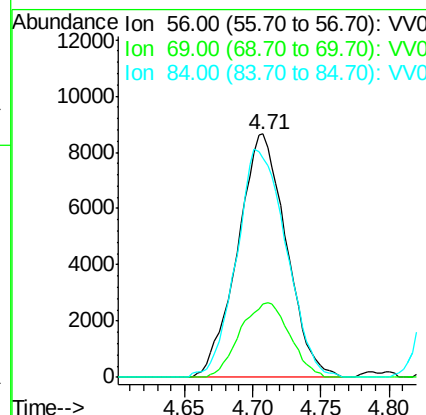
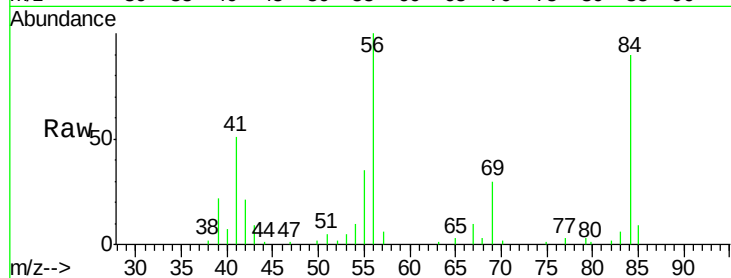
ClientSampled :

C0DL9

Tot Ion:	56	Resp:	21419
Ion Ratio	Lower	Upper	
56	100		
69	31.2	25.8	38.6
84	95.8	80.0	120.0

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#31

Carbon tetrachloride

Concen: 113.841 ug/L

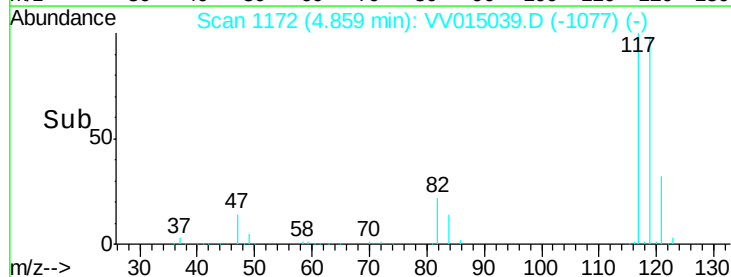
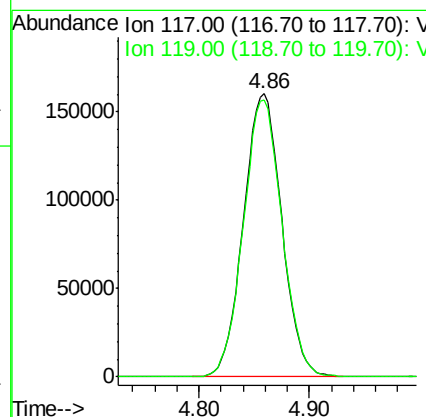
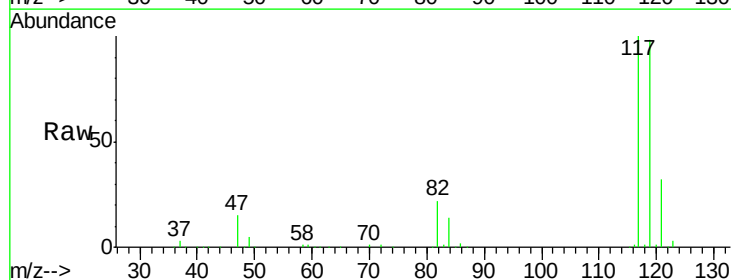
RT: 4.86 min Scan# 1172

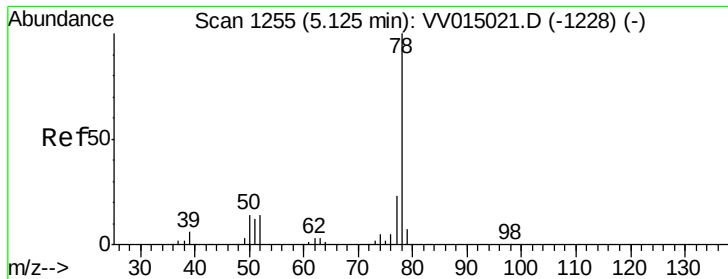
Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Tgt Ion:	117	Resp:	386428
Ion Ratio	Lower	Upper	
117	100		
119	98.5	76.6	114.8





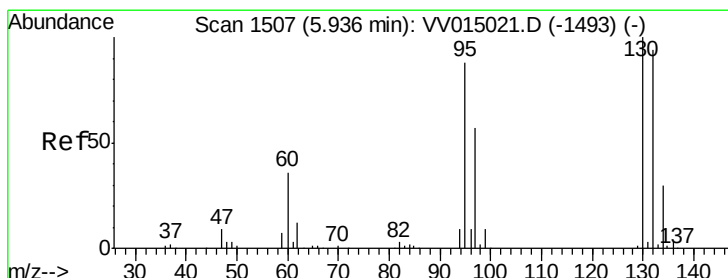
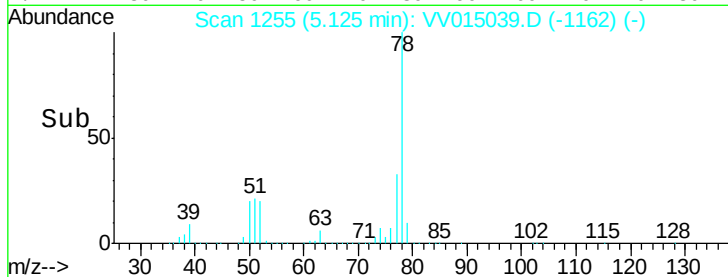
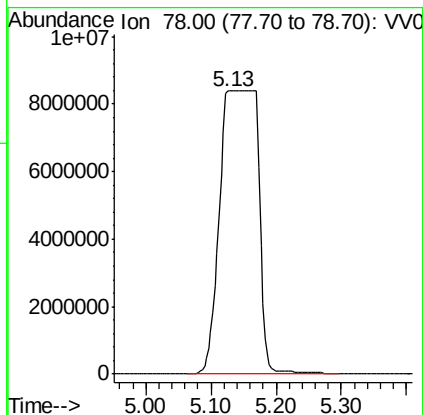
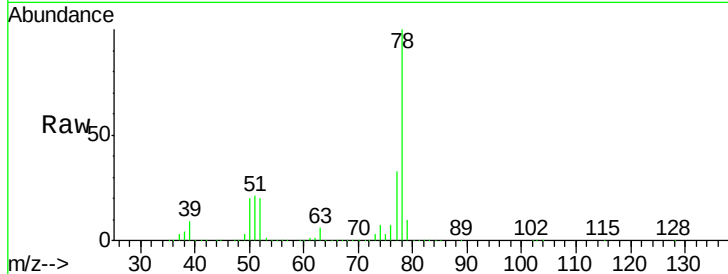
#33
Benzene
Concen: 4024.417 ug/L m
RT: 5.13 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

Instrument :
MSVOA_V
ClientSampleId :
C0DL9

Tgt Ion: 78 Resp:34493370

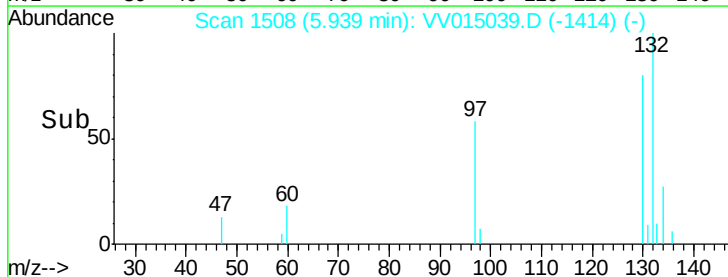
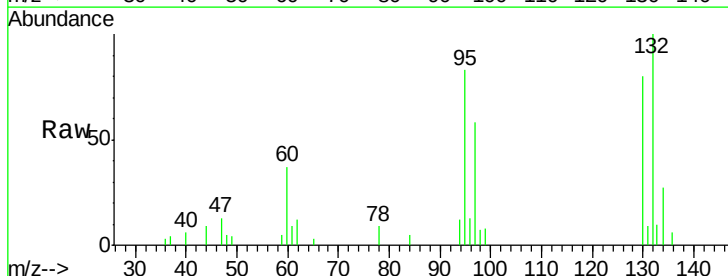
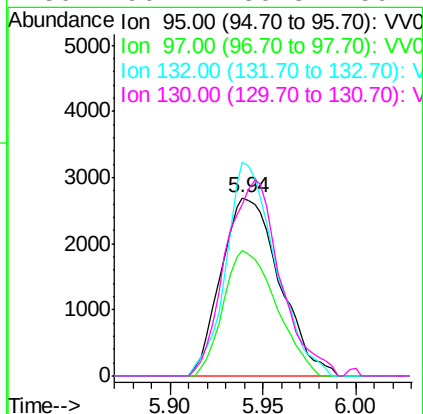
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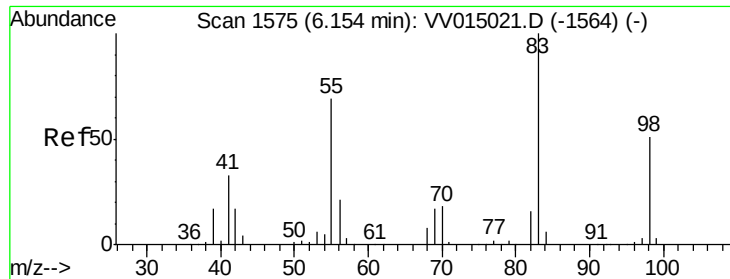
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#34
Trichloroethene
Concen: 2.543 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

Tgt Ion: 95 Resp: 5905
Ion Ratio Lower Upper
95 100
97 70.1 46.8 87.0
132 119.9 76.2 141.4
130 96.4 80.8 150.2





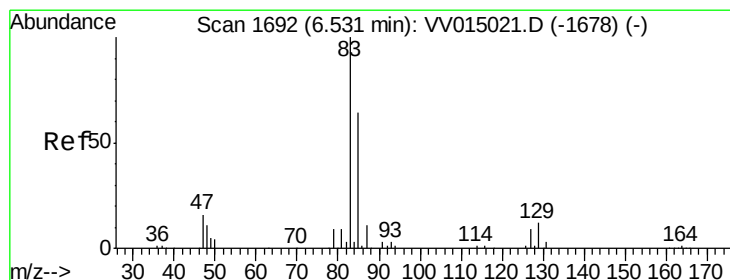
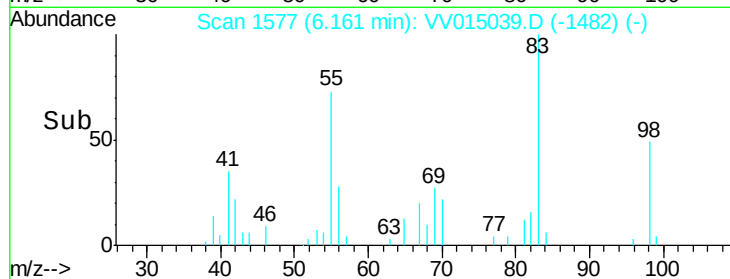
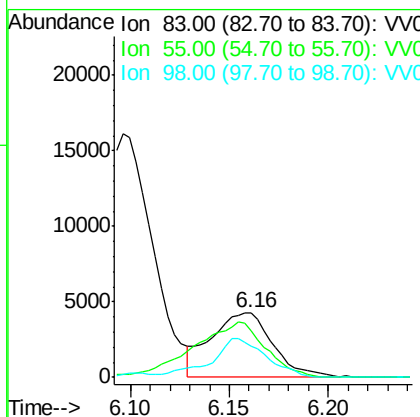
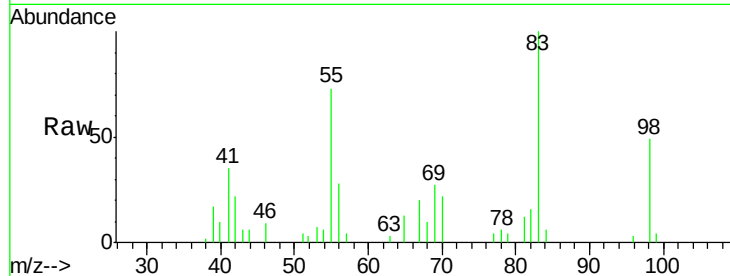
#35
Methvlcvclohexane
Concen: 2.560 ug/L m
RT: 6.16 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

Instrument :
MSVOA_V
ClientSampled :
C0DL9

Tot Ion: 83 Resp: 9433
Ion Ratio Lower Upper
83 100
55 98.4 55.4 83.0#
98 52.9 40.6 61.0

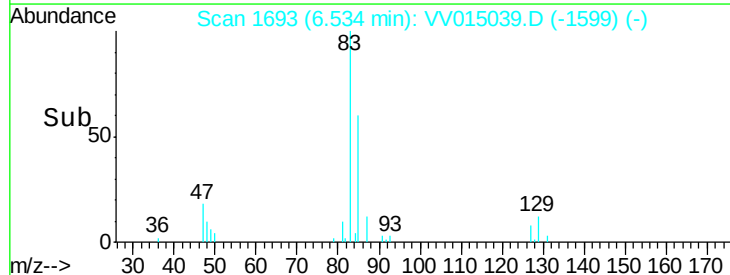
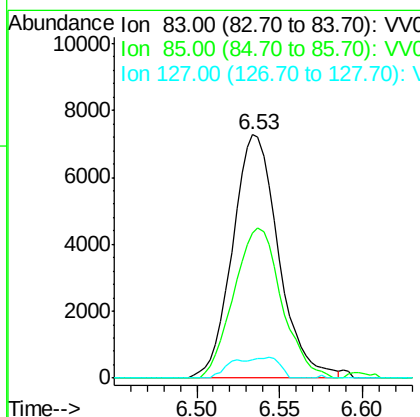
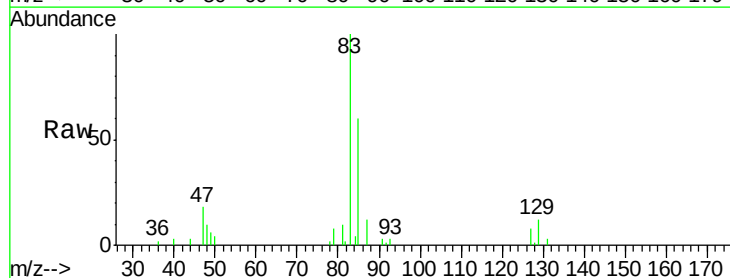
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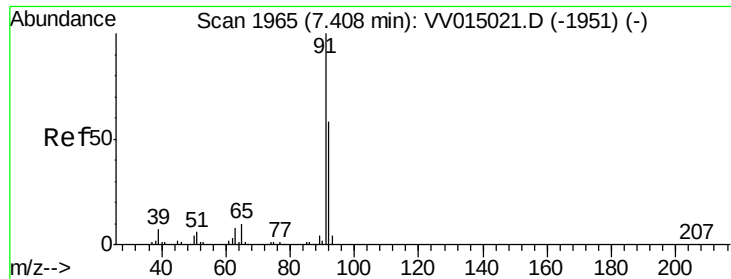
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#38
Bromodichloromethane
Concen: 4.641 ug/L
RT: 6.53 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

Tgt Ion: 83 Resp: 14029
Ion Ratio Lower Upper
83 100
85 59.8 44.6 82.8
127 7.7 7.4 11.2





#42

Toluene

Concen: 2.027 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

C0DL9

Tot Ion: 91 Resp: 19638

Ion Ratio Lower Upper

91 100

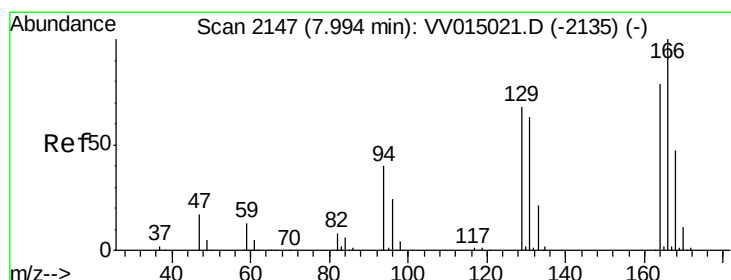
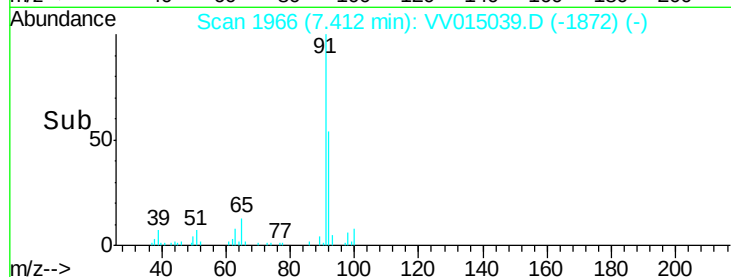
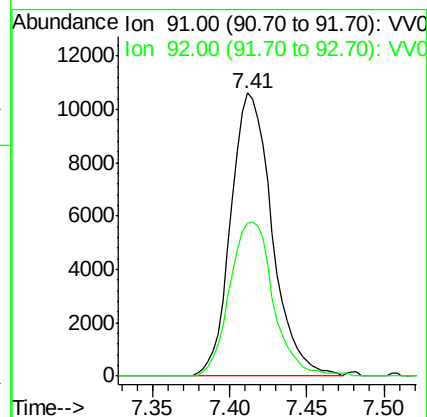
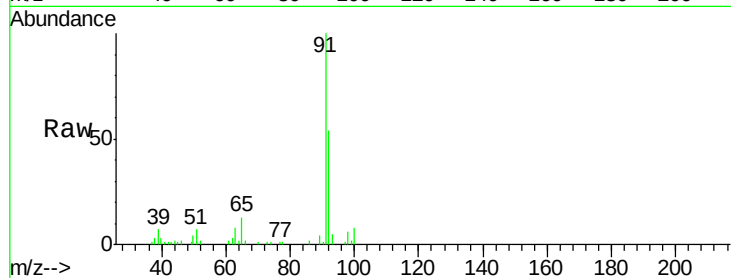
92 54.2 41.2 76.4

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#46

Tetrachloroethene

Concen: 2.844 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Tgt Ion: 164 Resp: 6271

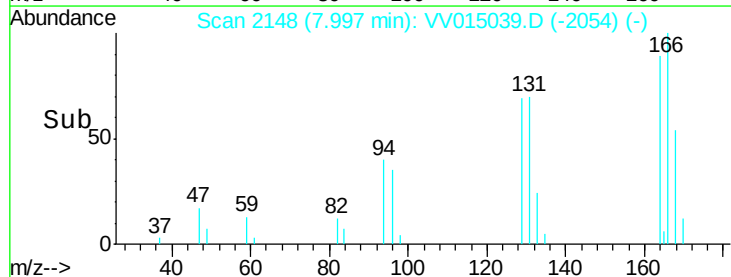
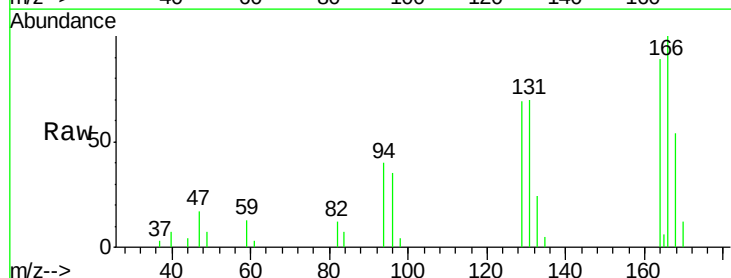
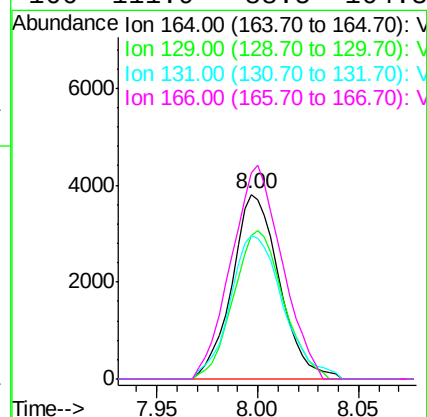
Ion Ratio Lower Upper

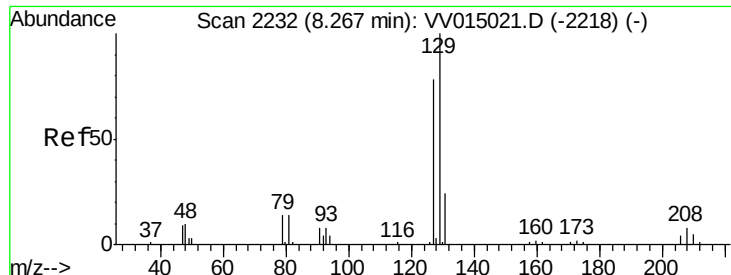
164 100

129 77.4 60.4 112.2

131 78.0 57.0 105.8

166 111.9 88.5 164.3





#49

Dibromochloromethane

Concen: 2.270 ug/L

RT: 8.27 min Scan# 2233

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

C0DL9

Tot Ion:129 Resp: 5962

Ion Ratio Lower Upper

129 100

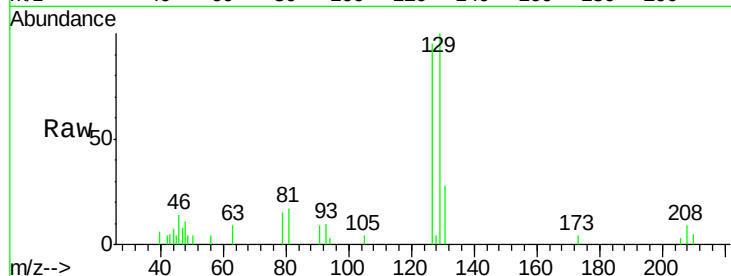
127 95.0 53.8 99.8

Manual Integrations

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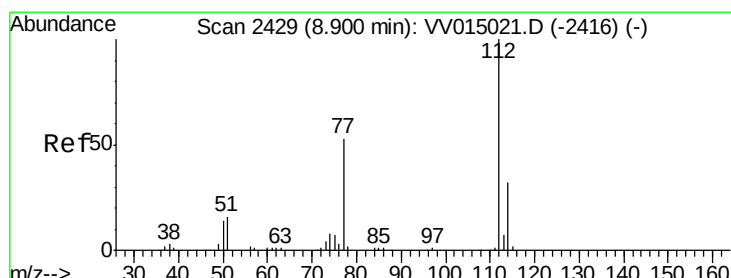
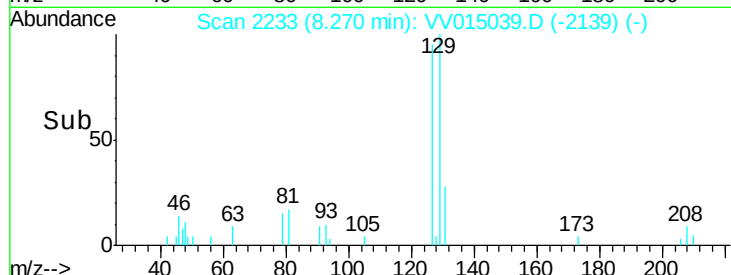
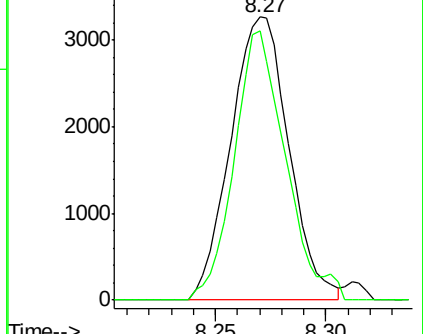
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

Chlorobenzene

Concen: 7557.746 ug/L m

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

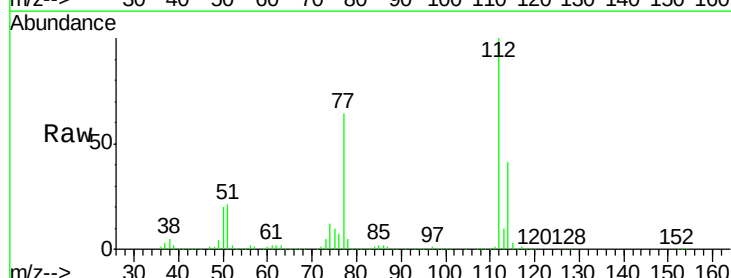
Tgt Ion:112 Resp:51487226

Ion Ratio Lower Upper

112 100

114 40.9 22.4 41.6

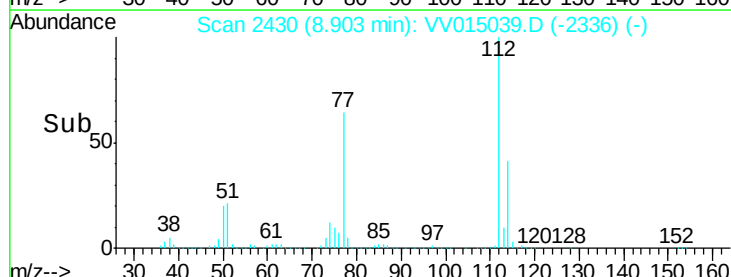
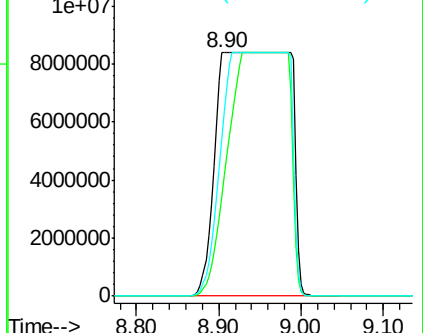
77 64.5 42.9 64.3#

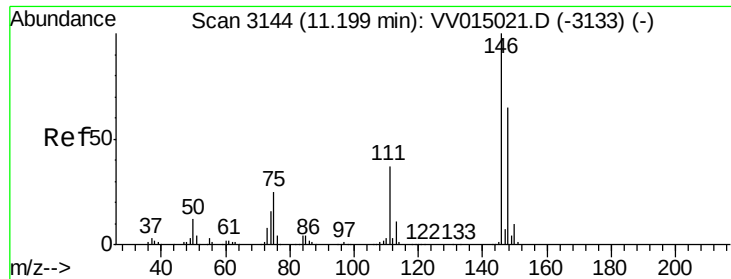


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





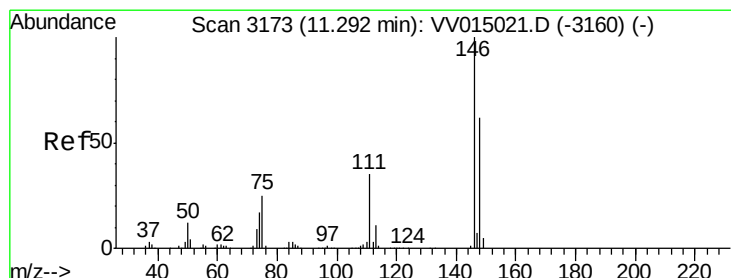
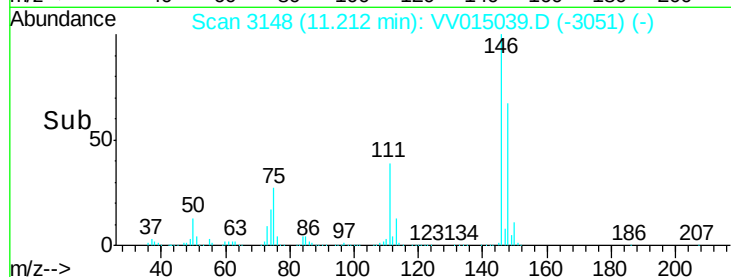
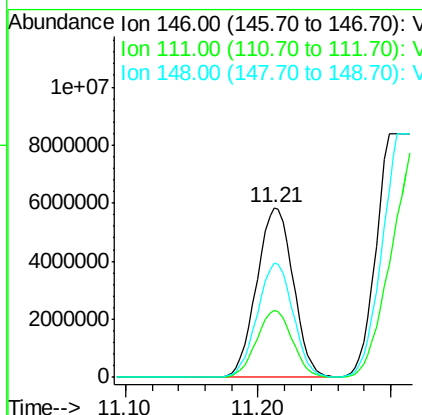
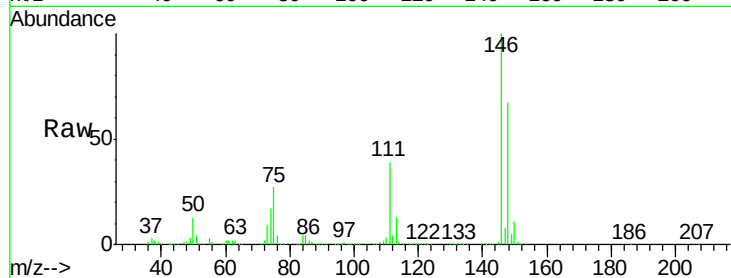
#62
 1,3-Dichlorobenzene
 Concen: 1559.626 ug/L
 RT: 11.21 min Scan# 3148
 Delta R.T. 0.01 min
 Lab File: VV015039.D
 Acq: 19 Mar 2020 01:39

Instrument :
 MSVOA_V
 ClientSampled :
 C0DL9

Tot Ion:146 Resp:11208488
 Ion Ratio Lower Upper
 146 100
 111 39.4 25.7 47.7
 148 67.2 45.4 84.4

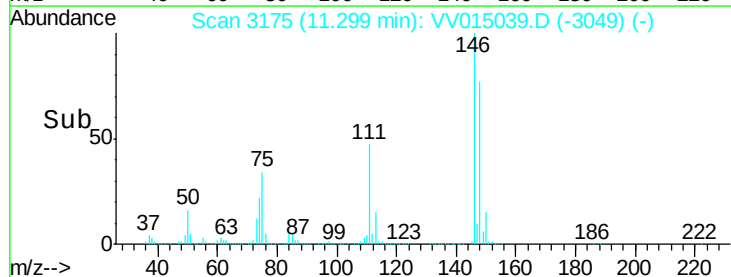
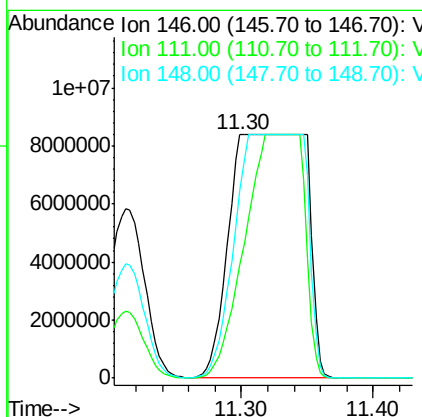
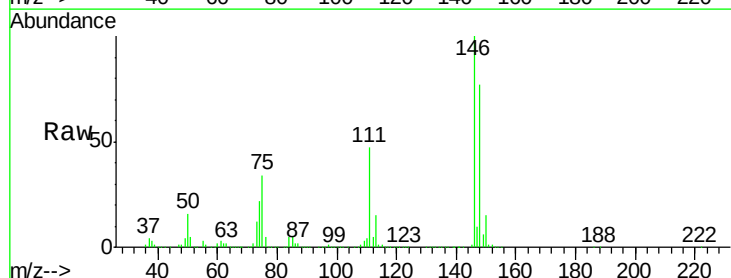
Manual Integrations
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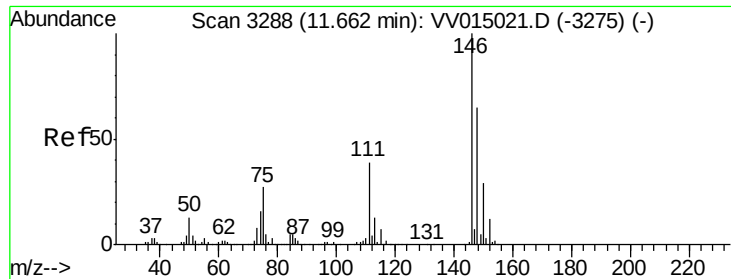
sam
 3/19/2020 11:31:04 AM



#63
 1,4-Dichlorobenzene
 Concen: 4539.077 ug/L m
 RT: 11.30 min Scan# 3175
 Delta R.T. 0.01 min
 Lab File: VV015039.D
 Acq: 19 Mar 2020 01:39

Tgt Ion:146 Resp:33955521
 Ion Ratio Lower Upper
 146 100
 111 46.5 25.8 48.0
 148 76.9 45.7 84.9





#65

1,2-Dichlorobenzene

Concen: 4894.331 ug/L m

RT: 11.68 min Scan# 3292

Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampled :

C0DL9

Tot Ion:146 Resp:37360232

Ion Ratio Lower Upper

146 100

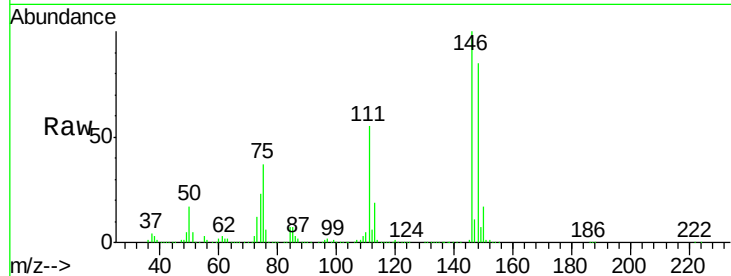
111 55.4 31.5 47.3#

148 84.9 51.7 77.5#

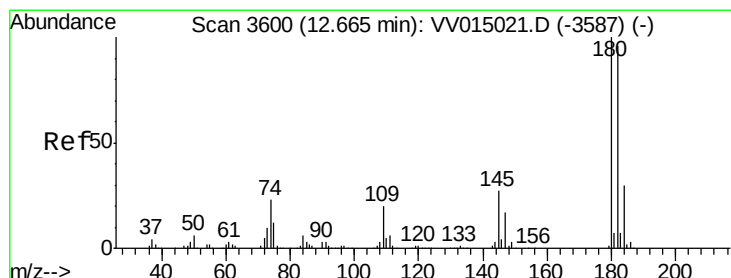
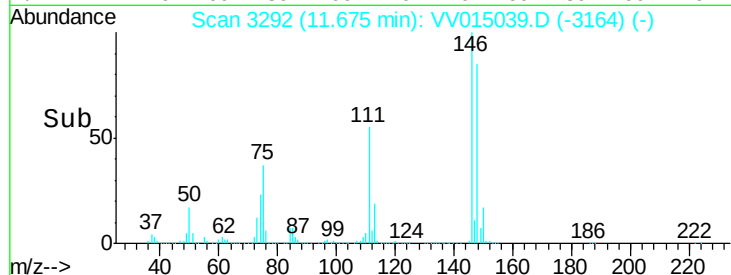
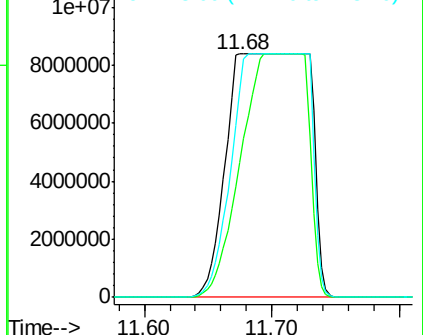
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 3.086 ug/L

RT: 12.67 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Tgt Ion:180 Resp: 17546

Ion Ratio Lower Upper

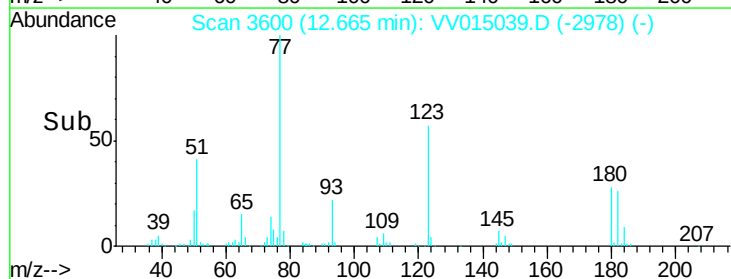
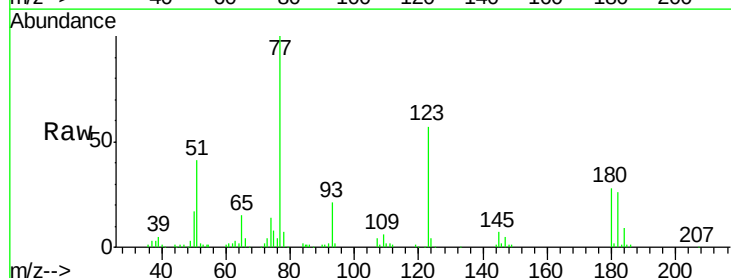
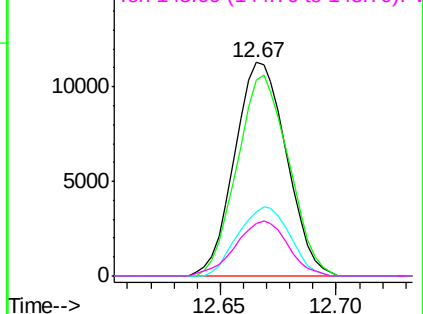
180 100

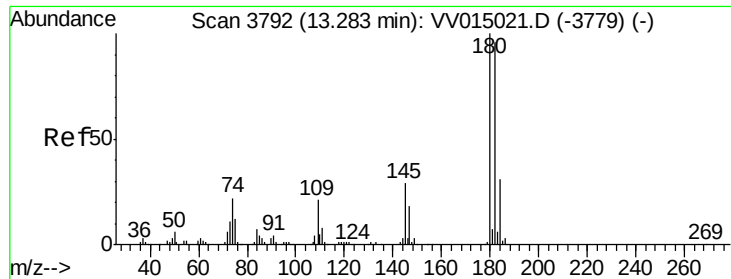
182 93.2 75.2 112.8

184 32.4 23.9 35.9

145 25.9 22.0 33.0

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





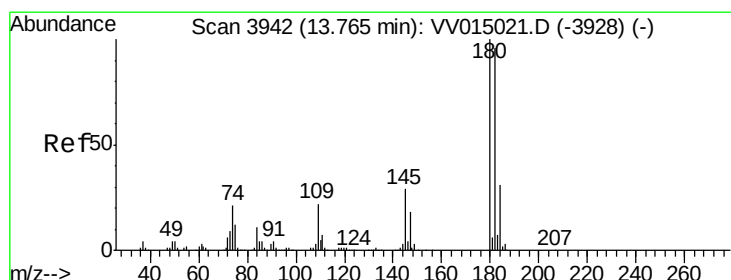
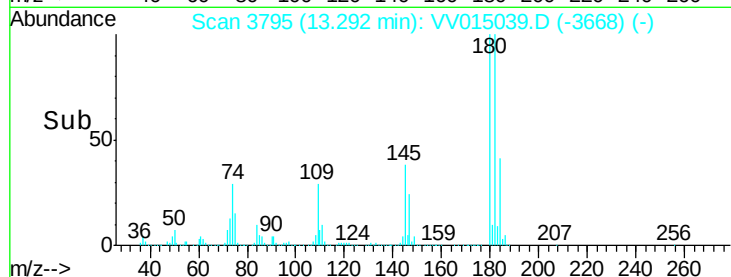
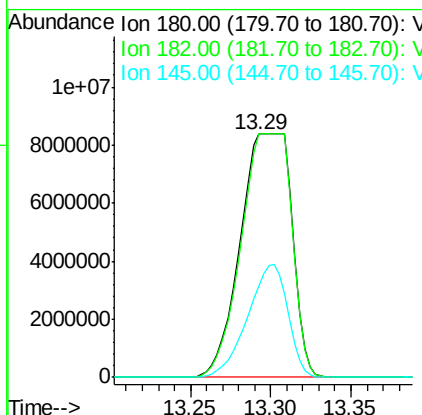
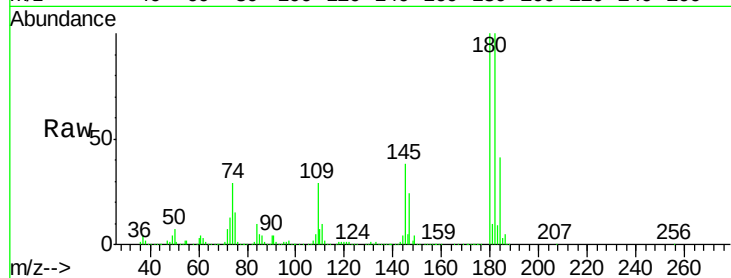
#68
 1,2,4-trichlorobenzene
 Concen: 3581.016 ug/L m
 RT: 13.29 min Scan# 3795
 Delta R.T. 0.01 min
 Lab File: VV015039.D
 Acq: 19 Mar 2020 01:39

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL9

Tot Ion:180 Resp:18751717
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.3 114.5#
 145 36.2 22.2 33.4#

Manual Integrations
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#70
 1,2,3-Trichlorobenzene
 Concen: 1248.045 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV015039.D
 Acq: 19 Mar 2020 01:39

Tgt Ion:180 Resp: 6420556
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.5 113.3
 145 30.0 23.5 35.3

