

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071520\
 Data File : VV071501.D
 Acq On : 15 Jul 2020 10:43
 Operator : SY/MD
 Sample : L3260-01DL 4X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 X2M71DL

Manual Integrations
 APPROVED

MMDadoda
 7/16/2020 4:23:54 PM

Quant Time: Jul 16 02:05:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR071420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 16 01:29:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	143393	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	134627	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	68922	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	38528	4.62	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.40%
7) Chloroethane-d5	1.58	69	31767	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.80%
11) 1,1-Dichloroethene-d2	2.12	63	63889	3.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.00%
20) 2-Butanone-d5	3.97	46	74456m	43.50	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.00%
24) Chloroform-d	4.37	84	84962	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
26) 1,2-Dichloroethane-d4	5.06	65	50307	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
32) Benzene-d6	5.07	84	154073	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.09	67	43200	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.34	98	145142	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
45) trans-1,3-Dichloropropene-	7.65	79	19603	4.68	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.60%
48) 2-Hexanone-d5	8.12	63	60466	48.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.74%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	29586	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	58519	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.53	94	3054	0.437	ug/L	92
12) 1,1-Dichloroethene	2.13	96	5098	0.591	ug/L #	1
13) Acetone	2.21	43	19677m	15.836	ug/L	
14) Carbon disulfide	2.31	76	48179	1.804	ug/L	99
15) Methyl Acetate	2.46	43	23314	9.714	ug/L	98
16) Methylene chloride	2.52	84	12287	1.183	ug/L	96
17) Methyl tert-butyl Ether	2.79	73	56356	2.629	ug/L	99
21) 2-Butanone	4.05	43	17513m	9.118	ug/L	
22) cis-1,2-Dichloroethene	3.94	96	15984	1.594	ug/L	98
27) 1,2-Dichloroethane	5.16	62	17042	1.351	ug/L #	94
30) Cyclohexane	4.70	56	35787	2.470	ug/L	99
33) Benzene	5.12	78	46965	1.311	ug/L	100
34) Trichloroethene	5.94	95	9244	0.845	ug/L	90
35) Methylcyclohexane	6.15	83	77197	4.796	ug/L	97
40) 4-Methyl-2-pentanone	7.26	43	30658	6.995	ug/L	96
42) Toluene	7.41	91	156199	3.949	ug/L	99
49) Tetrachloroethene	8.00	164	11308	1.215	ug/L	89

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	8.17	43	23884	7.417	ug/L	95
52) 1,2-Dibromoethane	8.38	107	2933	0.483	ug/L #	93
54) Ethylbenzene	9.03	91	108014	2.386	ug/L	99
55) m,p-xylene	9.16	106	34914	2.040	ug/L	100
63) 1,3-Dichlorobenzene	11.20	146	34096	1.591	ug/L	96

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

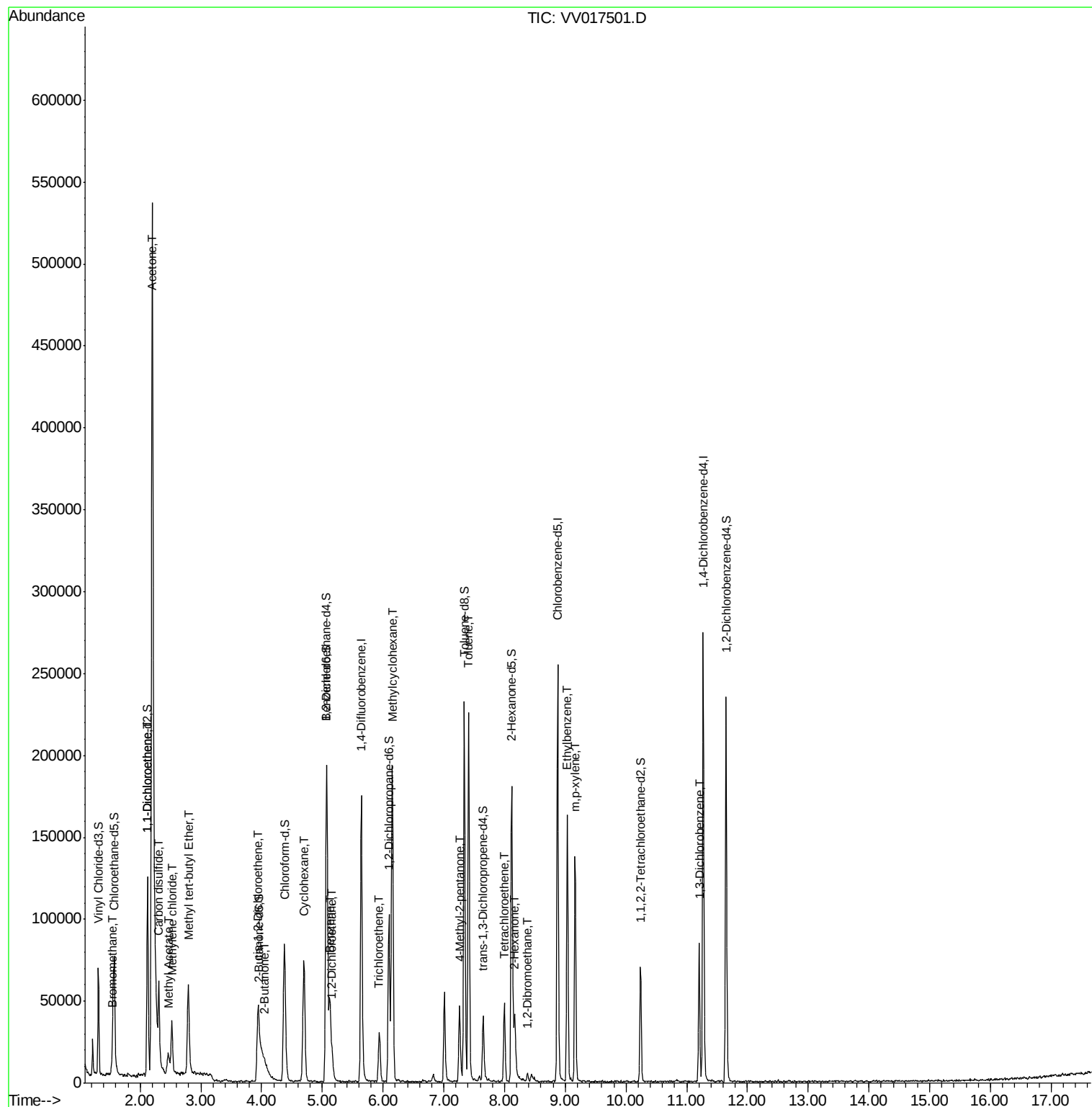
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071520\
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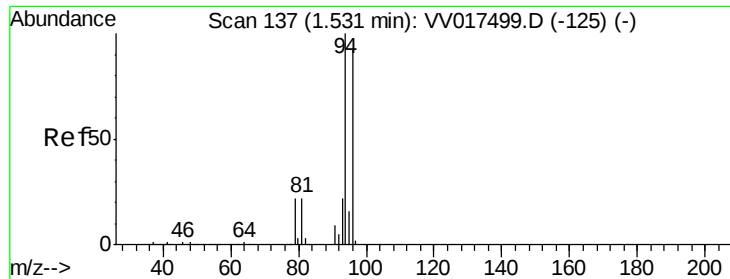
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Response via : Initial Calibration





#6

Bromomethane

Concen: 0.437 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

X2M71DL

Tot Ion: 94 Resp: 3054

Ion Ratio Lower Upper

94 100

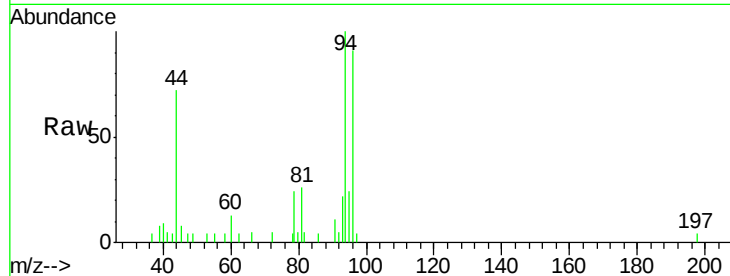
96 90.8 69.0 128.2

Manual Integrations

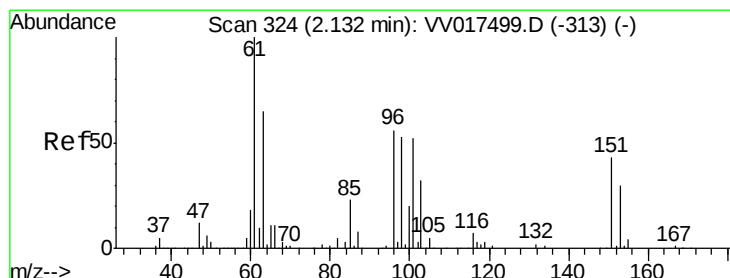
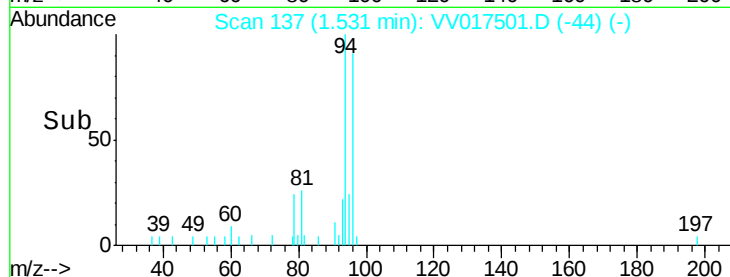
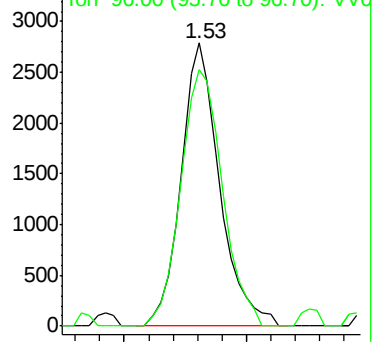
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Abundance Ion 94.00 (93.70 to 94.70): VV017501.D (-44) (-)



#12

1,1-Dichloroethene

Concen: 0.591 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

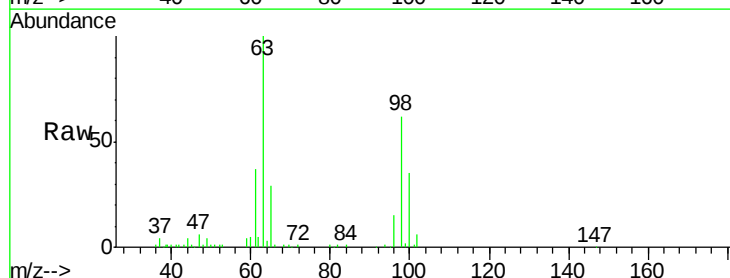
Tgt Ion: 96 Resp: 5098

Ion Ratio Lower Upper

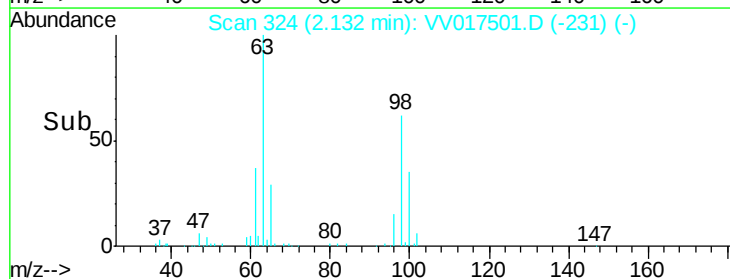
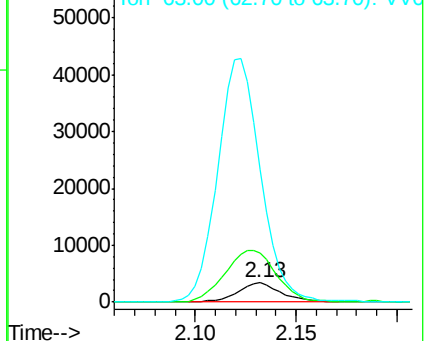
96 100

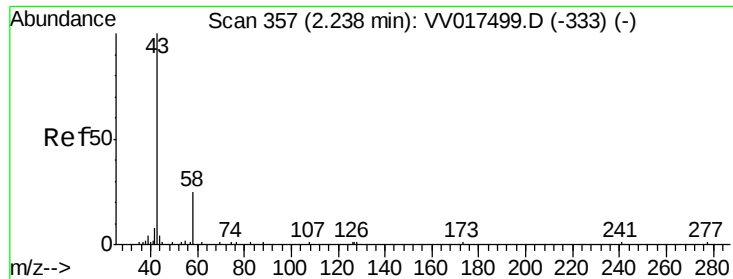
61 255.3 137.2 254.8#

63 689.1 103.6 192.4#



Abundance Ion 96.00 (95.70 to 96.70): VV017501.D (-231) (-)





#13

Acetone

Concen: 15.836 ug/L m

RT: 2.21 min Scan# 347

Delta R.T. -0.03 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

X2M71DL

Tot Ion: 43 Resp: 19677

Ion Ratio Lower Upper

43 100

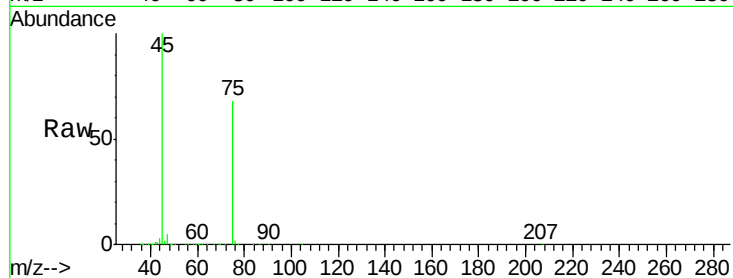
58 6.1 0.0 33.6

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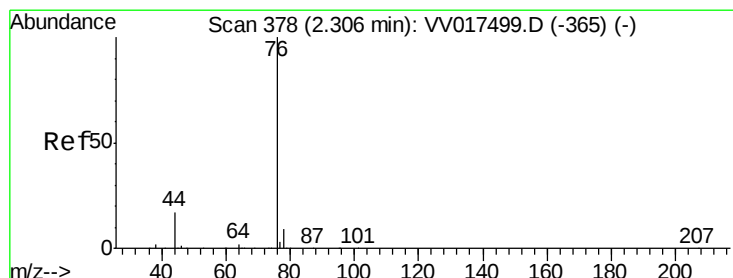
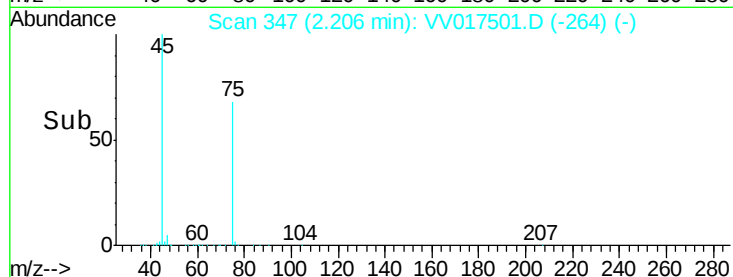
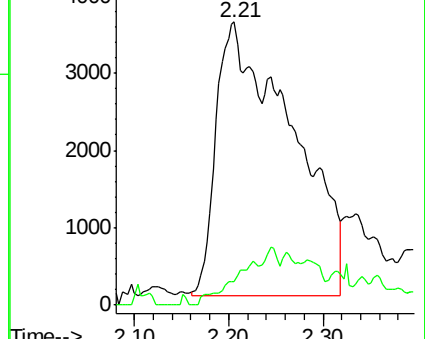
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Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 1.804 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV017501.D

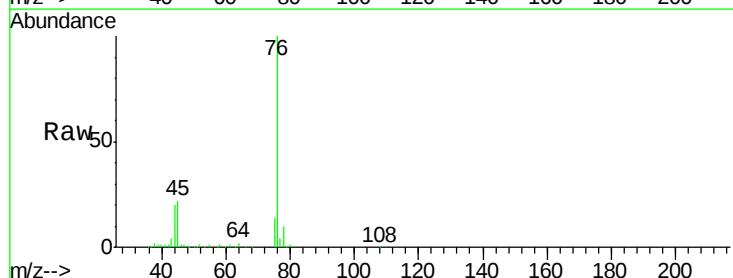
Acq: 15 Jul 2020 10:43

Tgt Ion: 76 Resp: 48179

Ion Ratio Lower Upper

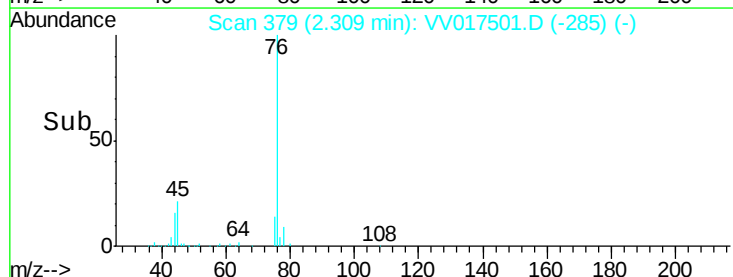
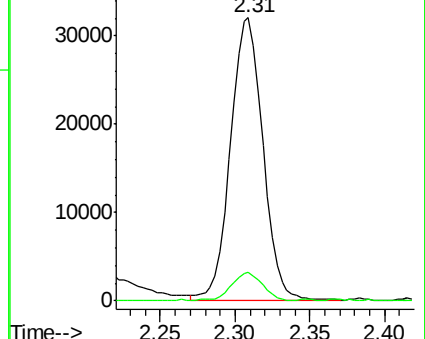
76 100

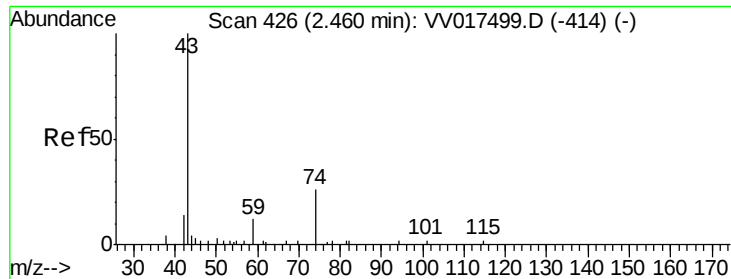
78 9.9 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





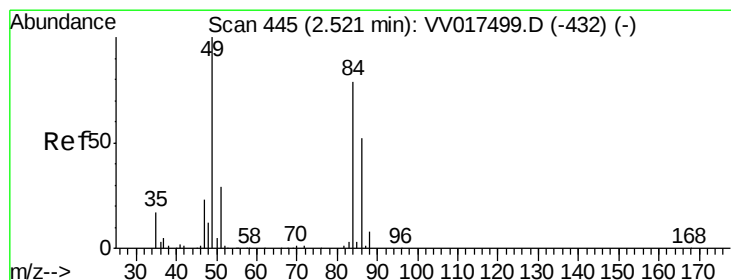
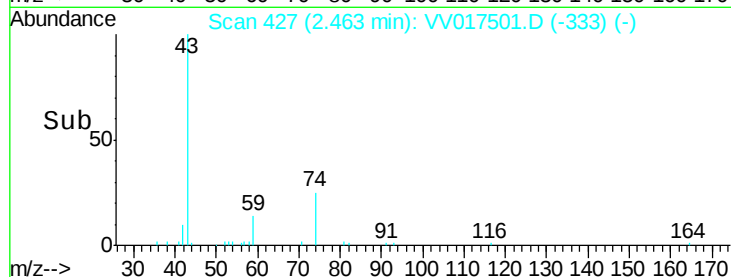
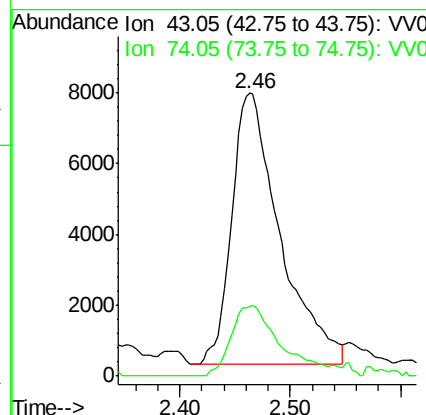
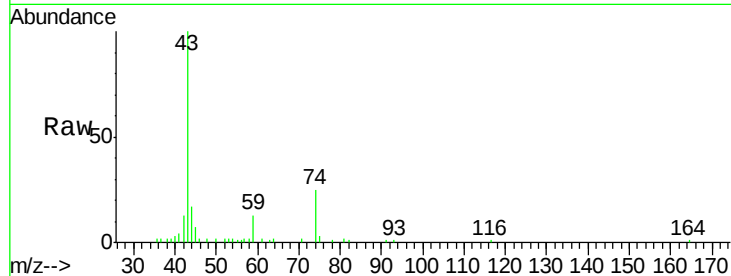
#15
Methvl Acetate
Concen: 9.714 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Instrument :
MSVOA_V
ClientSampleId :
X2M71DL

Tot Ion: 43 Resp: 23314
Ion Ratio Lower Upper
43 100
74 26.5 20.5 30.7

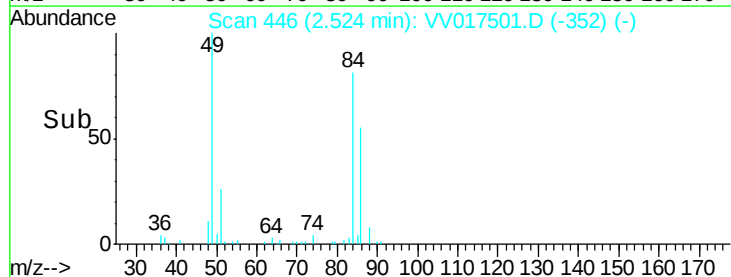
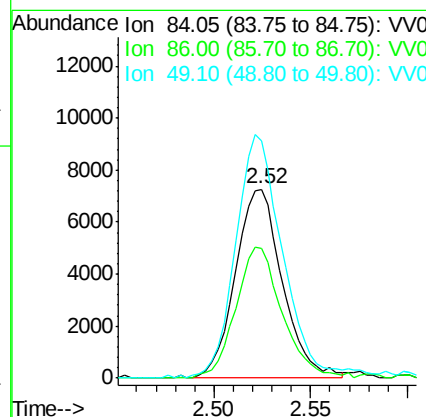
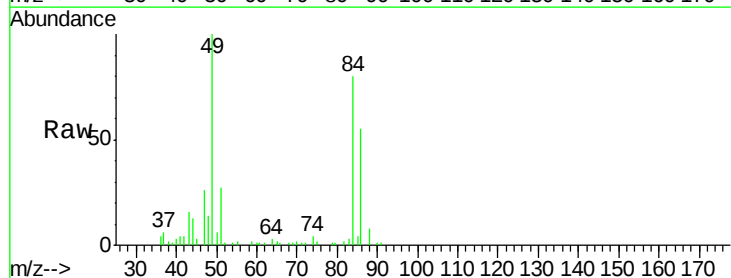
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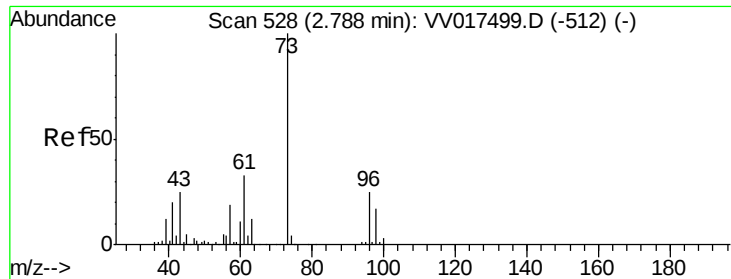
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#16
Methylene chloride
Concen: 1.183 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Tgt Ion: 84 Resp: 12287
Ion Ratio Lower Upper
84 100
86 68.6 45.5 84.5
49 125.7 84.6 157.0





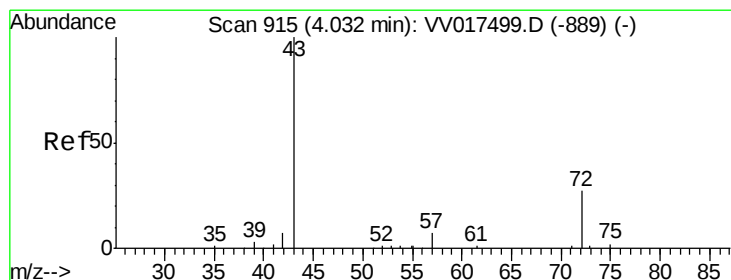
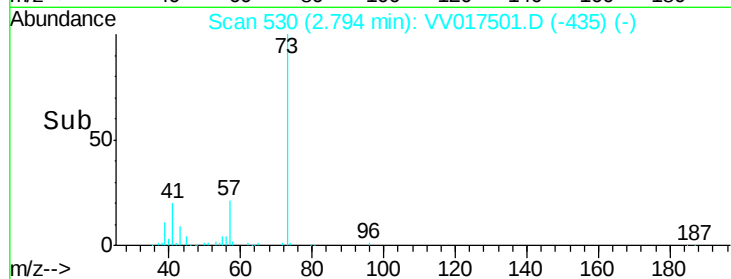
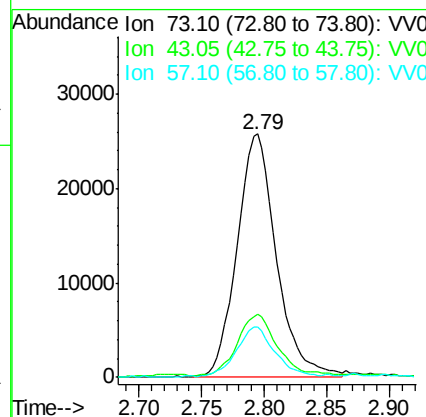
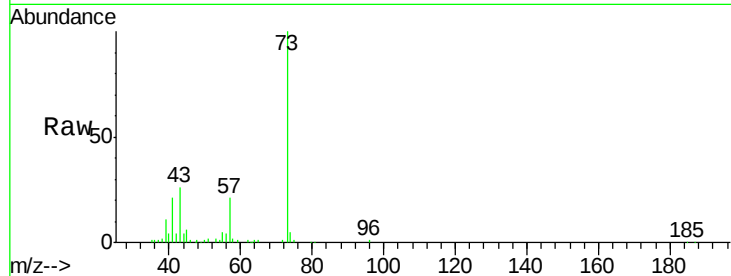
#17
Methvl tert-butvl Ether
Concen: 2.629 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Instrument :
MSVOA_V
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X2M71DL

Tot Ion:	73	Resp:	56356
Ion	Ratio	Lower	Upper
73	100		
43	24.4	20.4	30.6
57	20.8	16.7	25.1

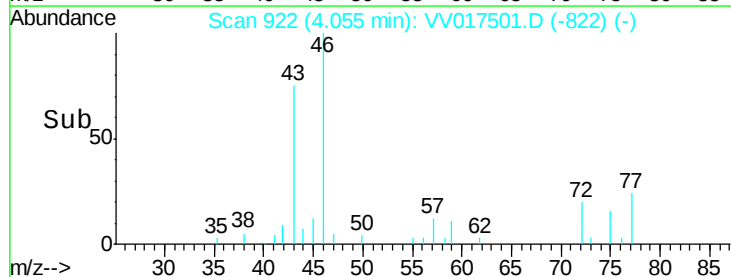
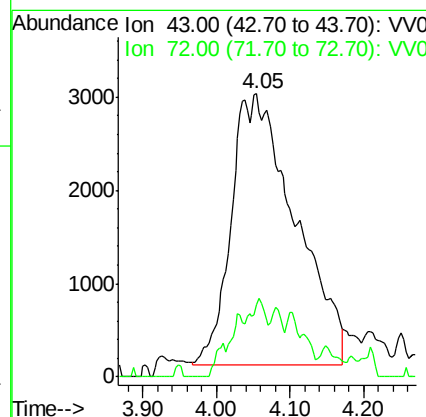
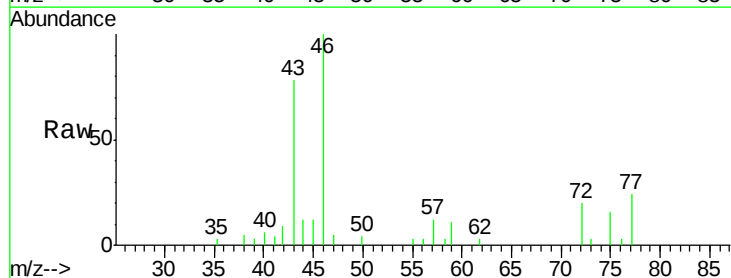
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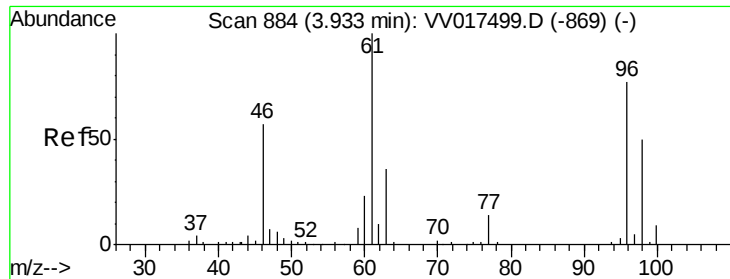
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#21
2-Butanone
Concen: 9.118 ug/L m
RT: 4.05 min Scan# 922
Delta R.T. 0.02 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Tgt Ion:	43	Resp:	17513
Ion	Ratio	Lower	Upper
43	100		
72	3.5	3.4	10.1





#22

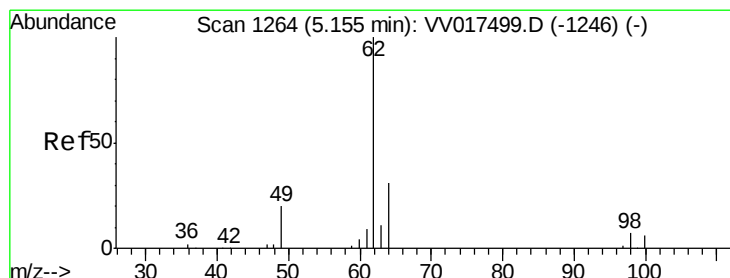
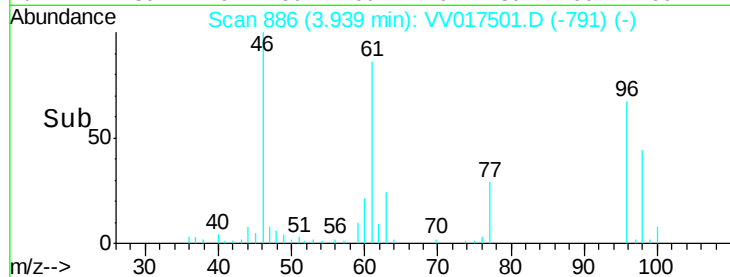
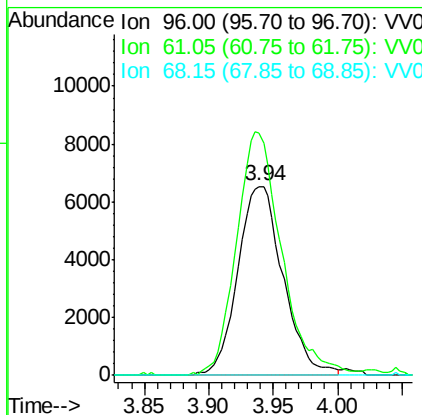
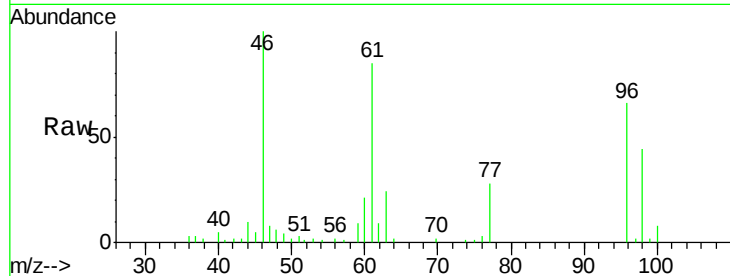
cis-1,2-Dichloroethene
Concen: 1.594 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.01 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Instrument :
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Tot Ion	Ratio	Lower	Upper
96	100		
61	128.7	91.5	169.9
68	0.0	0.0	0.0

Manual Integrations
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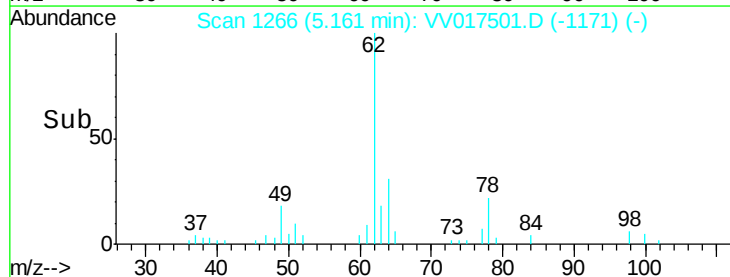
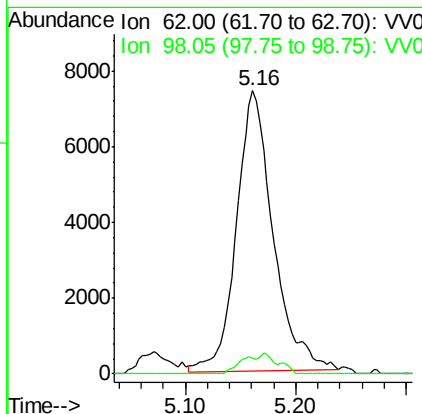
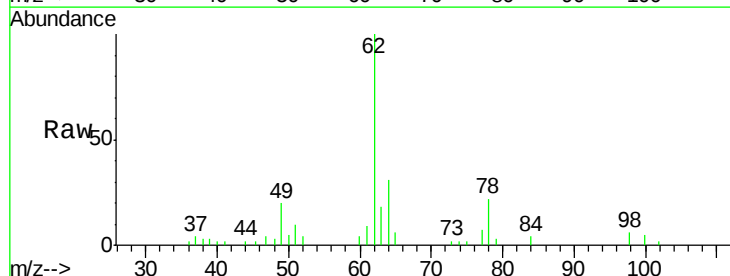
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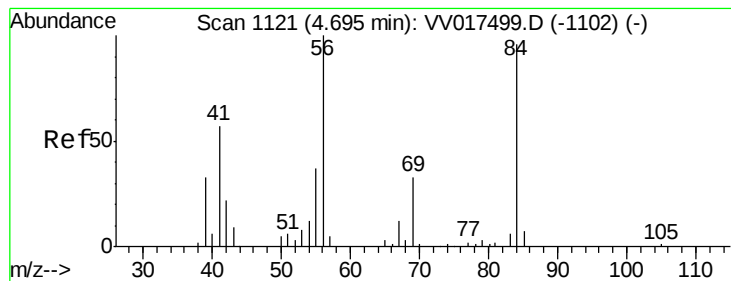


#27

1,2-Dichloroethane
Concen: 1.351 ug/L
RT: 5.16 min Scan# 1266
Delta R.T. 0.01 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.5	6.2	9.2#





#30

Cyclohexane

Concen: 2.470 ug/L

RT: 4.70 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

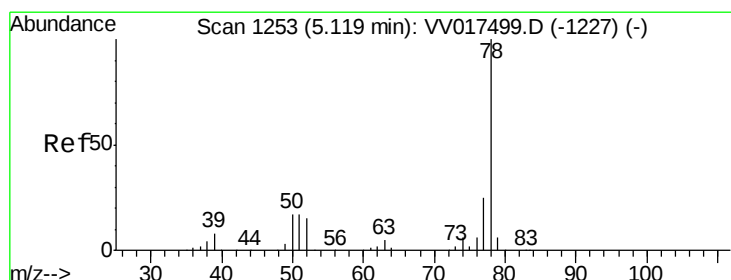
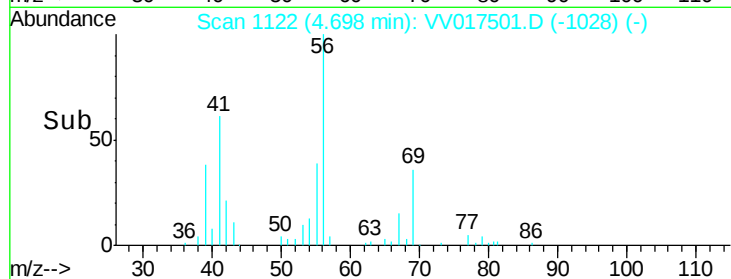
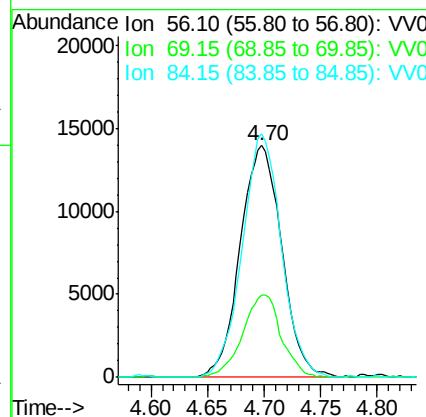
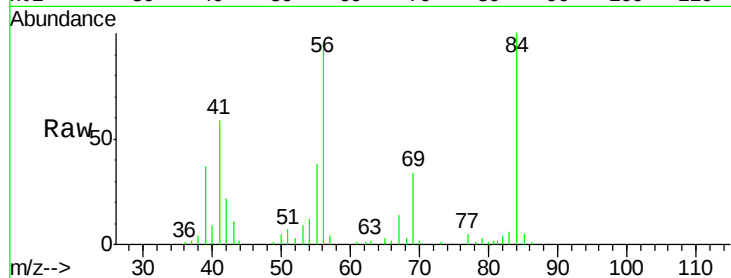
ClientSampleId :

X2M71DL

Tot Ion:	56	Resp:	35787
Ion Ratio	Lower	Upper	
56	100		
69	33.0	26.0	39.0
84	98.9	77.9	116.9

Manual Integrations
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#33

Benzene

Concen: 1.311 ug/L

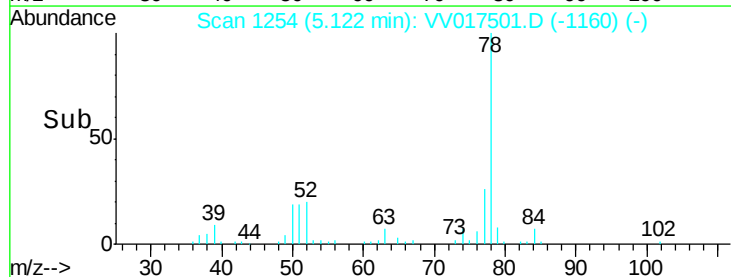
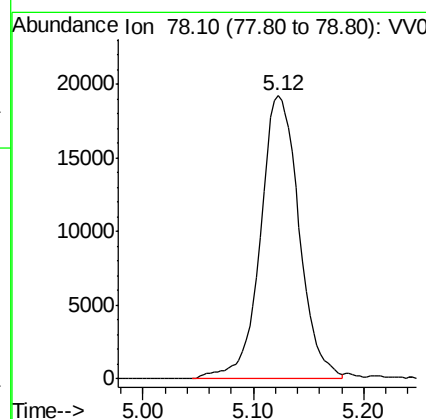
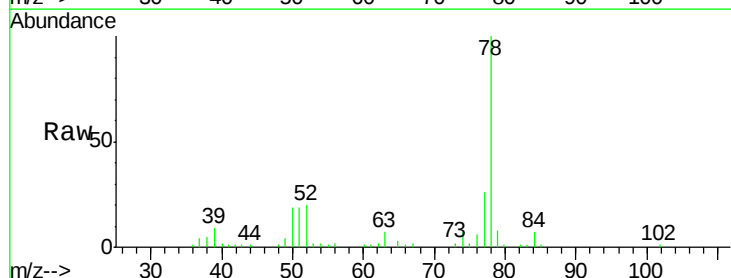
RT: 5.12 min Scan# 1254

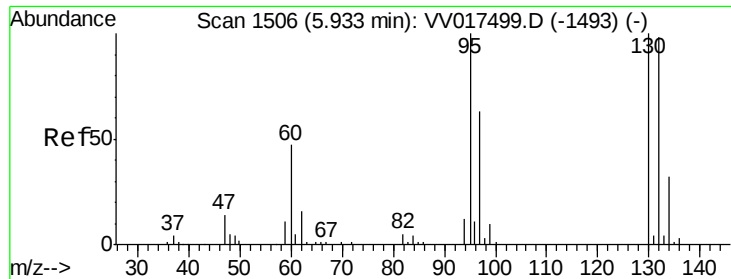
Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Tgt Ion: 78 Resp: 46965





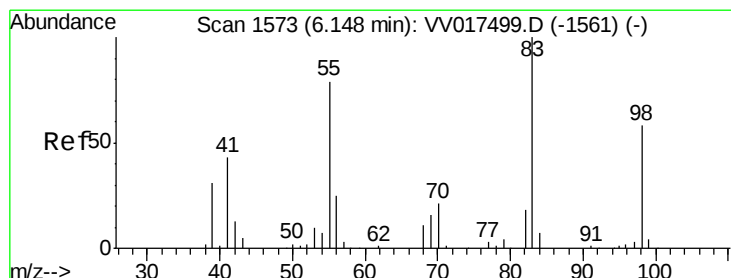
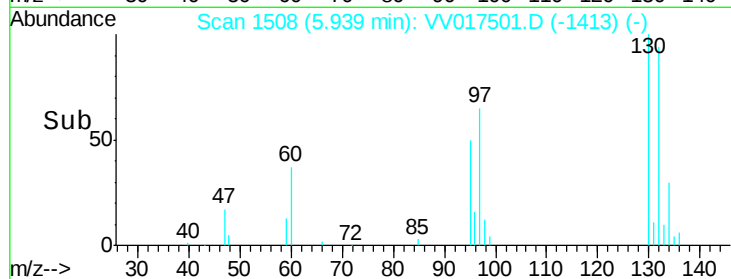
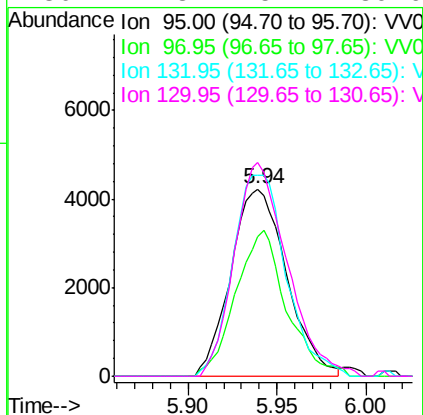
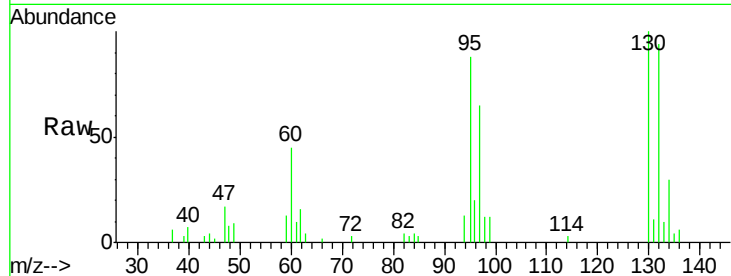
#34
 Trichloroethene
 Concen: 0.845 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.01 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

Instrument :
 MSVOA_V
 ClientSampleId :
 X2M71DL

Tot Ion	Ratio	Lower	Upper
95	100		
97	74.7	43.9	81.5
132	107.8	67.9	126.1
130	114.3	75.2	139.6

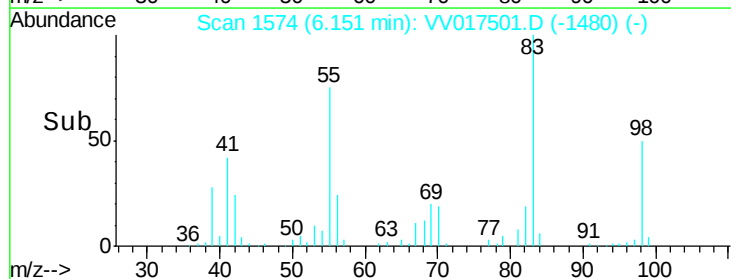
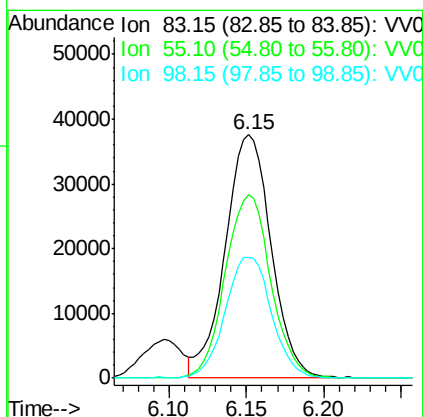
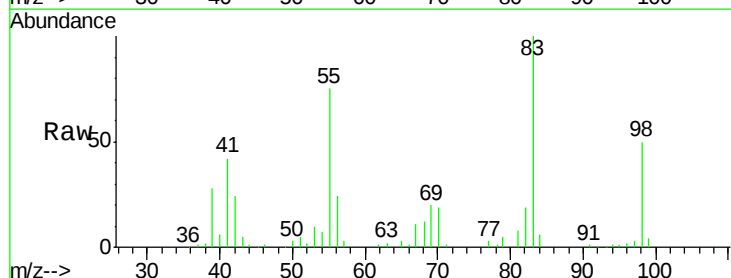
Manual Integrations
 APPROVED

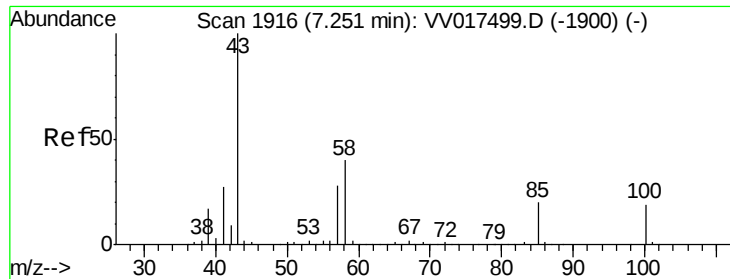
MMDadoda
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#35
 Methylcyclohexane
 Concen: 4.796 ug/L
 RT: 6.15 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VV017501.D
 Acq: 15 Jul 2020 10:43

Tgt Ion	Ratio	Lower	Upper
83	100		
55	75.0	62.0	93.0
98	50.3	41.4	62.2





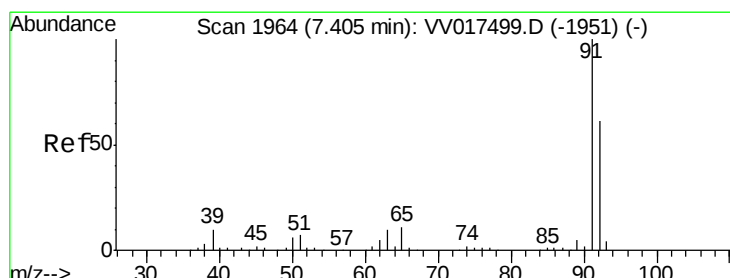
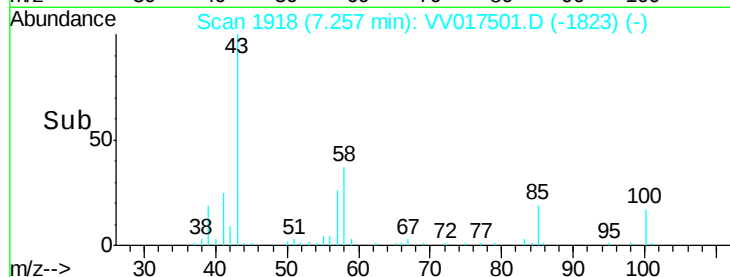
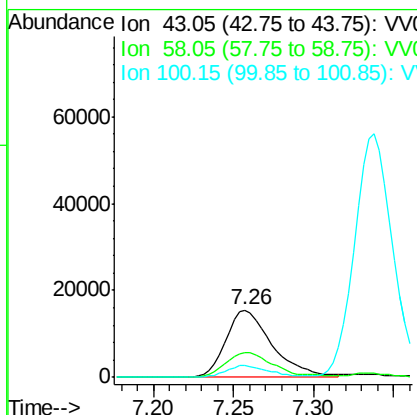
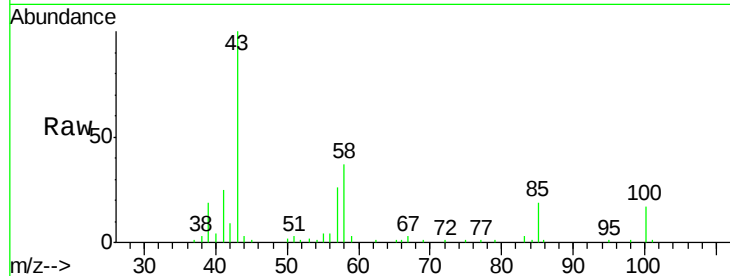
#40
4-Methyl-2-pentanone
Concen: 6.995 ug/L
RT: 7.26 min Scan# 1918
Delta R.T. 0.01 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Instrument :
MSVOA_V
ClientSampleId :
X2M71DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.5	31.0	46.4
100	16.3	14.4	21.6

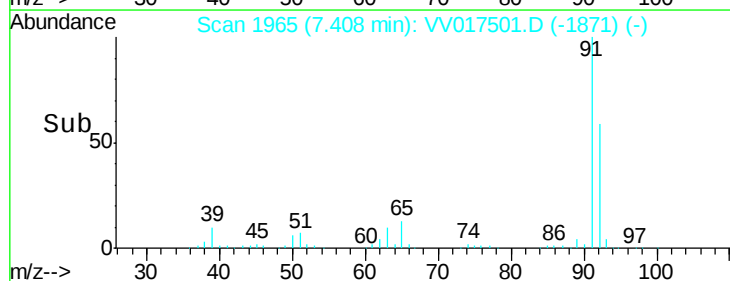
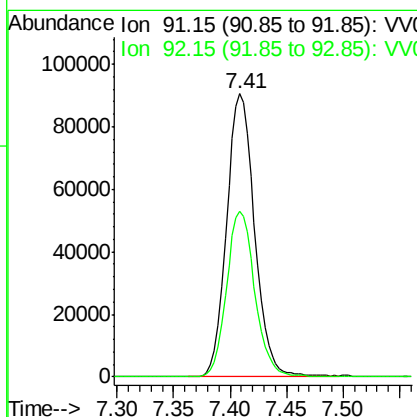
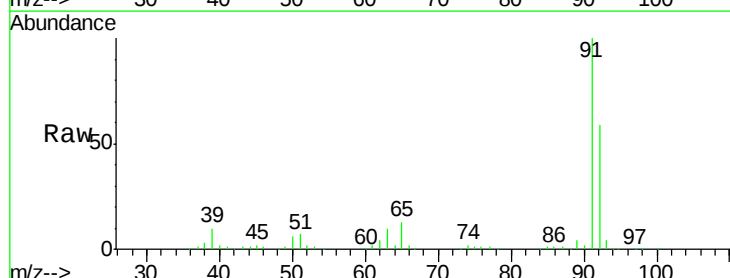
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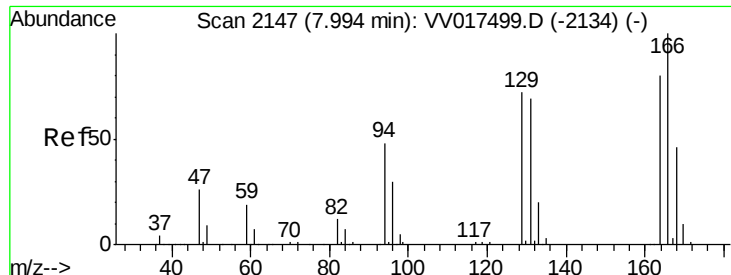
MMDadoda
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#42
Toluene
Concen: 3.949 ug/L
RT: 7.41 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VV017501.D
Acq: 15 Jul 2020 10:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.7	40.7	75.5





#49

Tetrachloroethene

Concen: 1.215 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampleId :

X2M71DL

Tot Ion:164 Resp: 11308

Ion Ratio Lower Upper

164 100

129 83.4 64.1 119.1

131 69.1 60.6 112.6

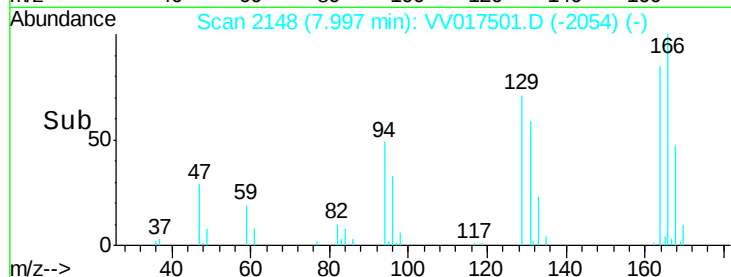
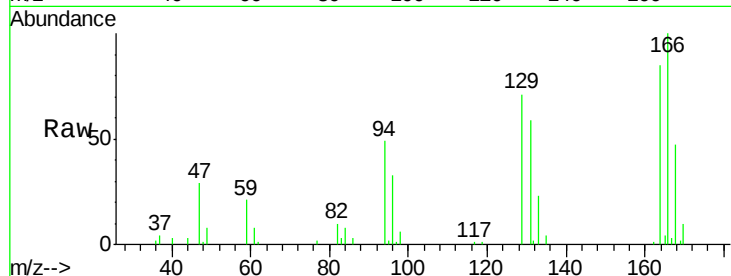
166 117.1 88.8 164.8

Manual Integrations

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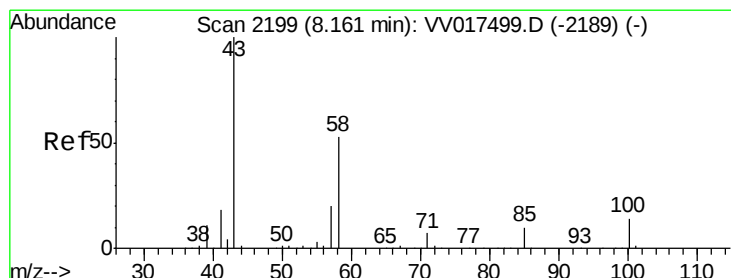
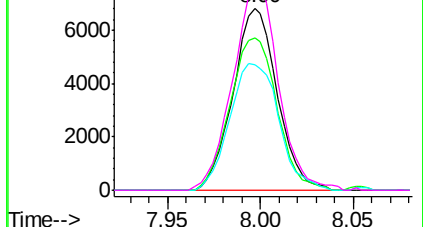


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#50

2-Hexanone

Concen: 7.417 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Tgt Ion: 43 Resp: 23884

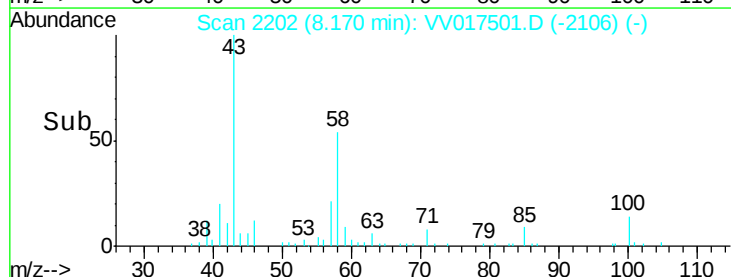
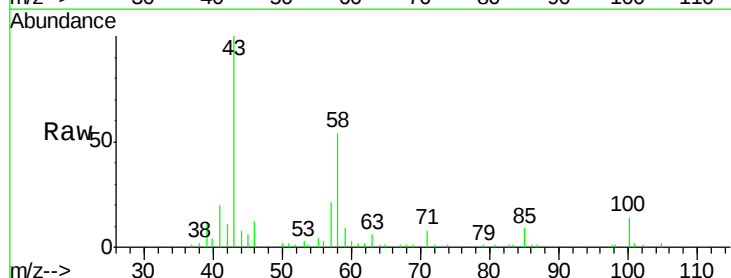
Ion Ratio Lower Upper

43 100

58 48.8 43.0 64.4

57 20.4 16.8 25.2

100 14.3 11.8 17.6

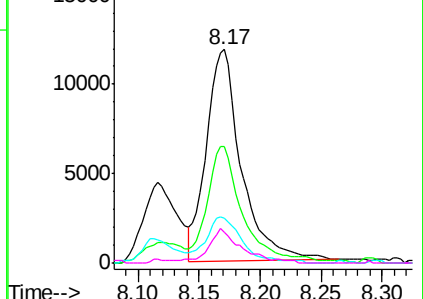


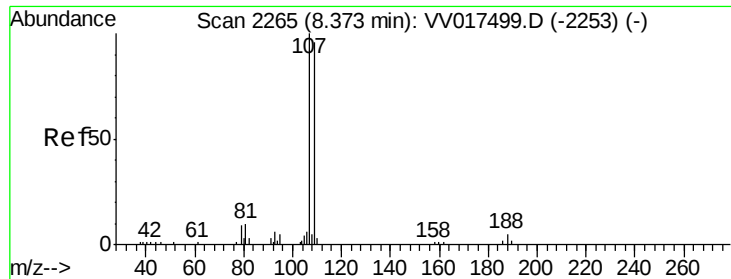
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#52

1,2-Dibromoethane

Concen: 0.483 ug/L

RT: 8.38 min Scan# 2267

Delta R.T. 0.01 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

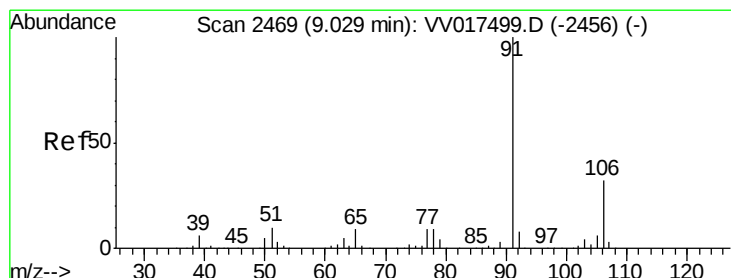
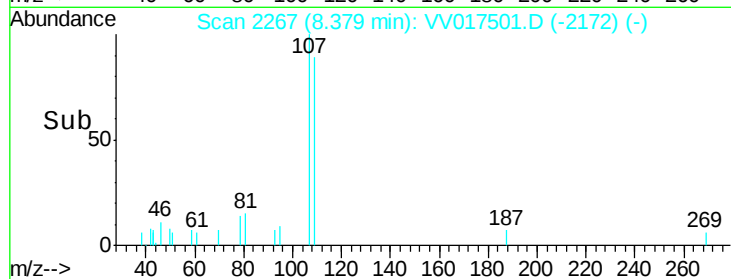
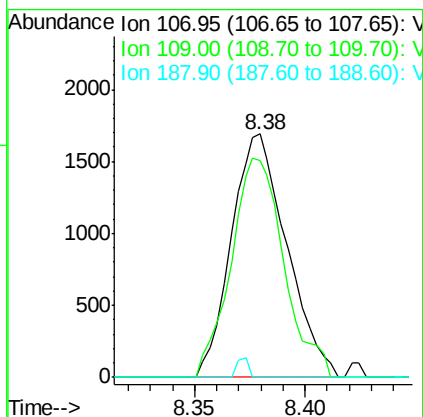
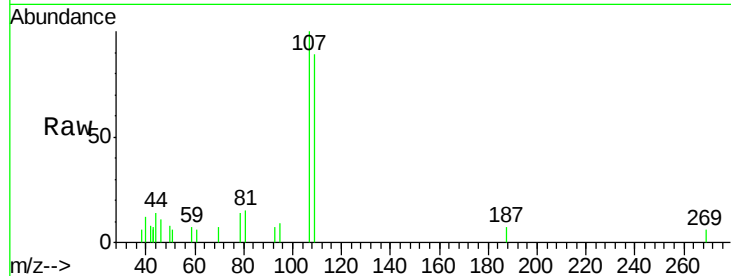
ClientSampleId :

X2M71DL

Tot Ion:	107	Resp:	2933
Ion	Ratio	Lower	Upper
107	100		
109	88.8	67.0	124.4
188	0.0	2.7	4.1#

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#54

Ethylbenzene

Concen: 2.386 ug/L

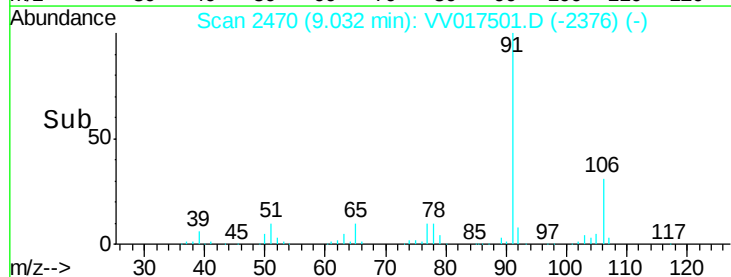
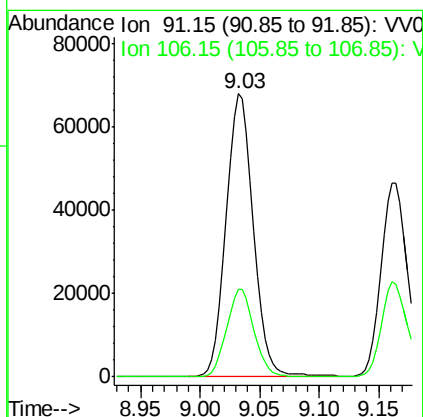
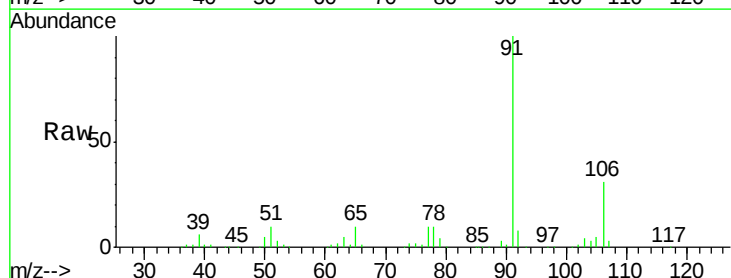
RT: 9.03 min Scan# 2470

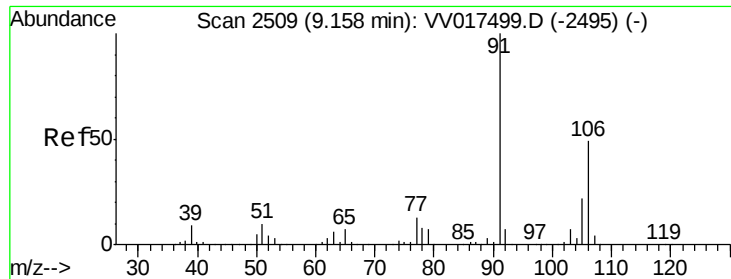
Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Tgt Ion:	91	Resp:	108014
Ion	Ratio	Lower	Upper
91	100		
106	30.8	21.9	40.7





#55

m,p-xylene

Concen: 2.040 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

Instrument :

MSVOA_V

ClientSampled :

X2M71DL

Tot Ion:106 Resp: 34914

Ion Ratio Lower Upper

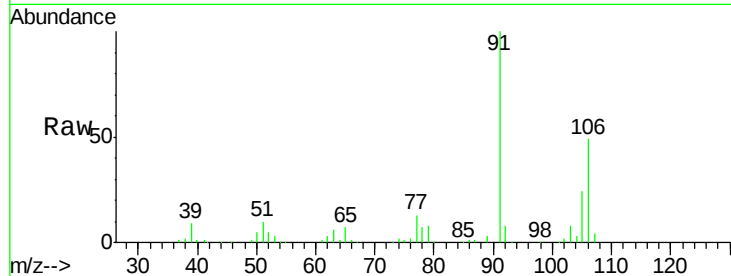
106 100

91 205.3 144.2 267.8

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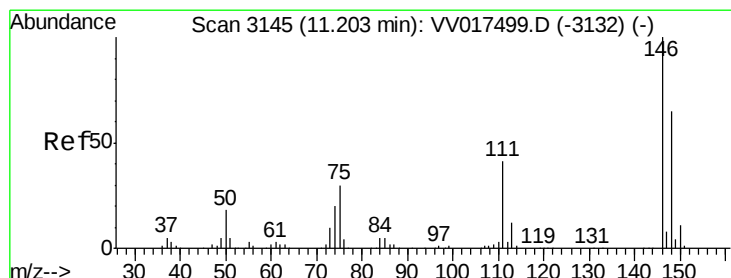
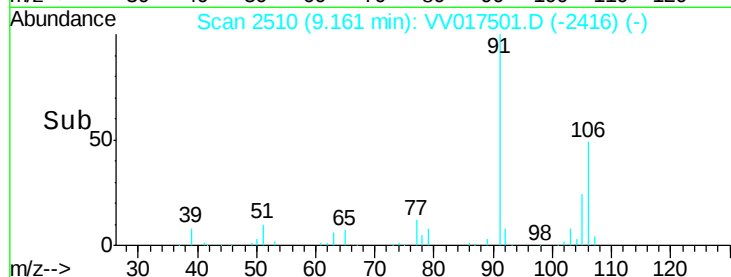
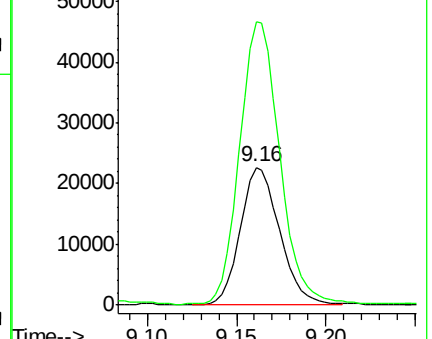
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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#63

1,3-Dichlorobenzene

Concen: 1.591 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV017501.D

Acq: 15 Jul 2020 10:43

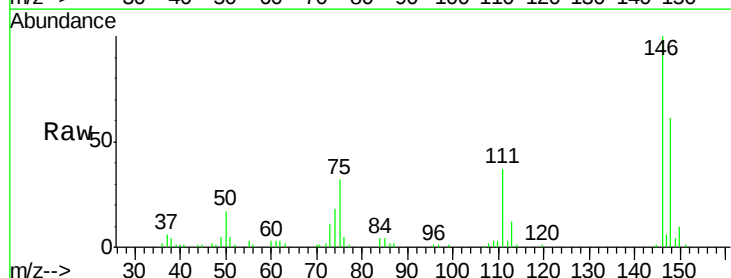
Tgt Ion:146 Resp: 34096

Ion Ratio Lower Upper

146 100

111 37.0 27.2 50.6

148 61.0 45.6 84.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

