

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031973.D
 Acq On : 3 May 2018 22:00
 Operator : SY/AP
 Sample : J2629-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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 5/4/2018 5:01:08 PM

Quant Time: May 04 15:33:34 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1123739	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2220966	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2156566	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1755801	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	41887	0.28	ppbv	95
4) Chloromethane	3.26	50	28686	0.52	ppbv	95
9) Propene	3.13	41	17145	0.44	ppbv	84
10) Heptane	8.38	43	17326m	0.13	ppbv	
11) Trichlorofluoromethane	4.10	101	38924	0.22	ppbv	85
13) Ethanol	3.75	45	1006600	69.56	ppbv #	100
15) Acetone	4.00	43	748961	4.71	ppbv	99
19) Isopropyl Alcohol	4.13	45	695145	8.09	ppbv #	98
20) Methylene Chloride	4.52	84	839207	15.65	ppbv	98
26) Hexane	5.90	57	435883	3.40	ppbv #	46
30) Cyclohexane	7.38	84	18280m	0.21	ppbv	
32) 1,1,1-Trichloroethane	6.75	97	48591m	0.26	ppbv	
34) 2-Butanone	5.45	43	93459	0.51	ppbv	97
35) Carbon Tetrachloride	7.26	117	15603m	0.09	ppbv	
36) Benzene	7.13	78	29828	0.14	ppbv	96
52) Tetrachloroethene	11.51	164	3481m	0.04	ppbv	
53) Toluene	10.10	91	53880m	0.24	ppbv	
59) m/p-Xylene	13.27	91	115721m	0.44	ppbv	
60) o-Xylene	13.99	91	54111	0.21	ppbv	98

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

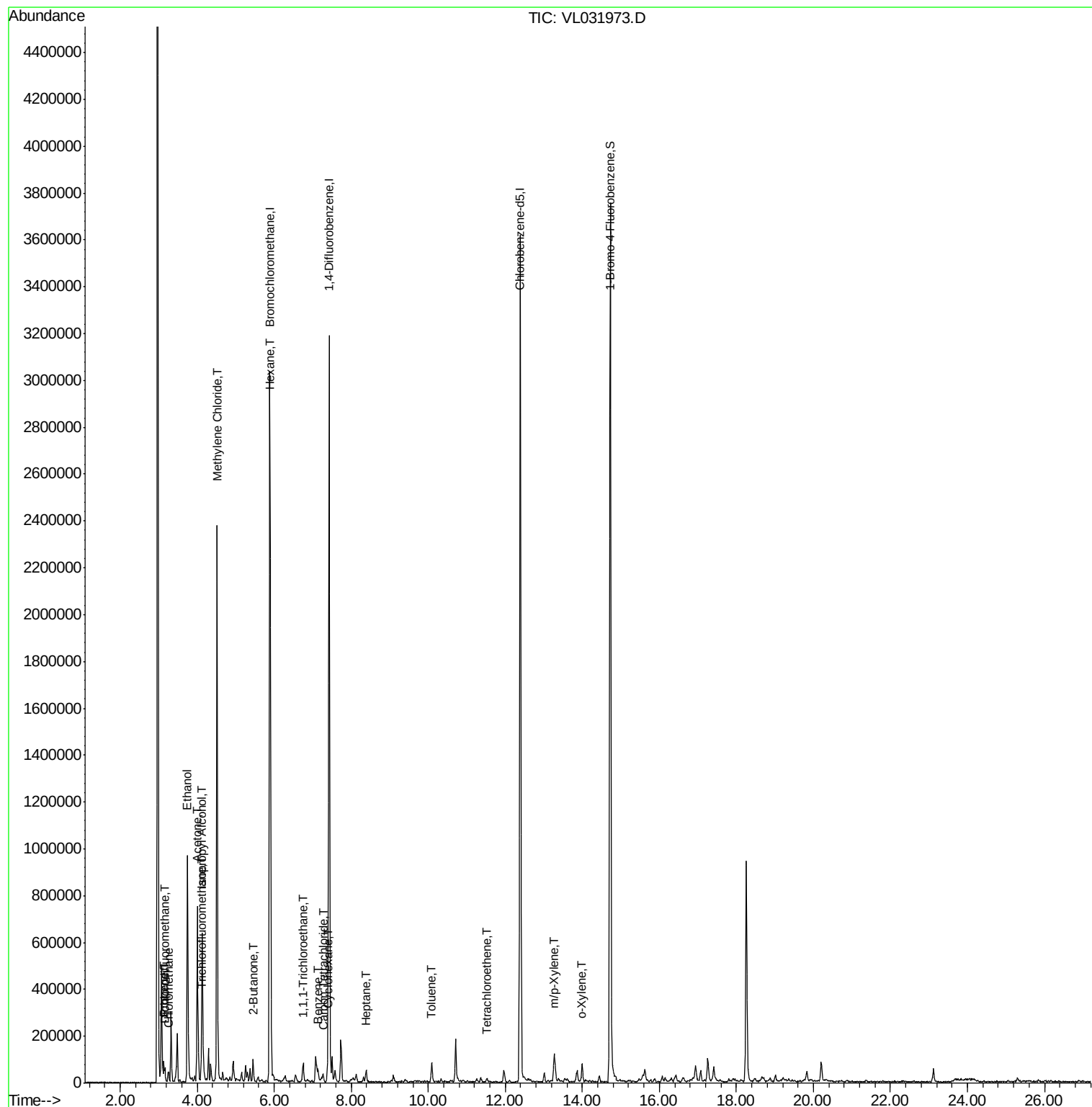
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
Data File : VL031973.D
Acq On : 3 May 2018 22:00
Operator : SY/AP
Sample : J2629-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

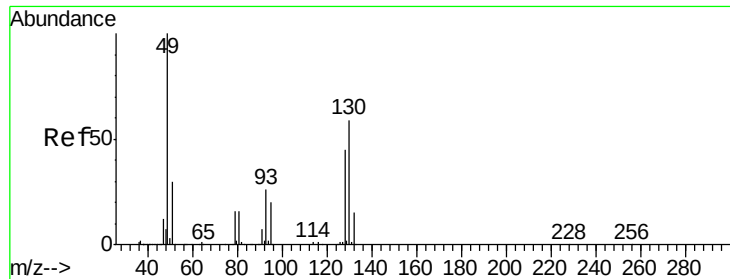
Instrument :
MSVOA_L
ClientSampleId :
IA1

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Quant Time: May 04 15:33:34 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration





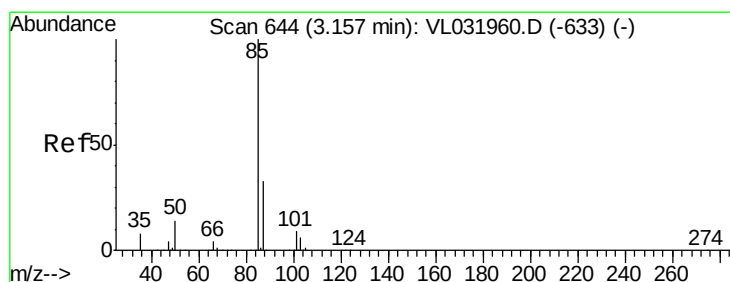
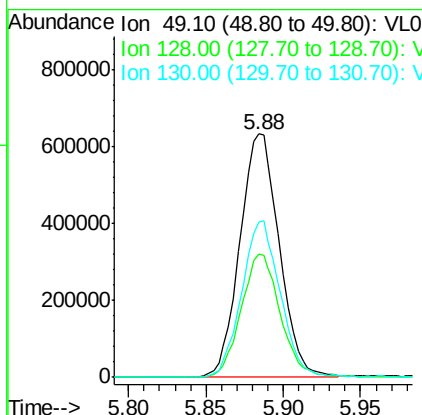
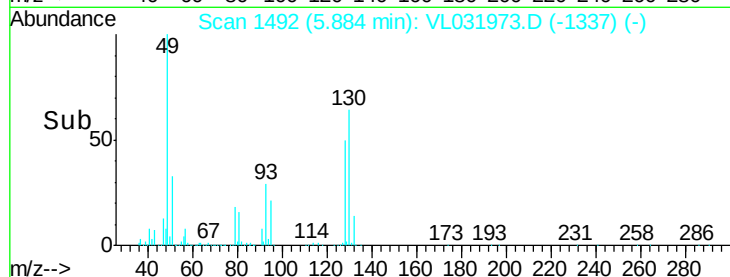
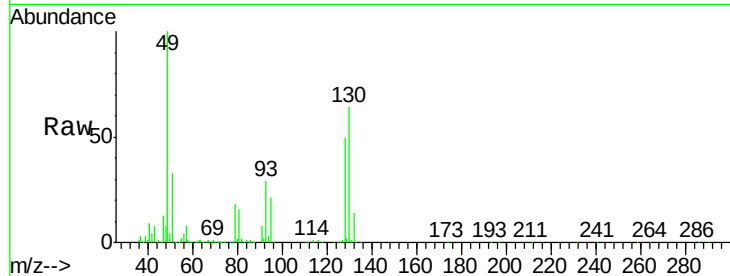
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.88 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VL031973.D
 Acq: 3 May 2018 22:00

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion:	49	Resp:	1123739
Ion	Ratio	Lower	Upper
49	100		
128	50.7	24.1	72.3
130	63.9	30.7	92.1

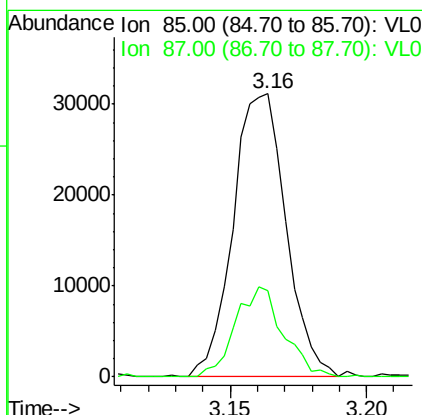
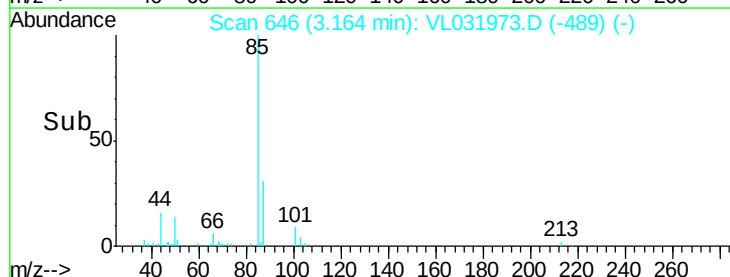
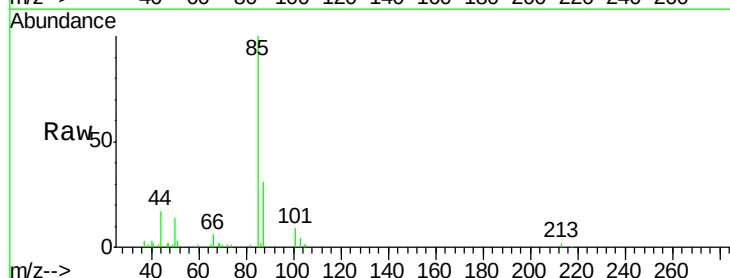
Manual Integrations
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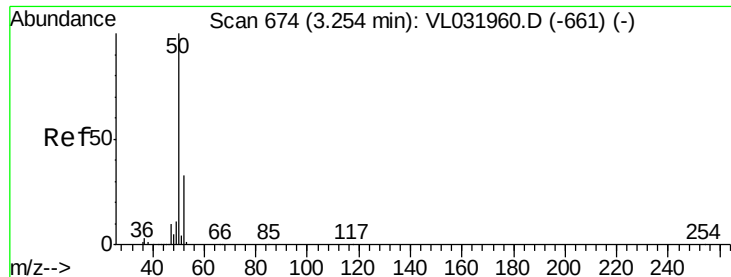
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#2
 Dichlorodifluoromethane
 Concen: 0.28 ppbv
 RT: 3.16 min Scan# 646
 Delta R.T. 0.01 min
 Lab File: VL031973.D
 Acq: 3 May 2018 22:00

Tgt Ion:	85	Resp:	41887
Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.8	40.2





#4

Chloromethane

Concen: 0.52 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 50 Resp: 28686

Ion Ratio Lower Upper

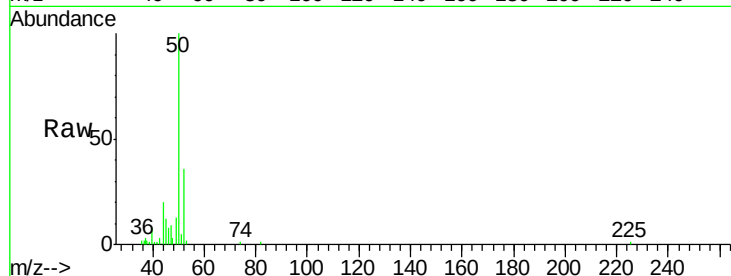
50 100

52 36.2 26.6 39.8

Manual Integrations
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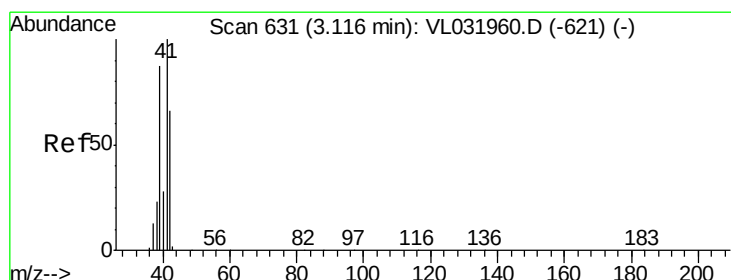
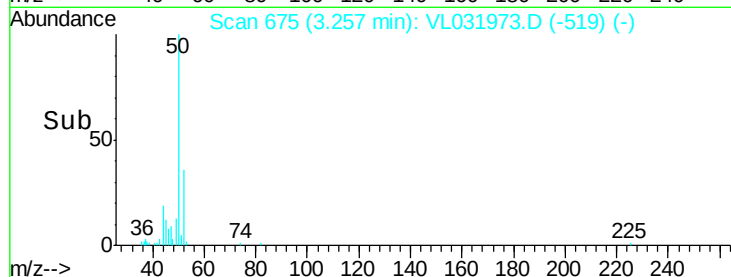
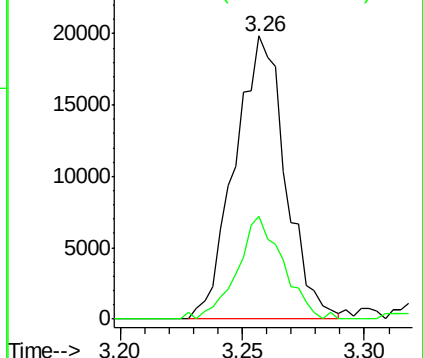
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.44 ppbv

RT: 3.13 min Scan# 637

Delta R.T. 0.02 min

Lab File: VL031973.D

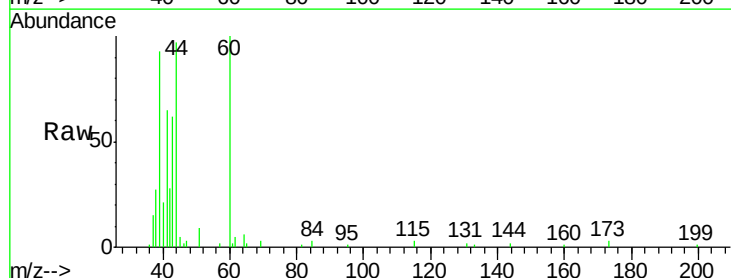
Acq: 3 May 2018 22:00

Tgt Ion: 41 Resp: 17145

Ion Ratio Lower Upper

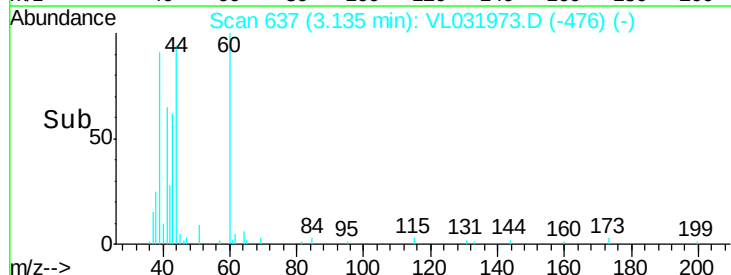
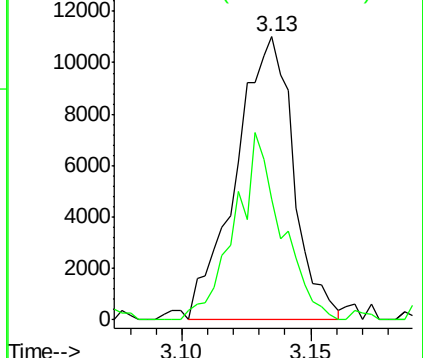
41 100

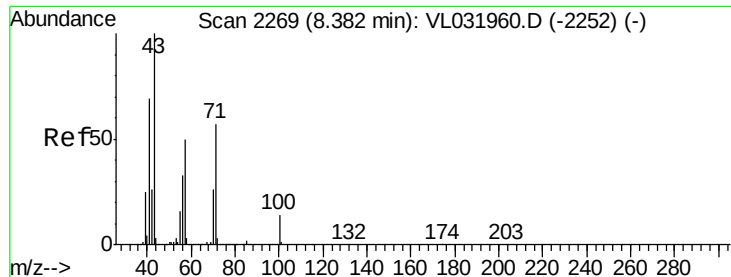
42 54.2 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





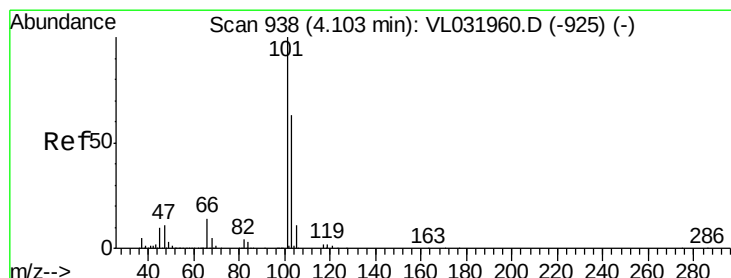
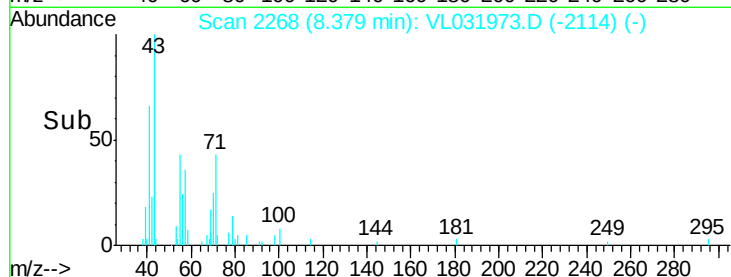
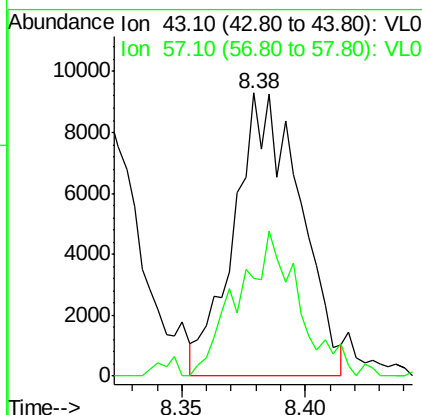
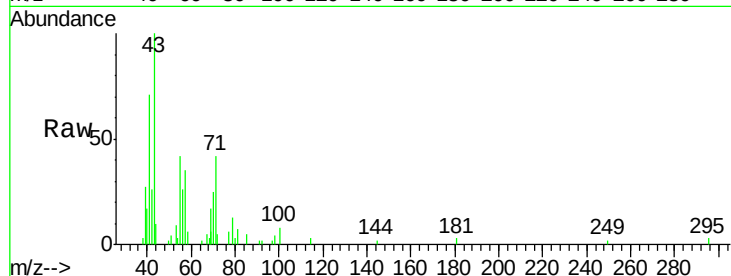
#10
Heptane
Concen: 0.13 ppbv m
RT: 8.38 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 43 Resp: 17326
Ion Ratio Lower Upper
43 100
57 49.6 40.7 61.1

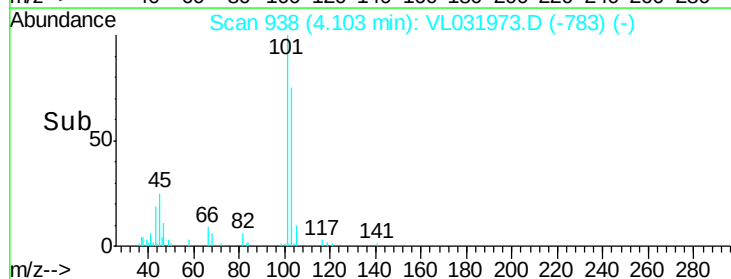
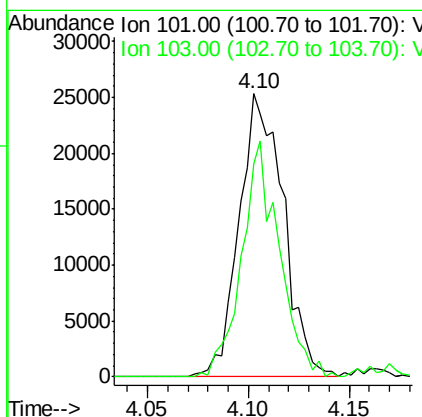
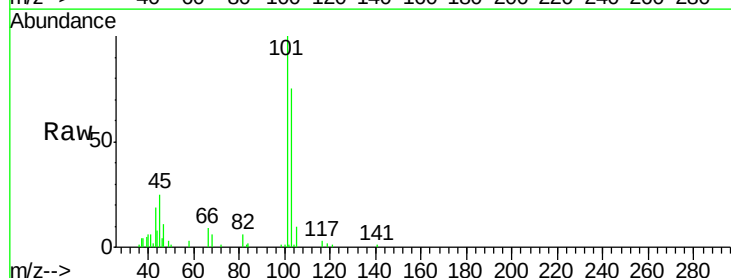
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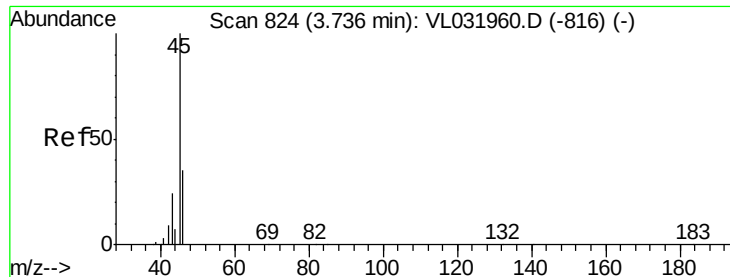
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#11
Trichlorofluoromethane
Concen: 0.22 ppbv
RT: 4.10 min Scan# 938
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 101 Resp: 38924
Ion Ratio Lower Upper
101 100
103 75.4 50.7 76.1





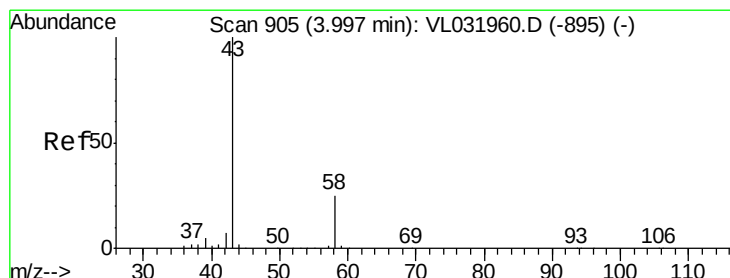
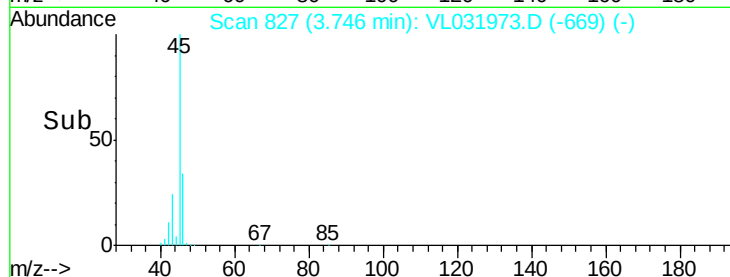
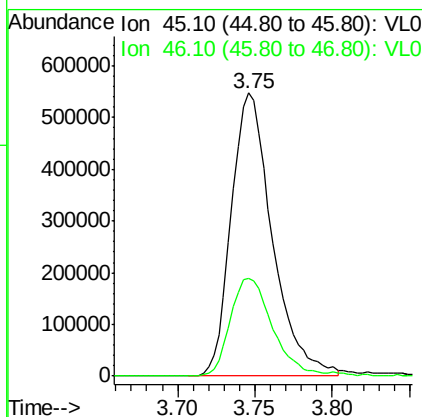
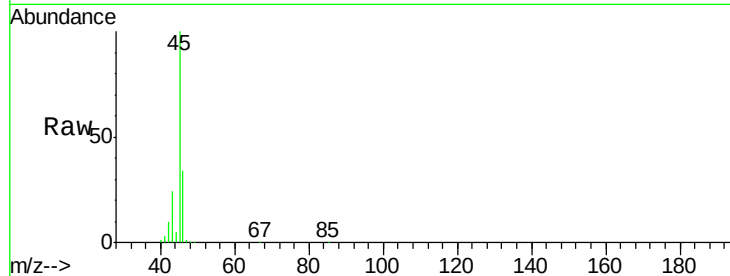
#13
Ethanol
Concen: 69.56 ppbv
RT: 3.75 min Scan# 827
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 45 Resp: 1006600
Ion Ratio Lower Upper
45 100
46 36.0 0.0 0.0#

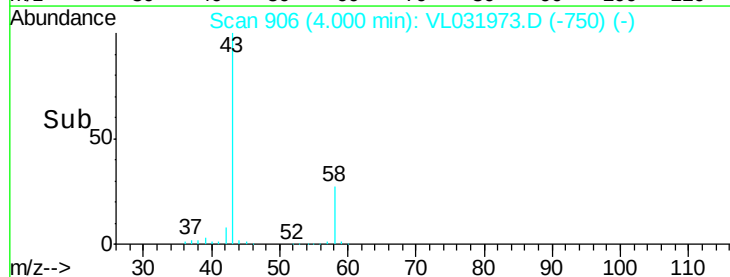
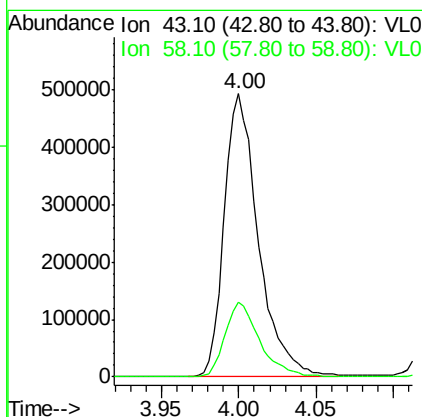
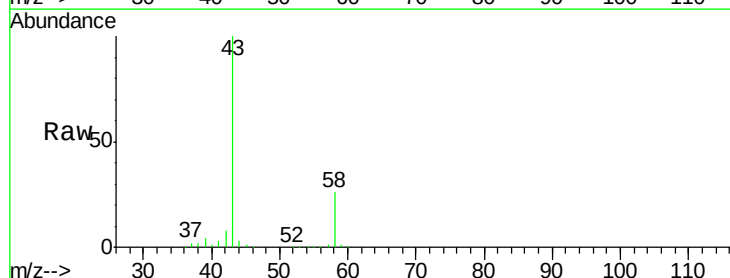
Manual Integrations
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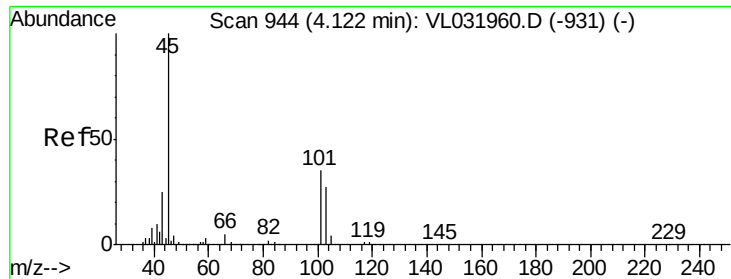
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#15
Acetone
Concen: 4.71 ppbv
RT: 4.00 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 43 Resp: 748961
Ion Ratio Lower Upper
43 100
58 27.1 21.1 31.7





#19

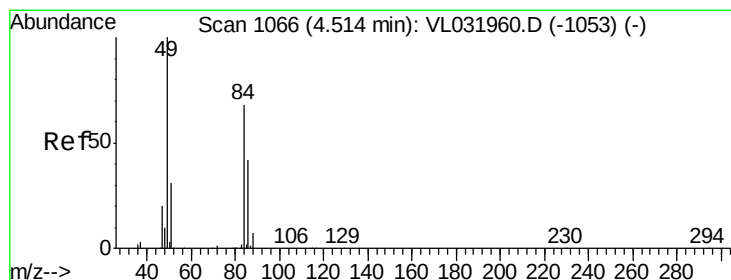
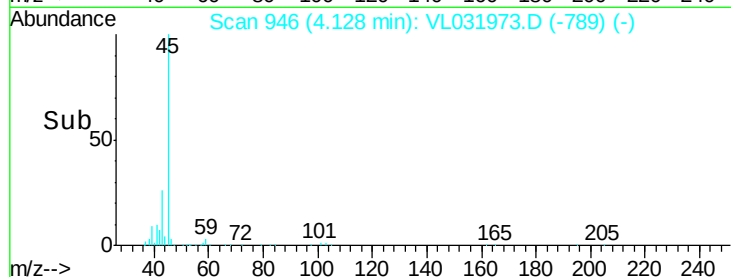
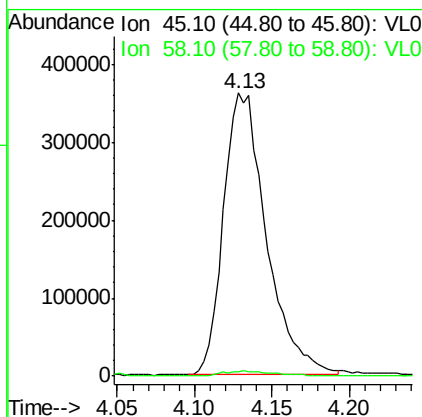
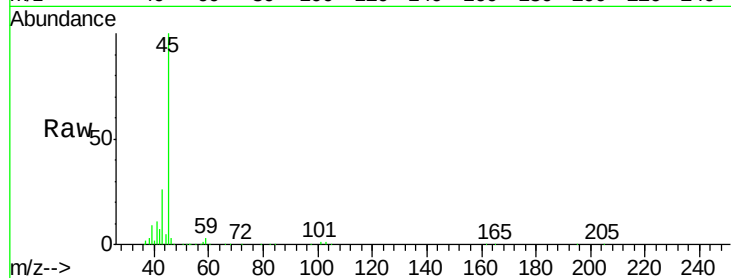
Isopropyl Alcohol
 Concen: 8.09 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.01 min
 Lab File: VL031973.D
 Acq: 3 May 2018 22:00

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.4	1.4	2.2#

Manual Integrations
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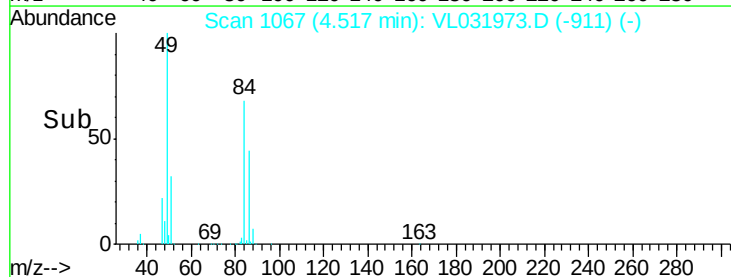
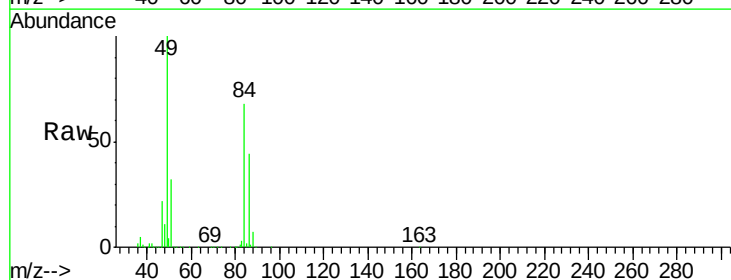
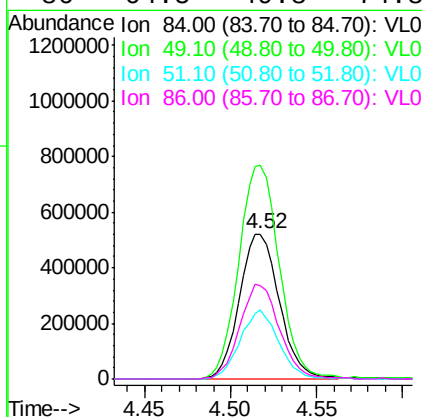
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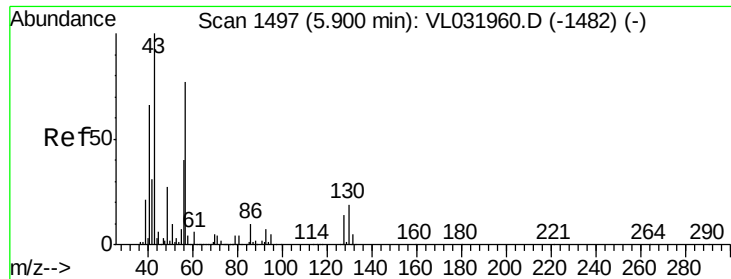


#20

Methylene Chloride
 Concen: 15.65 ppbv
 RT: 4.52 min Scan# 1067
 Delta R.T. 0.00 min
 Lab File: VL031973.D
 Acq: 3 May 2018 22:00

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.0	118.6	178.0
51	47.2	36.6	54.8
86	64.5	49.8	74.8





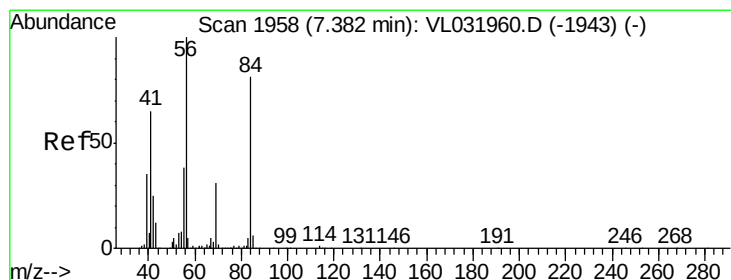
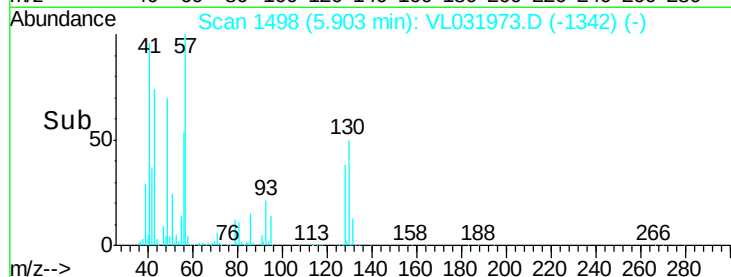
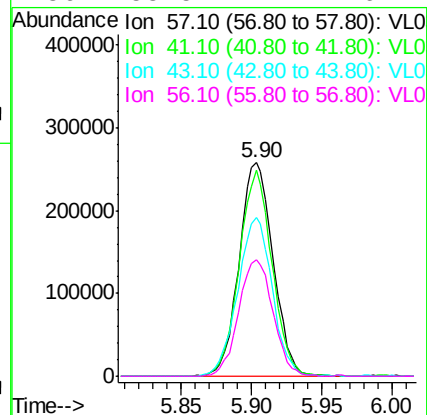
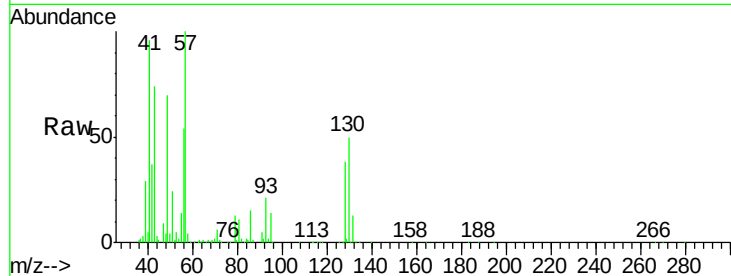
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Hexane
Concen: 3.40 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	93.4	71.8	107.6
43	76.1	171.5	257.3#
56	55.5	41.4	62.2

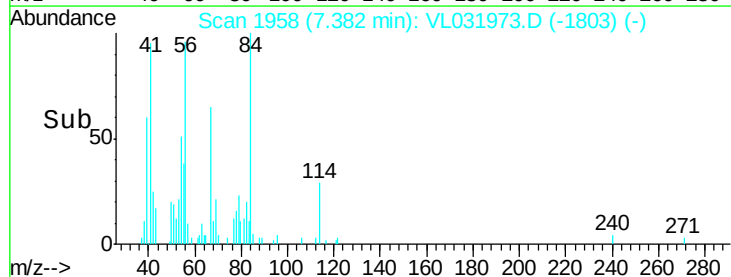
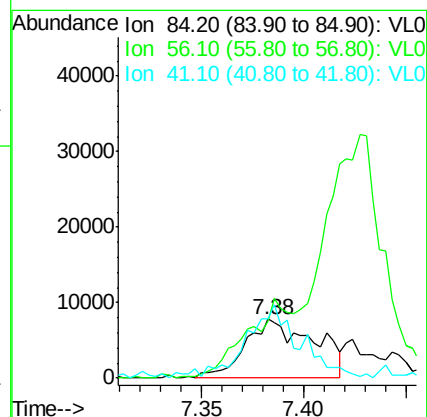
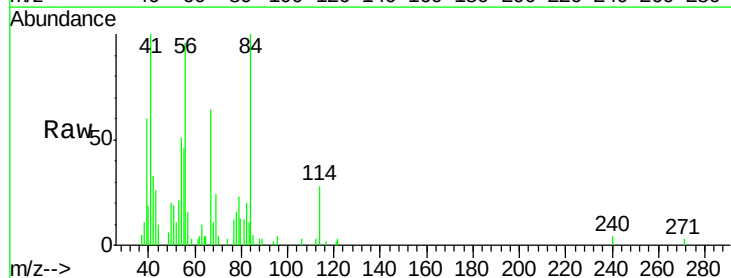
Manual Integrations
APPROVED

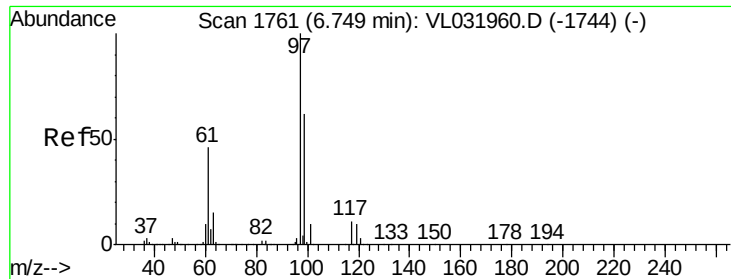
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#30
Cyclohexane
Concen: 0.21 ppbv m
RT: 7.38 min Scan# 1958
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.0	162.0#
41	101.7	66.8	100.2#





#32

1,1,1-Trichloroethane

Concen: 0.26 ppbv m

RT: 6.75 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

Instrument :

MSVOA_L

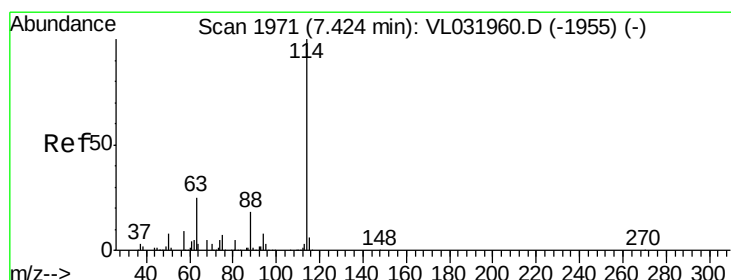
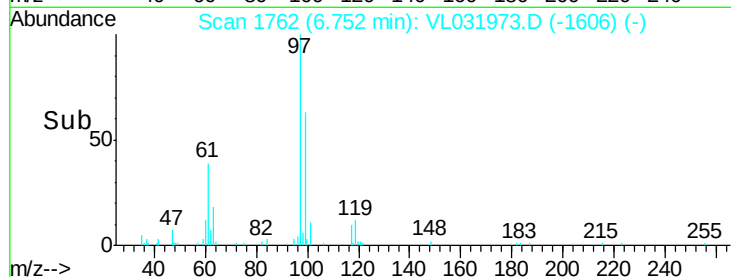
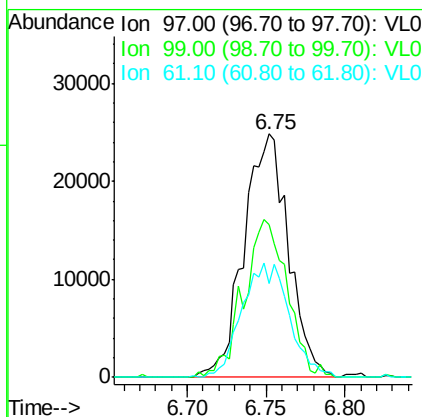
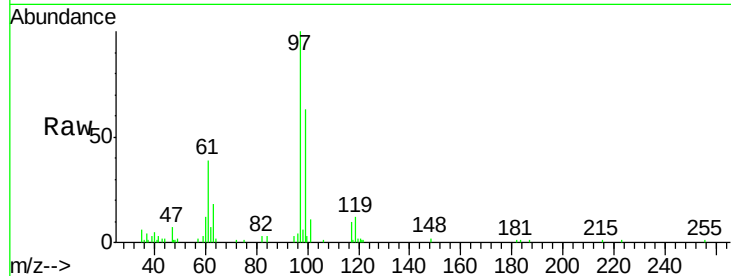
ClientSampled :

IA1

Tot Ion:	97	Resp:	48591
Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.0	76.6
61	49.7	38.1	57.1

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

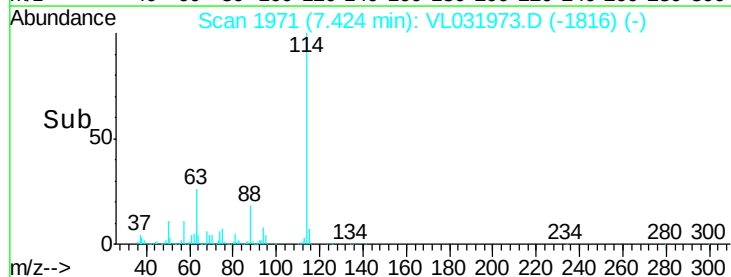
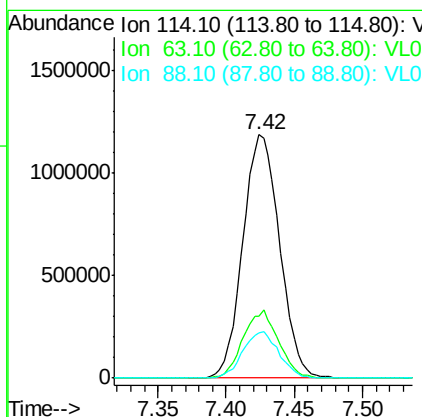
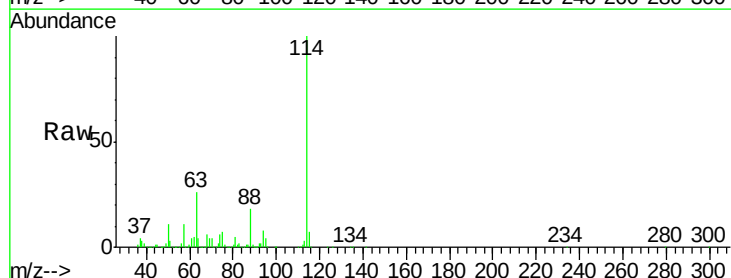
RT: 7.42 min Scan# 1971

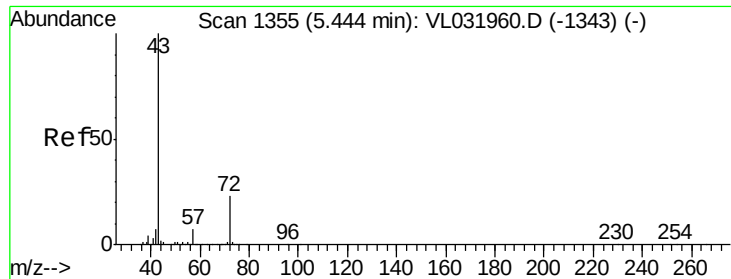
Delta R.T. -0.00 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

Tgt Ion:	114	Resp:	2220966
Ion	Ratio	Lower	Upper
114	100		
63	27.0	20.8	31.2
88	18.7	14.6	21.8





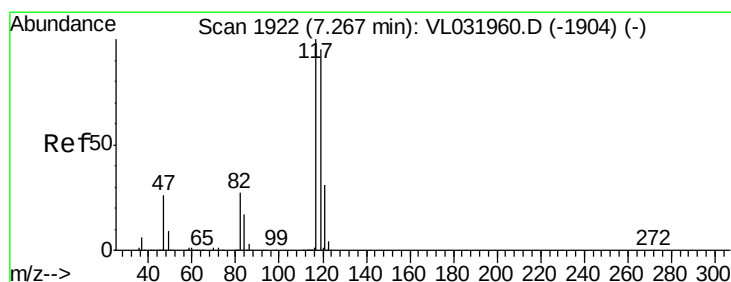
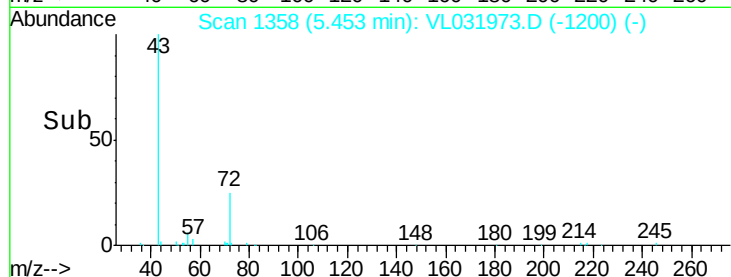
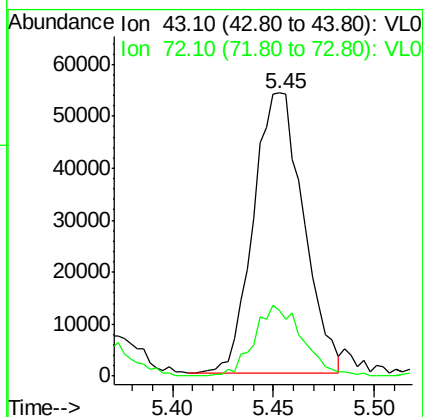
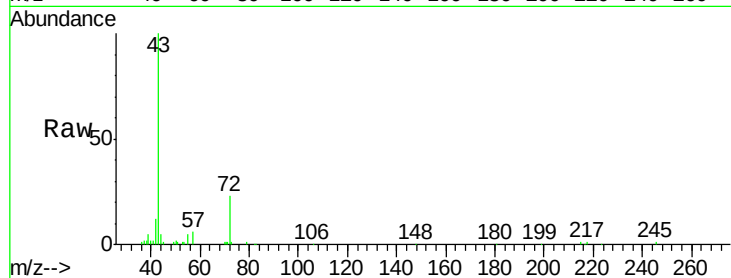
#34
2-Butanone
Concen: 0.51 ppbv
RT: 5.45 min Scan# 1358
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.3	27.5

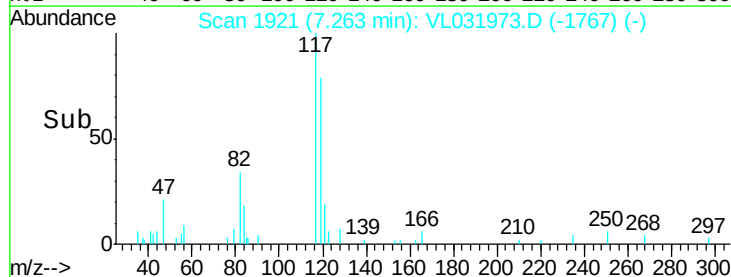
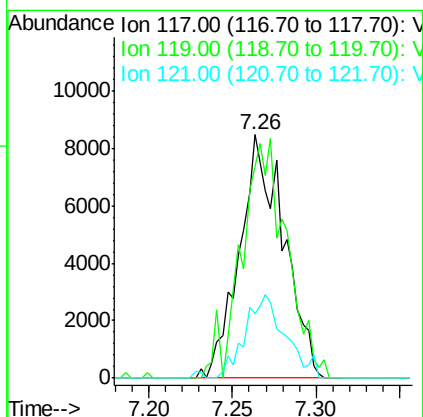
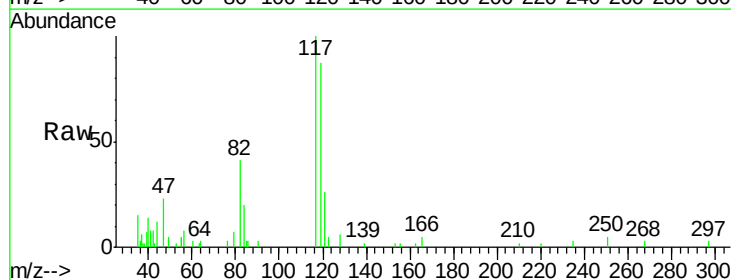
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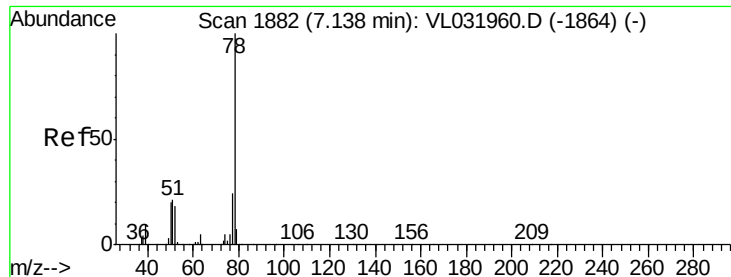
MMDadoda
5/4/2018 5:01:08 PM



#35
Carbon Tetrachloride
Concen: 0.09 ppbv m
RT: 7.26 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	86.7	76.4	114.6
121	26.3	24.4	36.6





#36

Benzene

Concen: 0.14 ppbv

RT: 7.13 min Scan# 1881

Delta R.T. -0.00 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

Instrument :

MSVOA_L

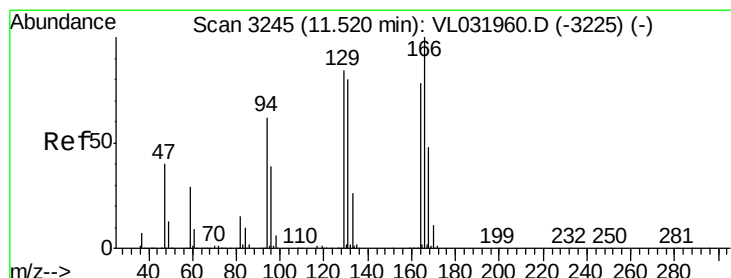
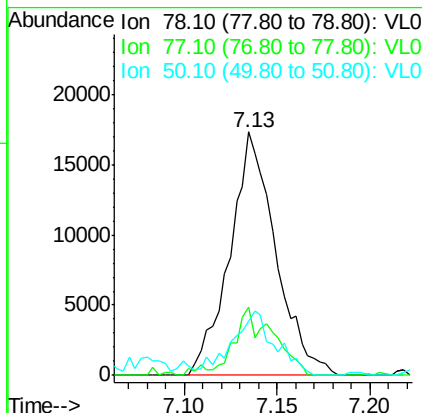
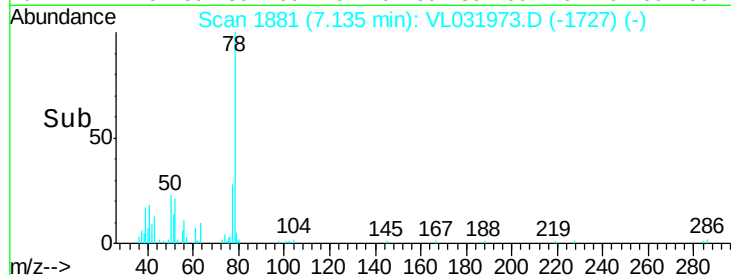
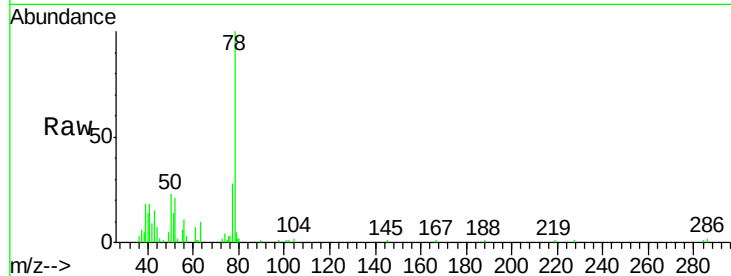
ClientSampleId :

IA1

Tot Ion:	78	Resp:	29828
Ion	Ratio	Lower	Upper
78	100		
77	27.0	19.2	28.8
50	21.5	16.2	24.4

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#52

Tetrachloroethene

Concen: 0.04 ppbv m

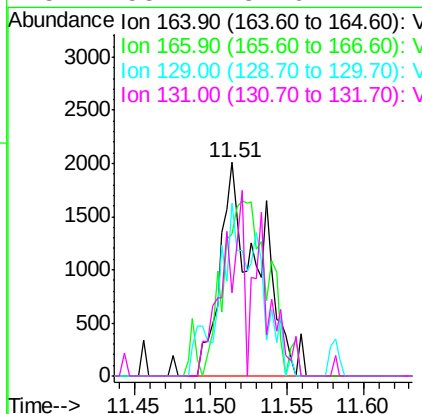
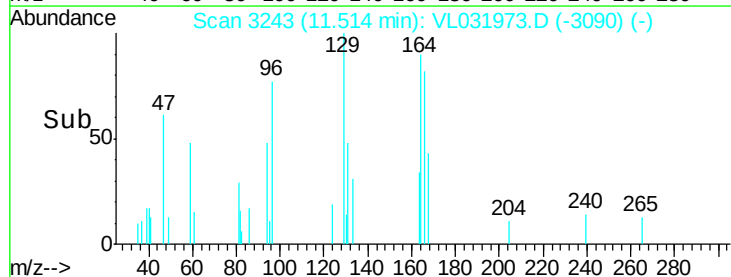
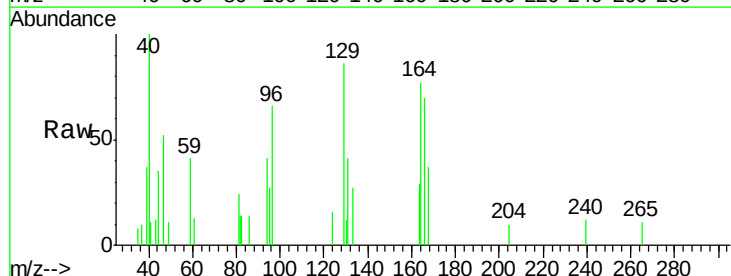
RT: 11.51 min Scan# 3243

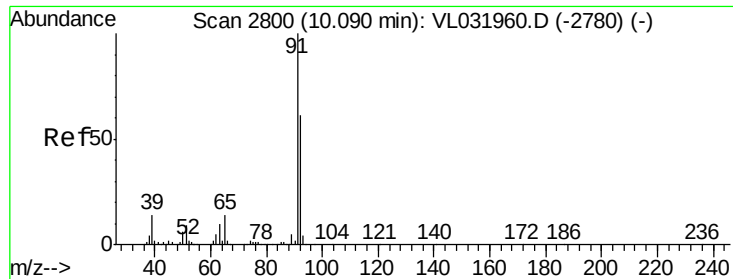
Delta R.T. -0.01 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

Tgt Ion:	164	Resp:	3481
Ion	Ratio	Lower	Upper
164	100		
166	91.0	101.9	152.9#
129	111.5	85.8	128.6
131	53.2	81.6	122.4#





#53

Toluene

Concen: 0.24 ppbv m

RT: 10.10 min Scan# 2802

Delta R.T. 0.01 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 91 Resp: 53880

Ion Ratio Lower Upper

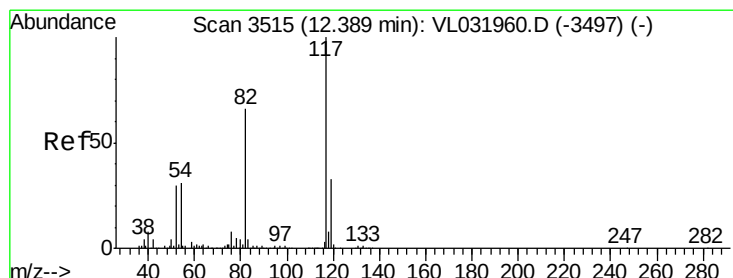
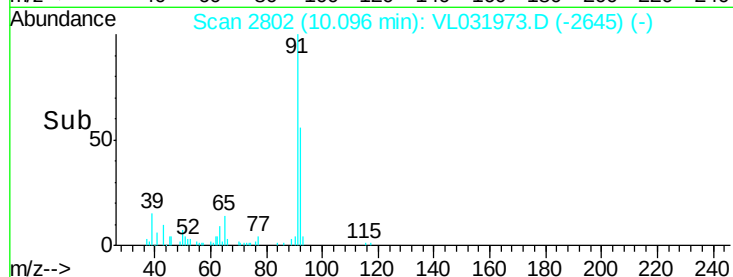
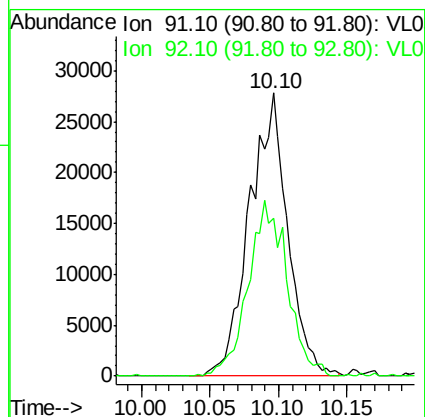
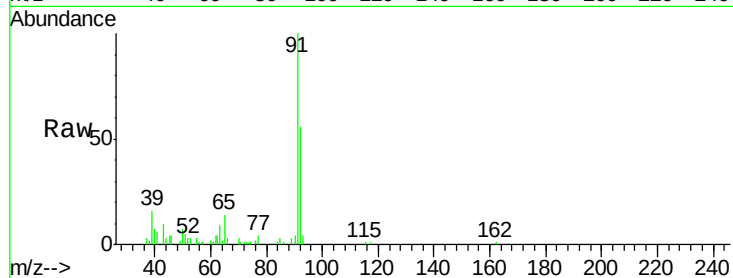
91 100

92 62.8 47.4 71.2

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.39 min Scan# 3515

Delta R.T. -0.00 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

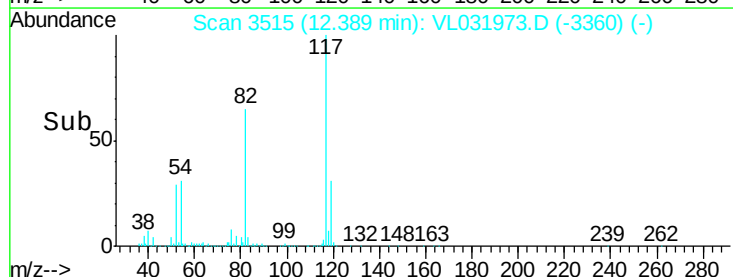
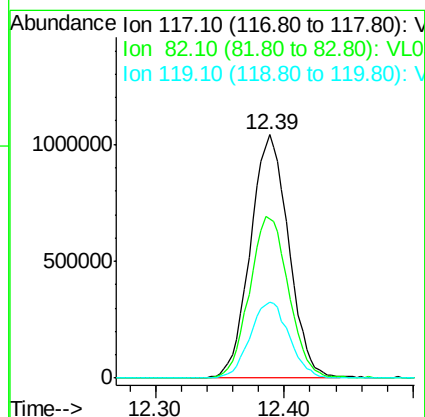
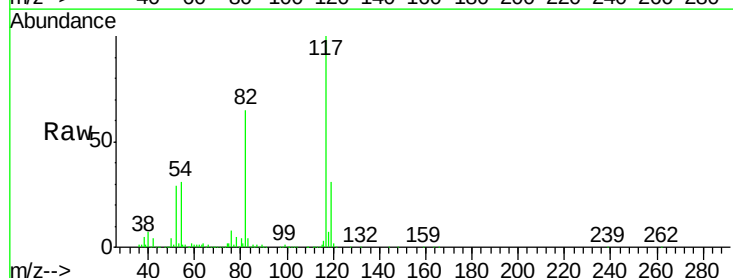
Tgt Ion: 117 Resp: 2156566

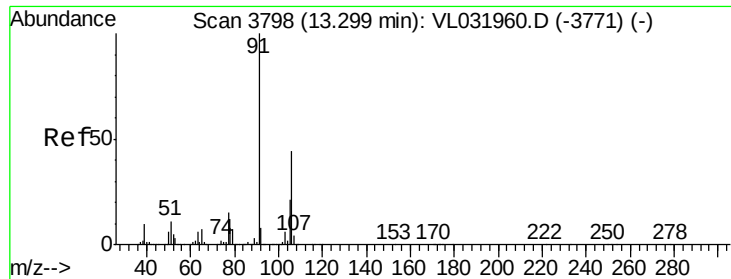
Ion Ratio Lower Upper

117 100

82 67.7 51.6 77.4

119 32.3 44.2 66.4#





#59

m/p-Xylene

Concen: 0.44 ppbv m

RT: 13.27 min Scan# 3790

Delta R.T. -0.03 min

Lab File: VL031973.D

Acq: 3 May 2018 22:00

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 91 Resp: 115721

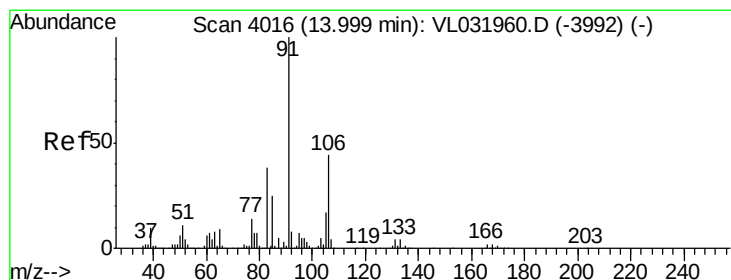
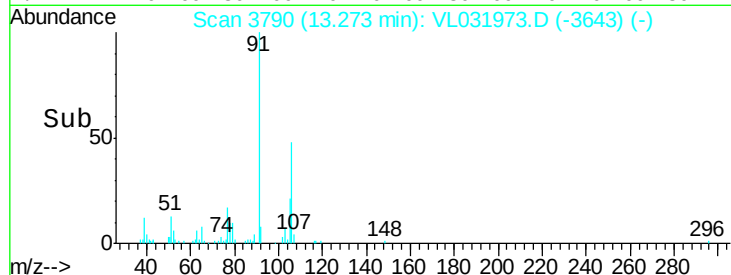
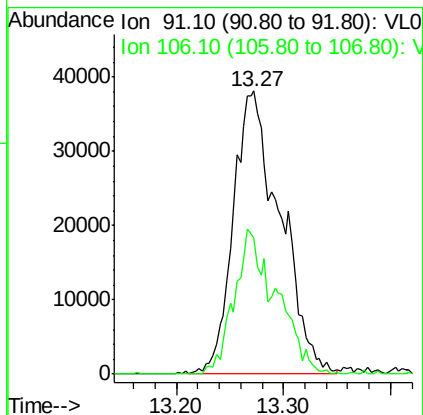
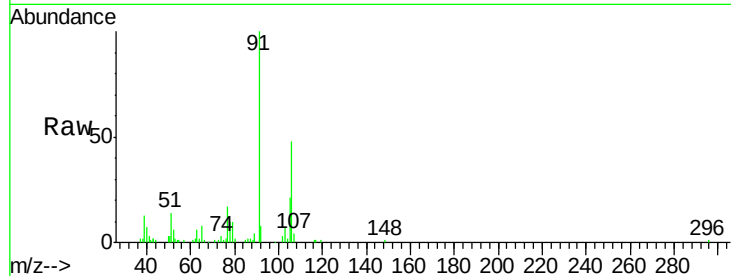
Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#

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#60

o-Xylene

Concen: 0.21 ppbv

RT: 13.99 min Scan# 4014

Delta R.T. -0.01 min

Lab File: VL031973.D

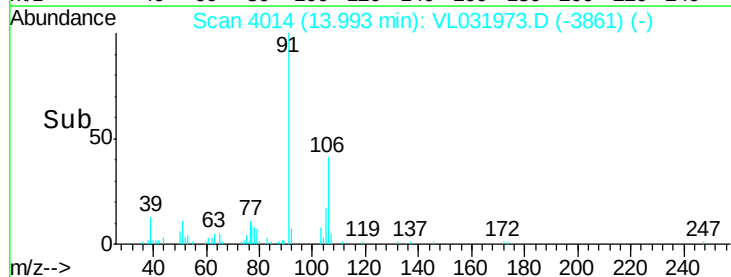
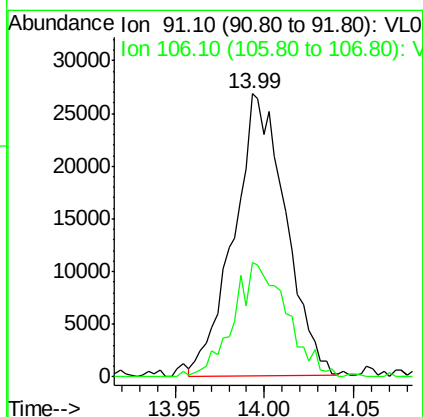
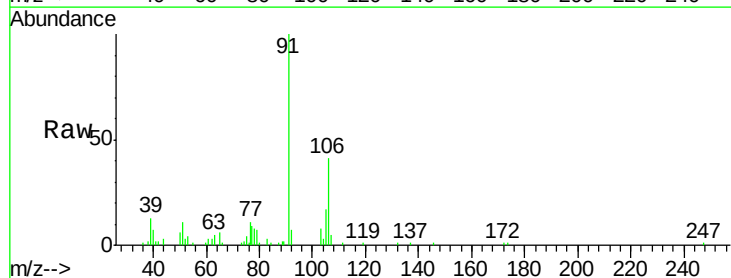
Acq: 3 May 2018 22:00

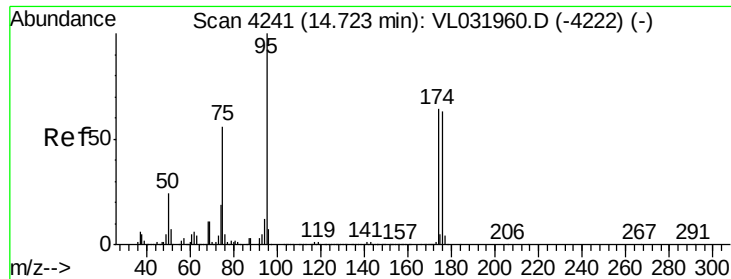
Tgt Ion: 91 Resp: 54111

Ion Ratio Lower Upper

91 100

106 41.9 21.5 64.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.50 ppbv
 RT: 14.72 min Scan# 4241
 Delta R.T. -0.00 min
 Lab File: VL031973.D
 Acq: 3 May 2018 22:00

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.2	53.0	79.6
175	4.8	3.9	5.9

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:08 PM

