

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032946.D
 Acq On : 7 Dec 2018 22:27
 Operator : SY/AP
 Sample : J6262-04 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:09:35 AM

Quant Time: Dec 10 20:20:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1236647	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3032408	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3025513	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2552605	11.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	64481	0.391	ppbv	90
3) Chlorodifluoromethane	3.02	51	662338m	7.072	ppbv	
4) Chloromethane	3.17	50	8249	0.151	ppbv	90
5) Vinyl Chloride	3.30	62	20592	0.371	ppbv	97
9) Propene	3.05	41	52228m	1.410	ppbv	
15) Acetone	3.92	43	191502	1.804	ppbv	92
18) 1,1-Dichloroethene	4.36	96	8724m	0.168	ppbv	
19) Isopropyl Alcohol	4.06	45	36775	0.552	ppbv #	93
22) trans-1,2-Dichloroethene	4.97	96	668915	10.371	ppbv	97
26) Hexane	5.78	57	48784	0.421	ppbv #	72
27) Carbon Disulfide	4.62	76	59532	0.411	ppbv #	82
28) Methyl tert-Butyl Ether	5.13	73	79624	0.458	ppbv	99
29) Chloroform	5.85	83	239317	1.159	ppbv	95
31) cis-1,2-Dichloroethene	5.64	61	1409548	13.269	ppbv	98
36) Benzene	7.01	78	26353	0.118	ppbv #	86
38) Trichloroethene	7.97	130	6588303	70.978	ppbv	98
52) Tetrachloroethene	11.41	164	20830626	256.752	ppbv	89
53) Toluene	9.96	91	68236m	0.288	ppbv	
59) m/p-Xylene	13.13	91	174650m	0.597	ppbv	
60) o-Xylene	13.86	91	88124	0.298	ppbv	100
72) 4-Ethyltoluene	16.01	105	50005m	0.152	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	50531m	0.157	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	187550m	0.516	ppbv	

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

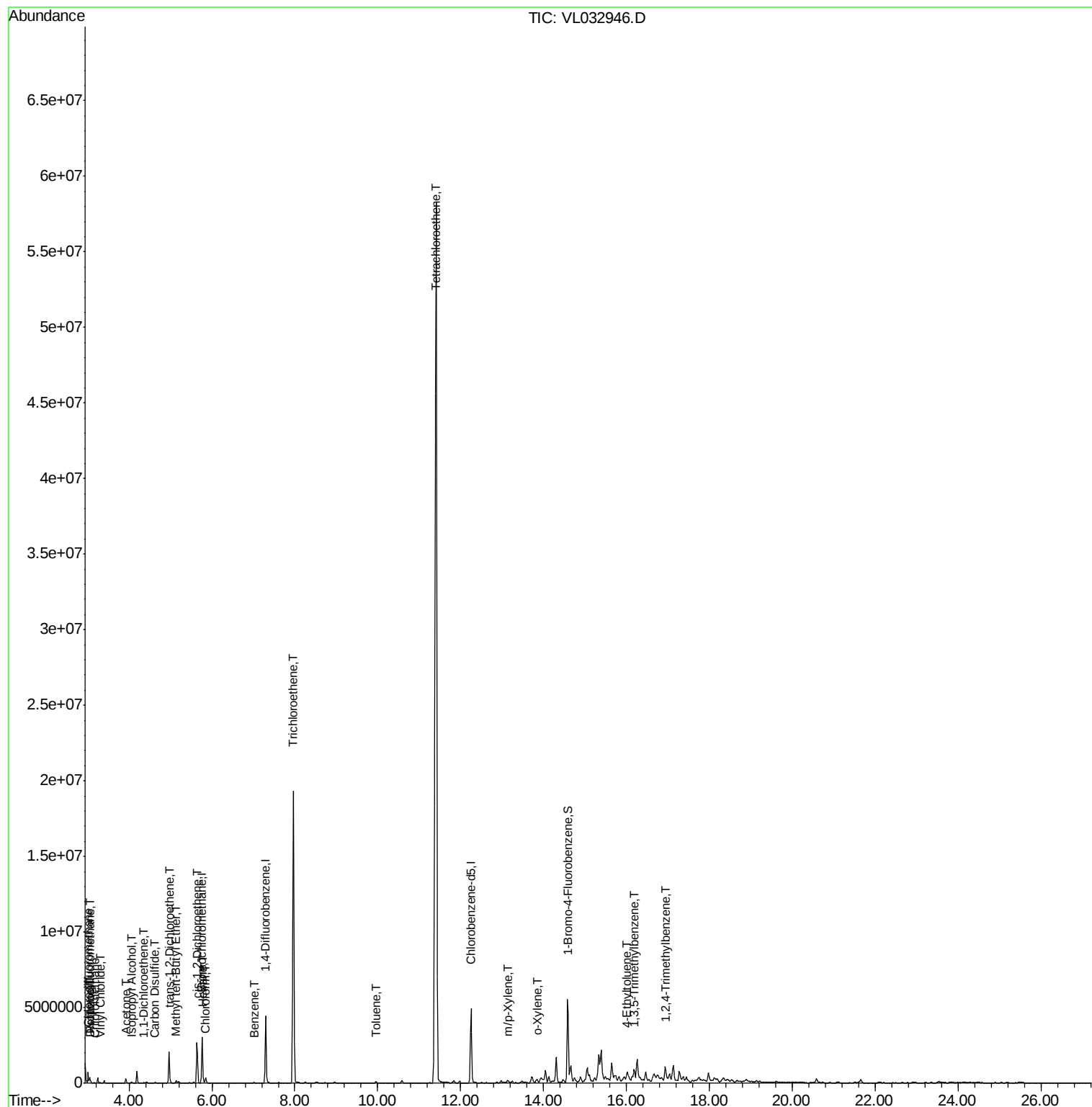
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
Data File : VL032946.D
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Operator : SY/AP
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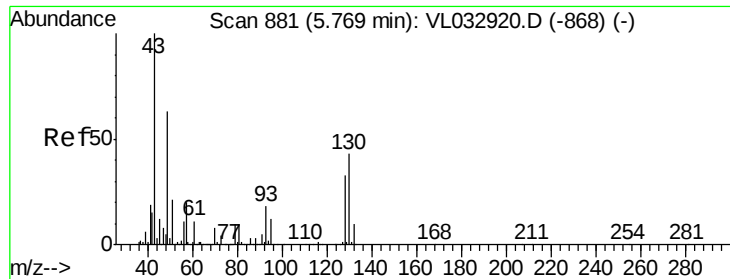
Instrument :
MSVOA_L
ClientSampleId :
SV2

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12/11/2018 10:09:35 AM

Quant Time: Dec 10 20:20:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032946.D

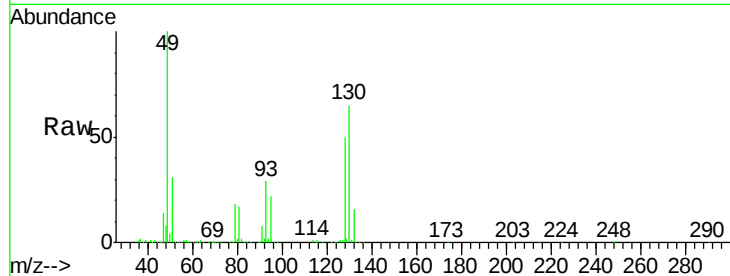
Acq: 7 Dec 2018 22:27

Instrument :

MSVOA_L

ClientSampled :

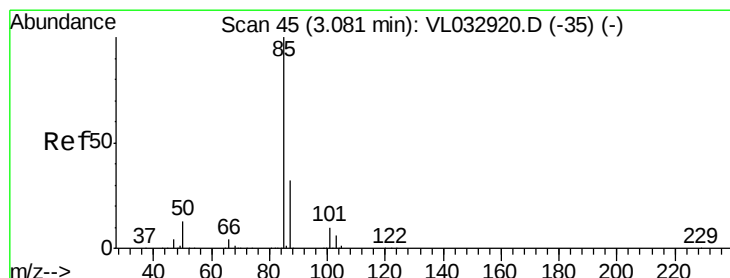
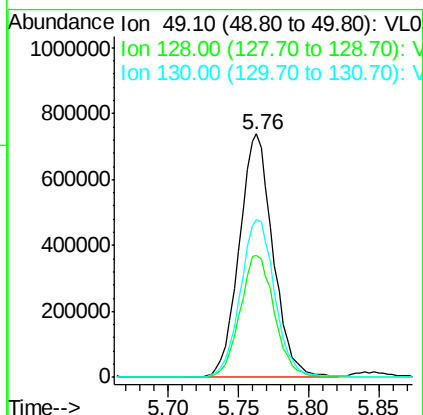
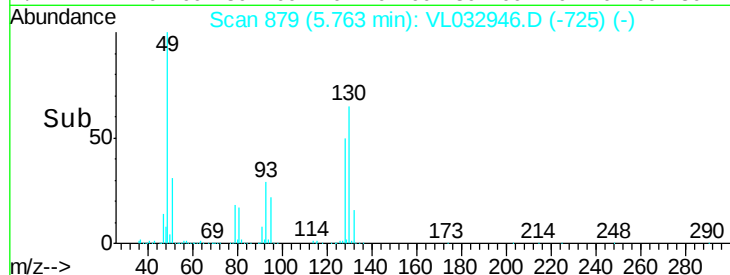
SV2



Tgt Ion:	49	Resp:	1236647
Ion	Ratio	Lower	Upper
49	100		
128	51.1	26.3	78.8
130	67.0	33.9	101.7

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#2

Dichlorodifluoromethane

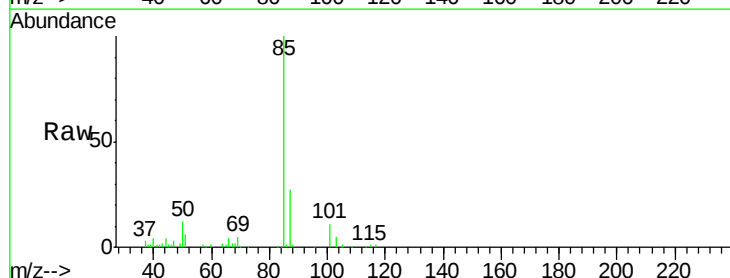
Concen: 0.391 ppbv

RT: 3.08 min Scan# 44

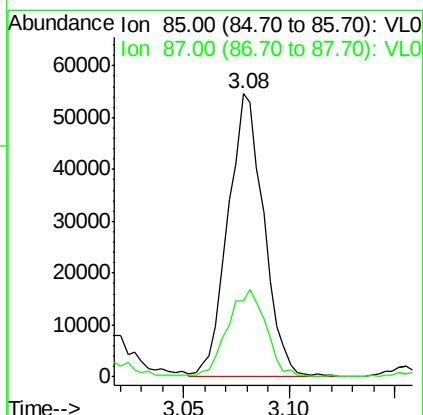
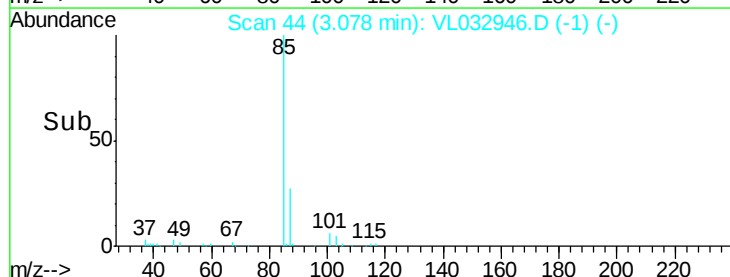
Delta R.T. -0.00 min

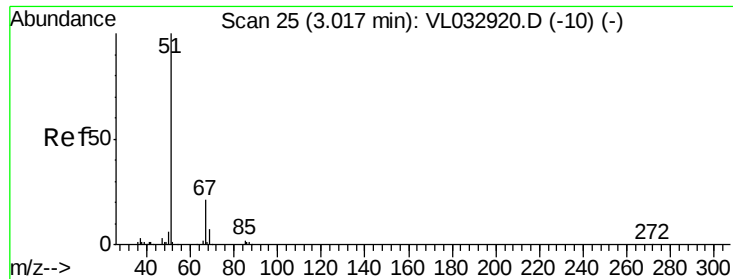
Lab File: VL032946.D

Acq: 7 Dec 2018 22:27



Tgt Ion:	85	Resp:	64481
Ion	Ratio	Lower	Upper
85	100		
87	26.6	25.7	38.5





#3

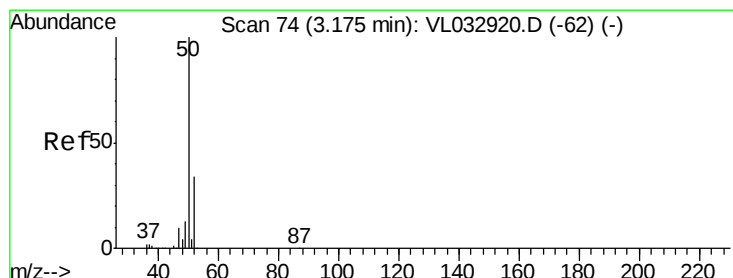
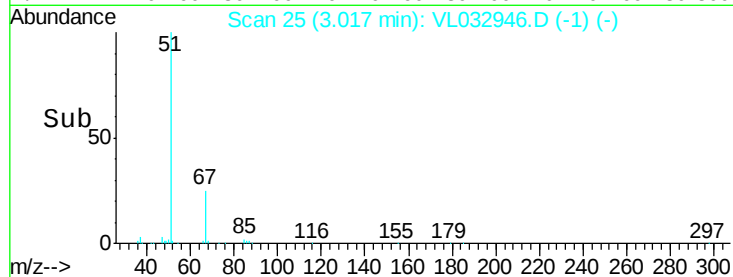
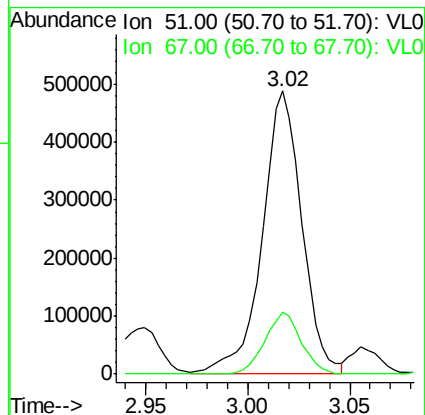
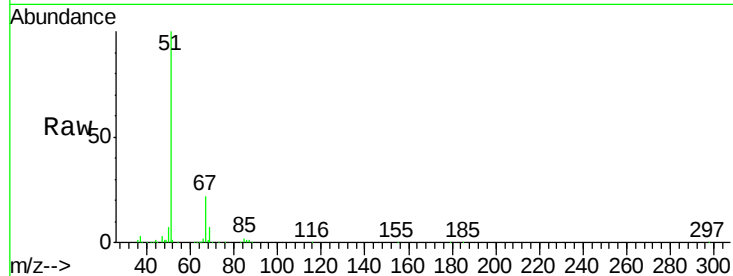
Chlorodifluoromethane
Concen: 7.072 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 51 Resp: 662338
Ion Ratio Lower Upper
51 100
67 20.1 16.8 25.2

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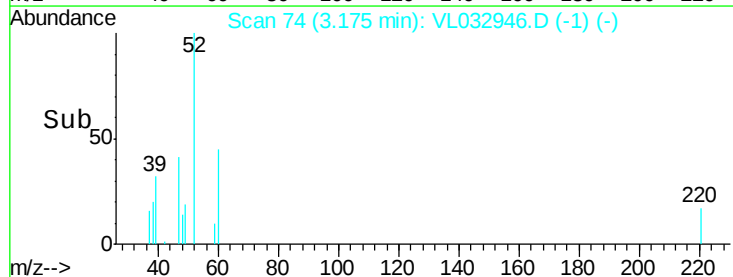
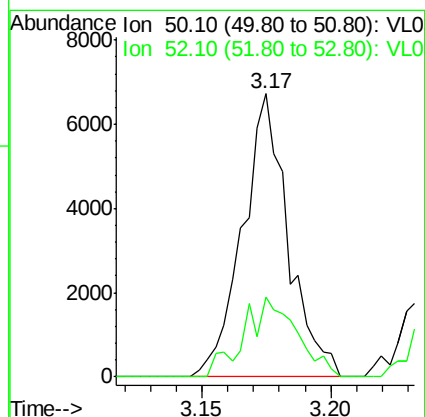
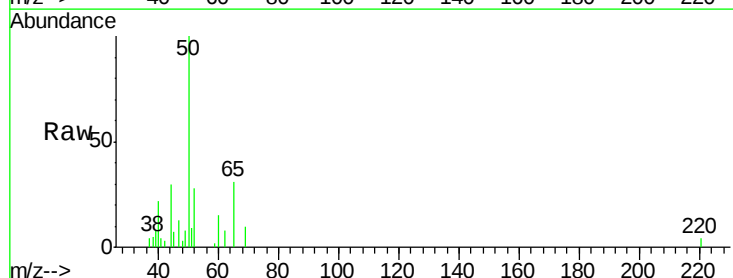
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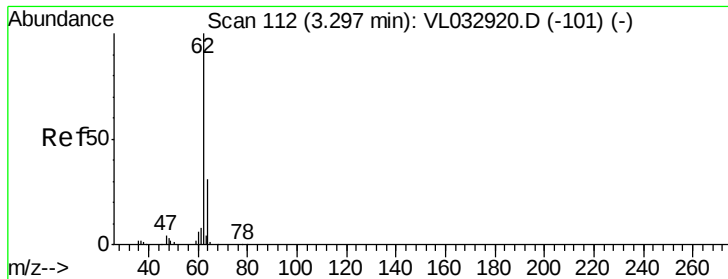


#4

Chloromethane
Concen: 0.151 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 50 Resp: 8249
Ion Ratio Lower Upper
50 100
52 28.3 27.3 40.9





#5

Vinyl Chloride

Concen: 0.371 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032946.D

Acq: 7 Dec 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 62 Resp: 20592

Ion Ratio Lower Upper

62 100

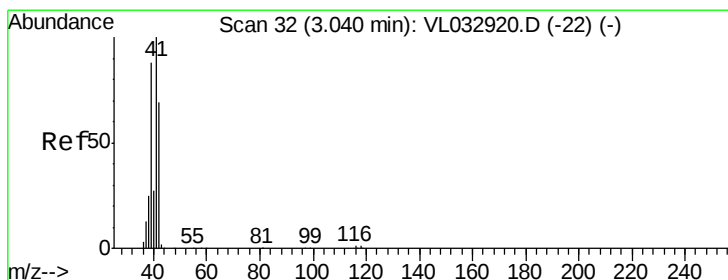
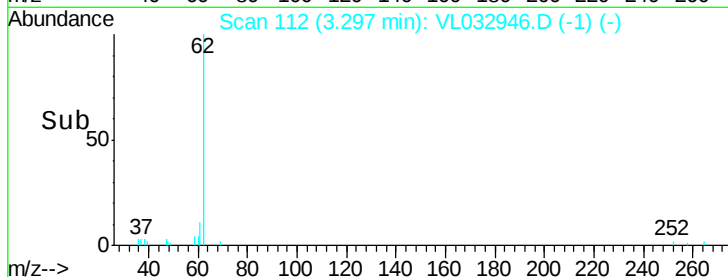
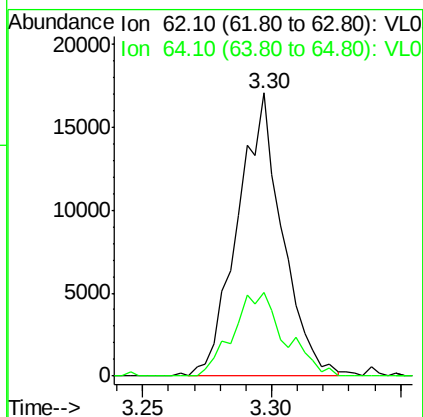
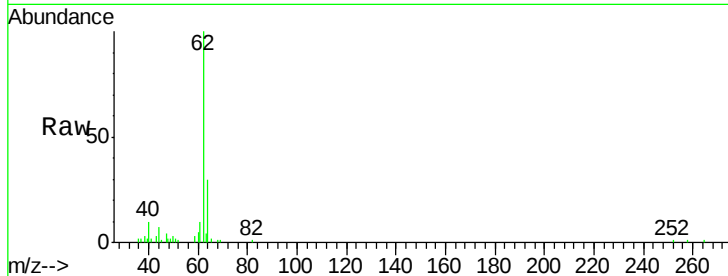
64 29.5 24.8 37.2

Manual Integrations

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#9

Propene

Concen: 1.410 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032946.D

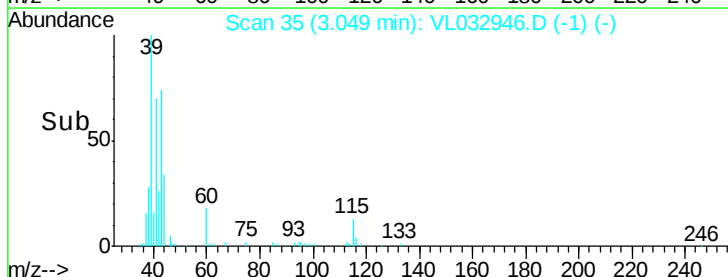
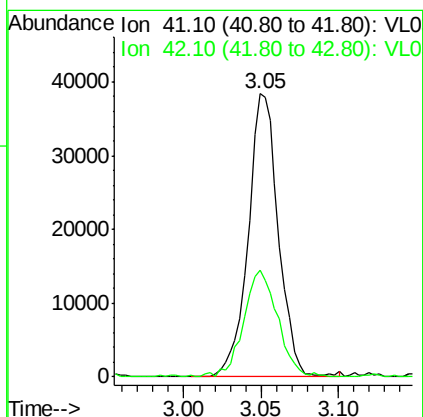
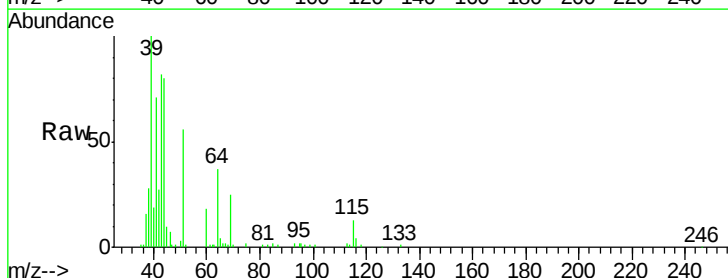
Acq: 7 Dec 2018 22:27

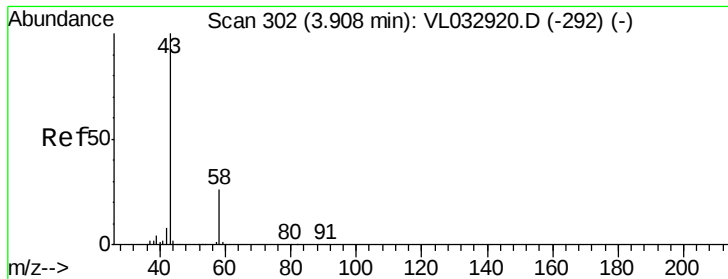
Tgt Ion: 41 Resp: 52228

Ion Ratio Lower Upper

41 100

42 114.1 56.2 84.2#





#15

Acetone

Concen: 1.804 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.01 min

Lab File: VL032946.D

Acq: 7 Dec 2018 22:27

Instrument :

MSVOA_L

ClientSampled :

SV2

Tgt Ion: 43 Resp: 191502

Ion Ratio Lower Upper

43 100

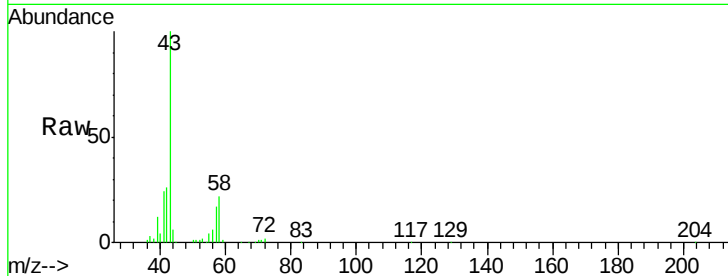
58 21.5 20.6 30.8

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

120000

100000

80000

60000

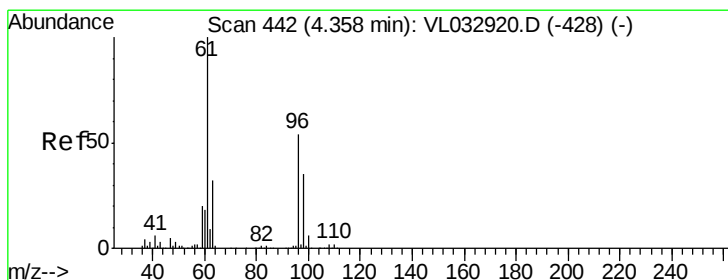
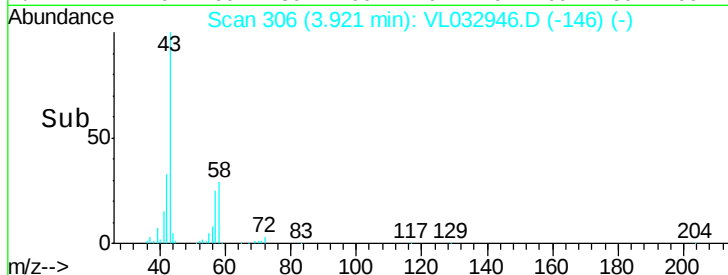
40000

20000

0

3.85 3.90 3.95 4.00

Time-->



#18

1,1-Dichloroethene

Concen: 0.168 ppbv m

RT: 4.36 min Scan# 442

Delta R.T. -0.00 min

Lab File: VL032946.D

Acq: 7 Dec 2018 22:27

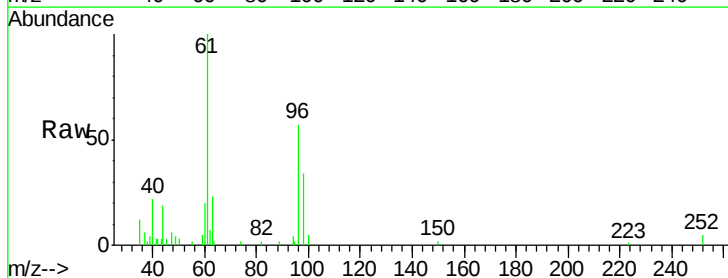
Tgt Ion: 96 Resp: 8724

Ion Ratio Lower Upper

96 100

61 174.0 147.0 220.4

98 58.8 50.7 76.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

15000

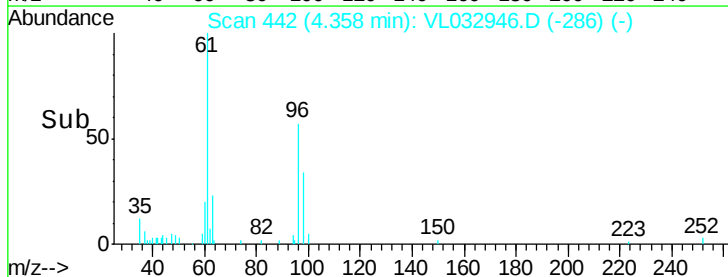
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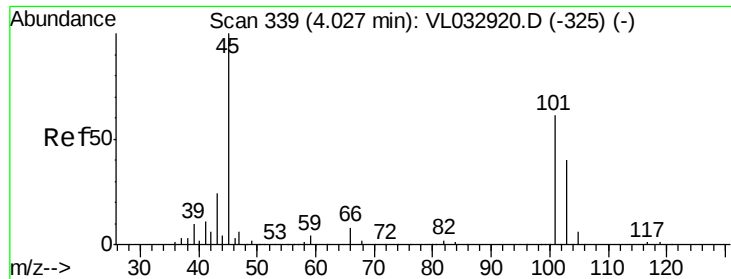
5000

0

4.32 4.34 4.36 4.38 4.40

Time-->





#19

Isopropyl Alcohol

Concen: 0.552 ppbv

RT: 4.06 min Scan# 348

Delta R.T. 0.03 min

Lab File: VL032946.D

Acq: 7 Dec 2018 22:27

Instrument :

MSVOA_L

ClientSampled :

SV2

Tgt Ion: 45 Resp: 36775

Ion Ratio Lower Upper

45 100

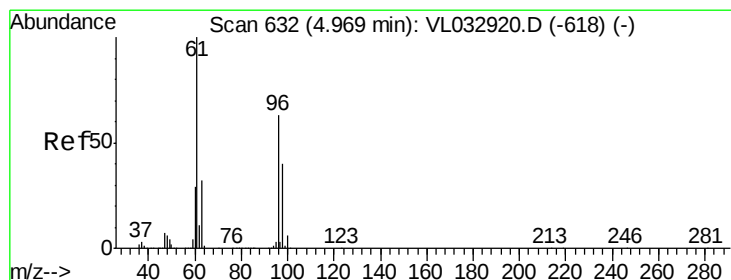
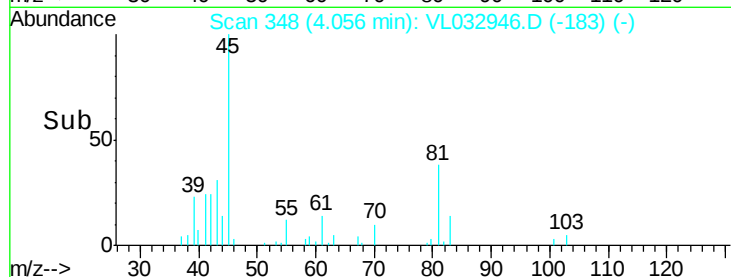
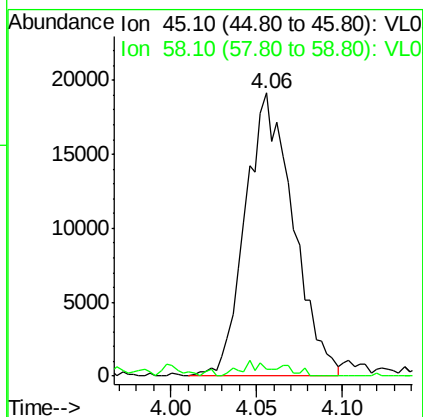
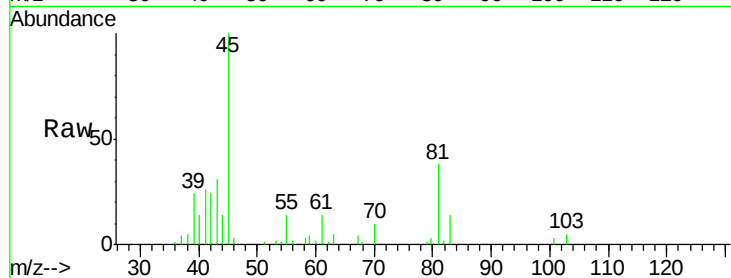
58 4.4 1.4 2.2#

Manual Integrations

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#22

trans-1,2-Dichloroethene

Concen: 10.371 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032946.D

Acq: 7 Dec 2018 22:27

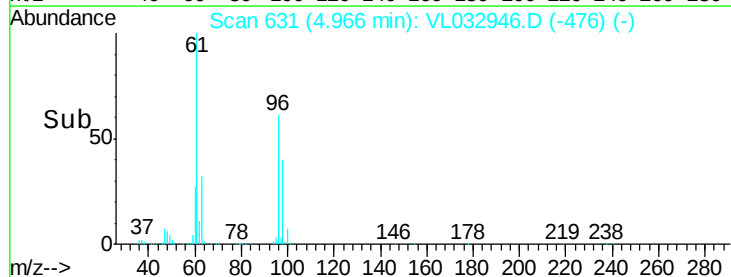
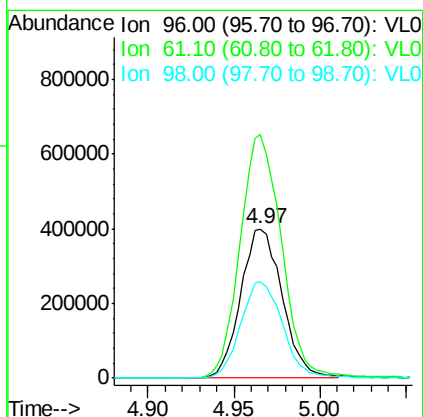
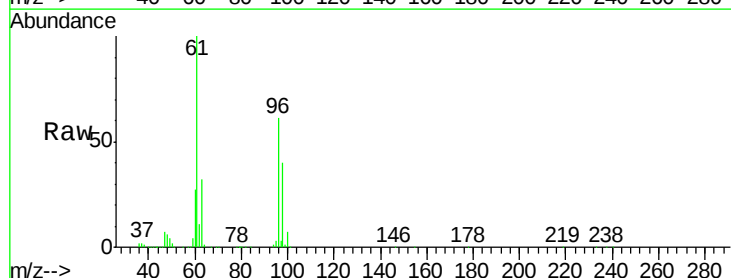
Tgt Ion: 96 Resp: 668915

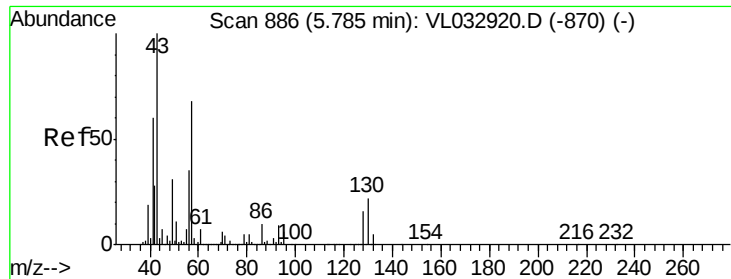
Ion Ratio Lower Upper

96 100

61 163.4 127.1 190.7

98 64.8 51.3 76.9





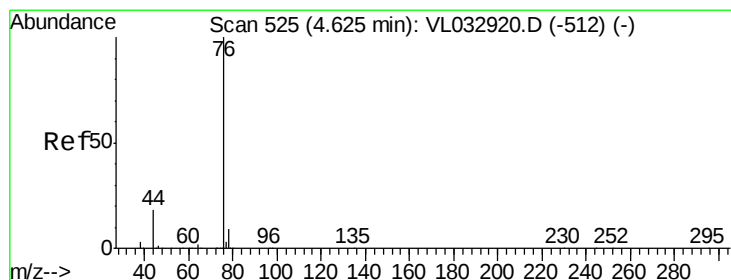
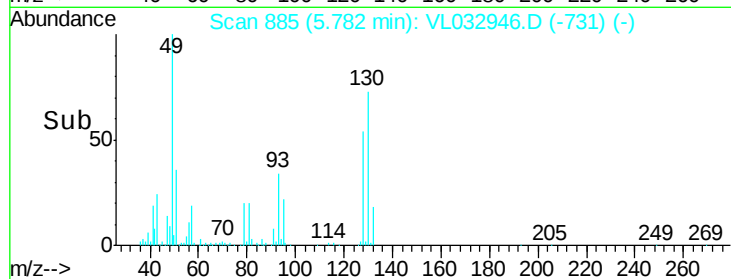
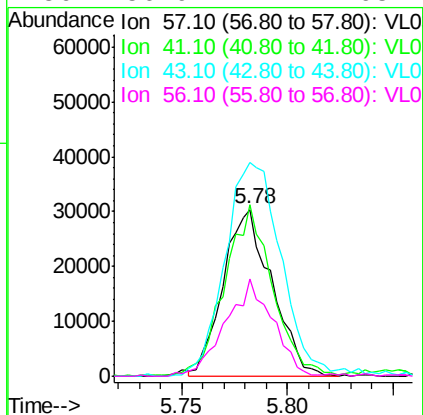
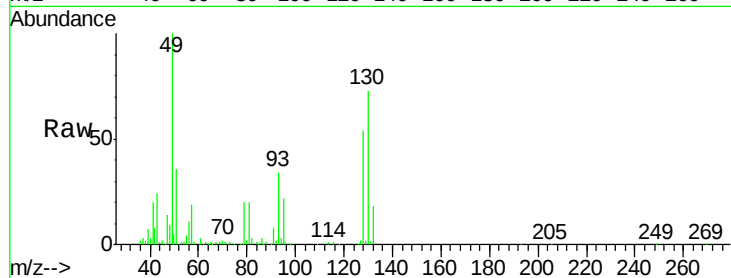
#26
Hexane
Concen: 0.421 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampled :
SV2

Tgt Ion	Ratio	Lower	Upper
57	100		
41	102.2	72.2	108.2
43	150.6	171.9	257.9#
56	56.9	42.2	63.2

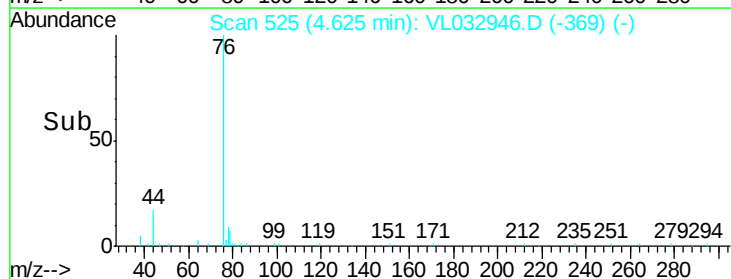
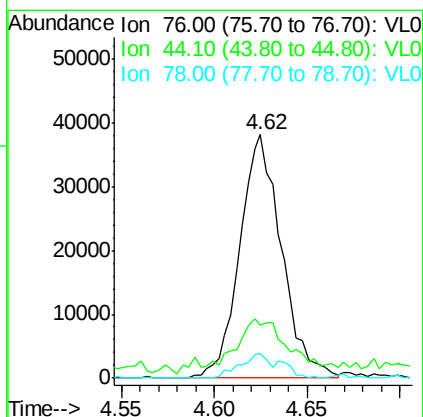
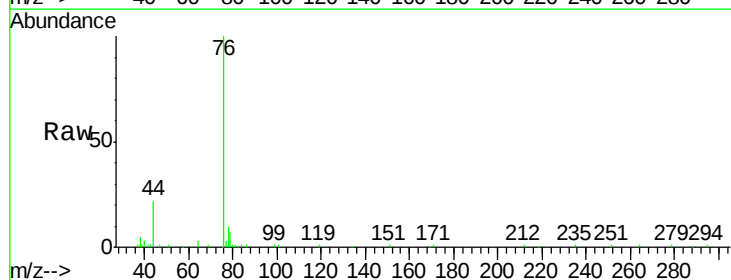
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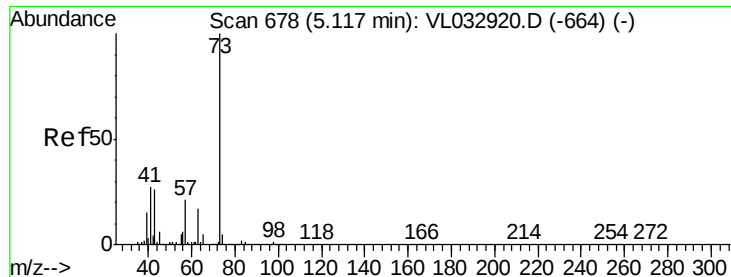
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#27
Carbon Disulfide
Concen: 0.411 ppbv
RT: 4.62 min Scan# 525
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion	Ratio	Lower	Upper
76	100		
44	30.6	14.7	22.1#
78	9.6	7.4	11.2





#28

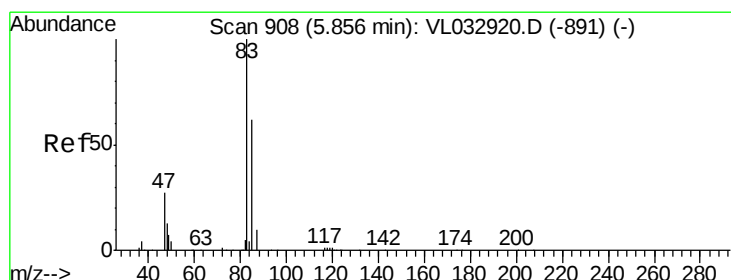
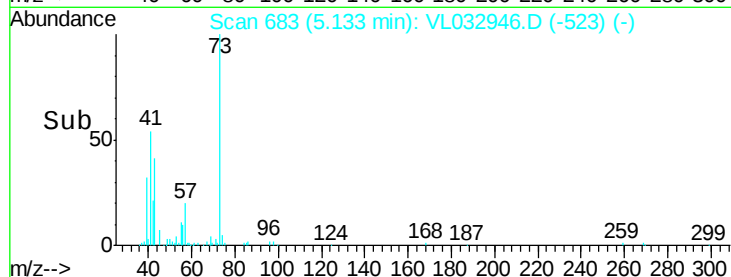
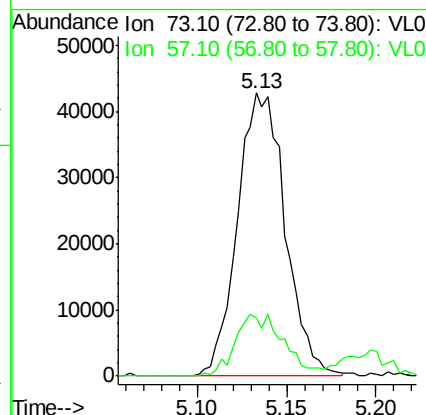
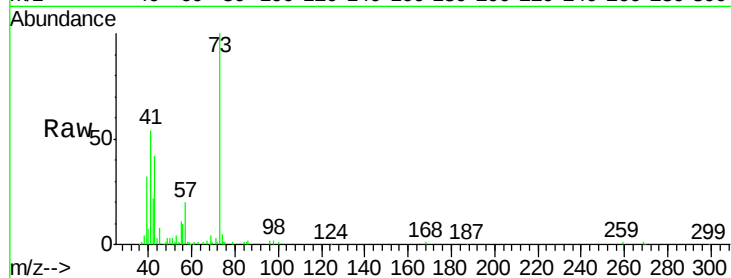
Methyl tert-Butyl Ether
 Concen: 0.458 ppbv
 RT: 5.13 min Scan# 683
 Delta R.T. 0.02 min
 Lab File: VL032946.D
 Acq: 7 Dec 2018 22:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.0

Manual Integrations
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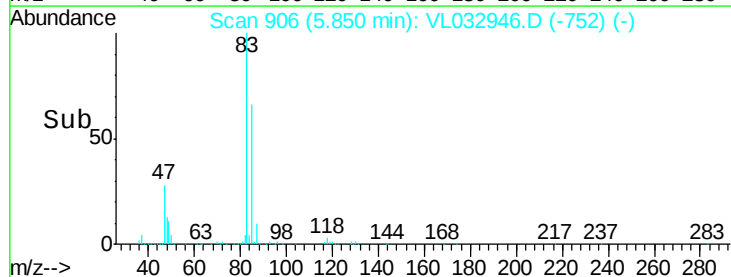
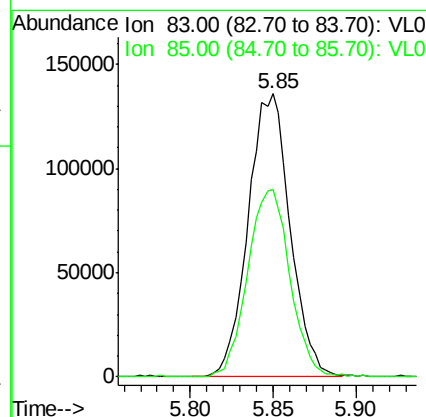
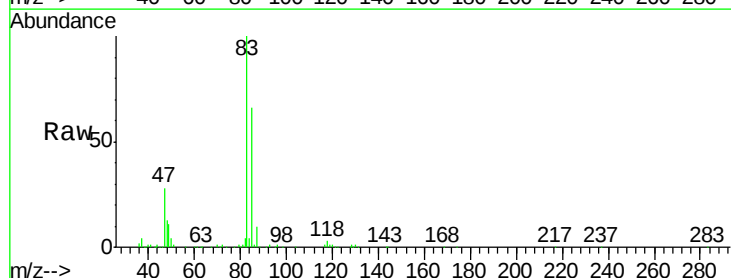
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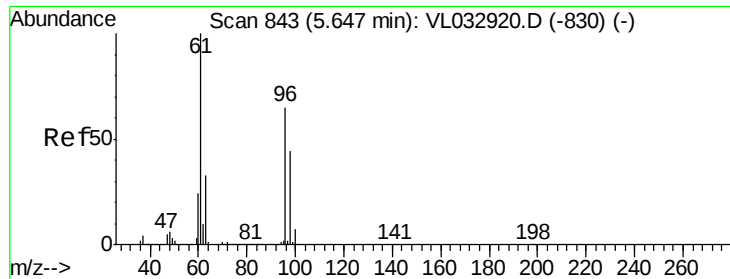


#29

Chloroform
 Concen: 1.159 ppbv
 RT: 5.85 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: VL032946.D
 Acq: 7 Dec 2018 22:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	49.8	74.8





#31

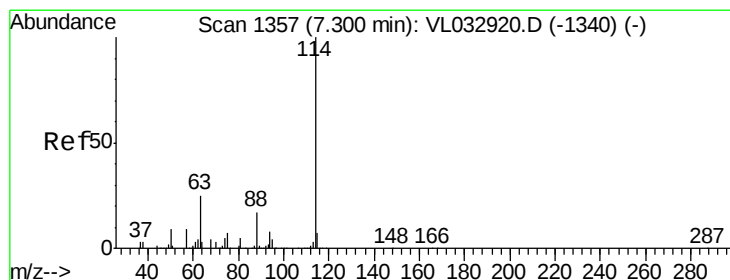
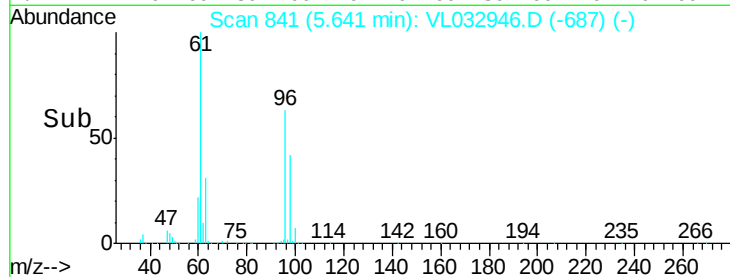
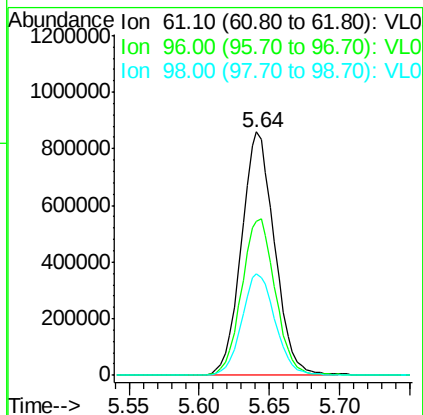
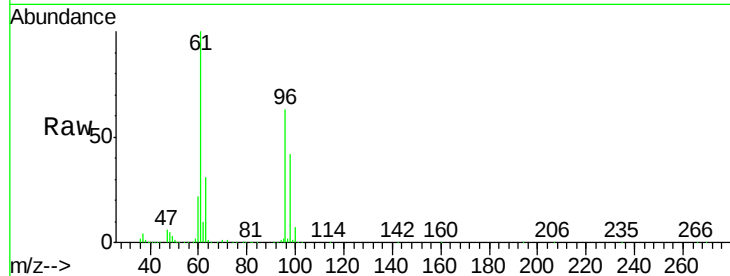
cis-1,2-Dichloroethene
Concen: 13.269 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampled :
SV2

Tgt Ion: 61 Resp: 1409548
Ion Ratio Lower Upper
61 100
96 63.3 51.9 77.9
98 41.8 35.0 52.4

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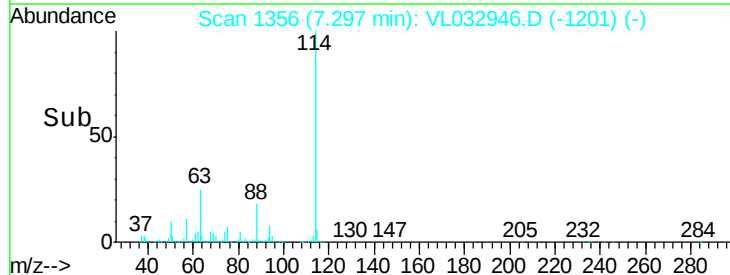
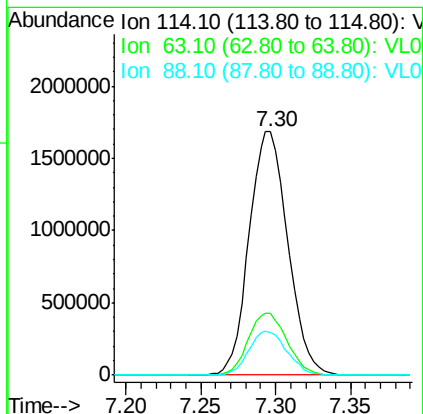
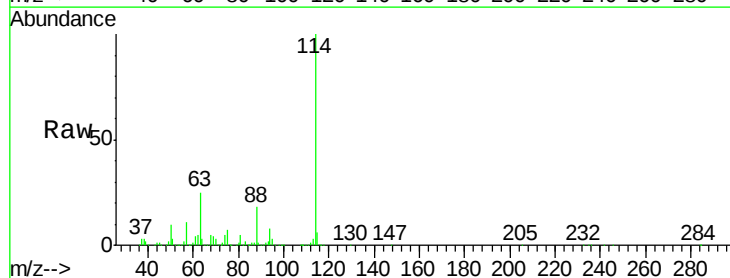
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12/11/2018 10:09:35 AM

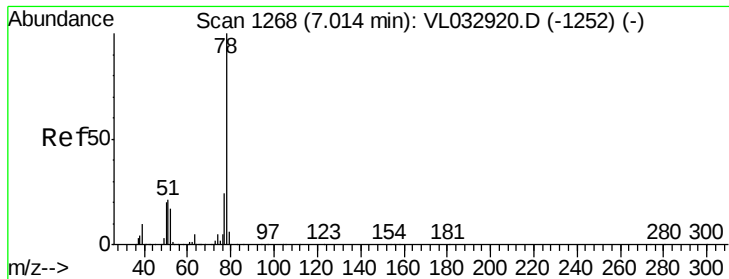


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 114 Resp: 3032408
Ion Ratio Lower Upper
114 100
63 25.8 20.1 30.1
88 17.9 14.2 21.4





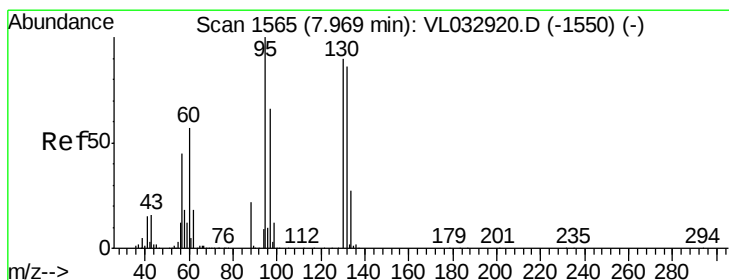
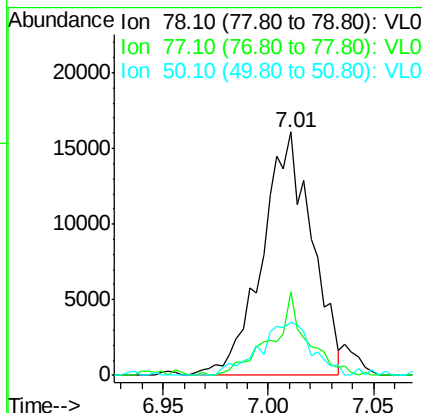
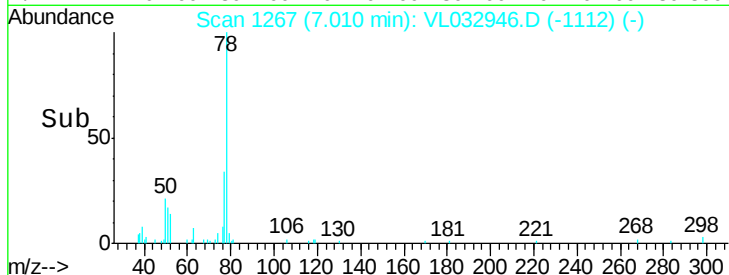
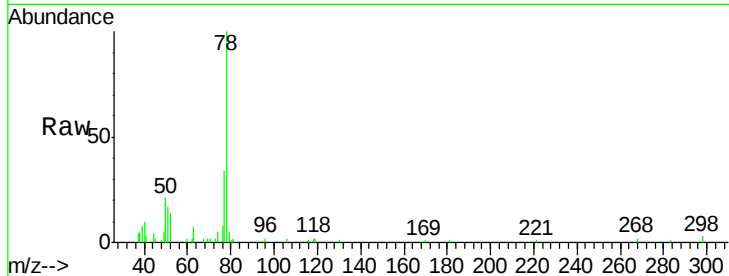
#36
Benzene
Concen: 0.118 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion	Ratio	Lower	Upper
78	100		
77	35.1	18.9	28.3#
50	21.1	16.1	24.1

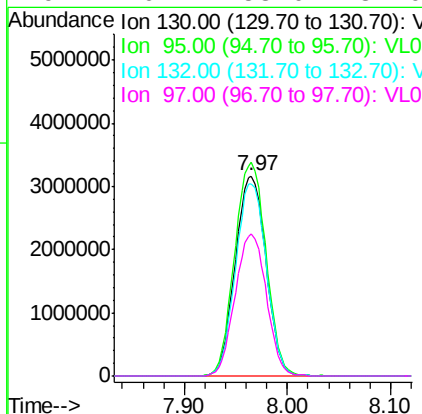
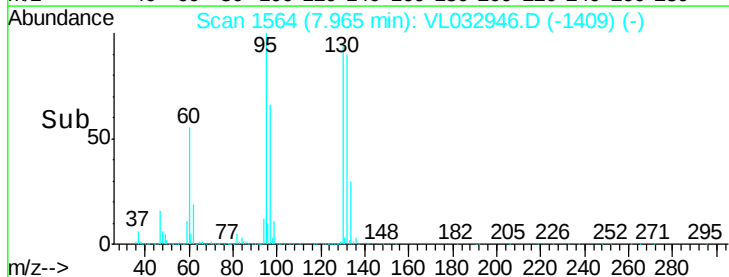
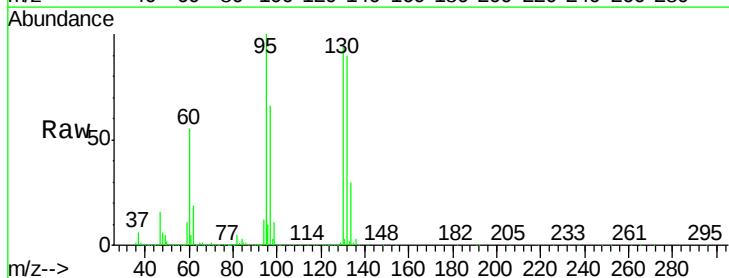
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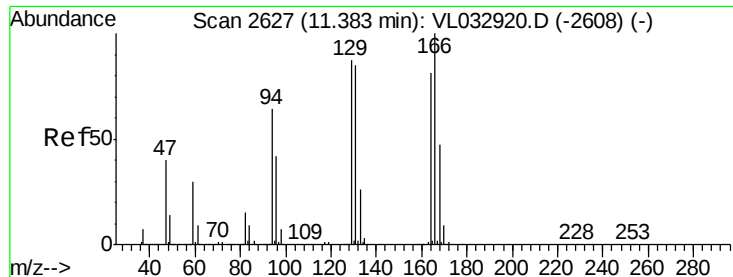
MMDadoda
12/11/2018 10:09:35 AM



#38
Trichloroethene
Concen: 70.978 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion	Ratio	Lower	Upper
130	100		
95	106.7	88.6	132.8
132	96.1	76.1	114.1
97	70.7	58.0	87.0





#52

Tetrachloroethene

Concen: 256.752 ppbv

RT: 11.41 min Scan# 2635

Delta R.T. 0.03 min

Lab File: VL032946.D

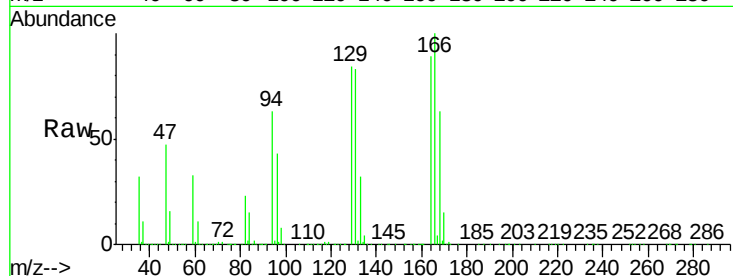
Acq: 7 Dec 2018 22:27

Instrument :

MSVOA_L

ClientSampled :

SV2



Tgt Ion:164 Resp:20830626

Ion Ratio Lower Upper

164 100

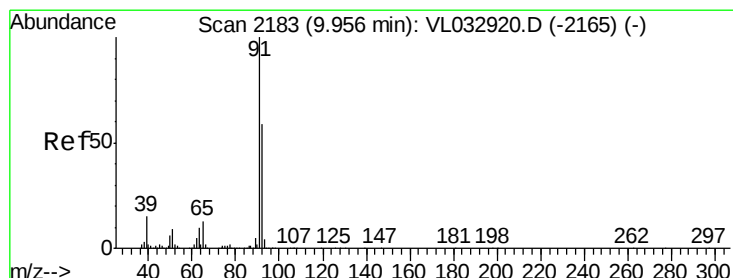
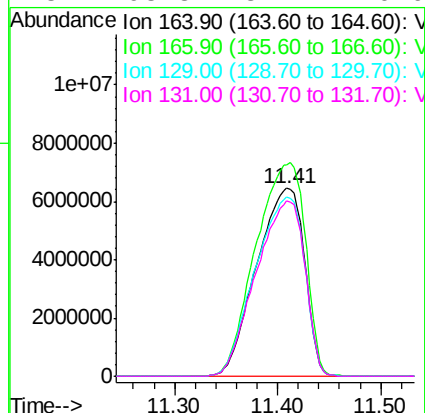
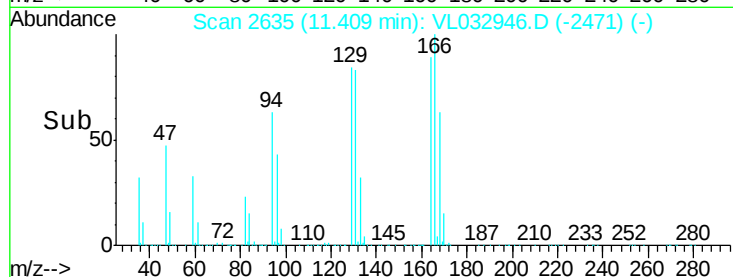
166 112.5 98.8 148.2

129 95.0 85.5 128.3

131 93.3 84.4 126.6

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#53

Toluene

Concen: 0.288 ppbv m

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032946.D

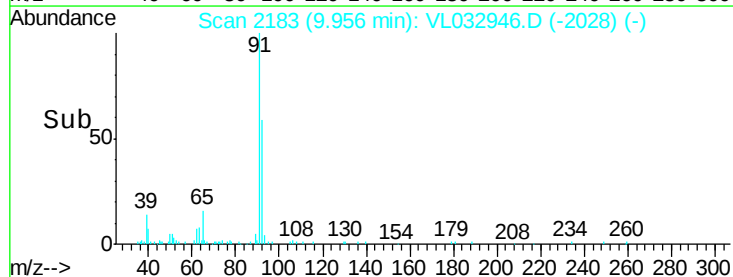
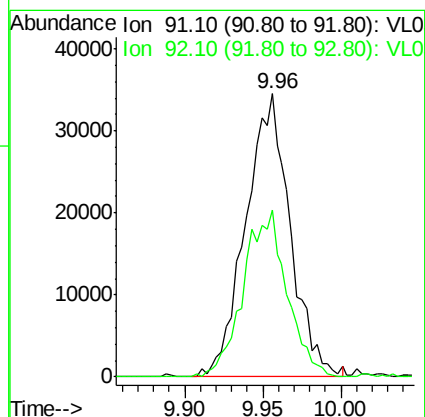
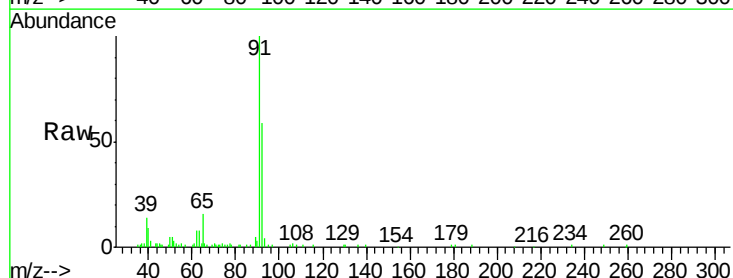
Acq: 7 Dec 2018 22:27

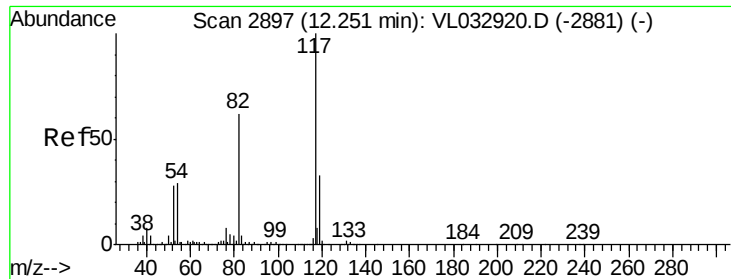
Tgt Ion: 91 Resp: 68236

Ion Ratio Lower Upper

91 100

92 57.3 47.4 71.0





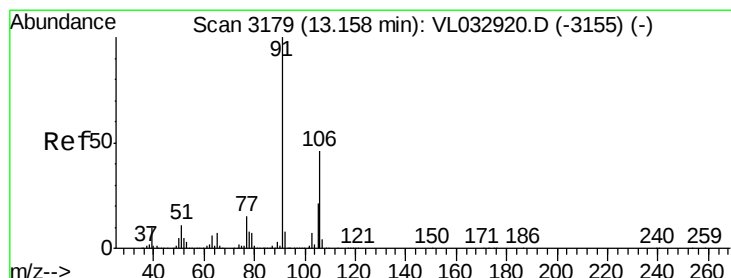
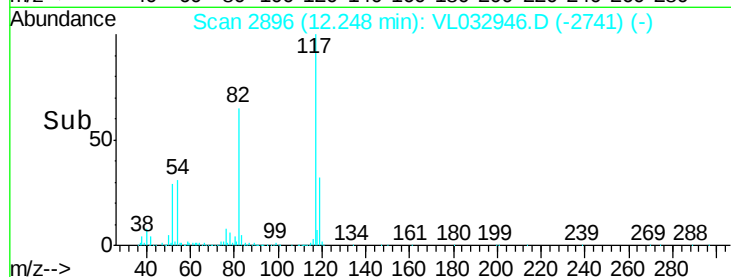
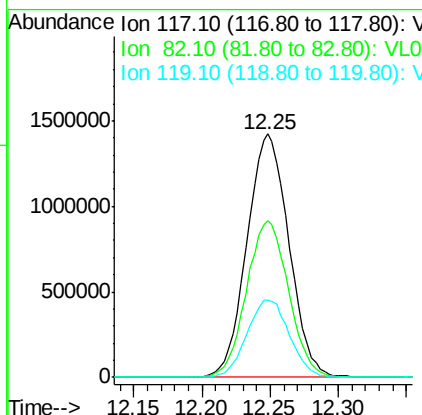
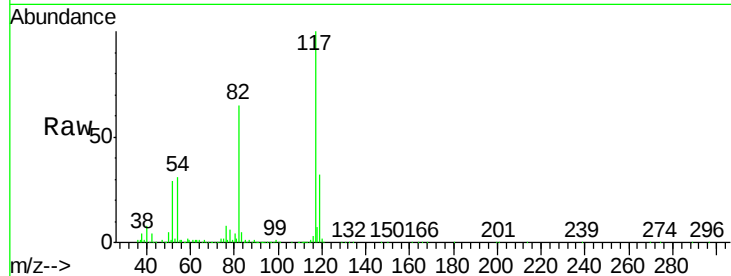
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampled :
SV2

Tgt Ion: 117 Resp: 3025513
Ion Ratio Lower Upper
117 100
82 65.1 47.8 71.8
119 32.4 43.1 64.7#

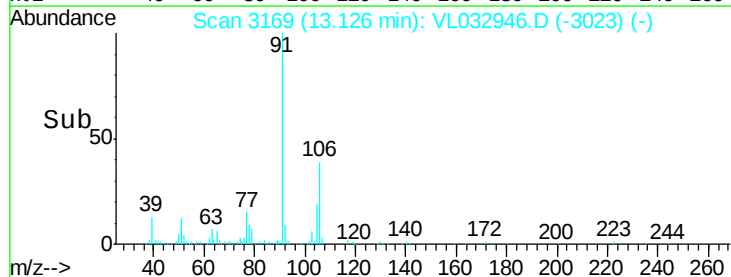
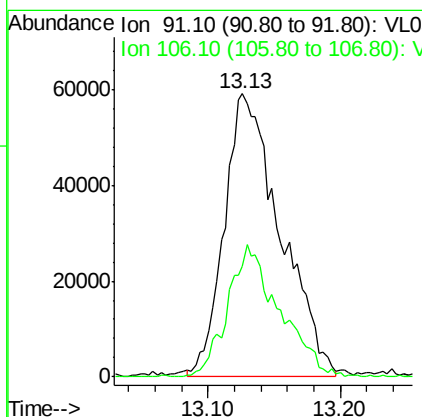
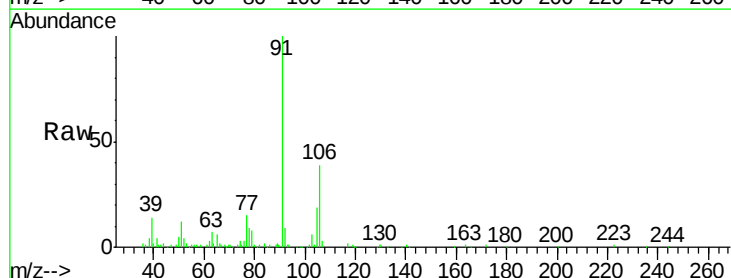
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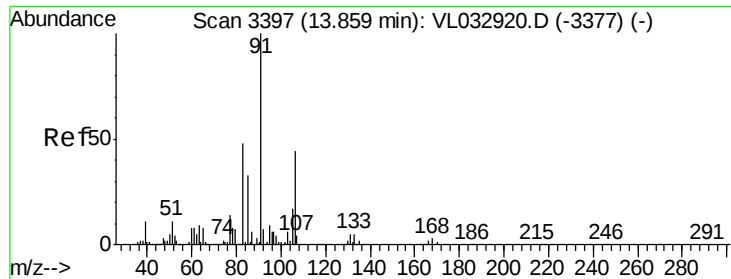
MMDadoda
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#59
m/p-Xylene
Concen: 0.597 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 91 Resp: 174650
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





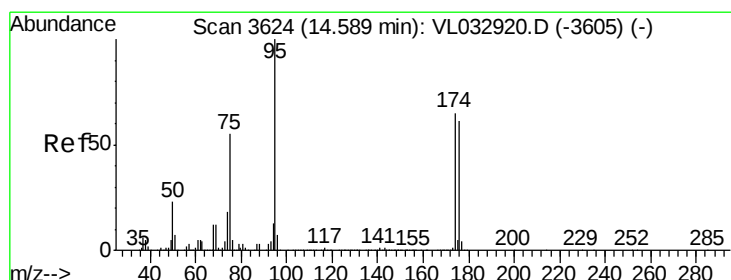
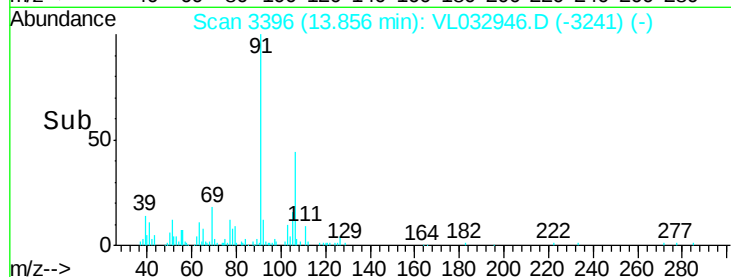
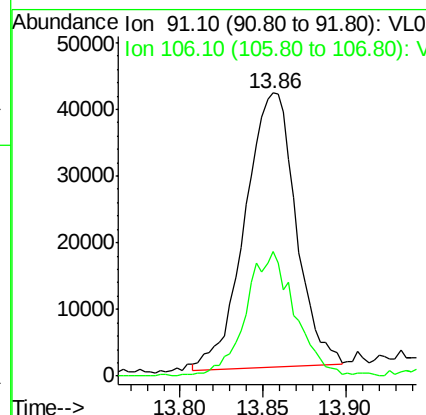
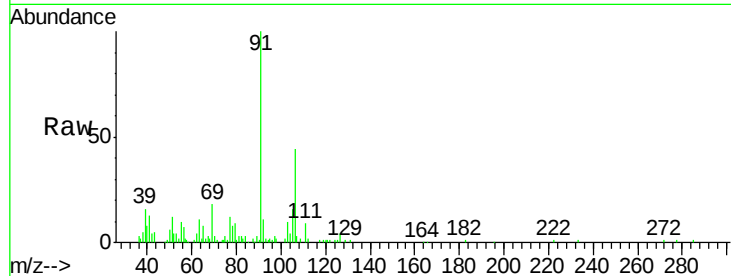
#60
o-Xylene
Concen: 0.298 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampled :
SV2

Tgt Ion: 91 Resp: 88124
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.8

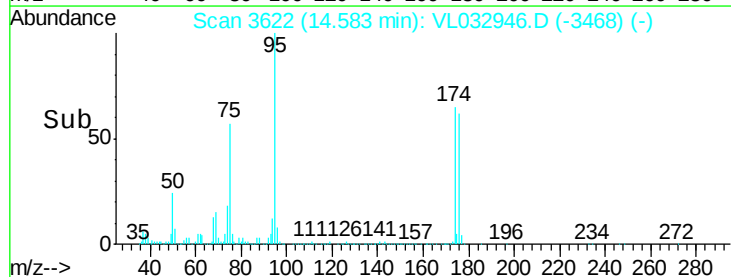
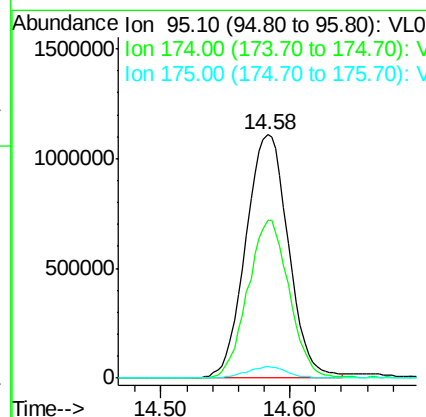
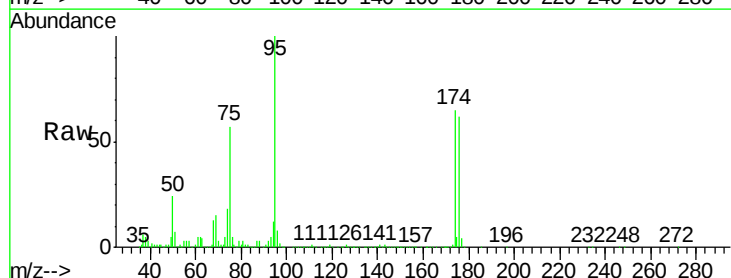
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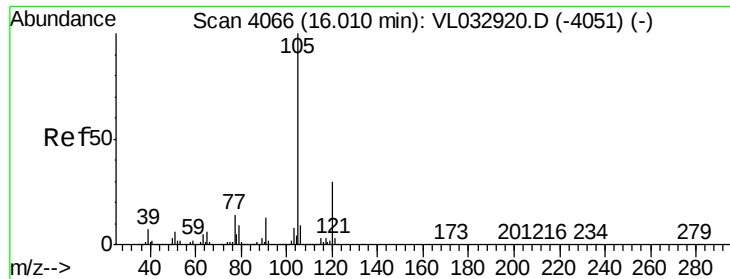
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#68
1-Bromo-4-Fluorobenzene
Concen: 11.420 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 95 Resp: 2552605
Ion Ratio Lower Upper
95 100
174 63.7 51.4 77.0
175 4.5 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.152 ppbv m

RT: 16.01 min Scan# 4065

Delta R.T. -0.00 min

Lab File: VL032946.D

Acq: 7 Dec 2018 22:27

Instrument :

MSVOA_L

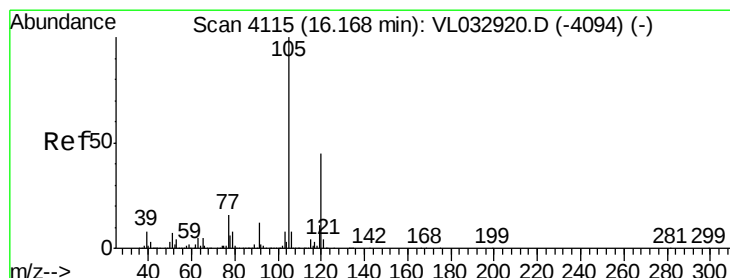
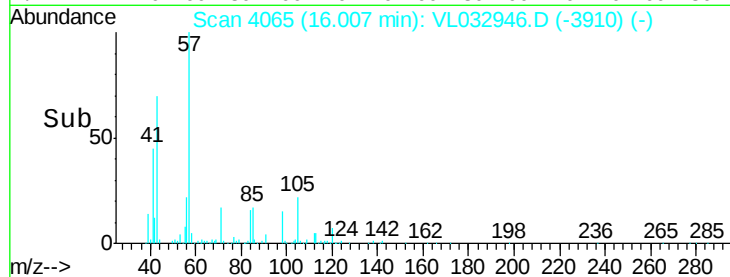
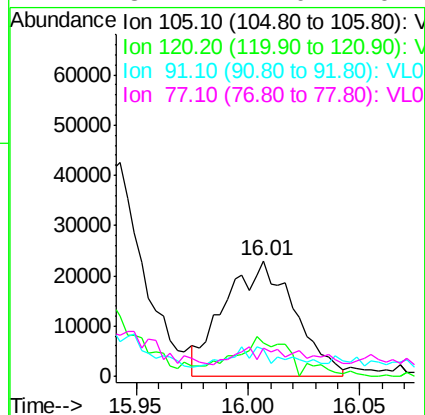
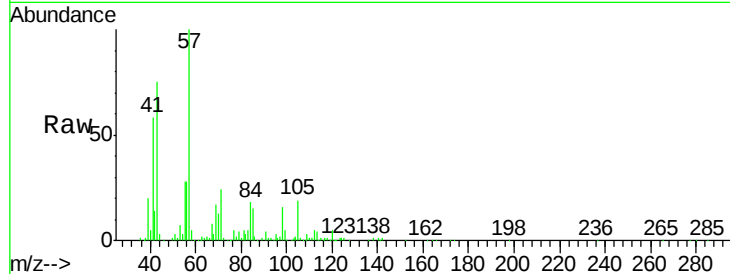
ClientSampled :

SV2

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	50005		
120	28.5	23.0	34.4	
91	0.0	10.4	15.6	
77	32.1	11.0	16.4	

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#73

1,3,5-Trimethylbenzene

Concen: 0.157 ppbv m

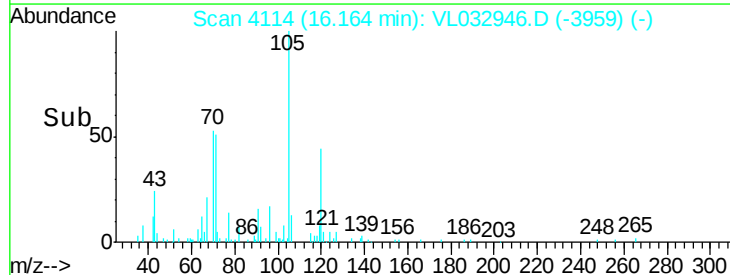
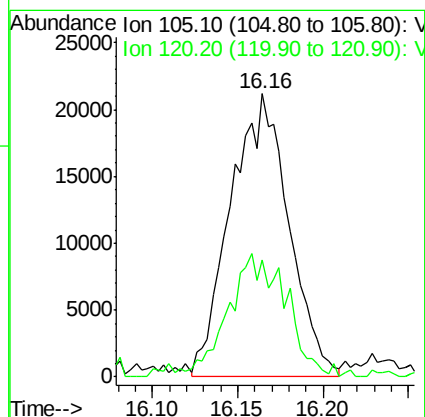
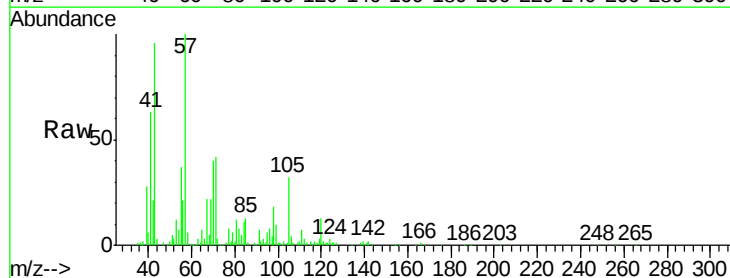
RT: 16.16 min Scan# 4114

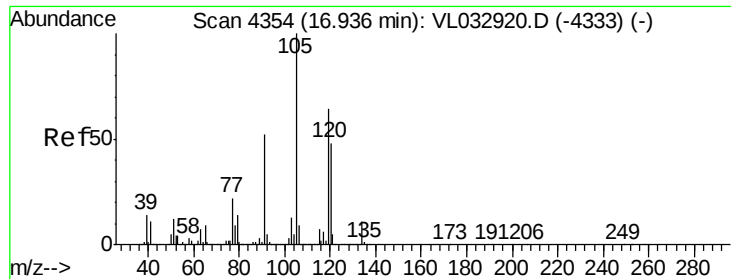
Delta R.T. -0.00 min

Lab File: VL032946.D

Acq: 7 Dec 2018 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	50531		
120	41.3	36.0	54.0	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.516 ppbv m
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032946.D
 Acq: 7 Dec 2018 22:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	187550		
120	120	38.6	38.6	58.0#	
91	91	14.2	41.7	62.5#	
77	77	18.4	17.4	26.2	

Manual Integrations
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 12/11/2018 10:09:35 AM

