

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032681.D
 Acq On : 19 Oct 2018 12:58
 Operator : SY/AP
 Sample : J5581-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 D-2

Manual Integrations
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 10/24/2018 12:06:46 PM

Quant Time: Oct 23 10:24:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1430793	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3285064	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3263776	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2441422	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	40494	0.278	ppbv	96
4) Chloromethane	3.18	50	33926	0.543	ppbv	93
9) Propene	3.06	41	40415m	0.878	ppbv	
11) Trichlorofluoromethane	4.02	101	40481	0.213	ppbv	90
13) Ethanol	3.68	45	5473017	415.846	ppbv	97
15) Acetone	3.91	43	1167371	8.836	ppbv	100
19) Isopropyl Alcohol	4.05	45	2050310	21.790	ppbv #	97
20) Methylene Chloride	4.42	84	154589	2.305	ppbv	96
26) Hexane	5.79	57	460604	3.201	ppbv #	52
34) 2-Butanone	5.35	43	80863	0.459	ppbv	97
35) Carbon Tetrachloride	7.15	117	17455m	0.075	ppbv	
36) Benzene	7.02	78	41031	0.154	ppbv #	92
52) Tetrachloroethene	11.39	164	3993m	0.043	ppbv	
53) Toluene	9.96	91	2381268	7.787	ppbv	98
59) m/p-Xylene	13.14	91	40551m	0.120	ppbv	
74) 1,2,4-Trimethylbenzene	16.95	105	59438m	0.165	ppbv	

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

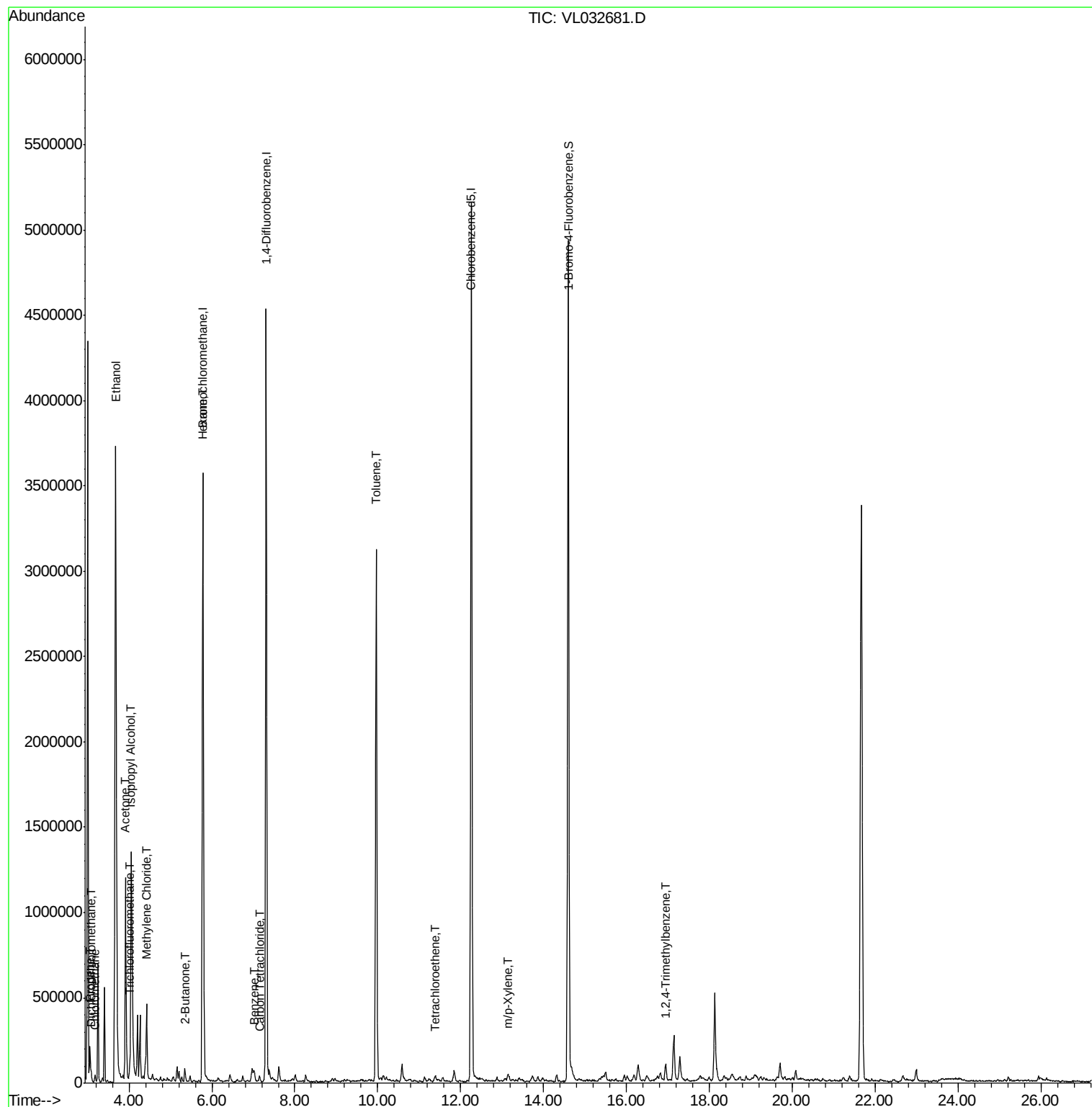
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101818\
Data File : VL032681.D
Acq On : 19 Oct 2018 12:58
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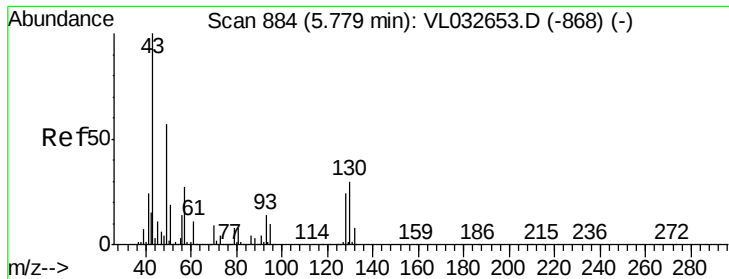
Instrument :
MSVOA_L
ClientSampleId :
D-2

Manual Integrations
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10/24/2018 12:06:46 PM

Quant Time: Oct 23 10:24:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032681.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

D-2

Tot Ion: 49 Resp: 1430793

Ion Ratio Lower Upper

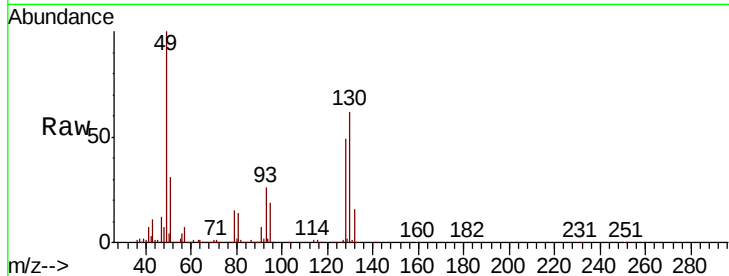
49 100

128 49.1 22.3 66.8

130 62.1 28.4 85.3

Manual Integrations
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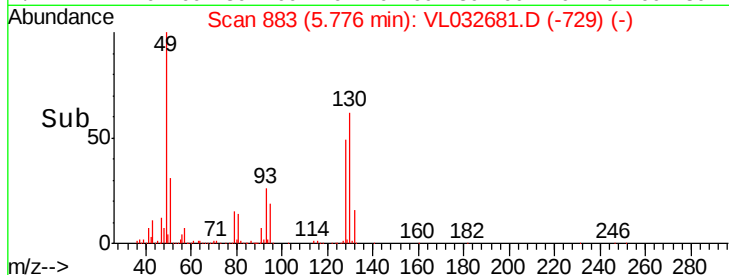


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

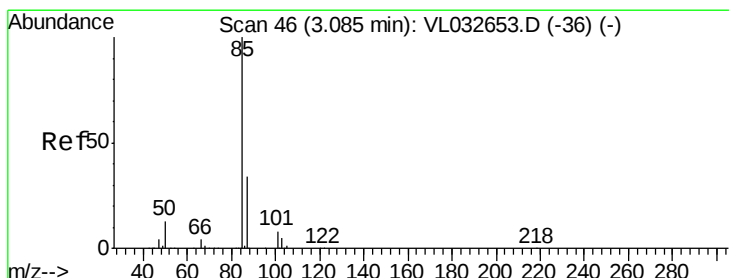
Ion 130.00 (129.70 to 130.70): V

Time-->



5.78

Time-->



#2

Dichlorodifluoromethane

Concen: 0.278 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032681.D

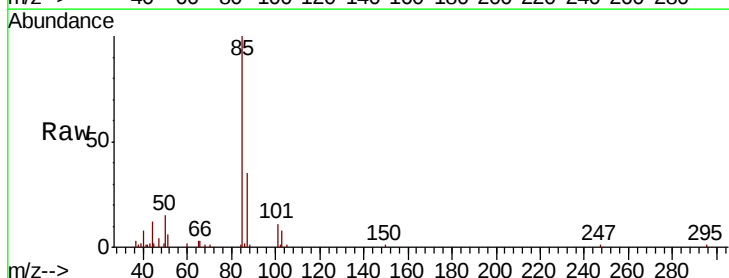
Acq: 19 Oct 2018 12:58

Tgt Ion: 85 Resp: 40494

Ion Ratio Lower Upper

85 100

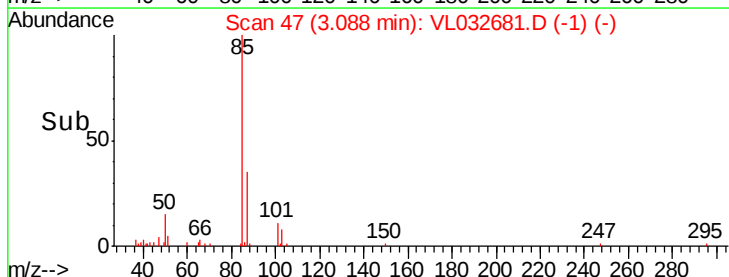
87 35.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

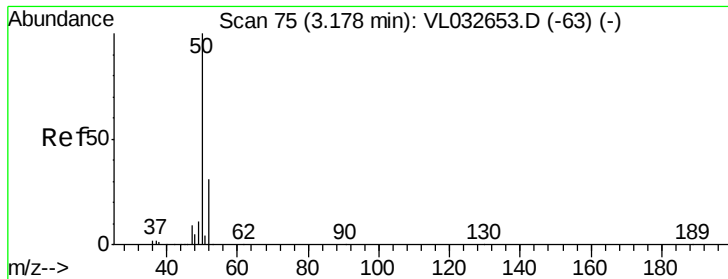
Ion 87.00 (86.70 to 87.70): VL0

Time-->



3.09

Time-->



#4

Chloromethane

Concen: 0.543 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032681.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

D-2

Tot Ion: 50 Resp: 33926

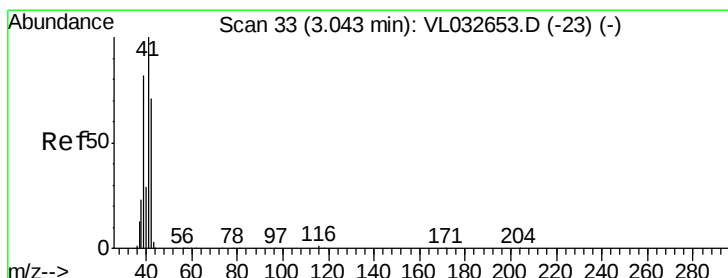
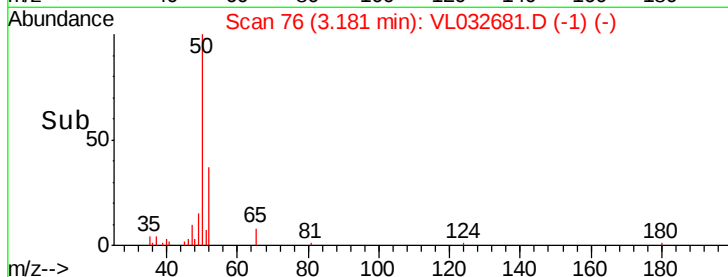
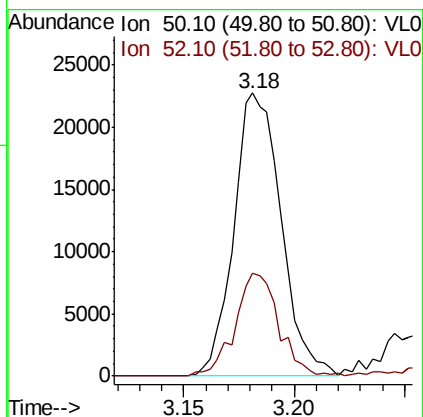
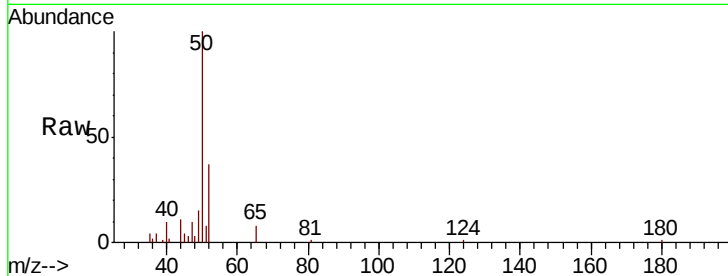
Ion Ratio Lower Upper

50 100

52 36.6 25.9 38.9

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#9

Propene

Concen: 0.878 ppbv m

RT: 3.06 min Scan# 38

Delta R.T. 0.02 min

Lab File: VL032681.D

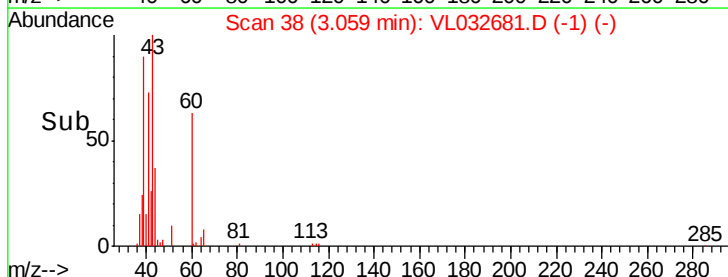
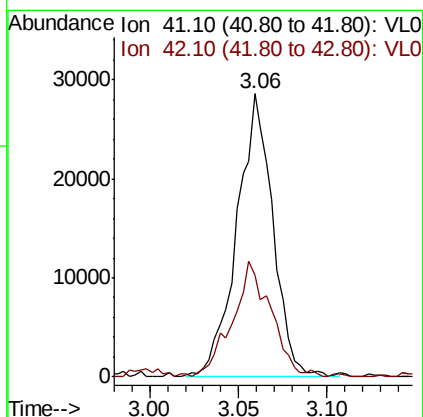
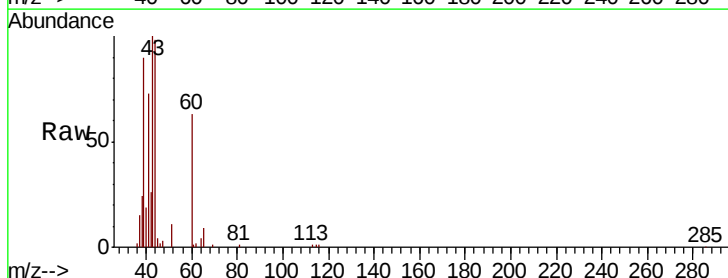
Acq: 19 Oct 2018 12:58

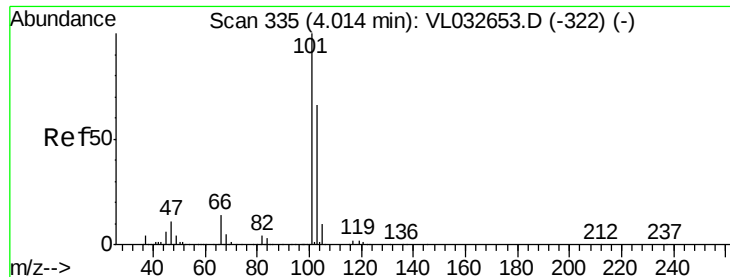
Tgt Ion: 41 Resp: 40415

Ion Ratio Lower Upper

41 100

42 293.0 55.4 83.0#





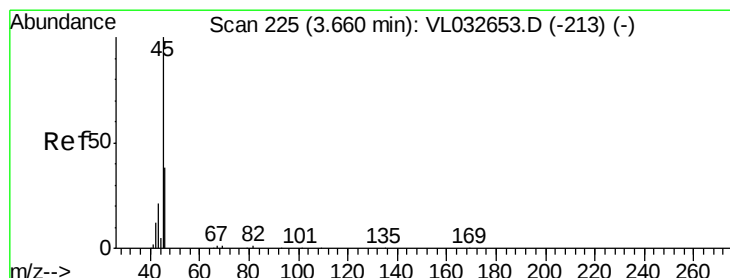
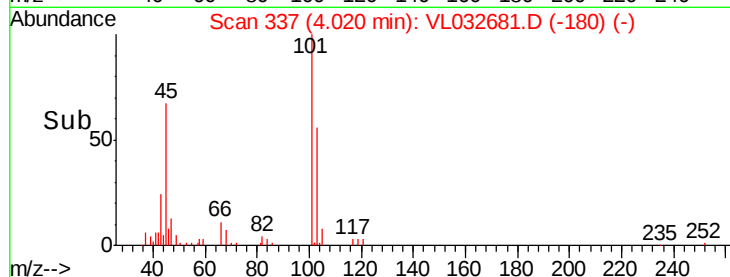
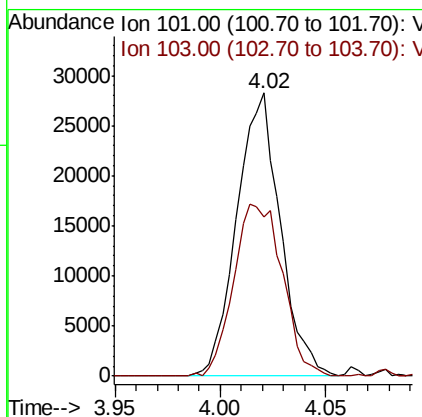
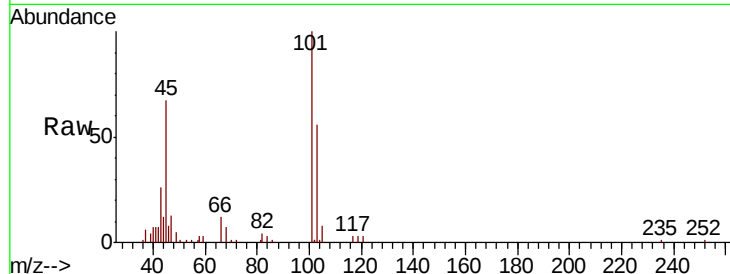
#11
 Trichlorofluoromethane
 Concen: 0.213 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. 0.01 min
 Lab File: VL032681.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 D-2

Tot Ion	Ion	Ratio	Lower	Upper
40481	101	100		
	103	56.1	51.4	77.2

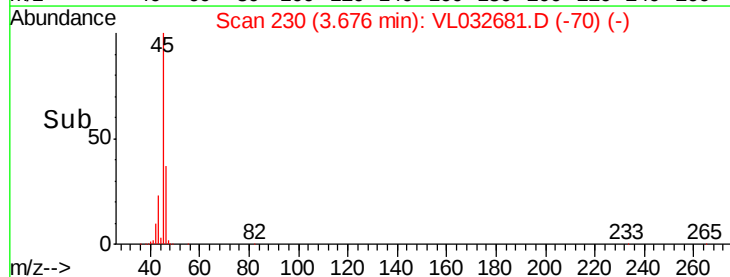
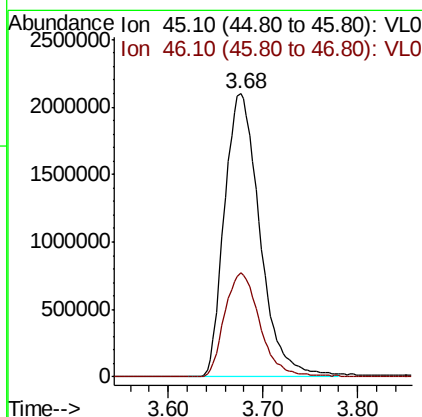
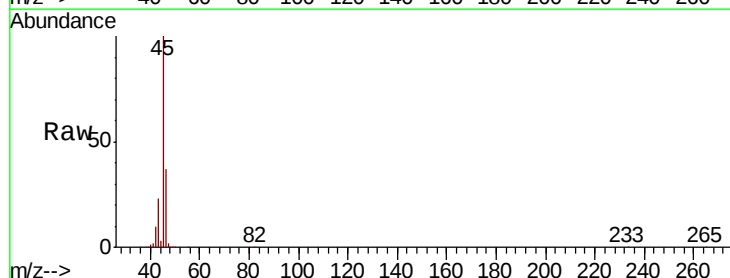
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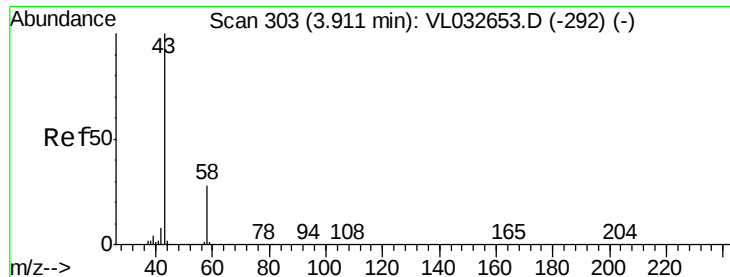
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#13
 Ethanol
 Concen: 415.846 ppbv
 RT: 3.68 min Scan# 230
 Delta R.T. 0.02 min
 Lab File: VL032681.D
 Acq: 19 Oct 2018 12:58

Tgt Ion	Ion	Ratio	Lower	Upper
5473017	45	100		
	46	36.7	15.4	61.8





#15

Acetone

Concen: 8.836 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.00 min

Lab File: VL032681.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

D-2

Tot Ion: 43 Resp: 1167371

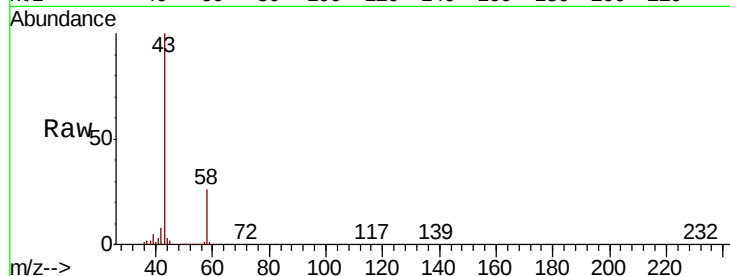
Ion Ratio Lower Upper

43 100

58 27.7 22.1 33.1

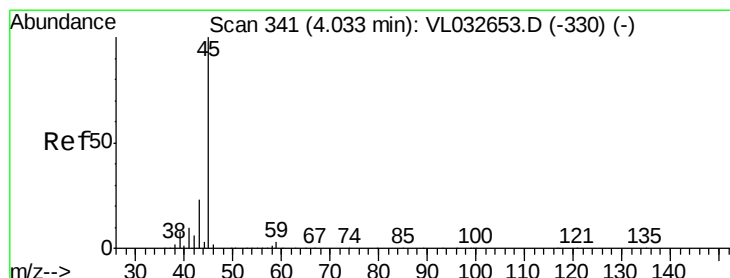
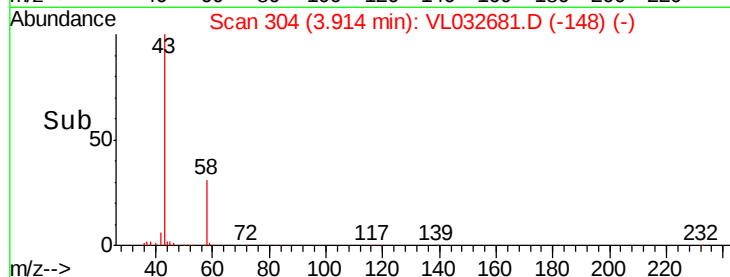
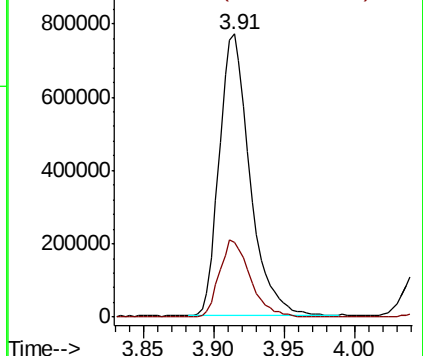
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 21.790 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.02 min

Lab File: VL032681.D

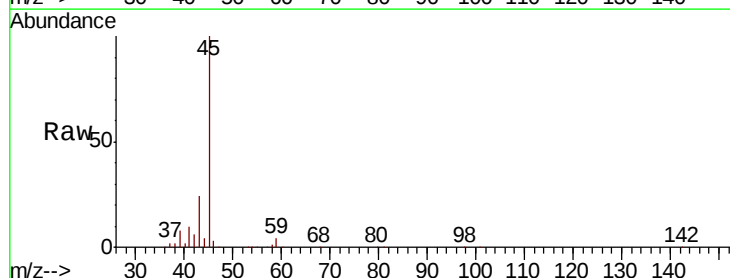
Acq: 19 Oct 2018 12:58

Tgt Ion: 45 Resp: 2050310

Ion Ratio Lower Upper

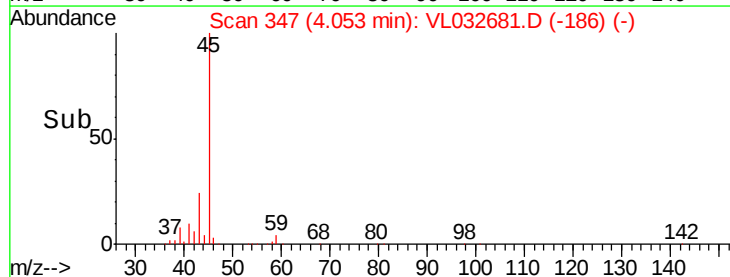
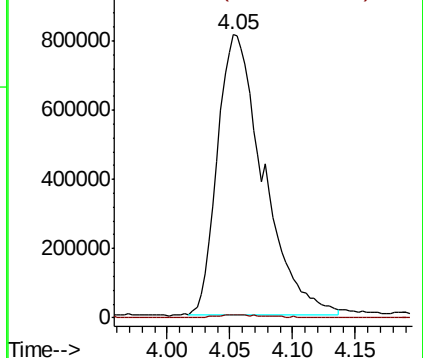
45 100

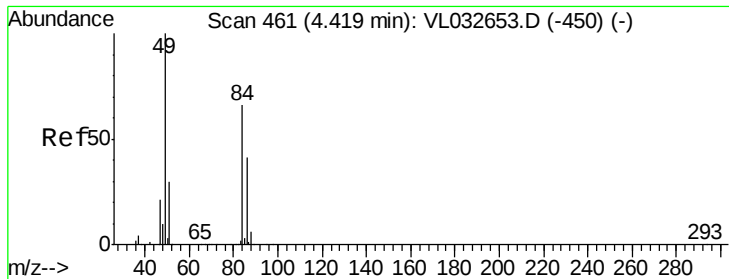
58 1.4 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





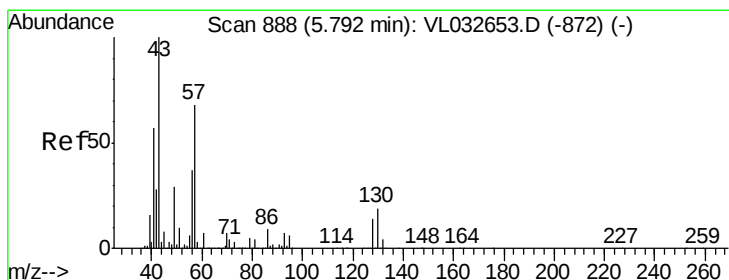
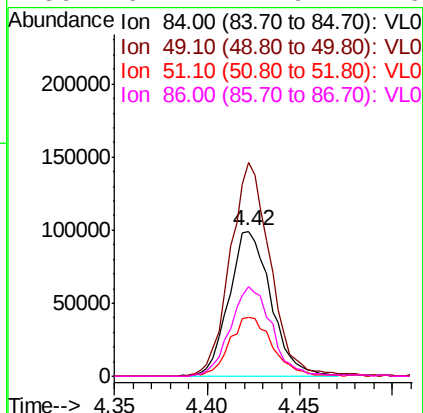
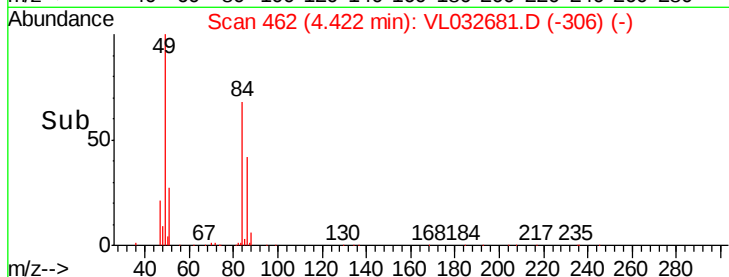
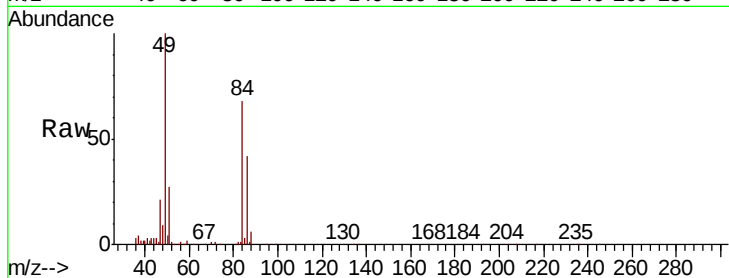
#20
Methvlene Chloride
Concen: 2.305 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032681.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_L
ClientSampled :
D-2

Tot Ion	Ratio	Lower	Upper
84	100		
49	147.2	113.5	170.3
51	40.3	34.8	52.2
86	61.7	47.9	71.9

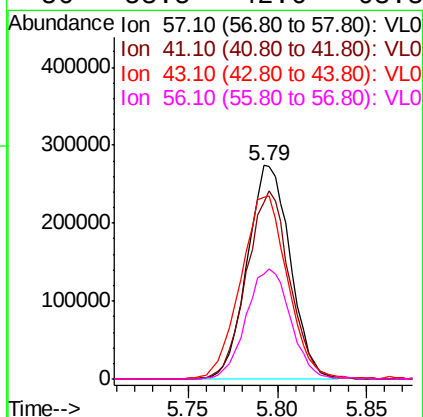
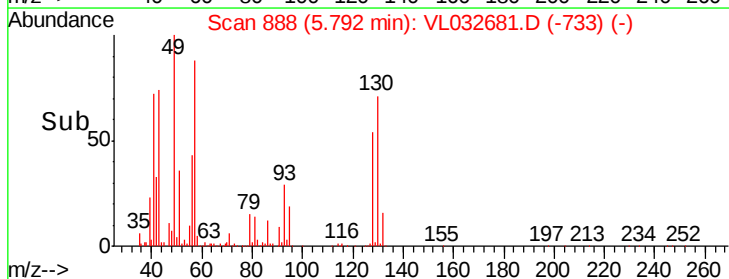
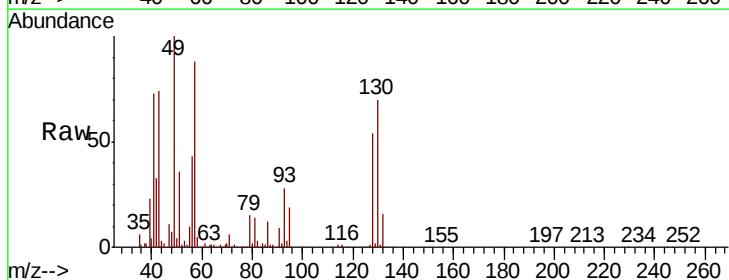
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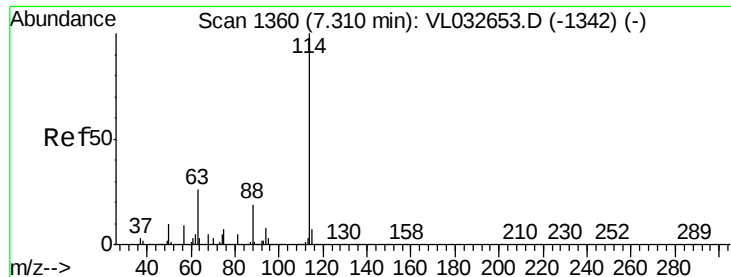
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#26
Hexane
Concen: 3.201 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032681.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	88.8	67.4	101.0
43	93.9	171.9	257.9#
56	53.5	42.6	63.8





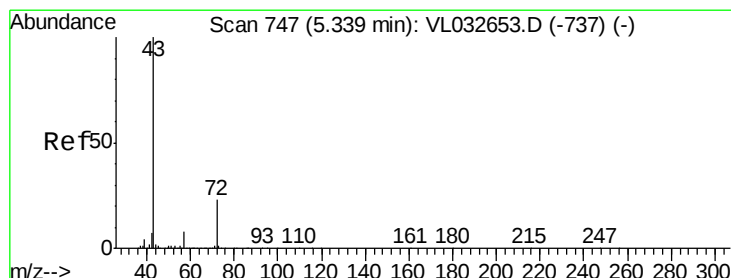
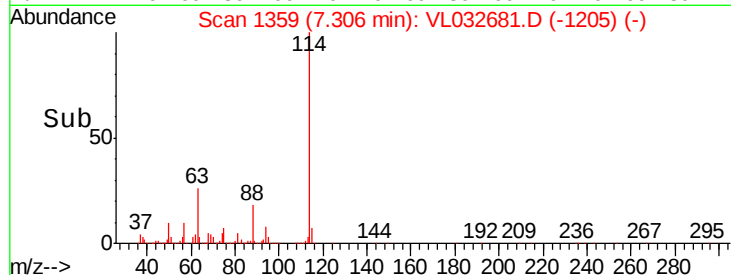
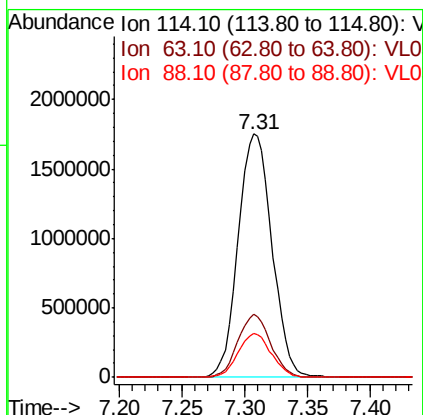
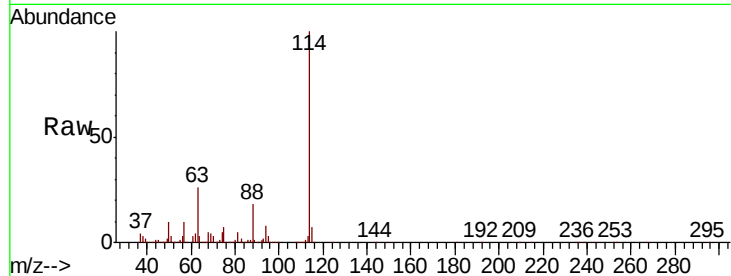
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032681.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 D-2

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.7	32.5
88	17.7	14.9	22.3

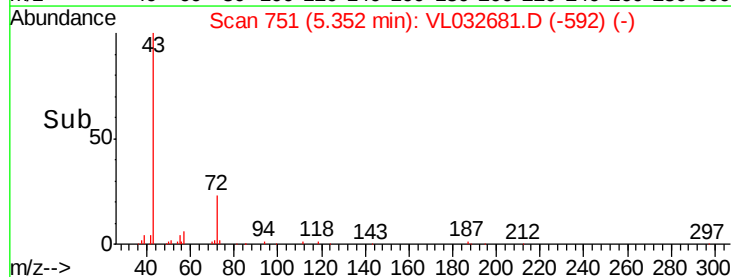
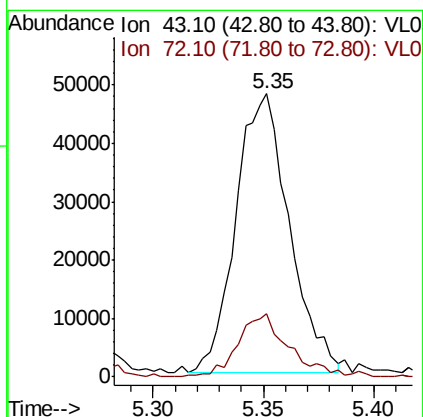
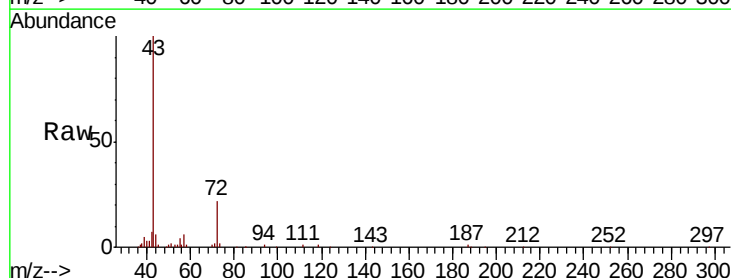
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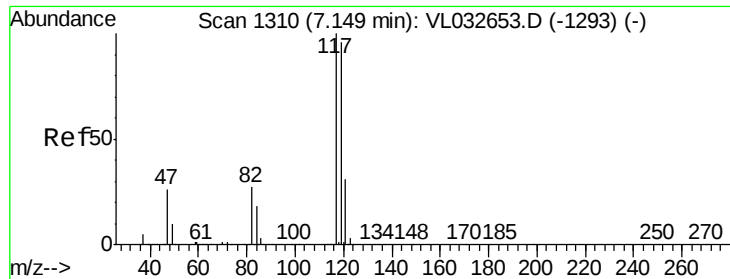
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#34
 2-Butanone
 Concen: 0.459 ppbv
 RT: 5.35 min Scan# 751
 Delta R.T. 0.01 min
 Lab File: VL032681.D
 Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.6	27.8





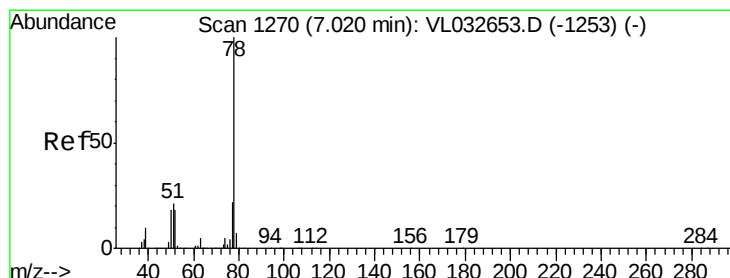
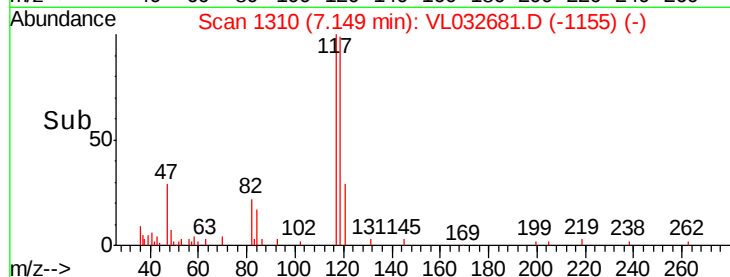
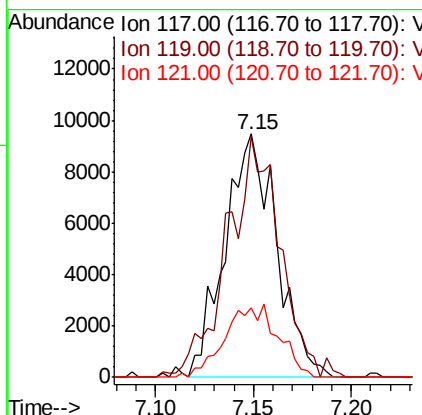
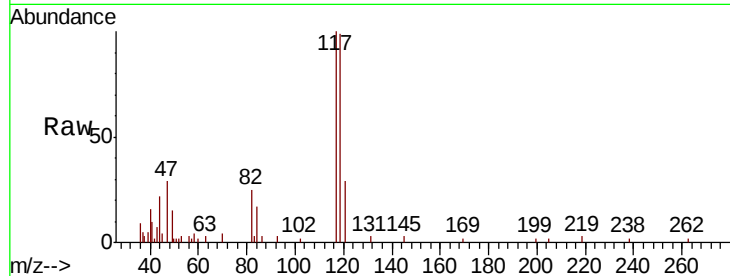
#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 7.15 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL032681.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
D-2

Tot Ion	Ratio	Lower	Upper
117	100		
119	99.0	75.7	113.5
121	28.7	24.7	37.1

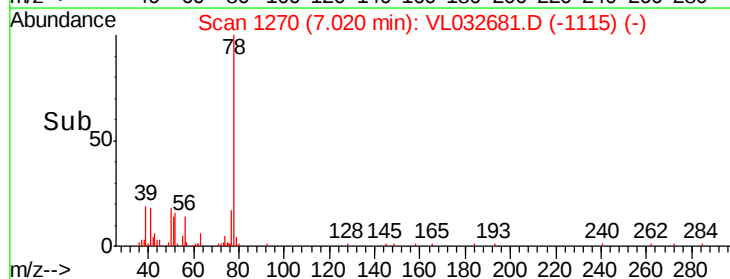
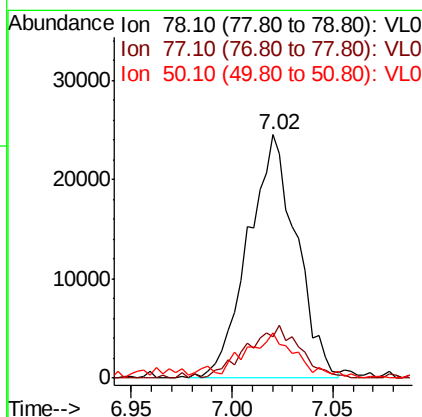
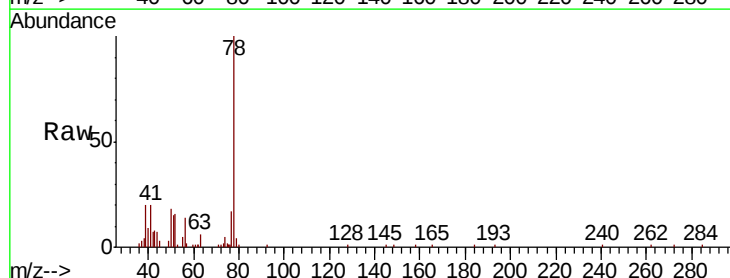
Manual Integrations
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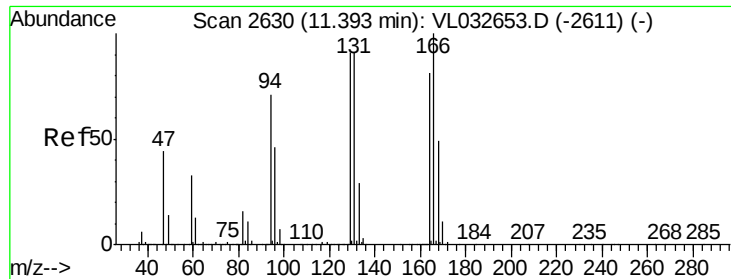
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#36
Benzene
Concen: 0.154 ppbv
RT: 7.02 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VL032681.D
Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.9	18.1	27.1#
50	16.9	15.1	22.7





#52

Tetrachloroethene

Concen: 0.043 ppbv m

RT: 11.39 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL032681.D

Acq: 19 Oct 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

D-2

Tot Ion:164 Resp: 3993

Ion Ratio Lower Upper

164 100

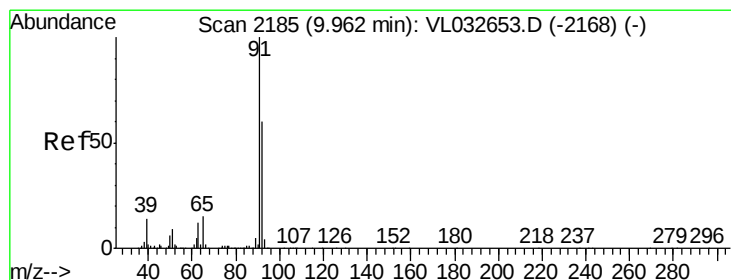
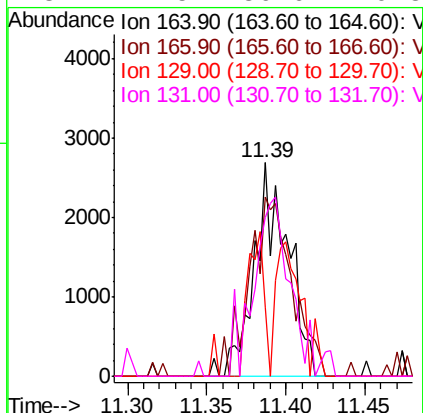
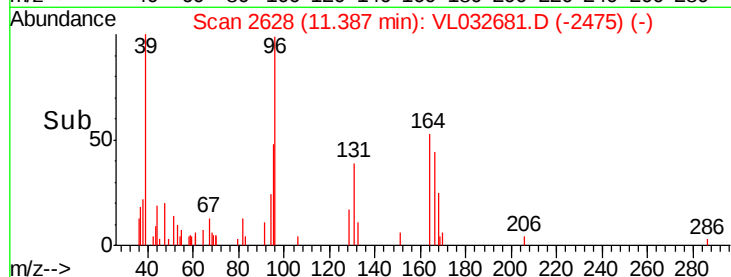
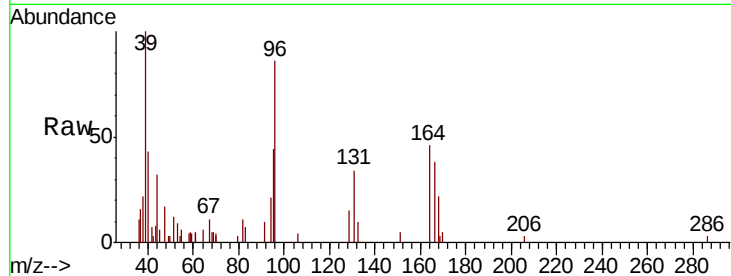
166 83.9 100.5 150.7#

129 32.5 90.0 135.0#

131 74.5 86.6 129.8#

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#53

Toluene

Concen: 7.787 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL032681.D

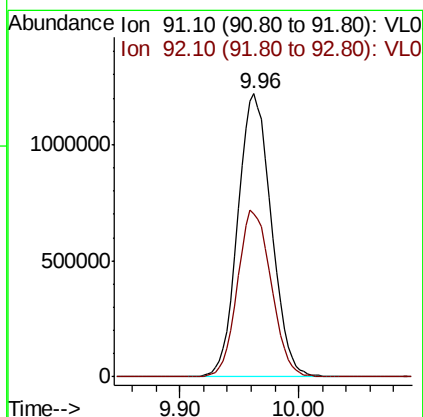
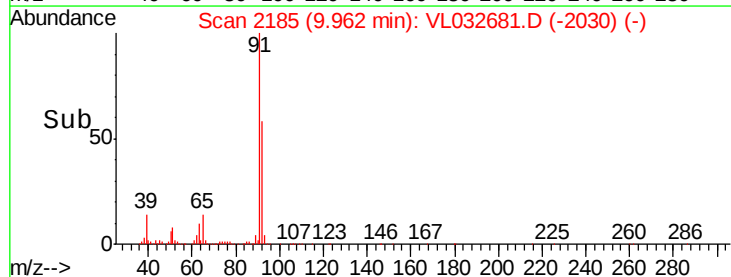
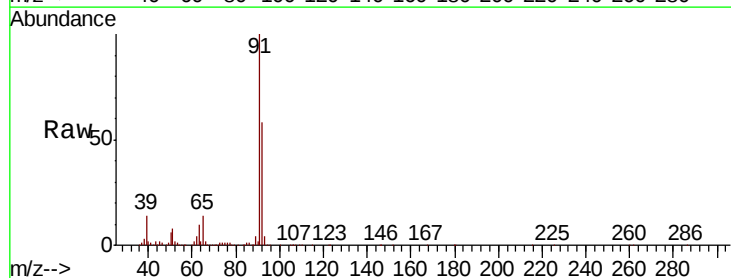
Acq: 19 Oct 2018 12:58

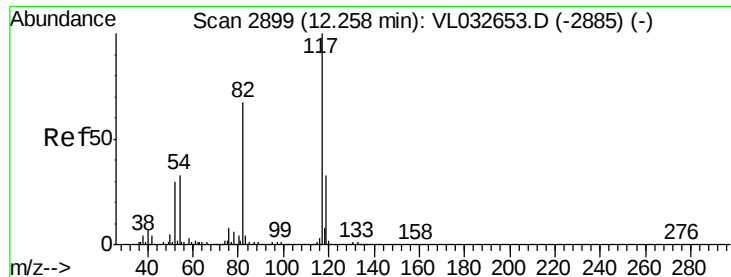
Tgt Ion: 91 Resp: 2381268

Ion Ratio Lower Upper

91 100

92 59.2 48.4 72.6





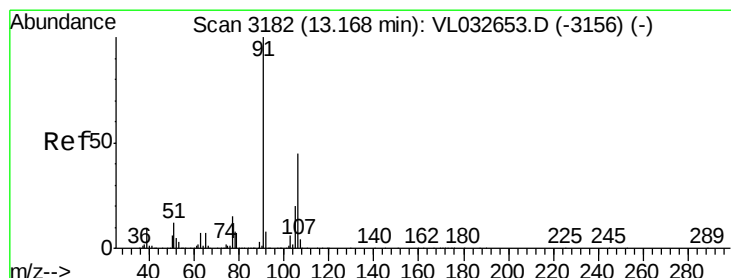
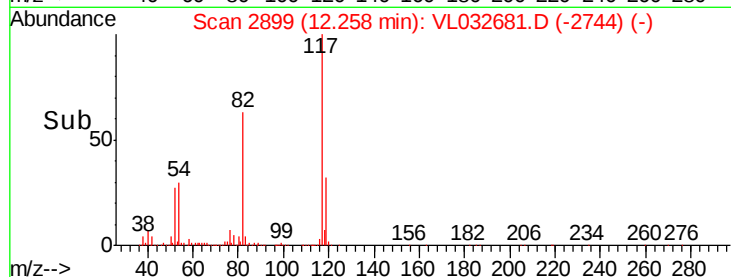
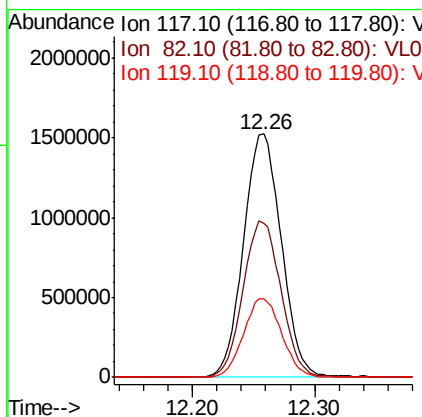
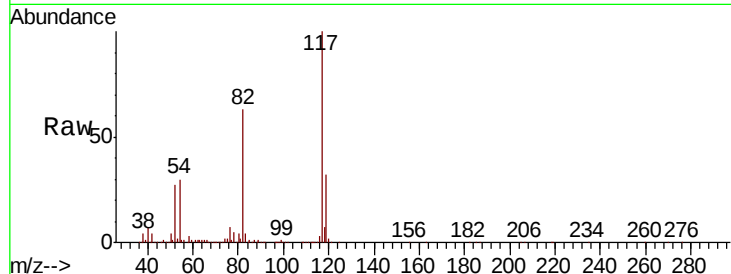
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL032681.D
Acq: 19 Oct 2018 12:58

Instrument :
MSVOA_L
ClientSampled :
D-2

Tot Ion:117 Resp: 3263776
Ion Ratio Lower Upper
117 100
82 64.6 52.7 79.1
119 32.8 26.7 40.1

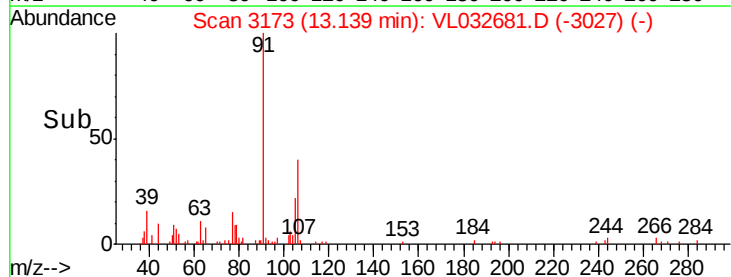
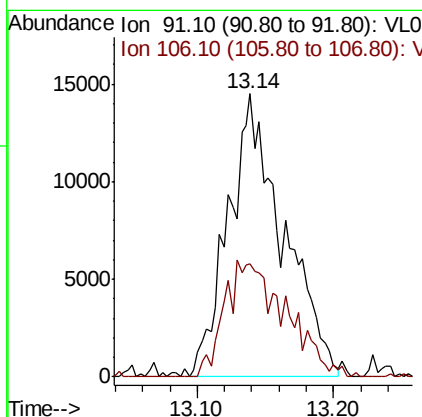
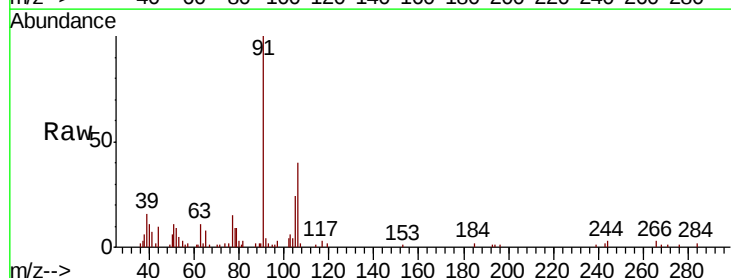
Manual Integrations
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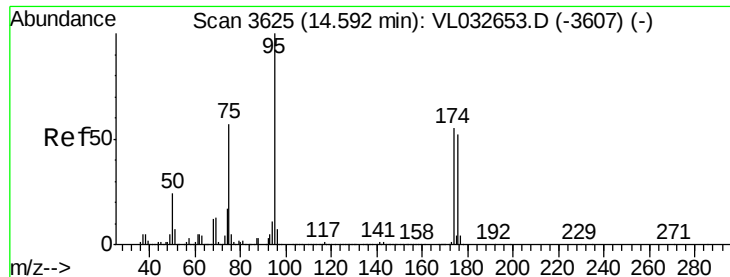
MMDadoda
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#59
m/p-Xylene
Concen: 0.120 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. -0.03 min
Lab File: VL032681.D
Acq: 19 Oct 2018 12:58

Tgt Ion: 91 Resp: 40551
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#





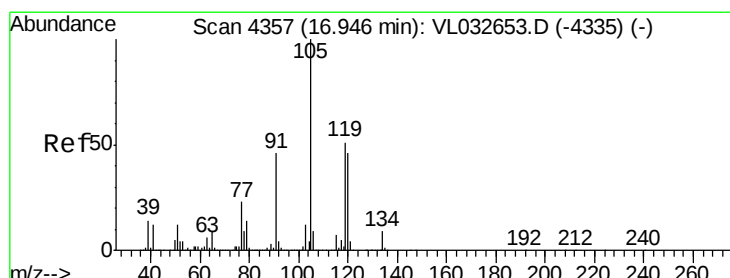
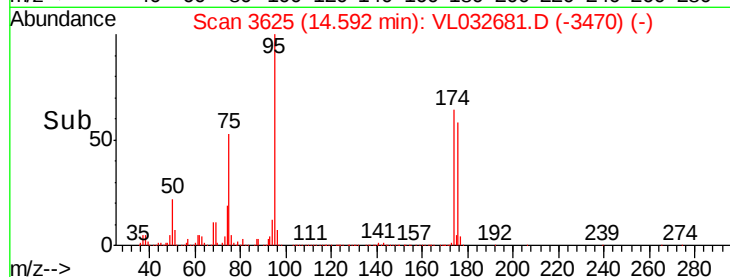
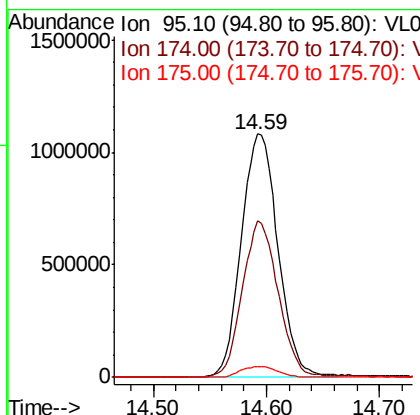
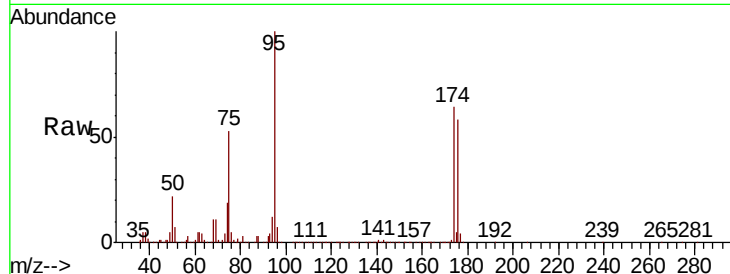
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.046 ppbv
 RT: 14.59 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL032681.D
 Acq: 19 Oct 2018 12:58

Instrument :
 MSVOA_L
 ClientSampled :
 D-2

Tot Ion	Ratio	Lower	Upper
95	100		
174	63.8	46.0	69.0
175	4.7	3.4	5.0

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:06:46 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.165 ppbv m
 RT: 16.95 min Scan# 4358
 Delta R.T. 0.00 min
 Lab File: VL032681.D
 Acq: 19 Oct 2018 12:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.8	53.8
91	16.2	33.2	49.8#
77	12.3	16.2	24.4#

