

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032640.D
 Acq On : 17 Oct 2018 14:28
 Operator : SY/AP
 Sample : J5500-02DL 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVIDL

Manual Integrations
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MMDadoda
 10/19/2018 4:36:36 PM

Quant Time: Oct 18 10:21:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Oct 18 10:21:17 2018
 QLast Update : Wed Oct 17 08:55:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1328978	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.32	114	2945315	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2897397	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2220573	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.05	41	421742	10.35	ppbv	86
10) Heptane	8.27	43	138707	0.91	ppbv	99
13) Ethanol	3.67	45	200400	15.89	ppbv	98
15) Acetone	3.93	43	914200	7.73	ppbv	96
17) tert-Butyl alcohol	4.39	59	33374m	3.09	ppbv	
18) 1,1-Dichloroethene	4.37	96	181790	3.23	ppbv	96
19) Isopropyl Alcohol	4.05	45	103618	1.24	ppbv #	1
20) Methylene Chloride	4.43	84	49439	0.93	ppbv	92
26) Hexane	5.80	57	216343	1.72	ppbv #	42
27) Carbon Disulfide	4.64	76	33135	0.22	ppbv #	70
29) Chloroform	5.87	83	23055547	104.36	ppbv #	75
30) Cyclohexane	7.27	84	43209m	0.43	ppbv	
31) cis-1,2-Dichloroethene	5.67	61	18733m	0.15	ppbv	
34) 2-Butanone	5.36	43	377680	2.31	ppbv	99
35) Carbon Tetrachloride	7.16	117	11525815	50.49	ppbv	96
36) Benzene	7.04	78	827709	3.47	ppbv	97
38) Trichloroethene	7.98	130	212864	2.37	ppbv	95
50) 4-Methyl-2-Pentanone	8.91	43	60153m	0.25	ppbv	
52) Tetrachloroethene	11.39	164	15299m	0.19	ppbv	
53) Toluene	9.97	91	747950	2.75	ppbv	100
58) Ethyl Benzene	12.88	91	76651	0.24	ppbv	97
59) m/p-Xylene	13.14	91	140533m	0.48	ppbv	
60) o-Xylene	13.86	91	52109m	0.18	ppbv	

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

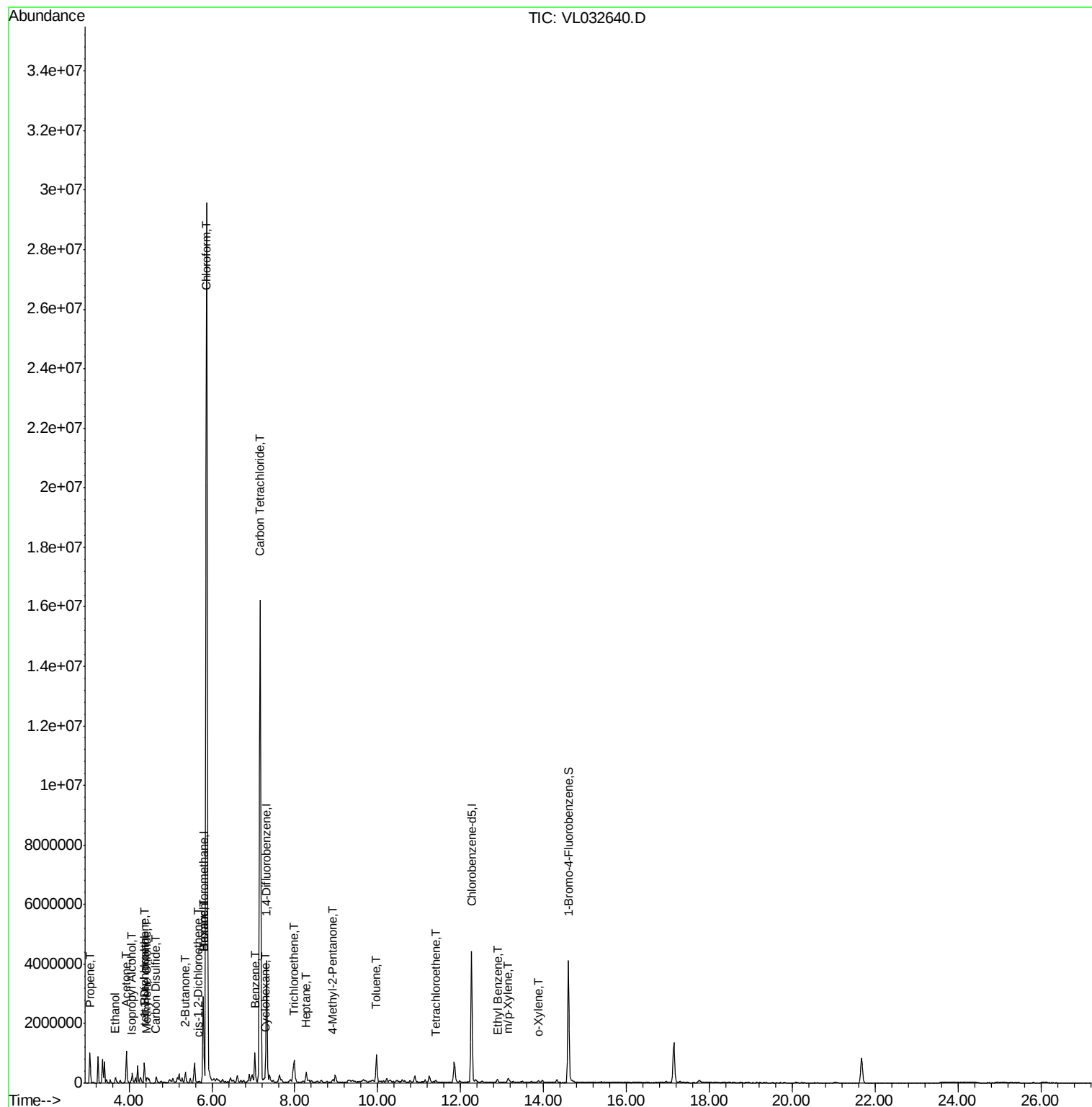
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
Data File : VL032640.D
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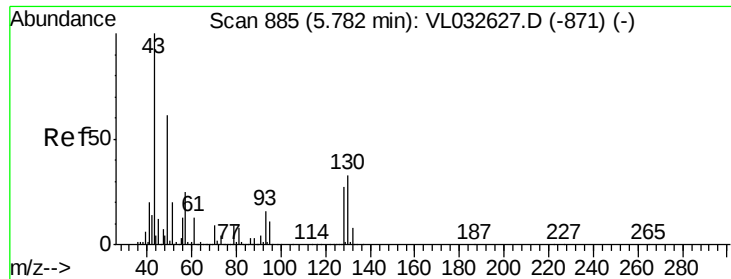
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL

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Quant Time: Oct 18 10:21:17 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct
QLast Update : Wed Oct 17 08:55:11 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL

Tgt Ion: 49 Resp: 1328978

Ion Ratio Lower Upper

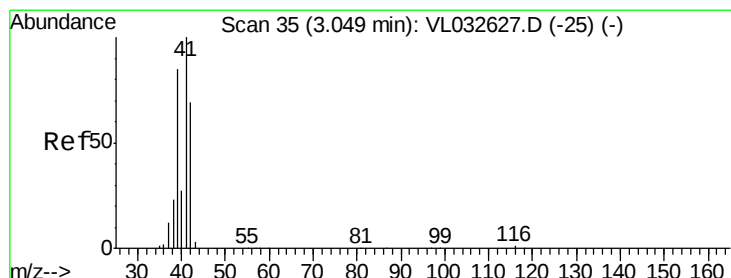
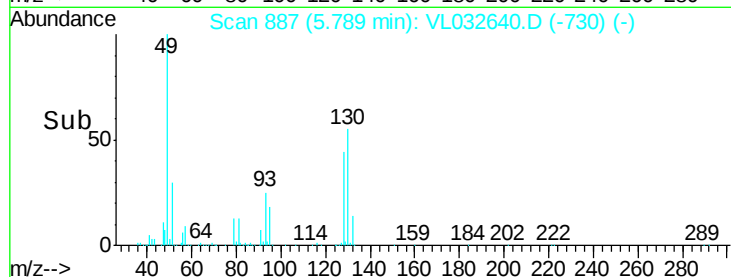
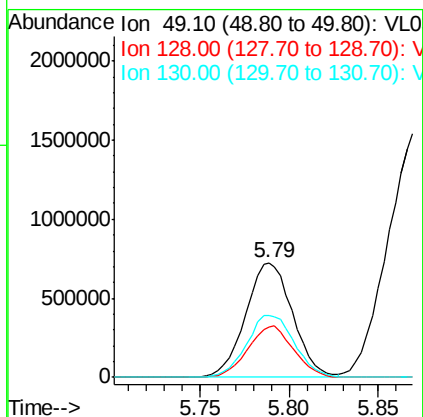
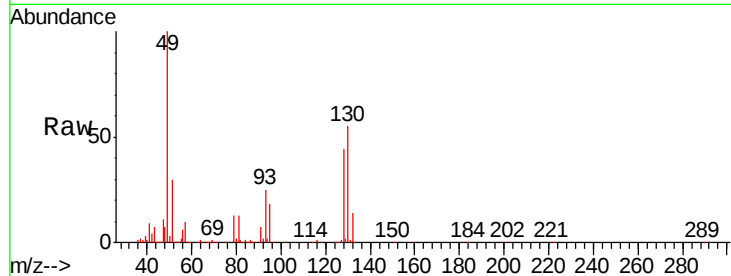
49 100

128 43.9 22.3 66.8

130 55.9 28.4 85.3

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#9

Propene

Concen: 10.35 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL032640.D

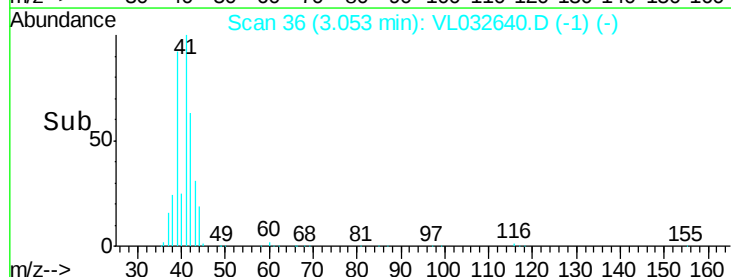
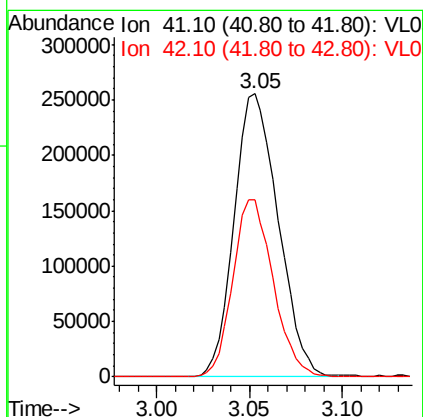
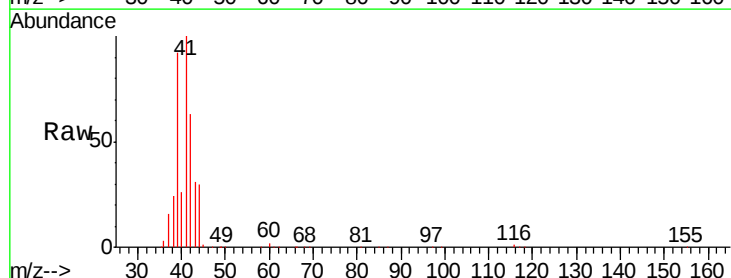
Acq: 17 Oct 2018 14:28

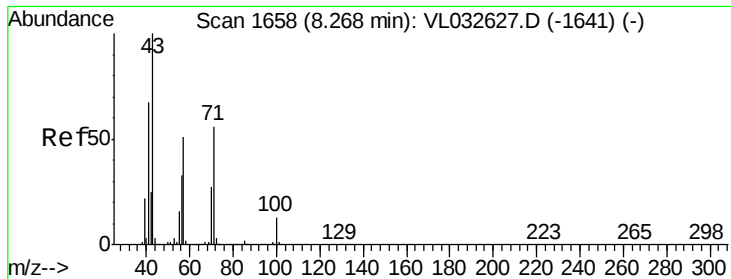
Tgt Ion: 41 Resp: 421742

Ion Ratio Lower Upper

41 100

42 57.5 55.4 83.0





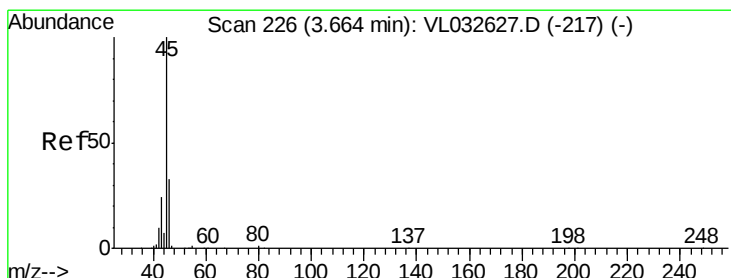
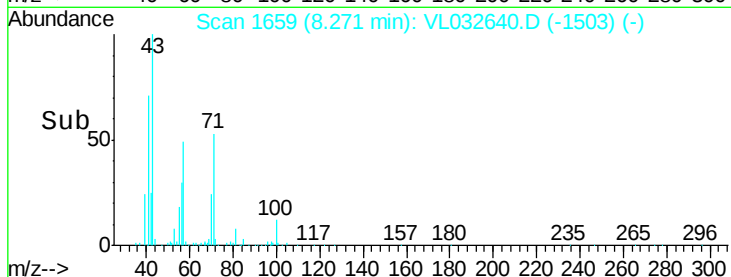
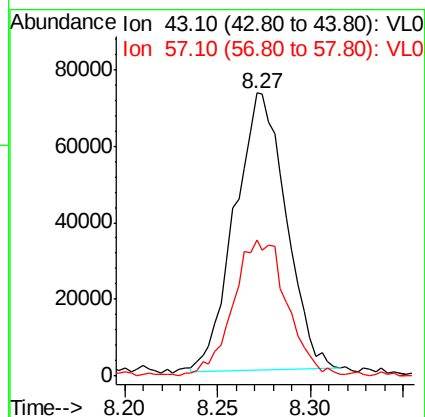
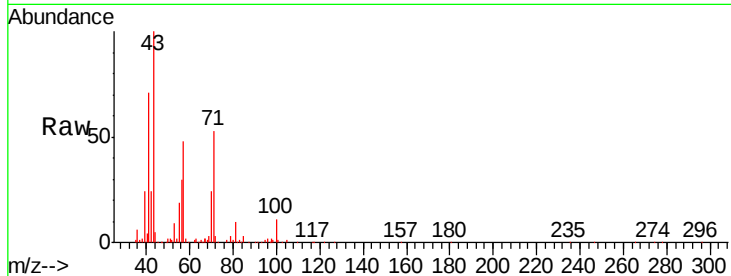
#10
Heptane
Concen: 0.91 ppbv
RT: 8.27 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL

Tgt Ion: 43 Resp: 138707
Ion Ratio Lower Upper
43 100
57 51.0 41.5 62.3

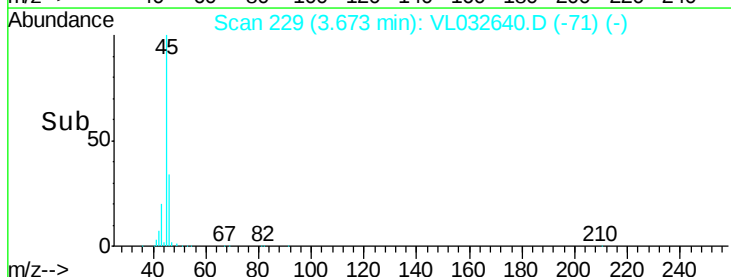
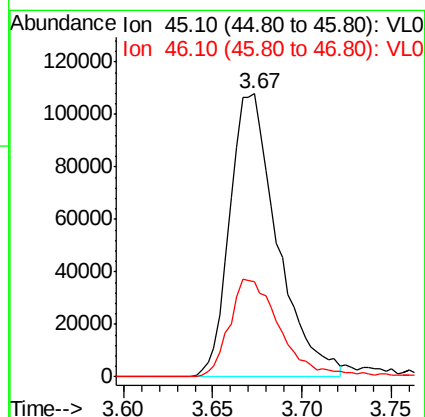
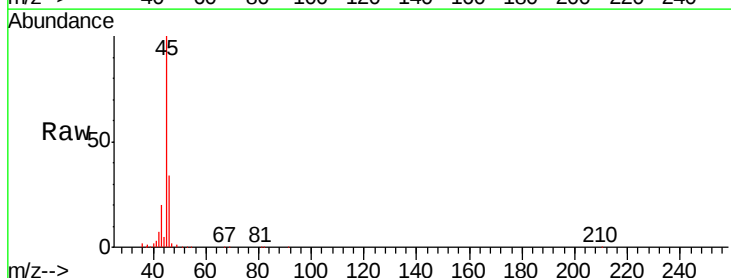
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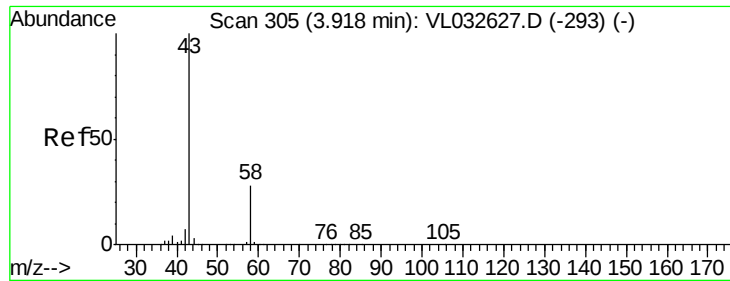
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#13
Ethanol
Concen: 15.89 ppbv
RT: 3.67 min Scan# 229
Delta R.T. 0.01 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Tgt Ion: 45 Resp: 200400
Ion Ratio Lower Upper
45 100
46 37.2 15.4 61.8





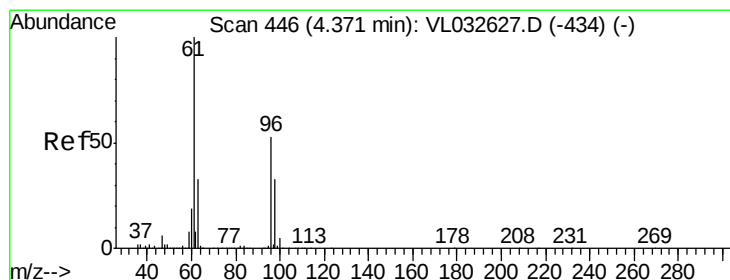
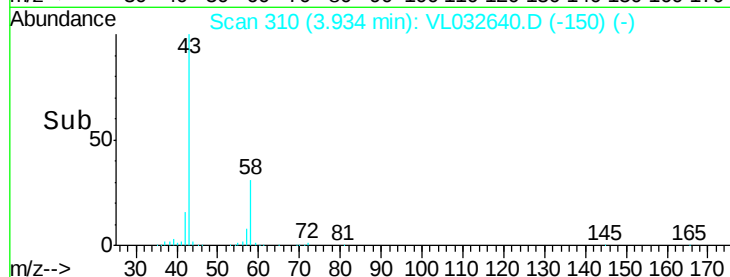
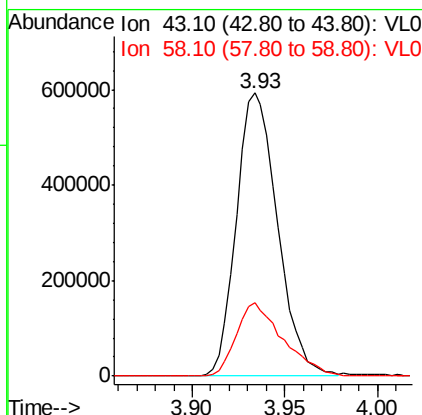
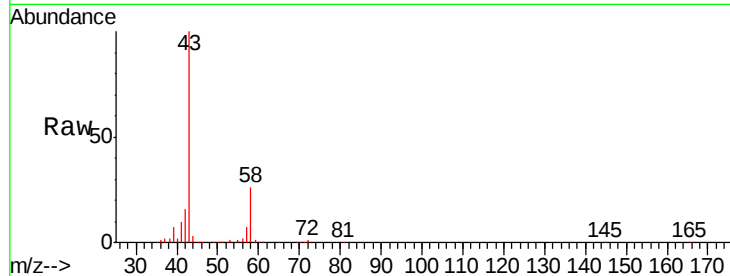
#15
Acetone
Concen: 7.73 ppbv
RT: 3.93 min Scan# 310
Delta R.T. 0.02 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL

Tgt Ion: 43 Resp: 914200
Ion Ratio Lower Upper
43 100
58 29.7 22.1 33.1

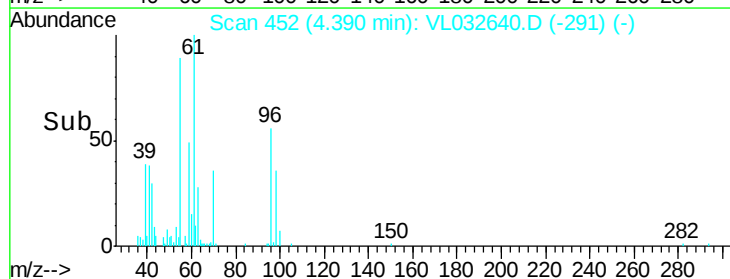
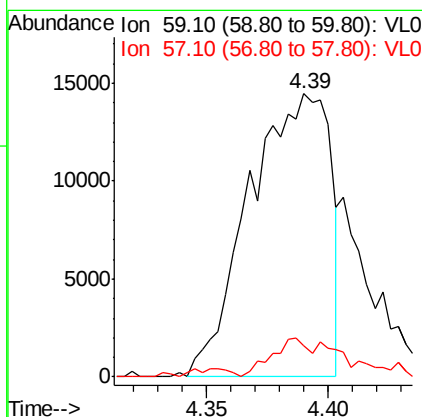
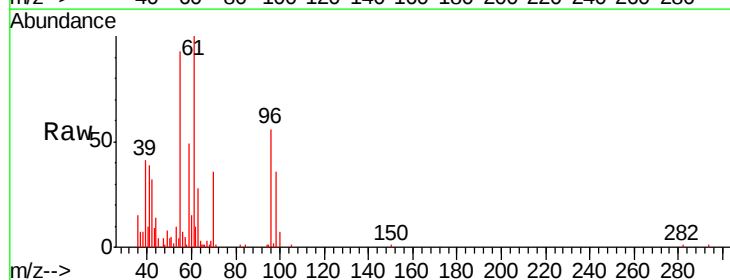
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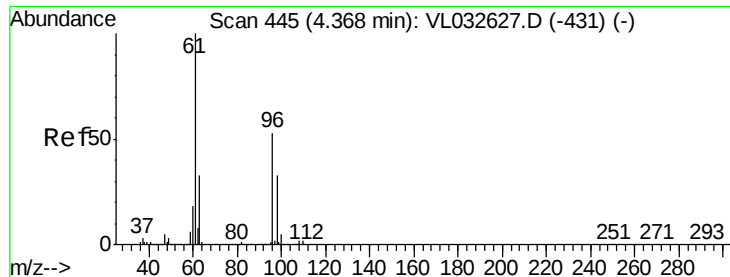
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#17
tert-Butyl alcohol
Concen: 3.09 ppbv m
RT: 4.39 min Scan# 452
Delta R.T. 0.02 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Tgt Ion: 59 Resp: 33374
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0





#18

1,1-Dichloroethene

Concen: 3.23 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.00 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Instrument :

MSVOA_L

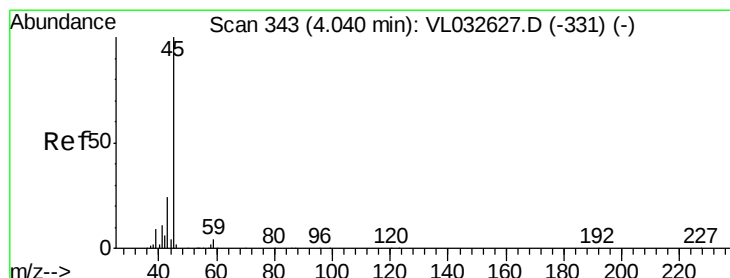
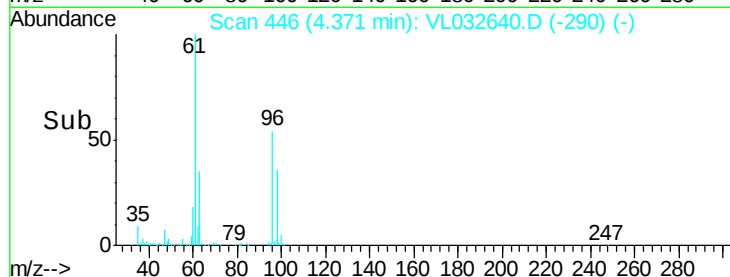
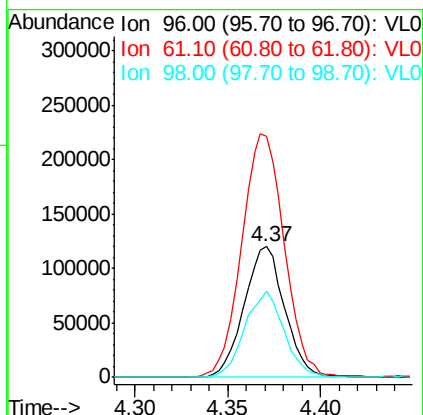
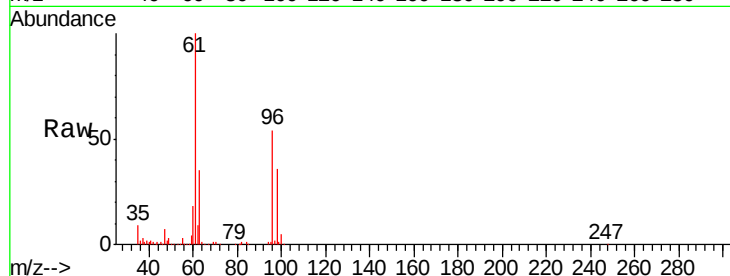
ClientSampleId :

SS04-MIVIDL

Tgt Ion:	96	Resp:	181790
Ion	Ratio	Lower	Upper
96	100		
61	183.8	151.6	227.4
98	66.2	50.6	75.8

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#19

Isopropyl Alcohol

Concen: 1.24 ppbv

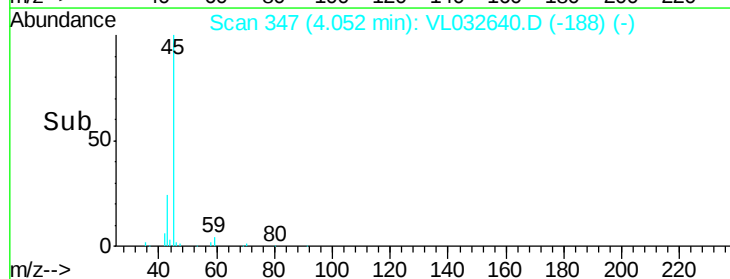
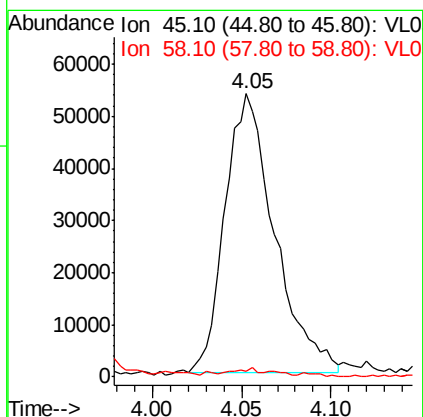
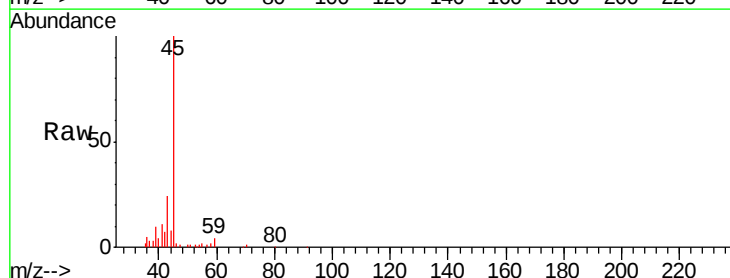
RT: 4.05 min Scan# 347

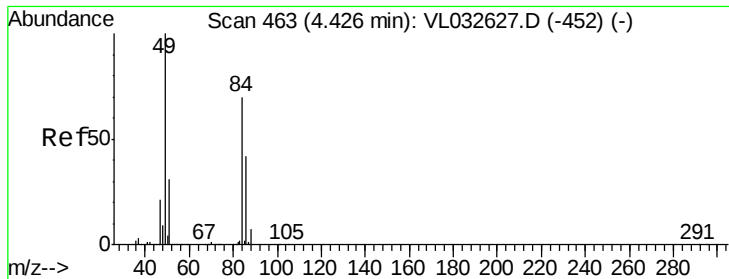
Delta R.T. 0.01 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Tgt Ion:	45	Resp:	103618
Ion	Ratio	Lower	Upper
45	100		
58	262.4	2.0	3.0#





#20

Methylene Chloride

Concen: 0.93 ppbv

RT: 4.43 min Scan# 463

Delta R.T. -0.00 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Instrument :

MSVOA_L

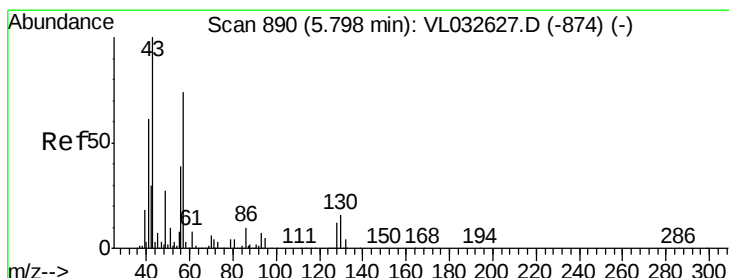
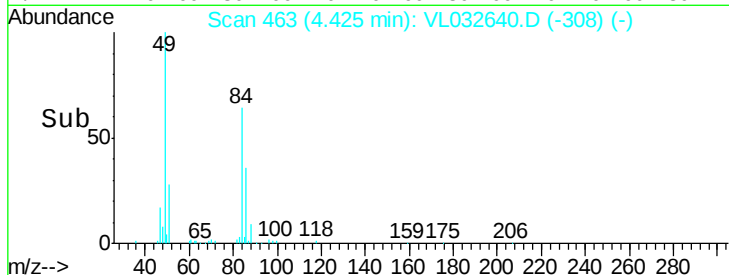
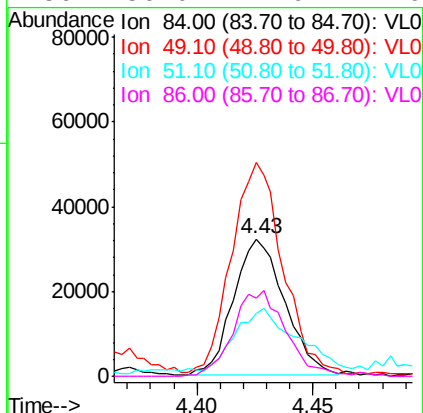
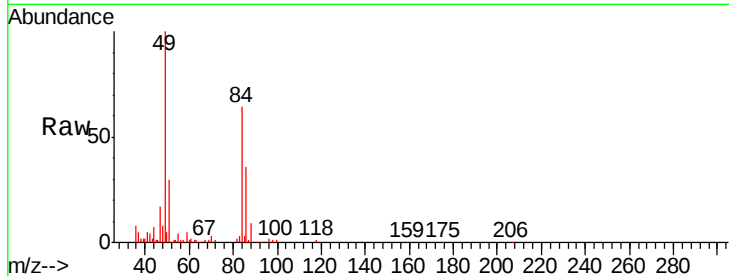
ClientSampleId :

SS04-MIVIDL

Tgt Ion:	84	Resp:	49439
Ion	Ratio	Lower	Upper
84	100		
49	154.3	113.5	170.3
51	41.1	34.8	52.2
86	56.0	47.9	71.9

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#26

Hexane

Concen: 1.72 ppbv

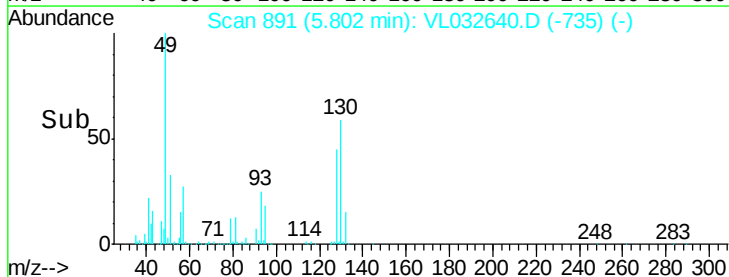
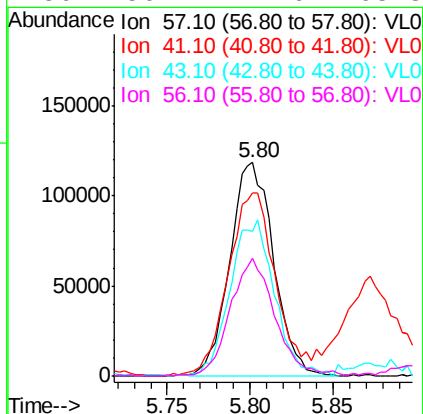
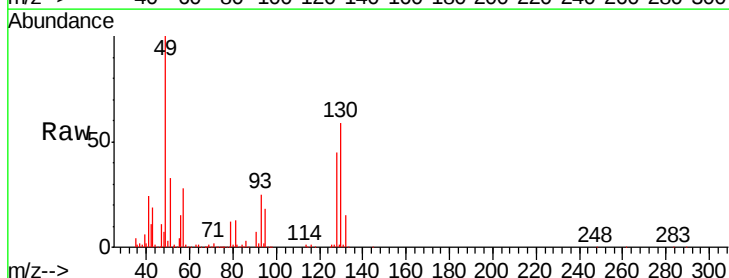
RT: 5.80 min Scan# 891

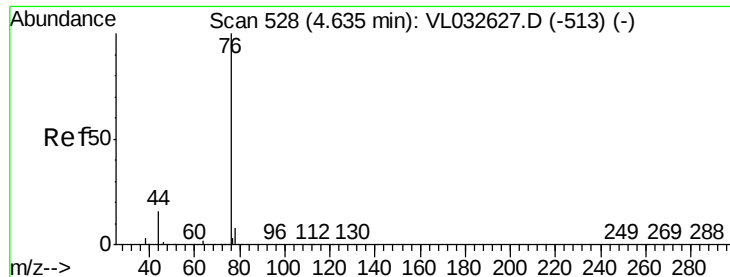
Delta R.T. 0.00 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Tgt Ion:	57	Resp:	216343
Ion	Ratio	Lower	Upper
57	100		
41	95.5	67.4	101.0
43	72.8	171.9	257.9#
56	56.4	42.6	63.8





#27

Carbon Disulfide

Concen: 0.22 ppbv

RT: 4.64 min Scan# 530

Delta R.T. 0.01 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Instrument :

MSVOA_L

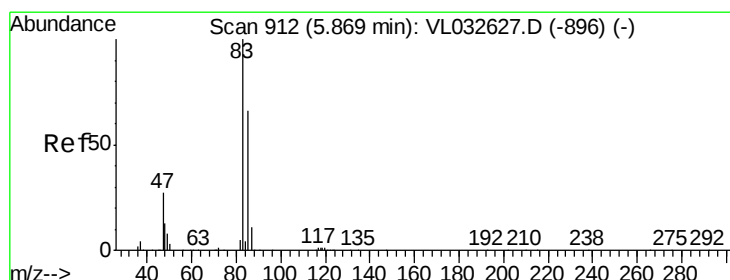
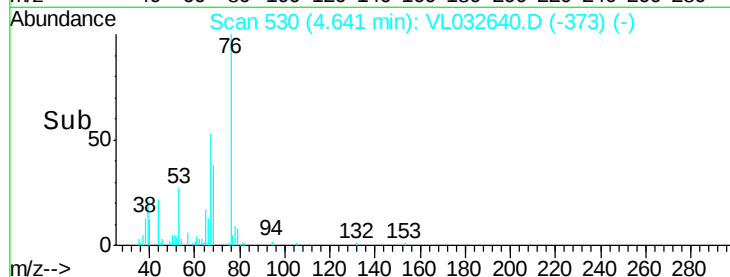
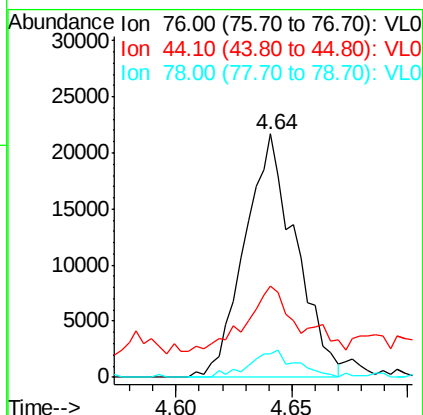
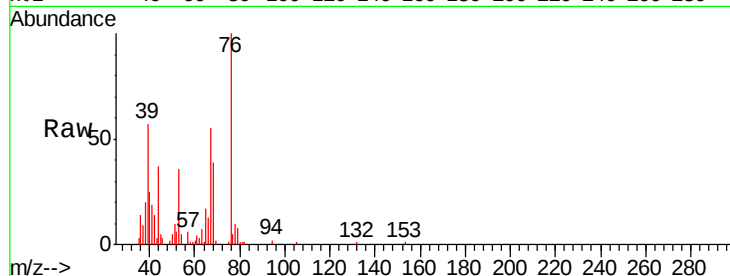
ClientSampleId :

SS04-MIVIDL

Tgt Ion:	76	Resp:	33135
Ion Ratio	Lower	Upper	
76	100		
44	36.5	13.7	20.5#
78	10.4	7.4	11.2

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#29

Chloroform

Concen: 104.36 ppbv

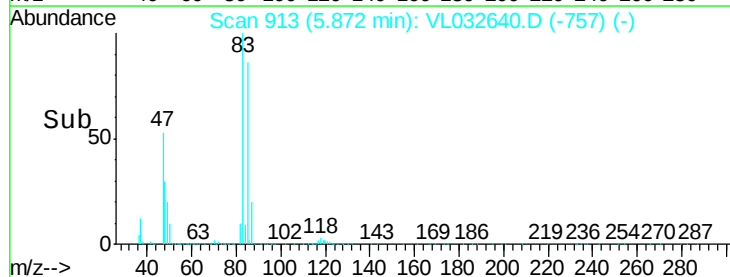
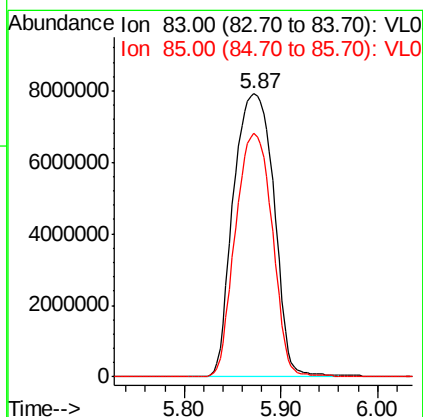
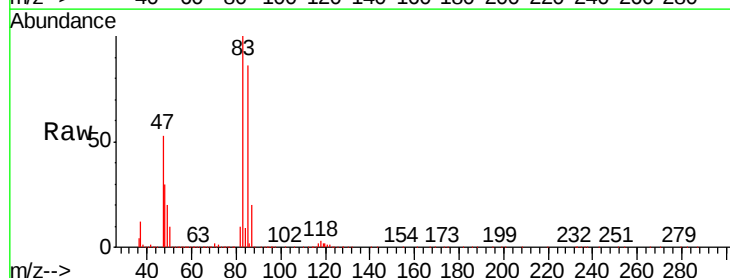
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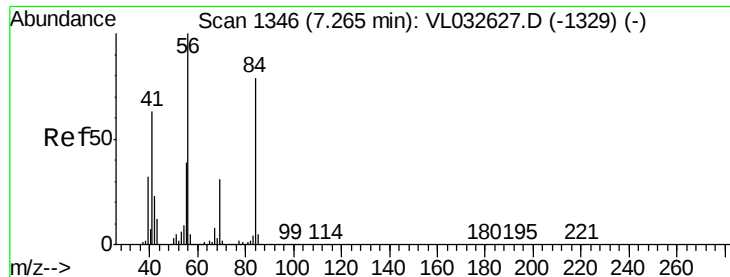
Delta R.T. 0.00 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Tgt Ion:	83	Resp:	23055547
Ion Ratio	Lower	Upper	
83	100		
85	85.9	53.0	79.6#





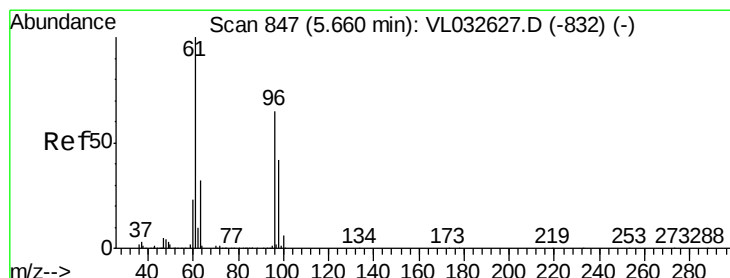
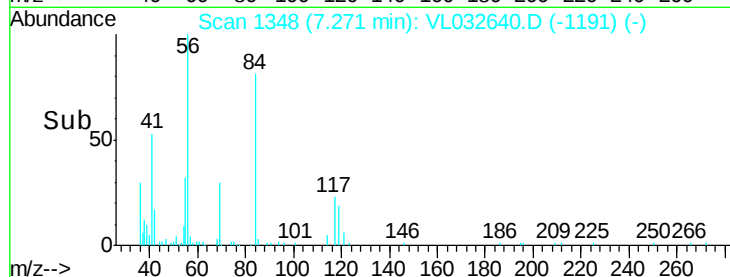
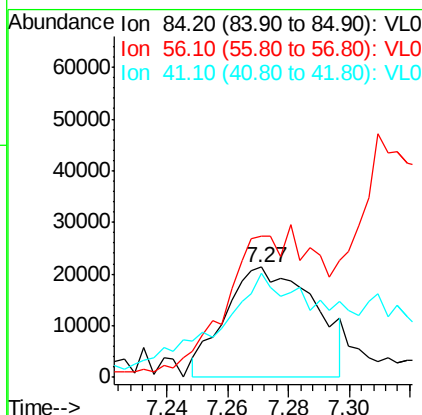
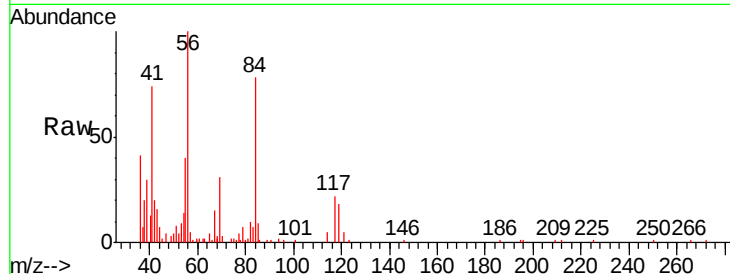
#30
Cyclohexane
Concen: 0.43 ppbv m
RT: 7.27 min Scan# 1348
Delta R.T. 0.01 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL

Tgt Ion	Ratio	Lower	Upper
84	100		
56	136.0	108.3	162.5
41	158.1	64.8	97.2#

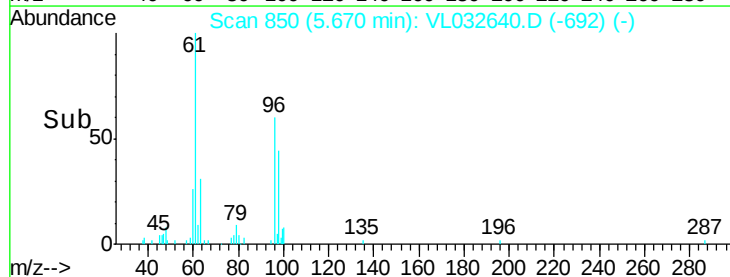
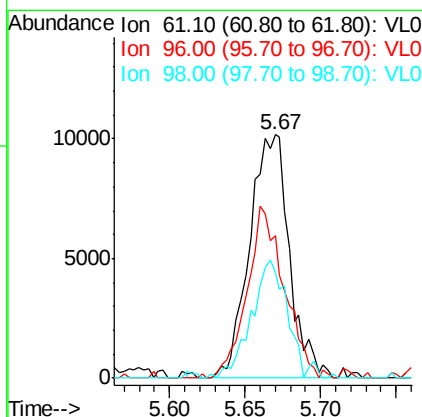
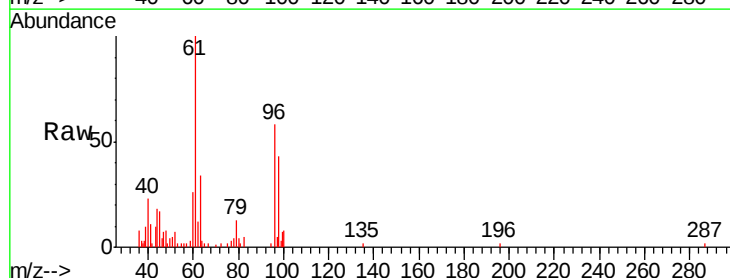
Manual Integrations
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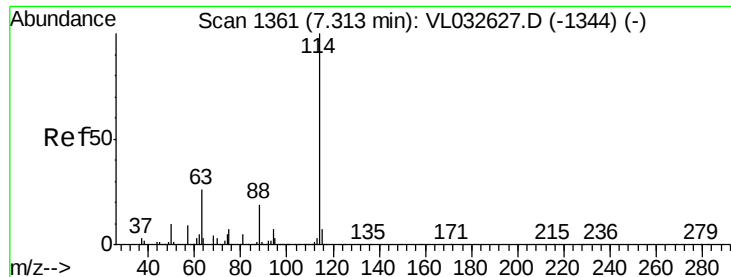
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#31
cis-1,2-Dichloroethene
Concen: 0.15 ppbv m
RT: 5.67 min Scan# 850
Delta R.T. 0.01 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Tgt Ion	Ratio	Lower	Upper
61	100		
96	58.3	51.8	77.6
98	43.3	33.8	50.6





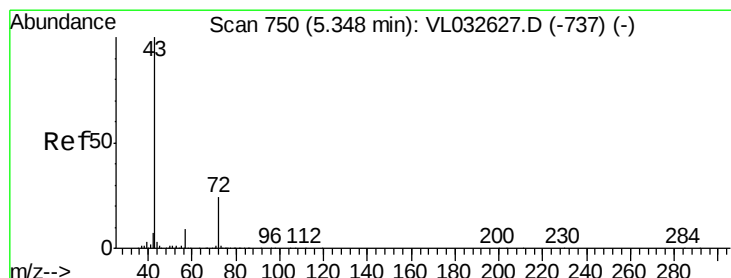
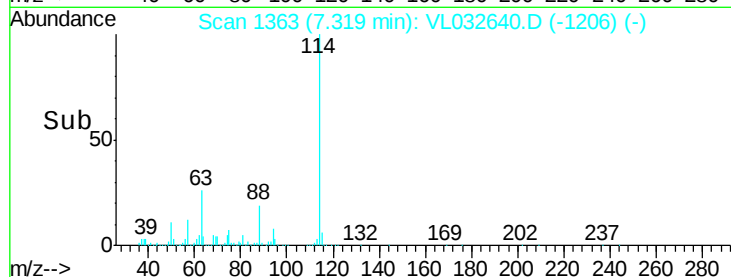
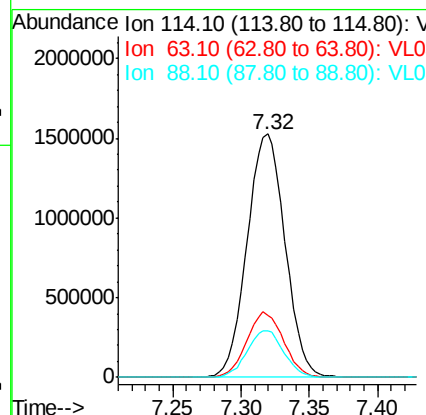
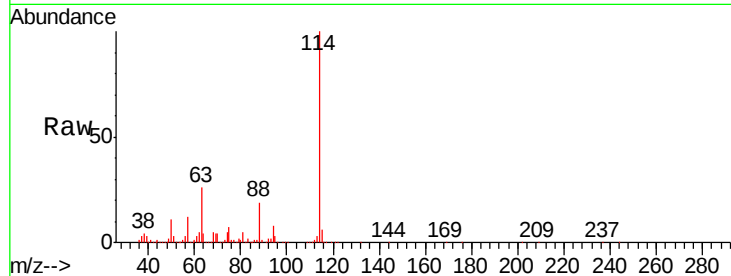
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VL032640.D
 Acq: 17 Oct 2018 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVIDL

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.7	32.5
88	18.7	14.9	22.3

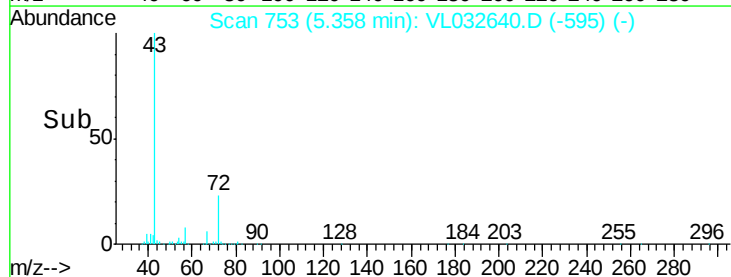
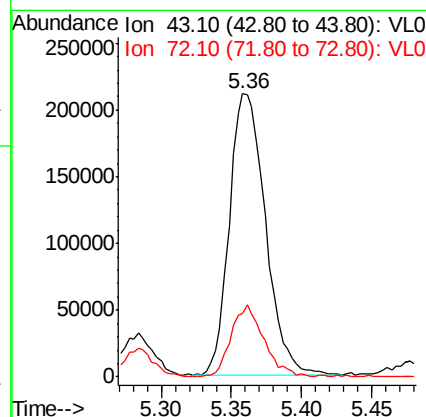
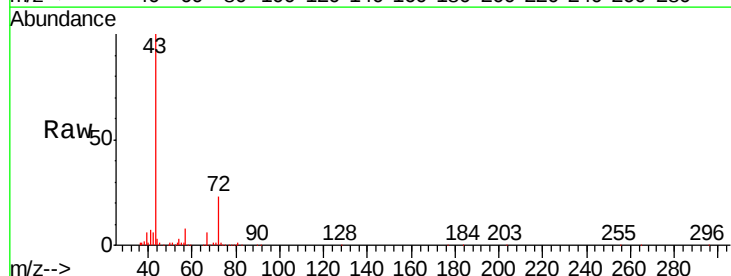
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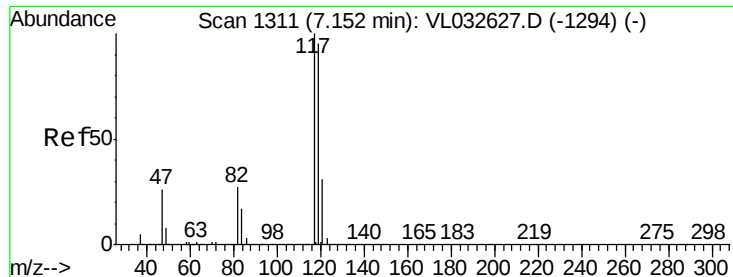
MMDadoda
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#34
 2-Butanone
 Concen: 2.31 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. 0.01 min
 Lab File: VL032640.D
 Acq: 17 Oct 2018 14:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.6	27.8





#35

Carbon Tetrachloride

Concen: 50.49 ppbv

RT: 7.16 min Scan# 1315

Delta R.T. 0.01 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL

Tgt Ion: 117 Resp: 11525815

Ion Ratio Lower Upper

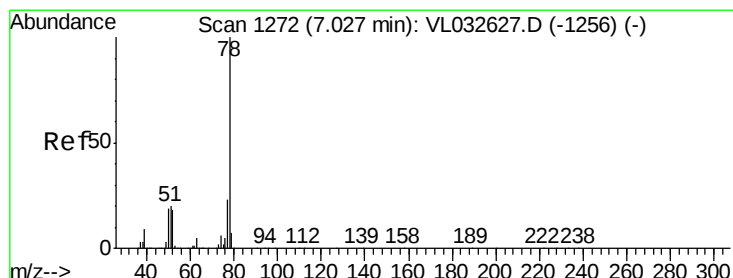
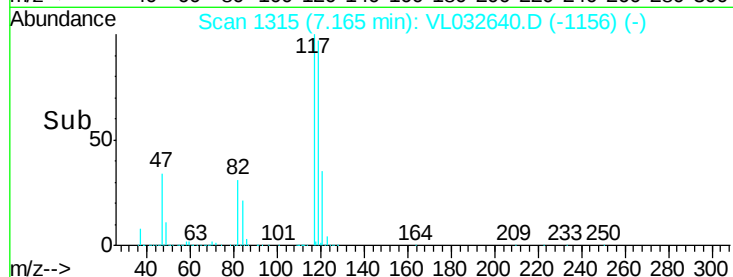
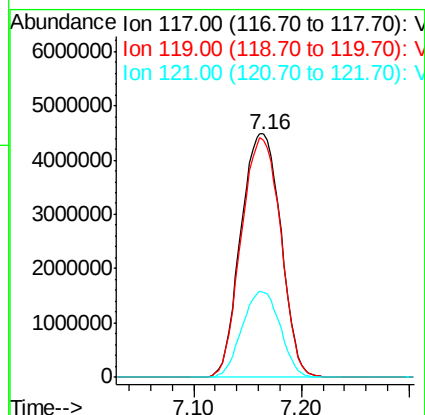
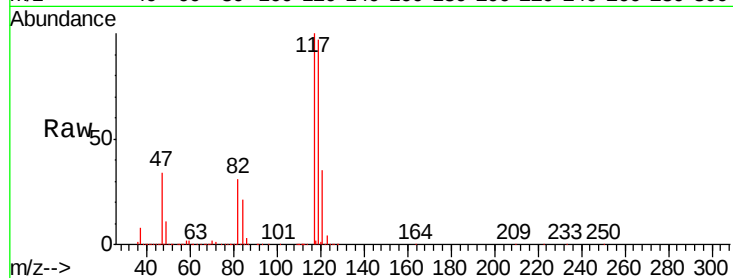
117 100

119 97.4 75.7 113.5

121 35.1 24.7 37.1

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#36

Benzene

Concen: 3.47 ppbv

RT: 7.04 min Scan# 1275

Delta R.T. 0.01 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

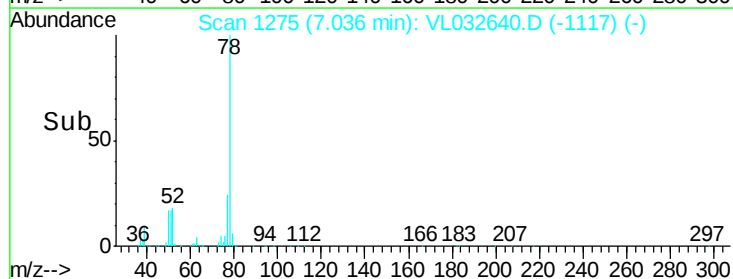
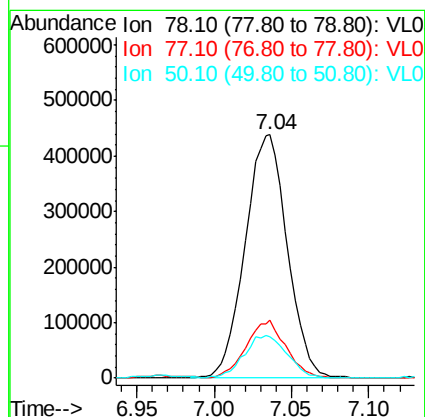
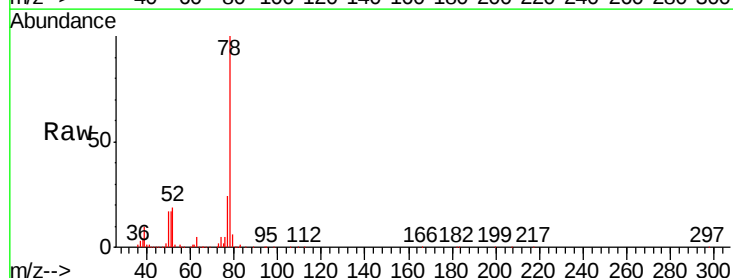
Tgt Ion: 78 Resp: 827709

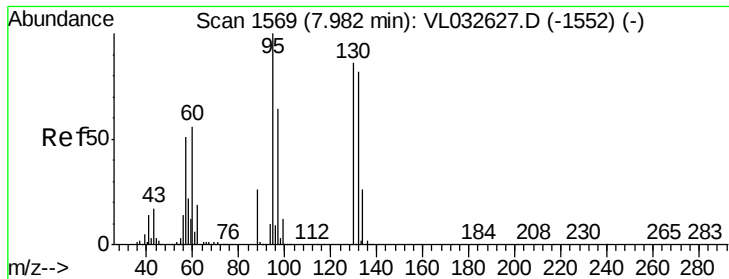
Ion Ratio Lower Upper

78 100

77 23.6 18.1 27.1

50 17.2 15.1 22.7





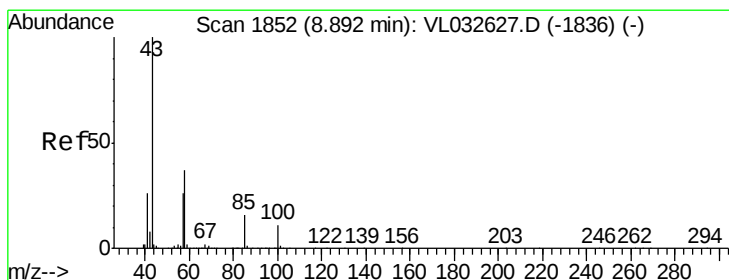
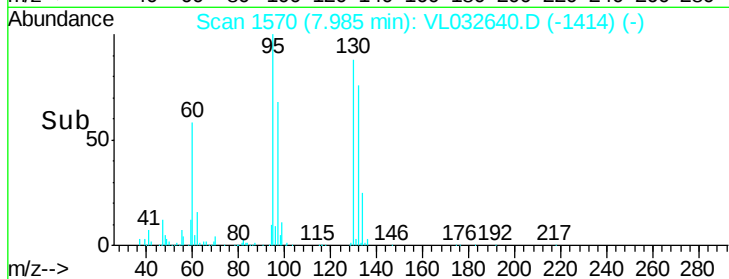
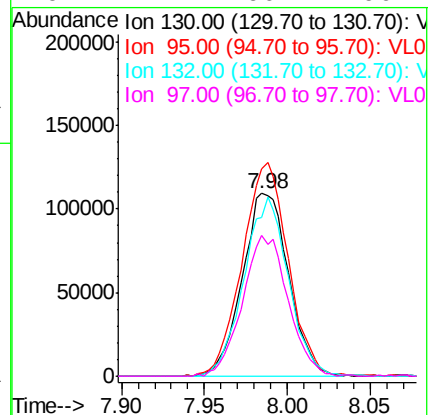
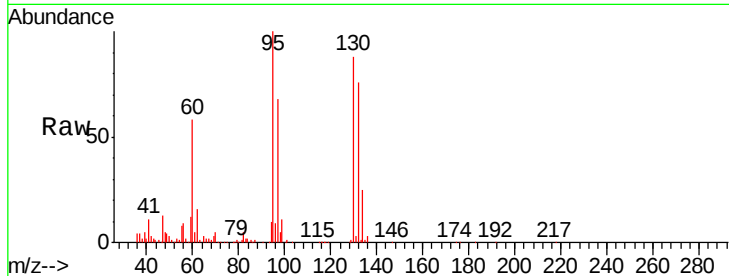
#38
 Trichloroethene
 Concen: 2.37 ppbv
 RT: 7.98 min Scan# 1570
 Delta R.T. 0.00 min
 Lab File: VL032640.D
 Acq: 17 Oct 2018 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVIDL

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	212864		
95	113.5	93.4	140.0	
132	86.8	76.5	114.7	
97	77.2	60.2	90.2	

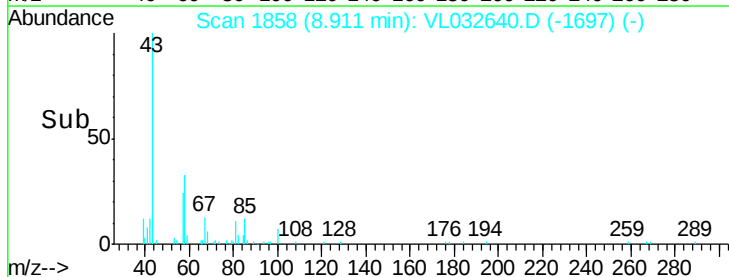
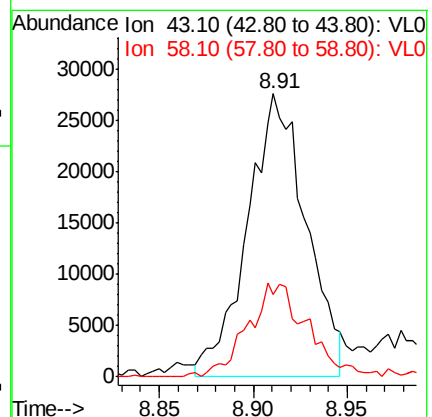
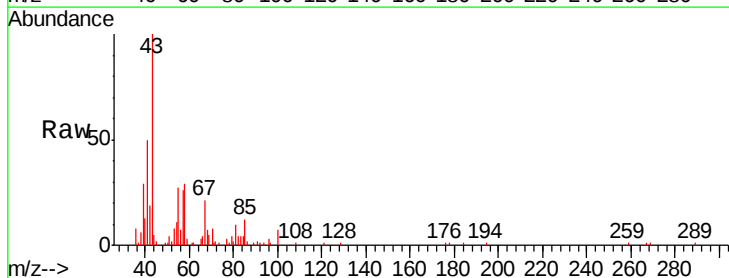
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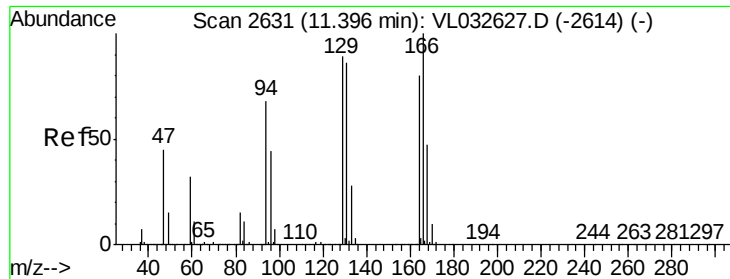
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#50
 4-Methyl-2-Pentanone
 Concen: 0.25 ppbv m
 RT: 8.91 min Scan# 1858
 Delta R.T. 0.02 min
 Lab File: VL032640.D
 Acq: 17 Oct 2018 14:28

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	60153		
58	33.2	29.7	44.5	





#52

Tetrachloroethene

Concen: 0.19 ppbv m

RT: 11.39 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Instrument :

MSVOA_L

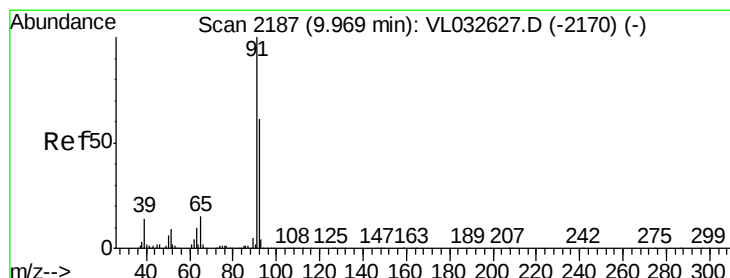
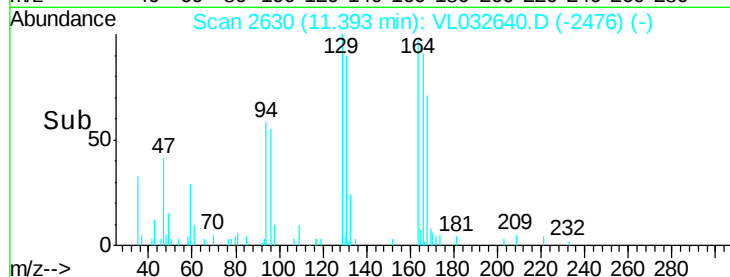
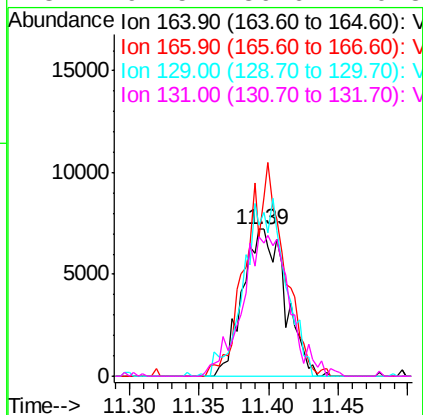
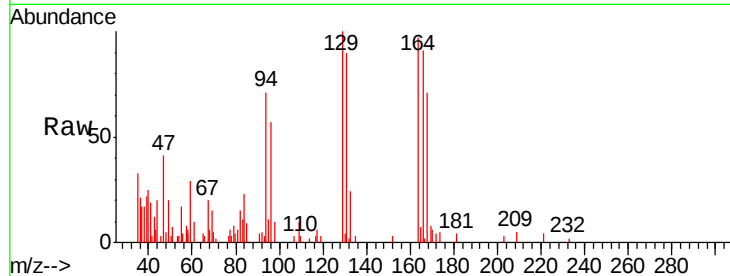
ClientSampleId :

SS04-MIVIDL

Tgt Ion:	164	Resp:	15299
Ion Ratio	Lower	Upper	
164	100		
166	93.8	100.5	150.7#
129	102.6	90.0	135.0
131	92.5	86.6	129.8

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#53

Toluene

Concen: 2.75 ppbv

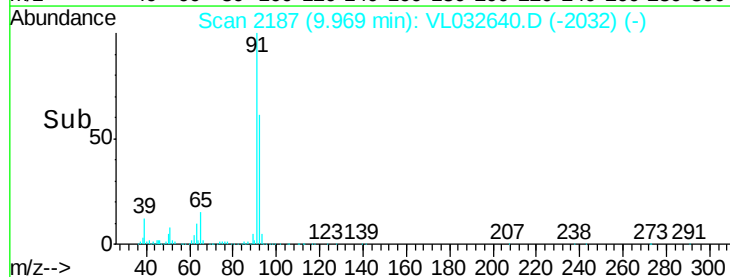
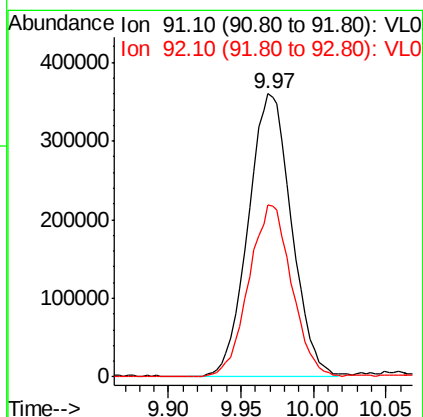
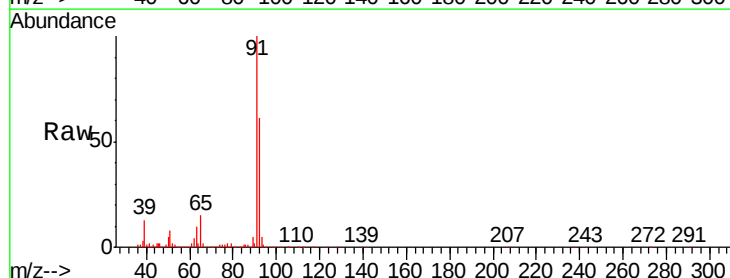
RT: 9.97 min Scan# 2187

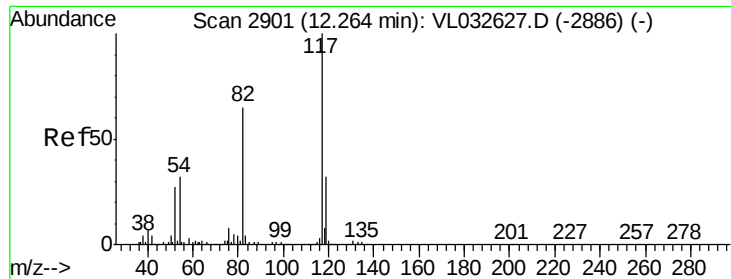
Delta R.T. -0.00 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Tgt Ion:	91	Resp:	747950
Ion Ratio	Lower	Upper	
91	100		
92	60.2	48.4	72.6





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.26 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL032640.D

Acq: 17 Oct 2018 14:28

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL

Tgt Ion: 117 Resp: 2897397

Ion Ratio Lower Upper

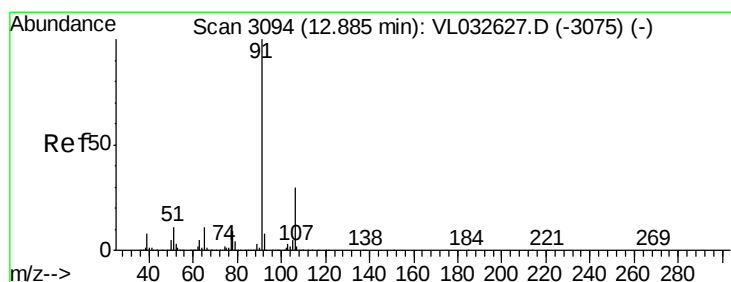
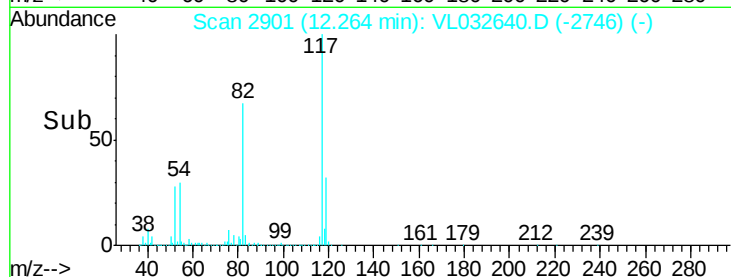
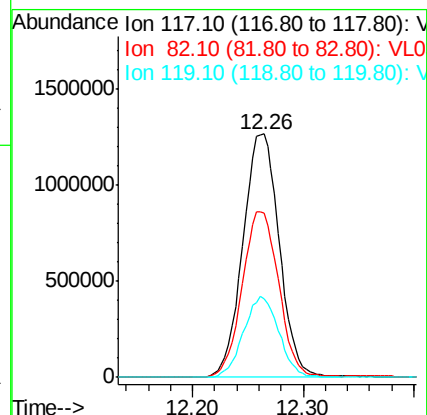
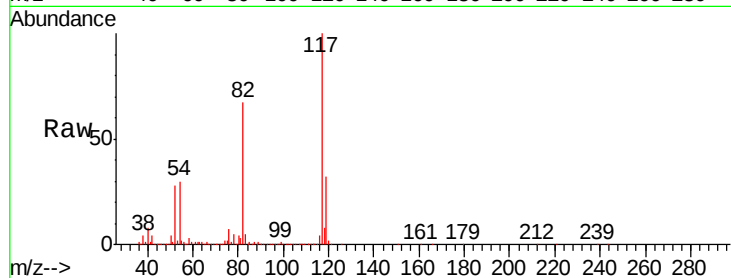
117 100

82 68.4 52.7 79.1

119 32.3 26.7 40.1

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#58

Ethyl Benzene

Concen: 0.24 ppbv

RT: 12.88 min Scan# 3094

Delta R.T. -0.00 min

Lab File: VL032640.D

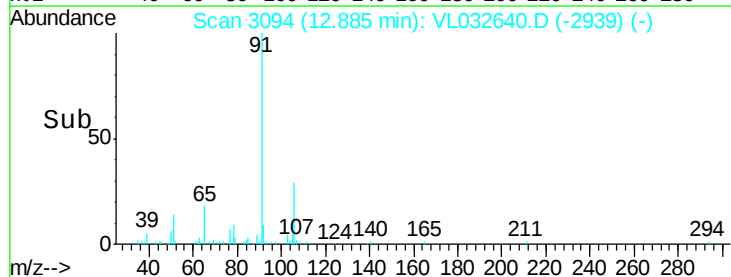
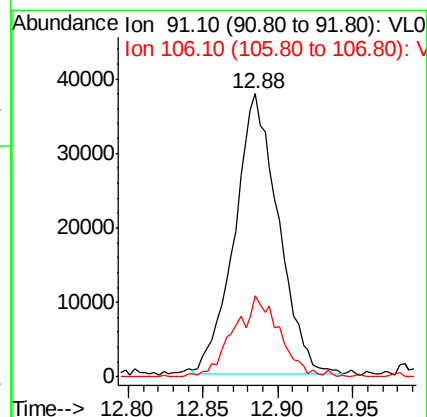
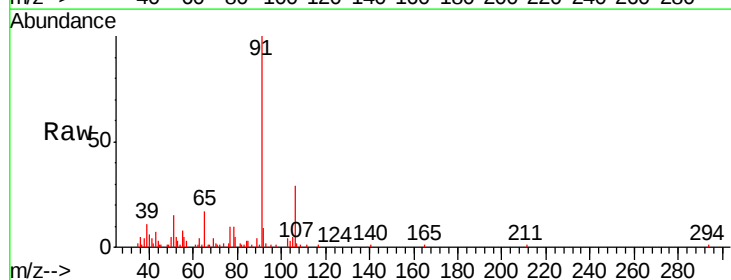
Acq: 17 Oct 2018 14:28

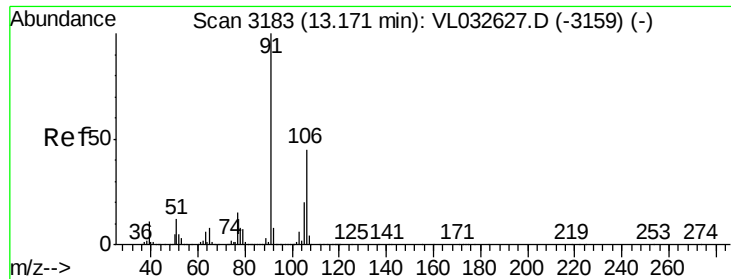
Tgt Ion: 91 Resp: 76651

Ion Ratio Lower Upper

91 100

106 28.6 24.2 36.2





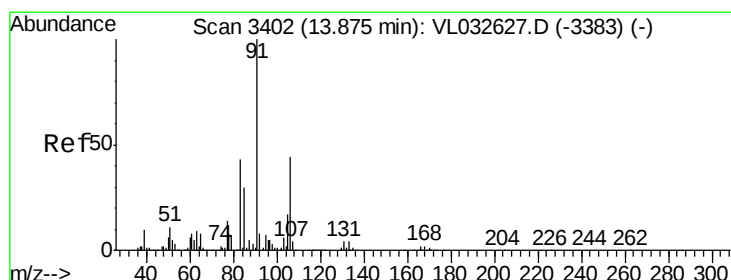
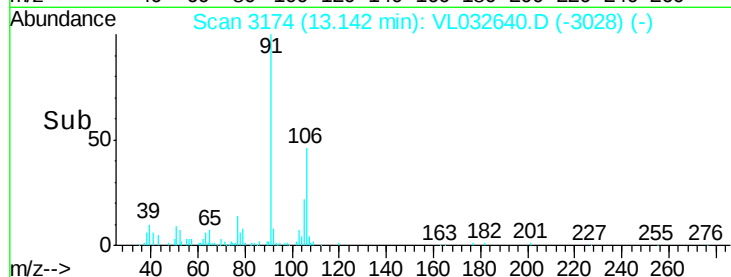
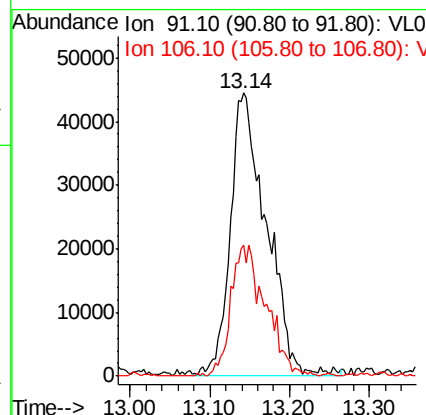
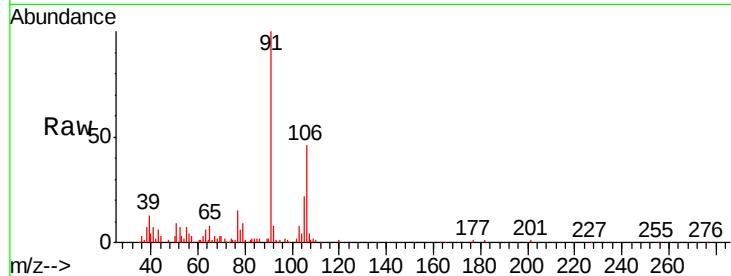
#59
m/p-Xylene
Concen: 0.48 ppbv m
RT: 13.14 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL

Tgt Ion: 91 Resp: 140533
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#

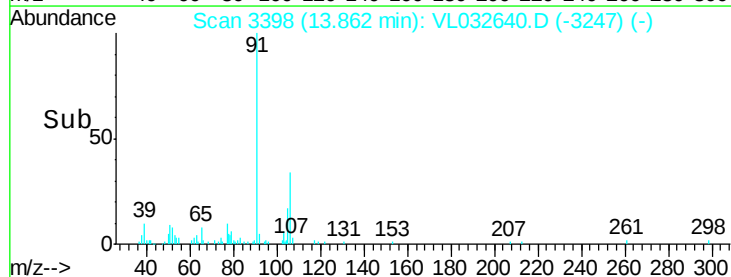
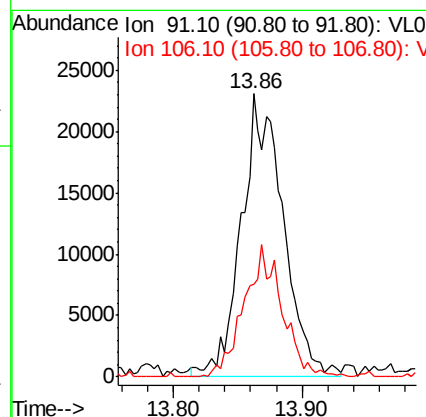
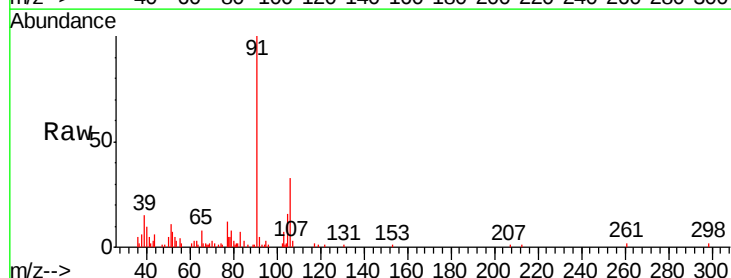
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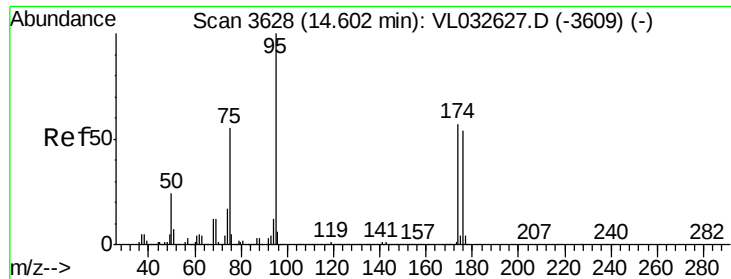
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#60
o-Xylene
Concen: 0.18 ppbv m
RT: 13.86 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL032640.D
Acq: 17 Oct 2018 14:28

Tgt Ion: 91 Resp: 52109
Ion Ratio Lower Upper
91 100
106 42.2 22.1 66.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.18 ppbv
 RT: 14.60 min Scan# 3627
 Delta R.T. -0.00 min
 Lab File: VL032640.D
 Acq: 17 Oct 2018 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVIDL

Tgt Ion: 95 Resp: 2220573
 Ion Ratio Lower Upper
 95 100
 174 57.8 46.0 69.0
 175 4.4 3.4 5.0

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