

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034063.D
 Acq On : 30 Jul 2019 13:27
 Operator : SY/AP
 Sample : K4033-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG3DL

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:46 AM

Quant Time: Jul 31 19:58:14 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 31

QLast Update : Tue Jul 30 06:55:18 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1375065	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4851556	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3258995	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2657361	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds

						Ovalue
3) Chlorodifluoromethane	2.98	51	27237	0.172	ppbv	99
9) Propene	3.02	41	134046m	2.352	ppbv	
10) Heptane	8.20	43	56691m	0.365	ppbv	
13) Ethanol	3.63	45	104319	4.600	ppbv	94
15) Acetone	3.88	43	91103m	0.436	ppbv	
26) Hexane	5.74	57	149879	1.066	ppbv #	42
29) Chloroform	5.80	83	52340	0.204	ppbv	95
30) Cyclohexane	7.20	84	65297m	0.457	ppbv	
34) 2-Butanone	5.30	43	28371m	0.142	ppbv	
36) Benzene	6.96	78	216026	0.669	ppbv	97
52) Tetrachloroethene	11.32	164	38386m	0.303	ppbv	
53) Toluene	9.89	91	2385357	7.079	ppbv	99
58) Ethyl Benzene	12.81	91	422014	1.094	ppbv	92
59) m/p-Xylene	13.06	91	1444423	4.120	ppbv	98
60) o-Xylene	13.79	91	538948	1.547	ppbv	100
61) Styrene	13.63	104	70325m	0.306	ppbv	
62) Isopropylbenzene	14.77	105	116662	0.250	ppbv	97
70) n-Butylbenzene	18.65	91	66210m	0.125	ppbv	
72) 4-Ethyltoluene	15.94	105	307945m	0.782	ppbv	
73) 1,3,5-Trimethylbenzene	16.10	105	221595m	0.553	ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	1077972m	2.447	ppbv	
79) Naphthalene	22.33	128	68174m	0.178	ppbv	

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

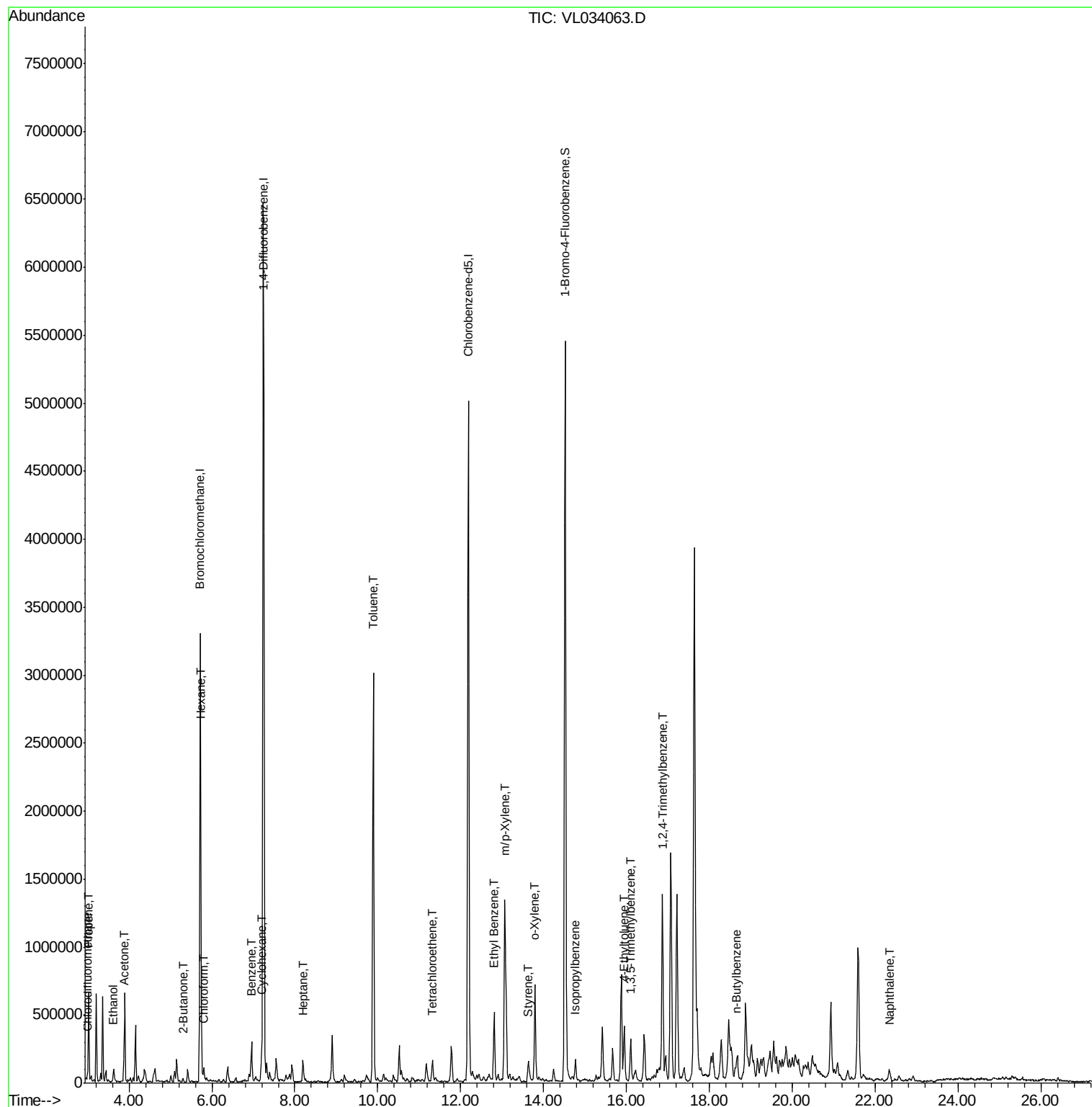
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL073019\
Data File : VL034063.D
Acq On : 30 Jul 2019 13:27
Operator : SY/AP
Sample : K4033-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

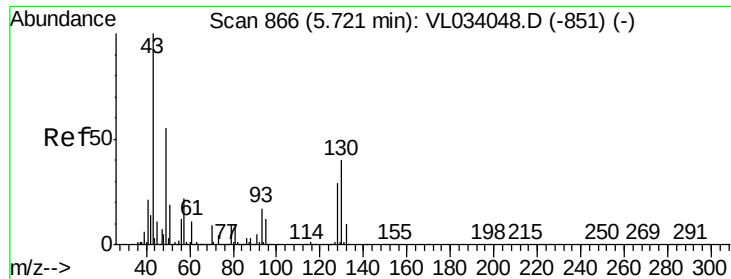
Instrument :
MSVOA_L
ClientSampleId :
SSG3DL

Manual Integrations
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Quant Time: Jul 31 19:58:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul
QLast Update : Tue Jul 30 06:55:18 2019
Response via : Initial Calibration





#1

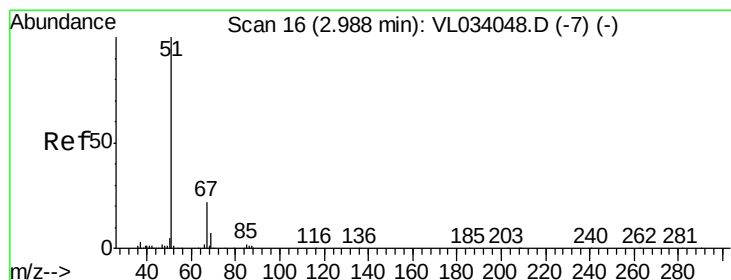
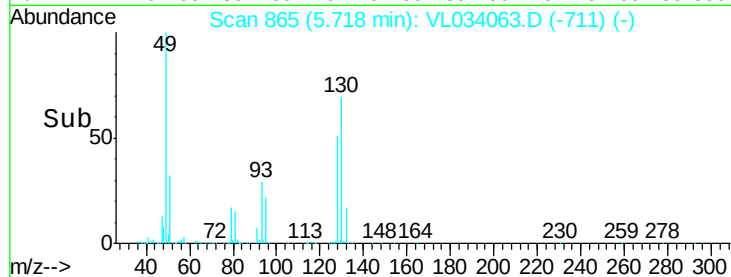
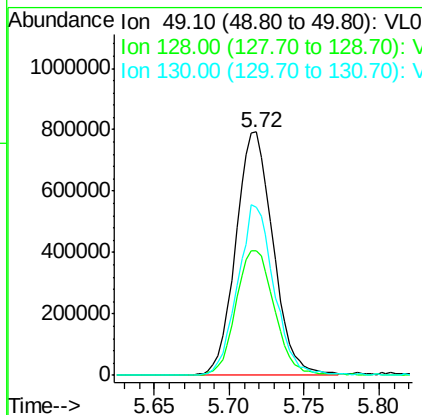
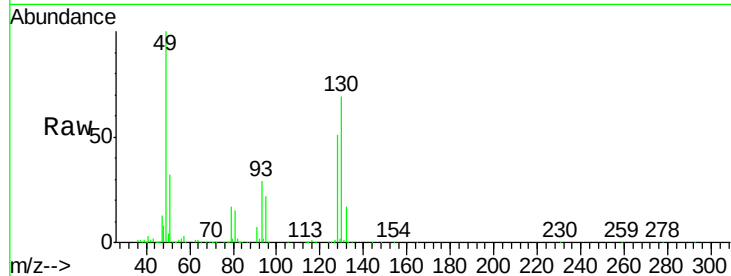
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.72 min Scan# 865
 Delta R.T. -0.00 min
 Lab File: VL034063.D
 Acq: 30 Jul 2019 13:27

Instrument :
 MSVOA_L
 ClientSampled :
 SSG3DL

Tot Ion: 49 Resp: 1375065
 Ion Ratio Lower Upper
 49 100
 128 53.6 27.0 81.0
 130 69.0 35.0 105.0

Manual Integrations
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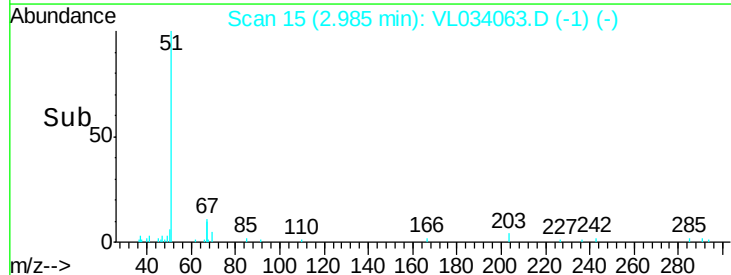
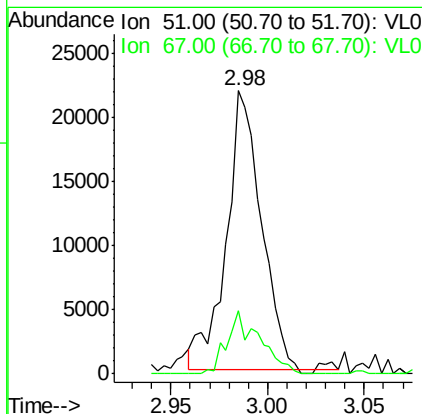
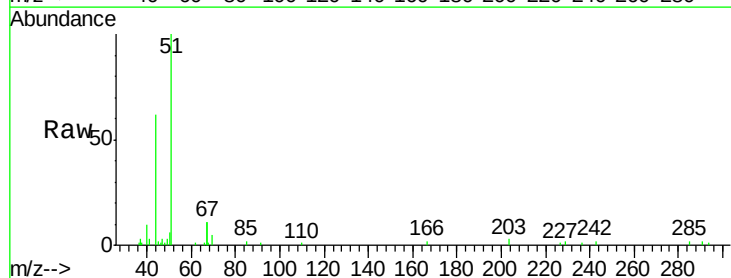
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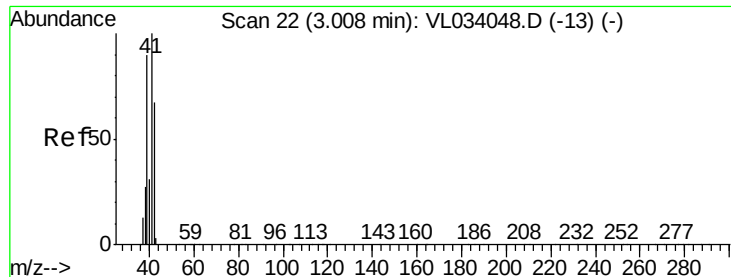


#3

Chlorodifluoromethane
 Concen: 0.172 ppbv
 RT: 2.98 min Scan# 15
 Delta R.T. -0.00 min
 Lab File: VL034063.D
 Acq: 30 Jul 2019 13:27

Tgt Ion: 51 Resp: 27237
 Ion Ratio Lower Upper
 51 100
 67 21.2 17.4 26.0





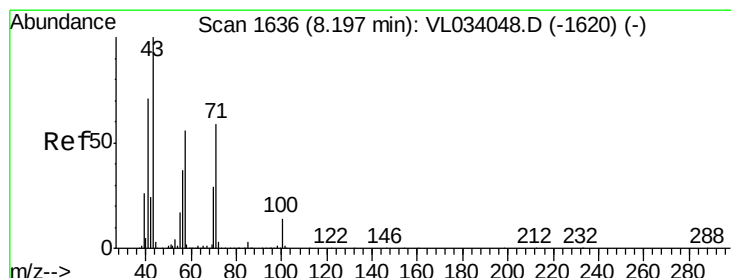
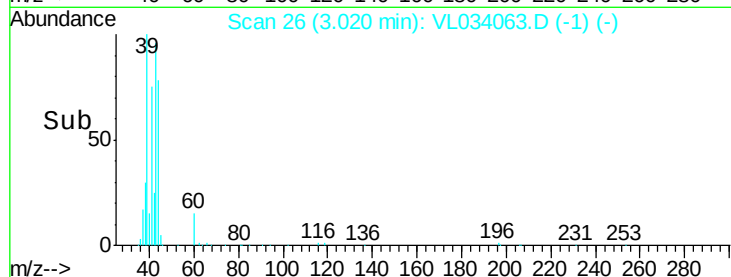
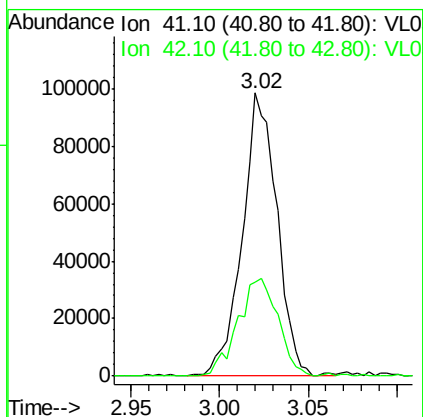
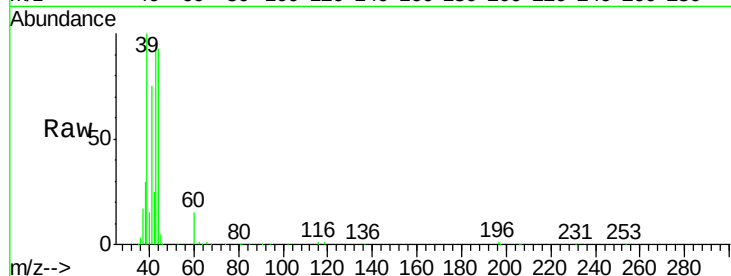
#9
 Propene
 Concen: 2.352 ppbv m
 RT: 3.02 min Scan# 26
 Delta R.T. 0.01 min
 Lab File: VL034063.D
 Acq: 30 Jul 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG3DL

Tot Ion: 41 Resp: 134046
 Ion Ratio Lower Upper
 41 100
 42 84.1 55.4 83.2#

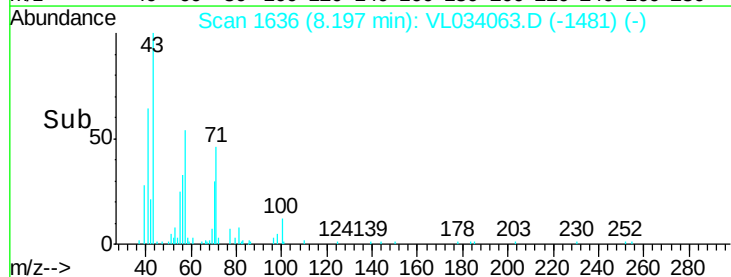
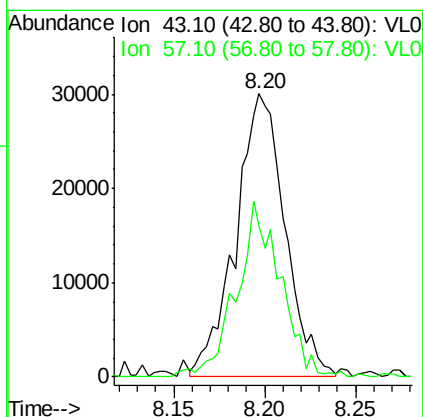
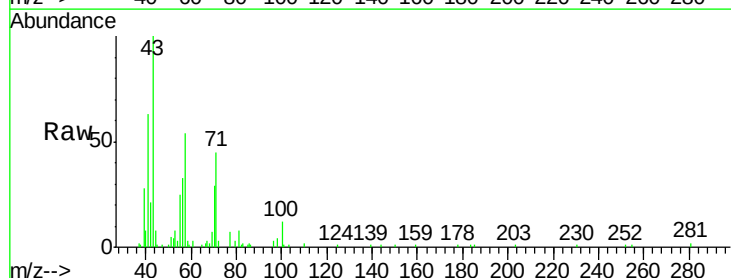
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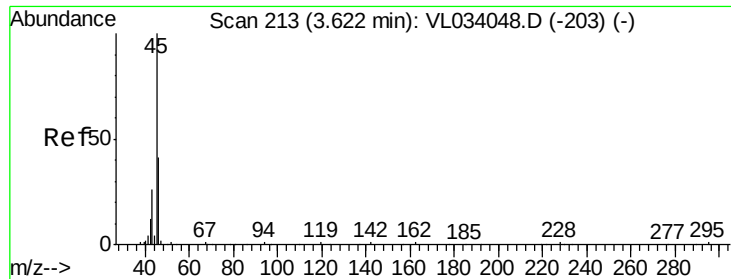
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#10
 Heptane
 Concen: 0.365 ppbv m
 RT: 8.20 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VL034063.D
 Acq: 30 Jul 2019 13:27

Tgt Ion: 43 Resp: 56691
 Ion Ratio Lower Upper
 43 100
 57 55.3 44.8 67.2





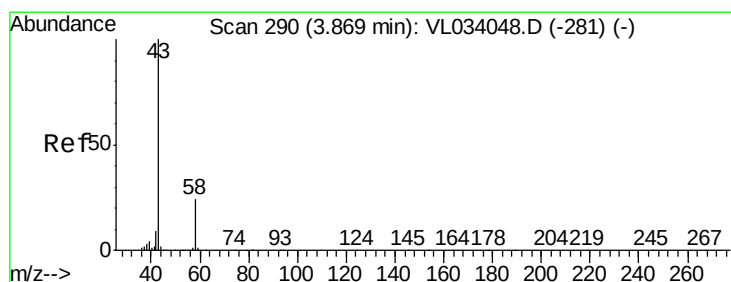
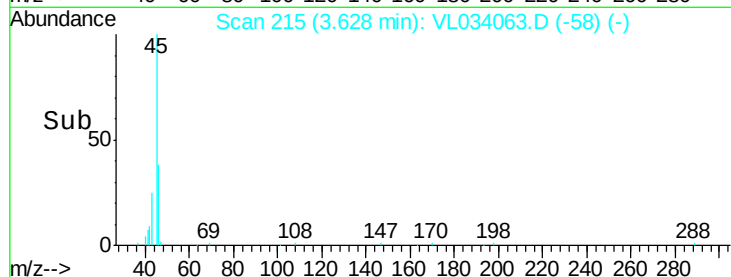
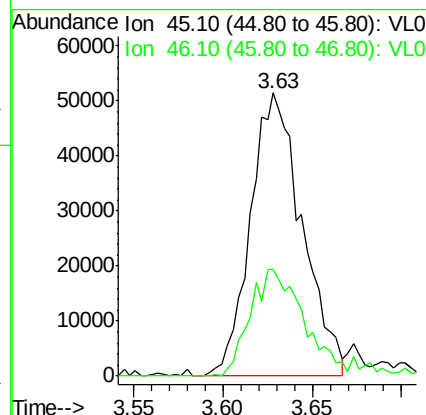
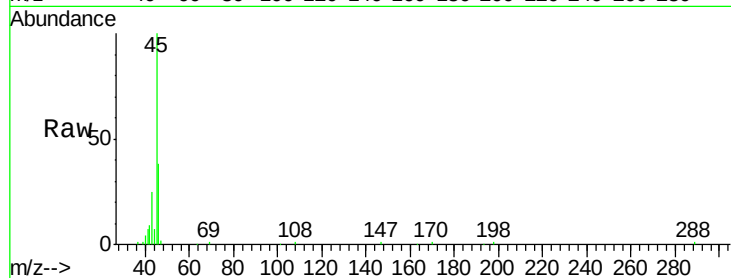
#13
Ethanol
Concen: 4.600 ppbv
RT: 3.63 min Scan# 215
Delta R.T. 0.01 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Instrument :
MSVOA_L
ClientSampled :
SSG3DL

Tot Ion	Ratio	Lower	Upper
45	100		
46	42.8	15.6	62.2

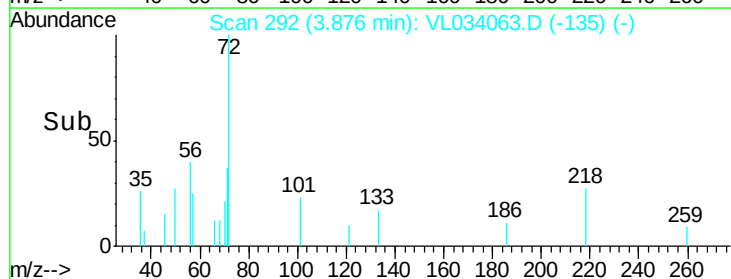
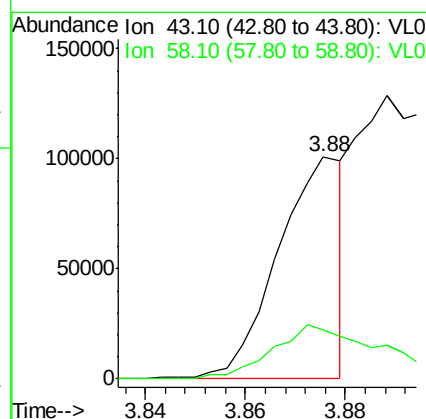
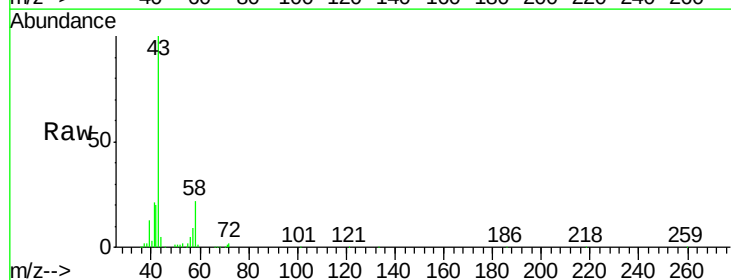
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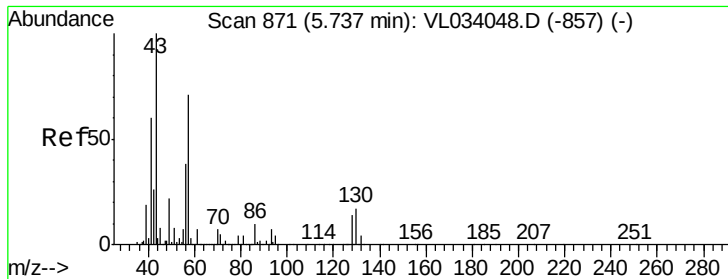
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#15
Acetone
Concen: 0.436 ppbv m
RT: 3.88 min Scan# 292
Delta R.T. 0.01 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Tgt Ion	Ratio	Lower	Upper
43	100		
58	49.5	21.6	32.4#





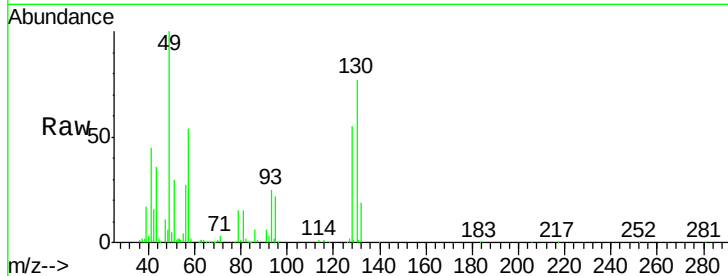
#26
Hexane
Concen: 1.066 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Instrument :
MSVOA_L
ClientSampled :
SSG3DL

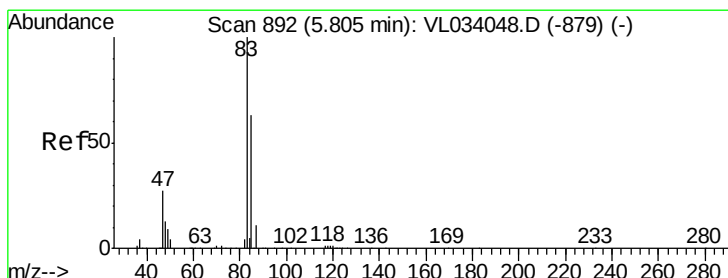
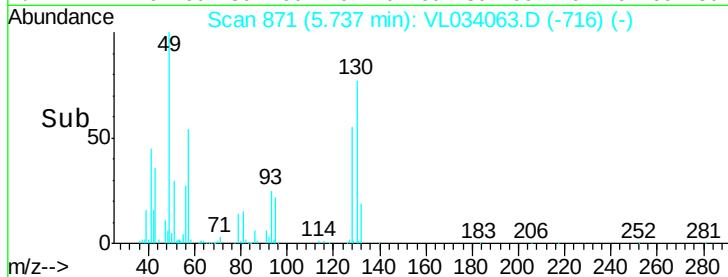
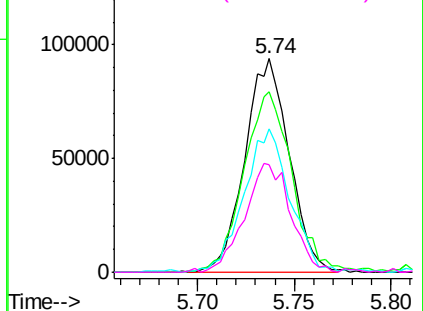
Tot Ion	57	Resp	149879
Ion Ratio	Lower	Upper	
57	100		
41	92.3	69.0	103.6
43	72.2	176.6	264.8#
56	53.8	42.2	63.4

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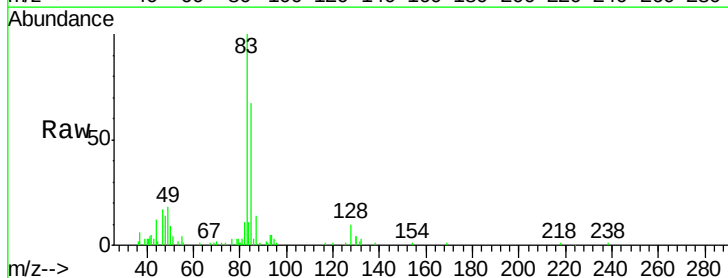


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

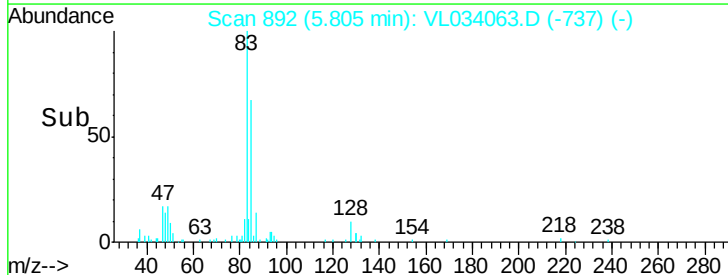
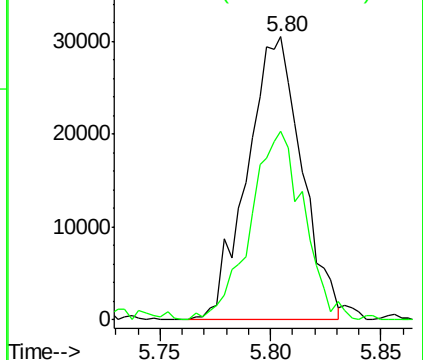


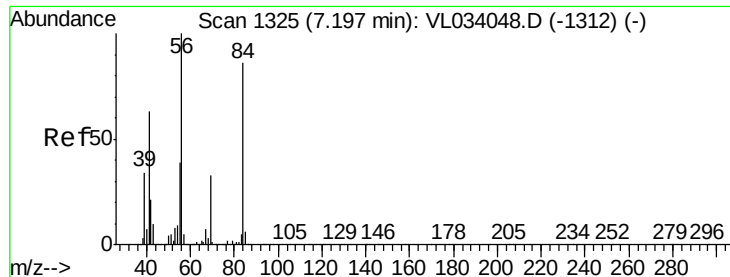
#29
Chloroform
Concen: 0.204 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Tgt Ion	83	Resp	52340
Ion Ratio	Lower	Upper	
83	100		
85	66.8	50.2	75.4



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





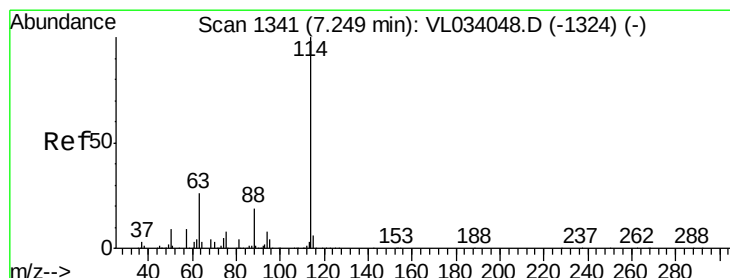
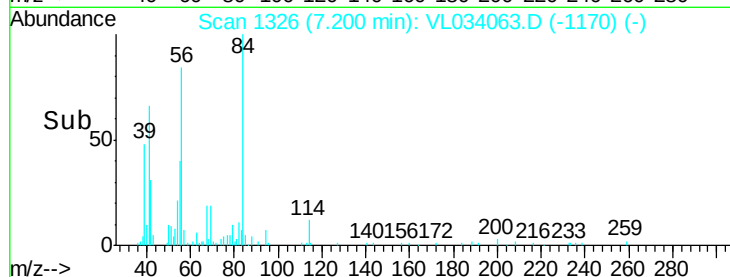
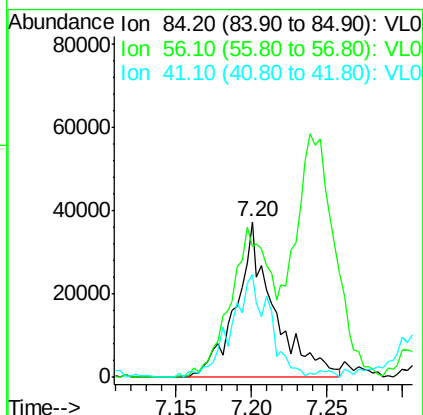
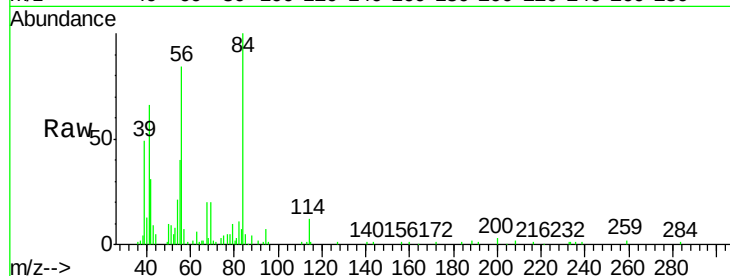
#30
Cyclohexane
Concen: 0.457 ppbv m
RT: 7.20 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
SSG3DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	111.1	101.7	152.5
41	66.8	59.4	89.0

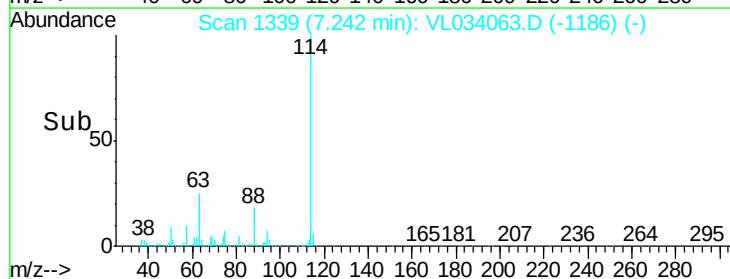
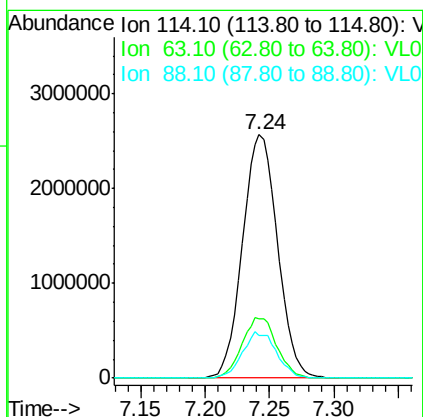
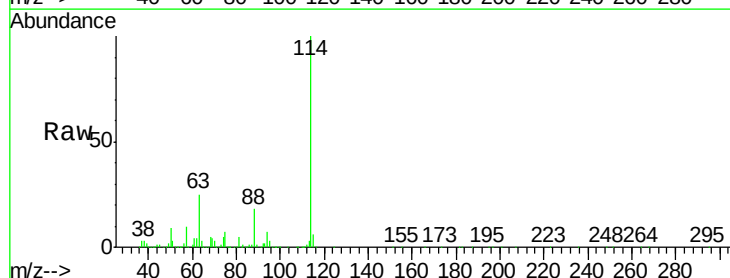
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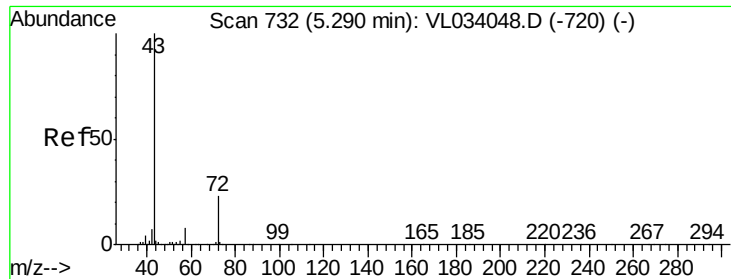
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	18.5	14.7	22.1





#34

2-Butanone

Concen: 0.142 ppbv m

RT: 5.30 min Scan# 734

Delta R.T. 0.01 min

Lab File: VL034063.D

Acq: 30 Jul 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

SSG3DL

Tot Ion: 43 Resp: 28371

Ion Ratio Lower Upper

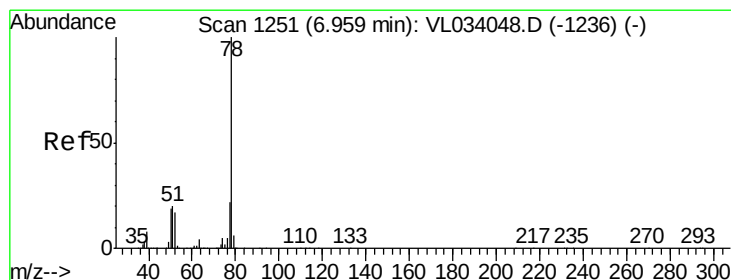
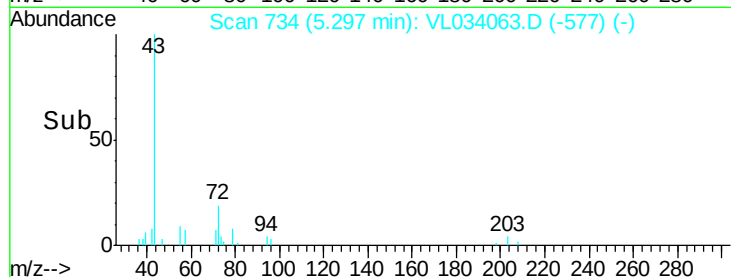
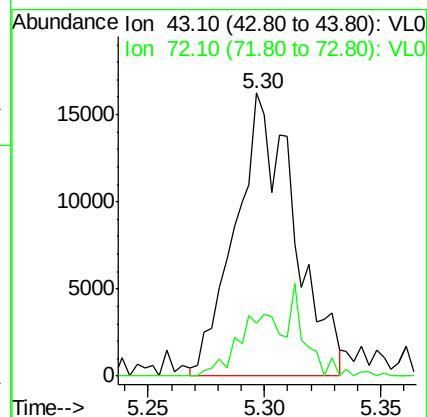
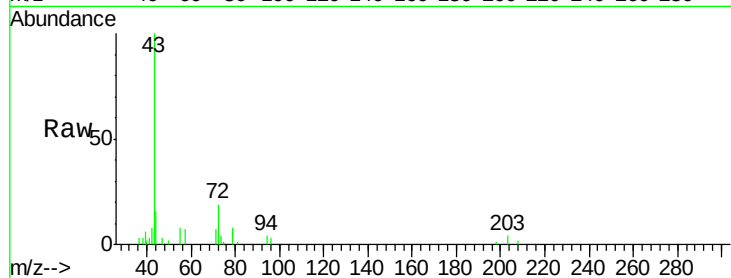
43 100

72 0.0 20.2 30.4#

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#36

Benzene

Concen: 0.669 ppbv

RT: 6.96 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VL034063.D

Acq: 30 Jul 2019 13:27

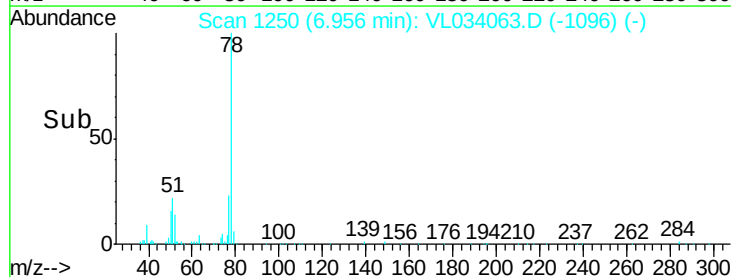
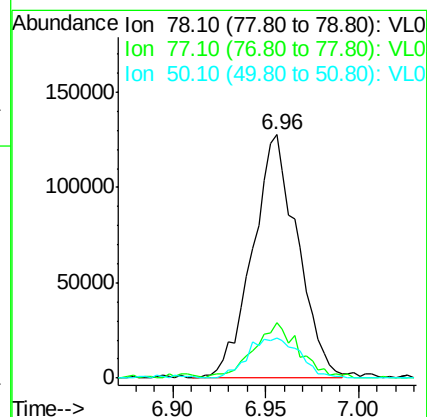
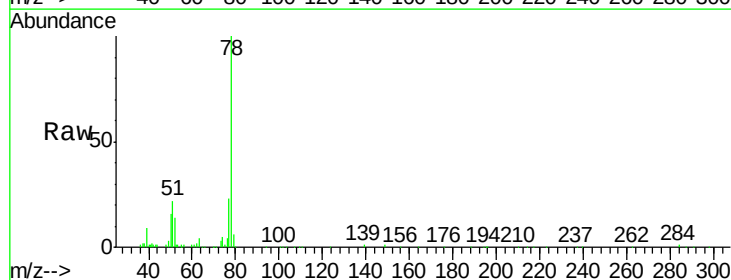
Tgt Ion: 78 Resp: 216026

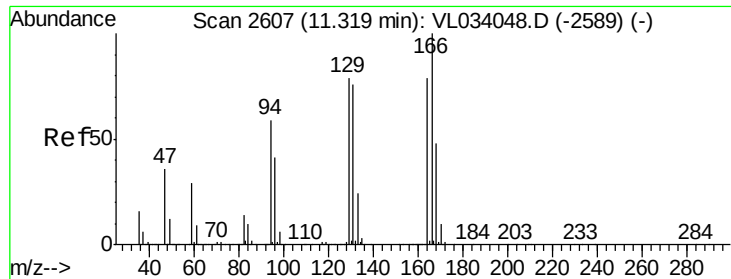
Ion Ratio Lower Upper

78 100

77 22.0 17.9 26.9

50 16.0 14.9 22.3





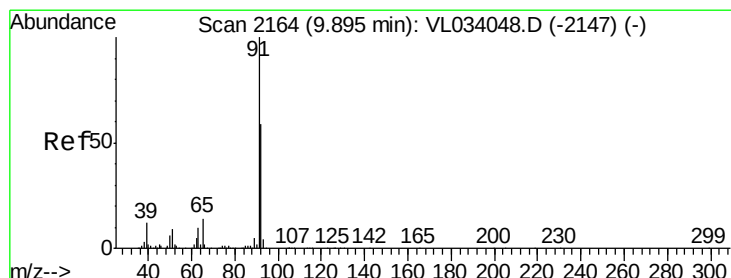
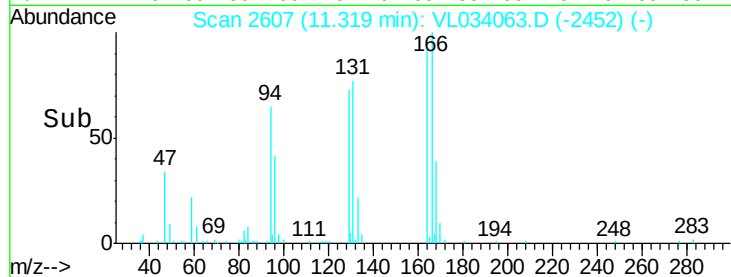
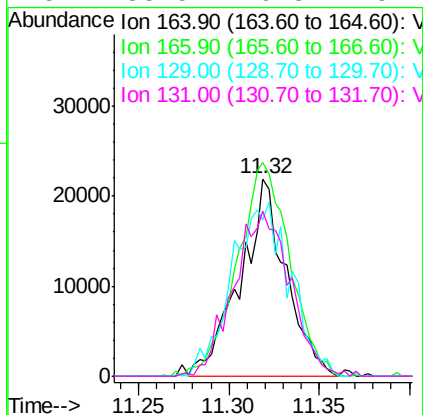
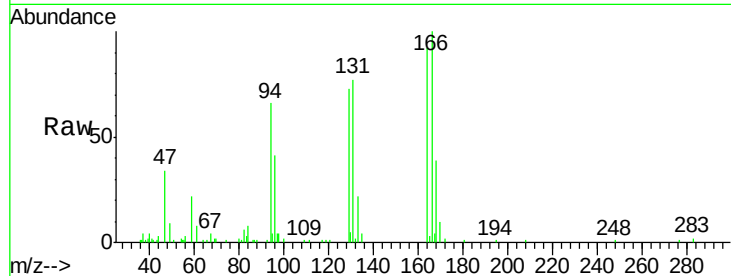
#52
Tetrachloroethene
Concen: 0.303 ppbv m
RT: 11.32 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
SSG3DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	108.1	101.6	152.4
129	78.9	80.7	121.1#
131	83.5	76.8	115.2

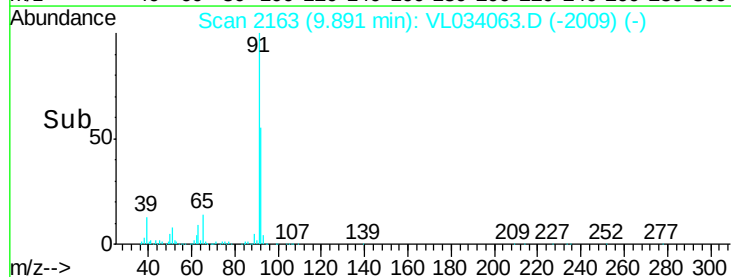
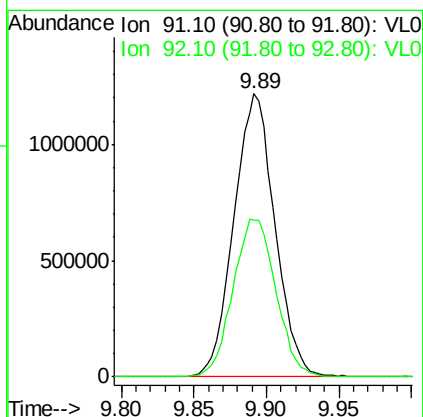
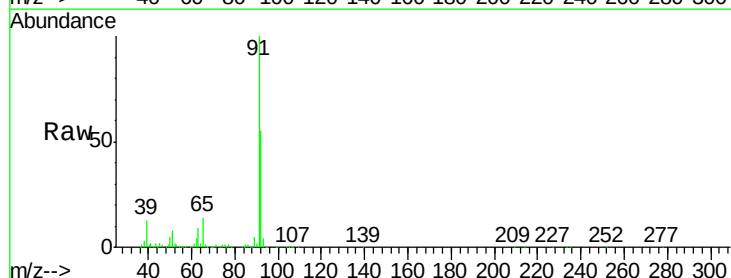
Manual Integrations
APPROVED

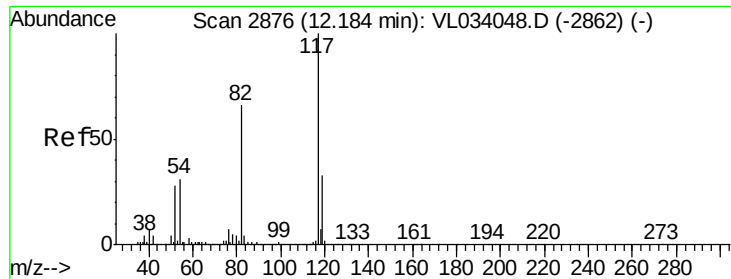
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#53
Toluene
Concen: 7.079 ppbv
RT: 9.89 min Scan# 2163
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.4	71.2





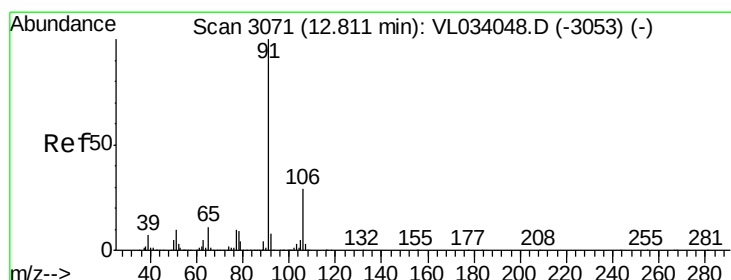
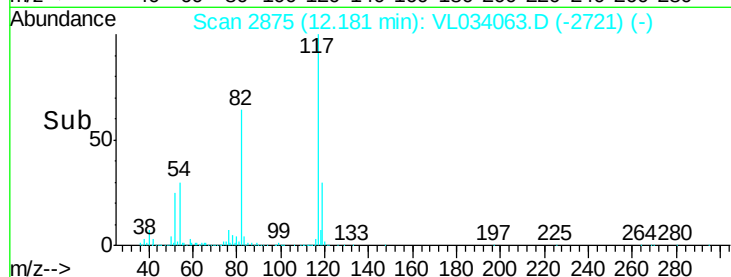
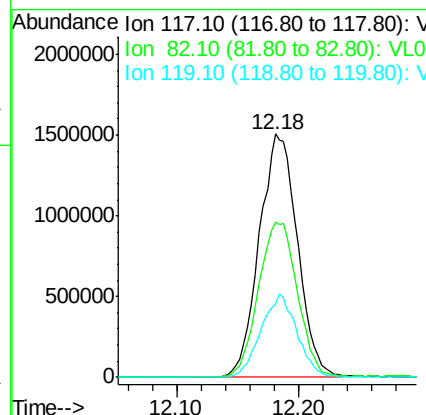
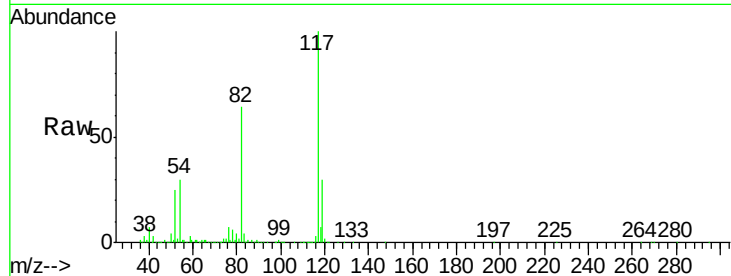
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2875
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
SSG3DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.5	49.8	74.8
119	32.5	43.0	64.6

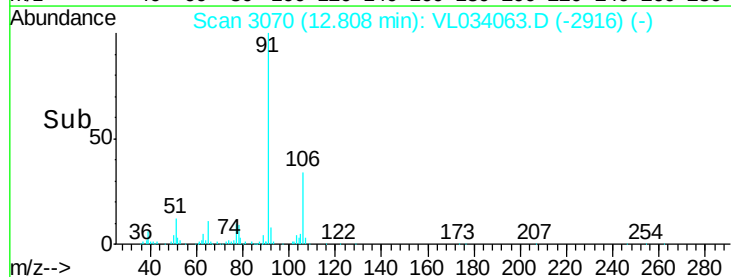
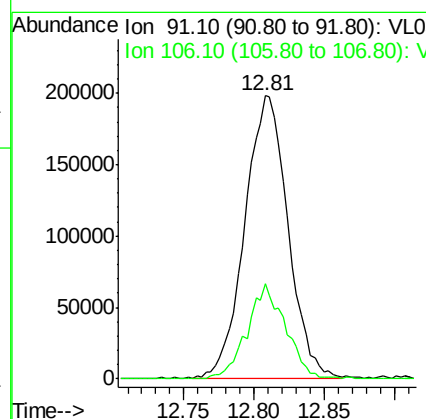
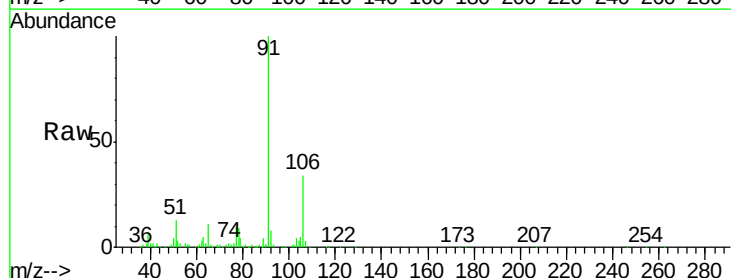
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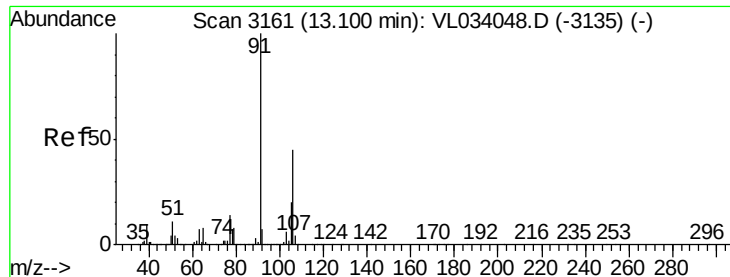
MMDadoda
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#58
Ethyl Benzene
Concen: 1.094 ppbv
RT: 12.81 min Scan# 3070
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.8	23.5	35.3





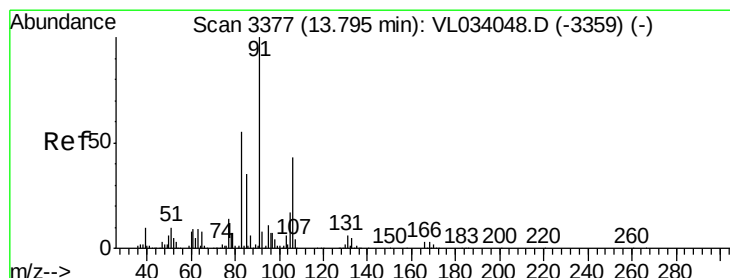
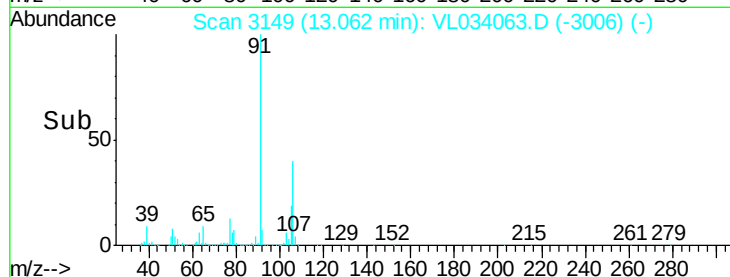
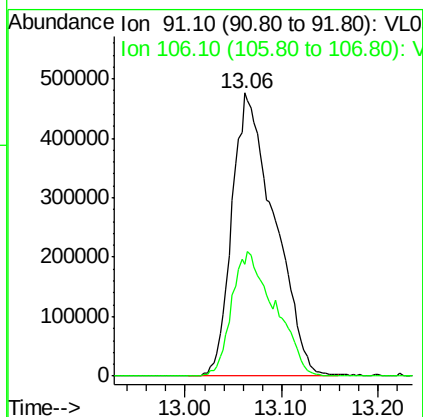
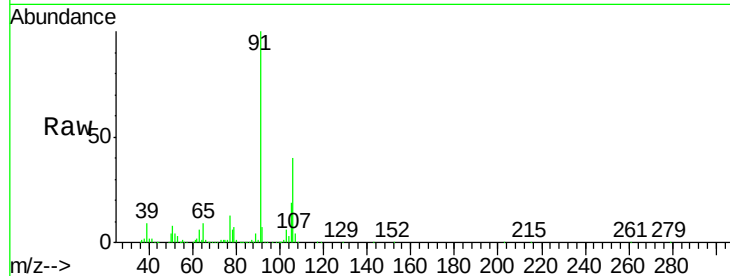
#59
m/p-Xylene
Concen: 4.120 ppbv
RT: 13.06 min Scan# 3149
Delta R.T. -0.04 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Instrument :
MSVOA_L
ClientSampled :
SSG3DL

Tot Ion: 91 Resp: 1444423
Ion Ratio Lower Upper
91 100
106 44.9 35.1 52.7

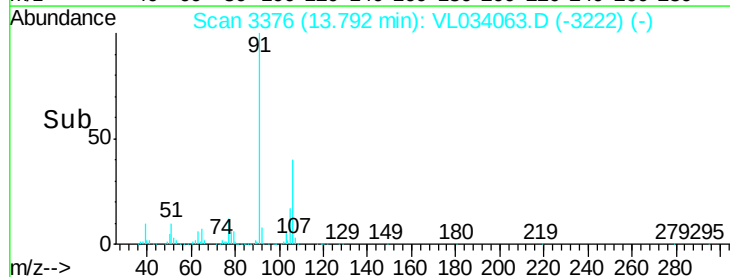
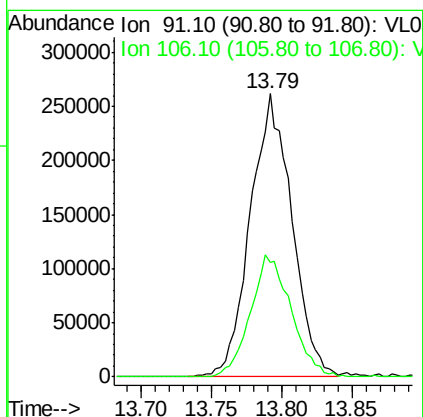
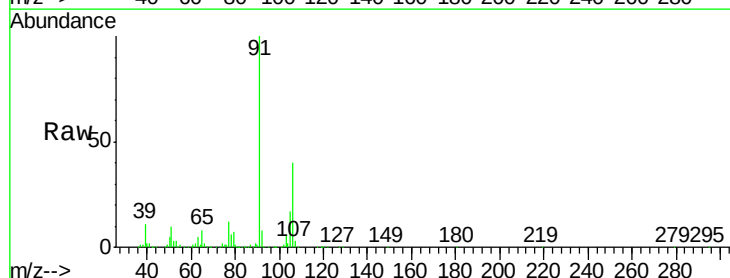
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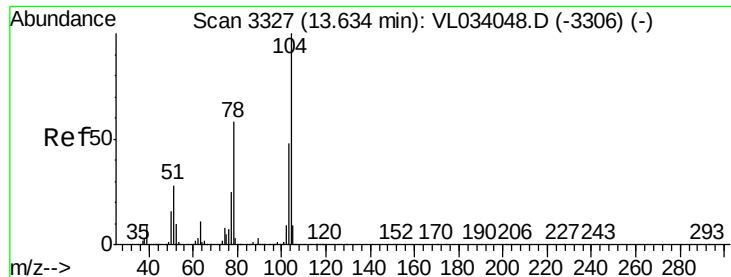
MMdadoda
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#60
o-Xylene
Concen: 1.547 ppbv
RT: 13.79 min Scan# 3376
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Tgt Ion: 91 Resp: 538948
Ion Ratio Lower Upper
91 100
106 42.2 21.2 63.6





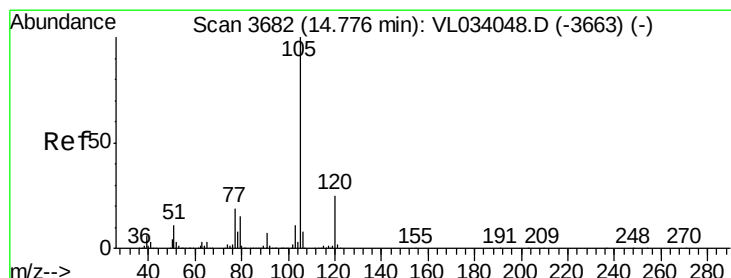
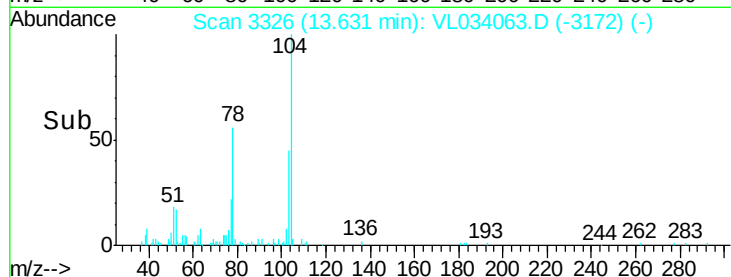
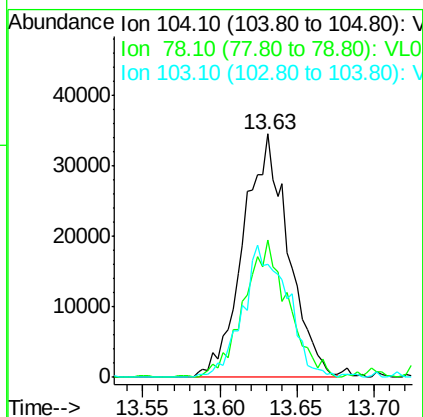
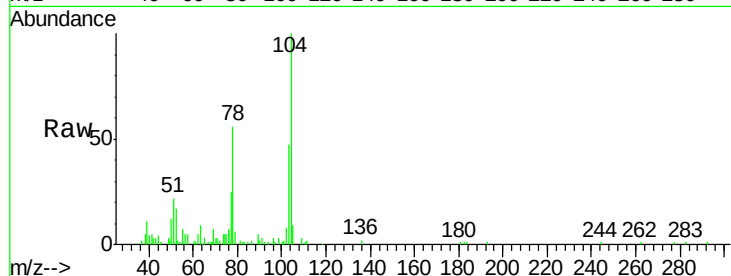
#61
Stvrene
Concen: 0.306 ppbv m
RT: 13.63 min Scan# 3326
Delta R.T. -0.00 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
SSG3DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.3	44.3	66.5
103	54.6	38.8	58.2

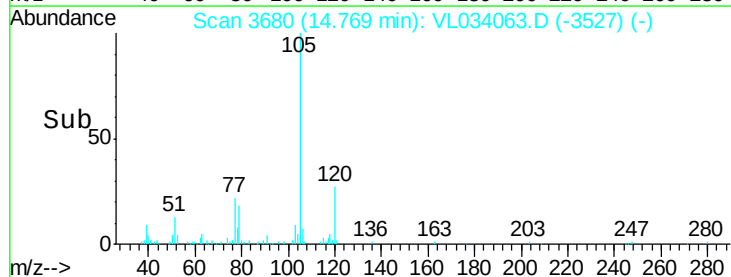
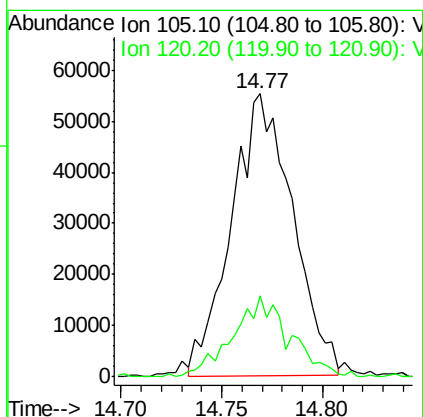
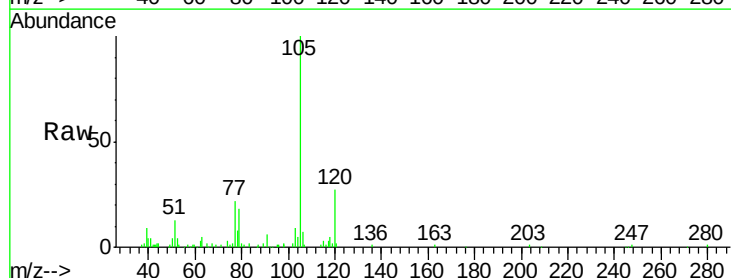
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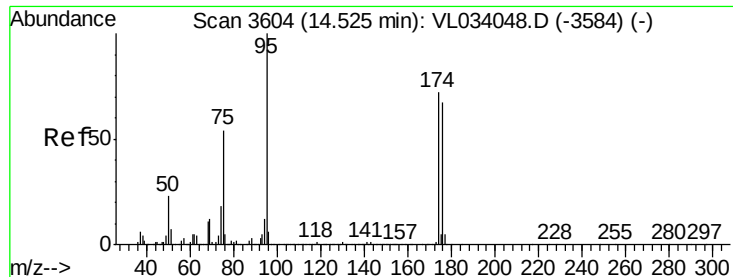
MMDadoda
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#62
Isopropylbenzene
Concen: 0.250 ppbv
RT: 14.77 min Scan# 3680
Delta R.T. -0.01 min
Lab File: VL034063.D
Acq: 30 Jul 2019 13:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	20.2	30.2





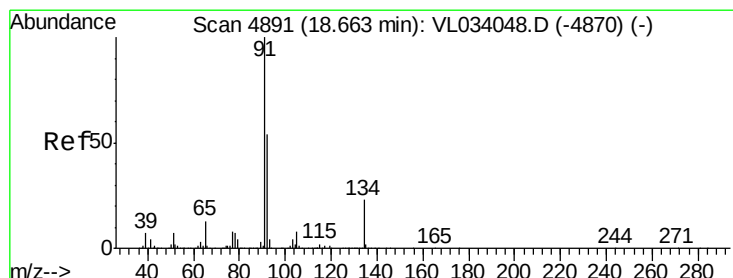
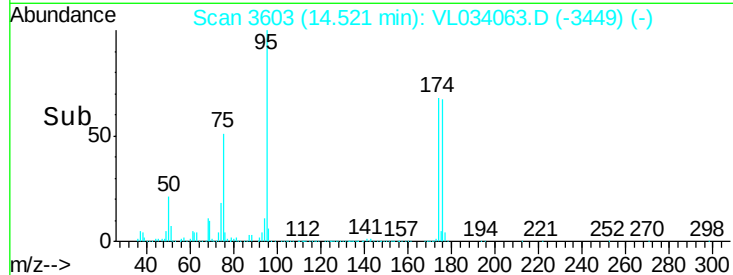
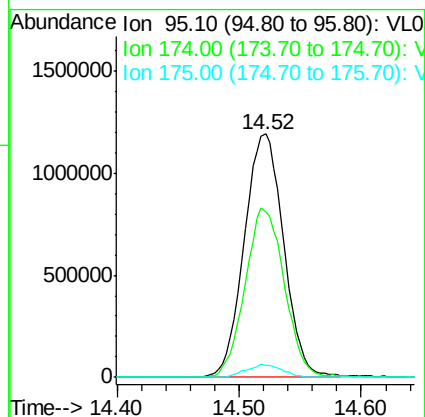
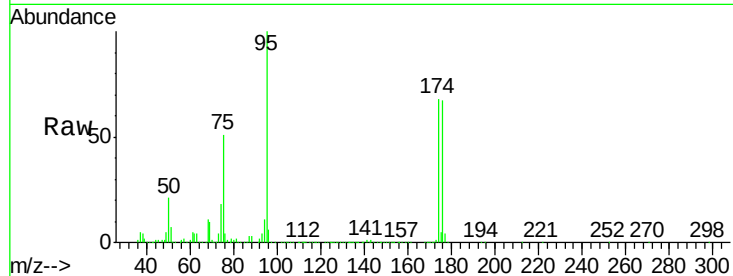
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.316 ppbv
 RT: 14.52 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VL034063.D
 Acq: 30 Jul 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG3DL

Tot Ion: 95 Resp: 2657361
 Ion Ratio Lower Upper
 95 100
 174 70.0 57.6 86.4
 175 5.0 4.1 6.1

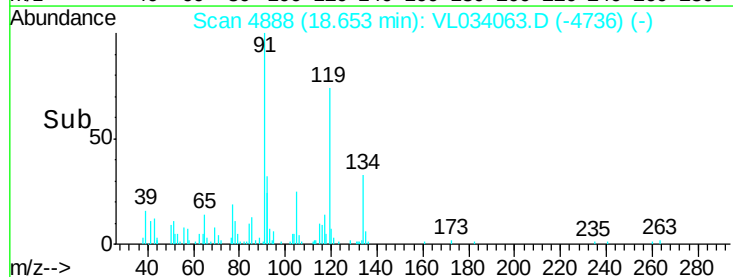
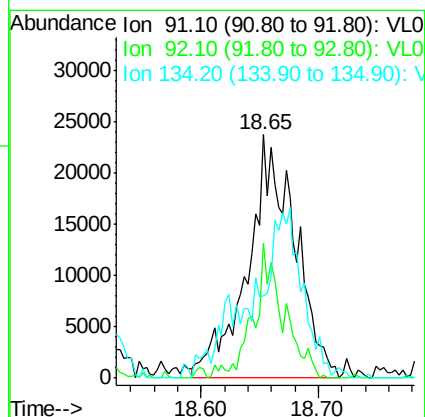
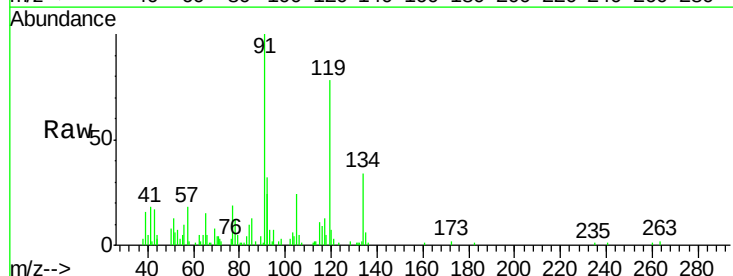
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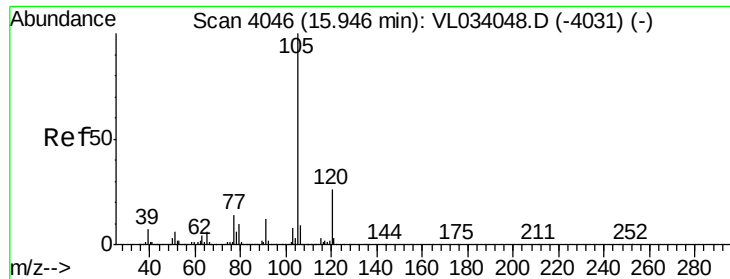
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#70
 n-Butylbenzene
 Concen: 0.125 ppbv m
 RT: 18.65 min Scan# 4888
 Delta R.T. -0.01 min
 Lab File: VL034063.D
 Acq: 30 Jul 2019 13:27

Tgt Ion: 91 Resp: 66210
 Ion Ratio Lower Upper
 91 100
 92 0.0 42.6 64.0#
 134 0.0 17.7 26.5#





#72

4-Ethyltoluene

Concen: 0.782 ppbv m

RT: 15.94 min Scan# 4044

Delta R.T. -0.01 min

Lab File: VL034063.D

Acq: 30 Jul 2019 13:27

Instrument :

MSVOA_L

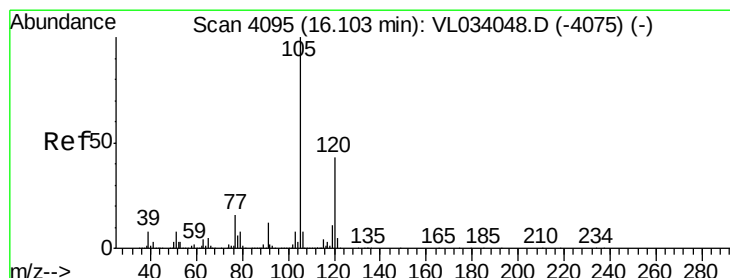
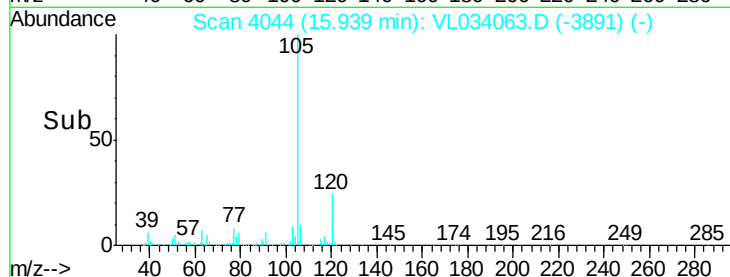
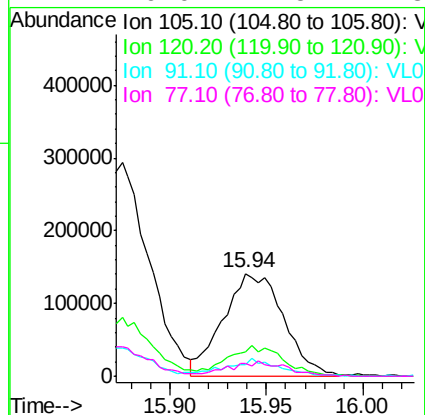
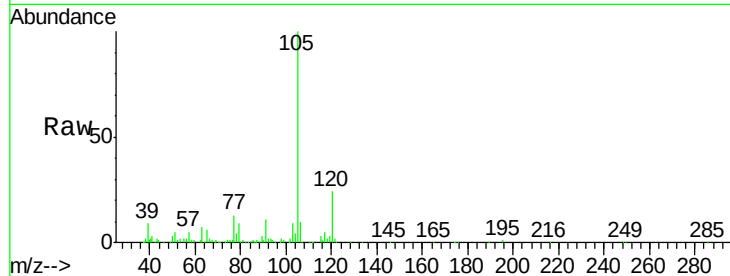
ClientSampleId :

SSG3DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	100		307945		
120	0.0	23.0	34.4#		
91	0.0	10.6	16.0#		
77	0.0	11.5	17.3#		

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#73

1,3,5-Trimethylbenzene

Concen: 0.553 ppbv m

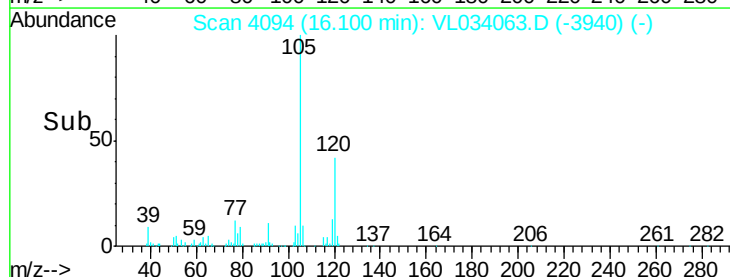
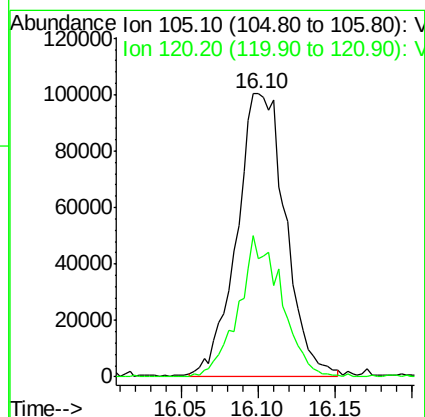
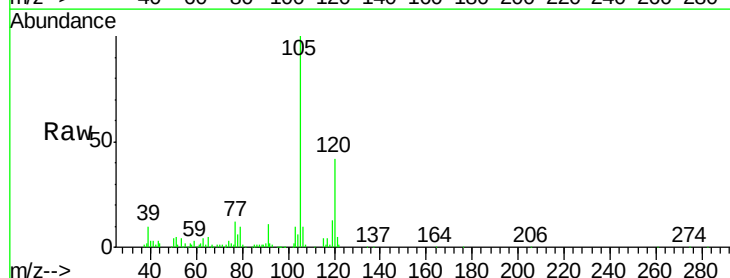
RT: 16.10 min Scan# 4094

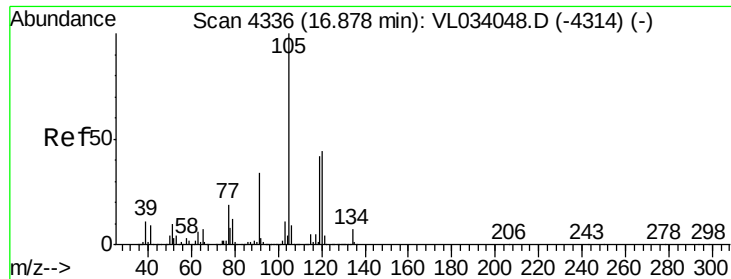
Delta R.T. -0.00 min

Lab File: VL034063.D

Acq: 30 Jul 2019 13:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		221595		
120	41.7	34.7	52.1		





#74

1,2,4-Trimethylbenzene

Concen: 2.447 ppbv m

RT: 16.86 min Scan# 4331

Delta R.T. -0.02 min

Lab File: VL034063.D

Acq: 30 Jul 2019 13:27

Instrument :

MSVOA_L

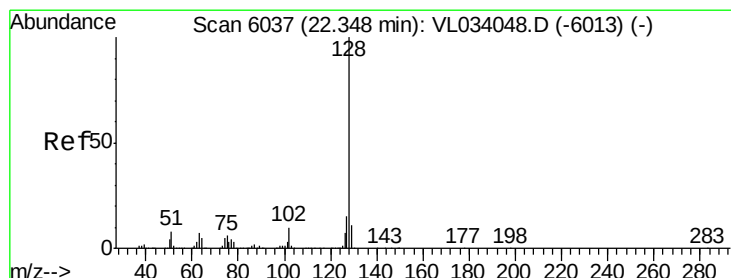
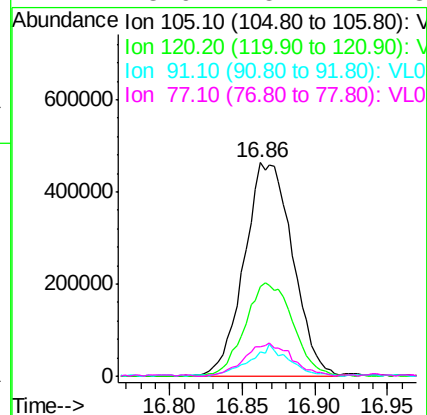
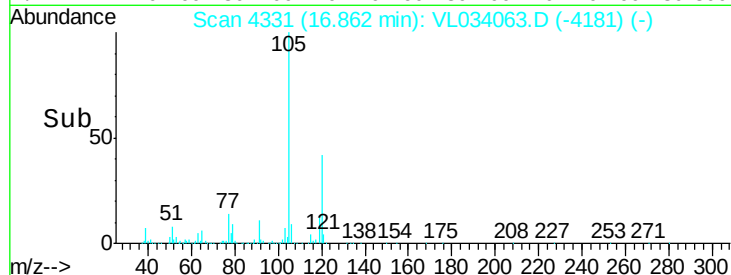
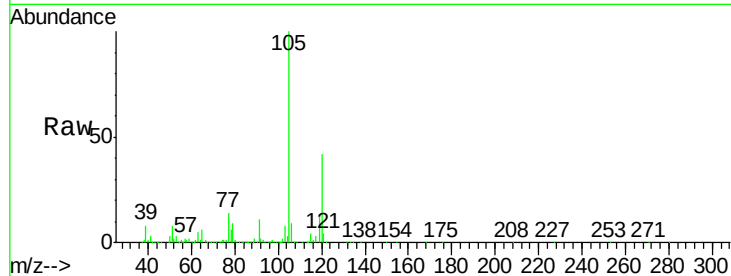
ClientSampleId :

SSG3DL

Tot Ion:	105	Resp:	1077972
Ion Ratio	Lower	Upper	
105	100		
120	42.0	35.6	53.4
91	11.2	28.0	42.0#
77	13.9	15.2	22.8#

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#79

Naphthalene

Concen: 0.178 ppbv m

RT: 22.33 min Scan# 6033

Delta R.T. -0.01 min

Lab File: VL034063.D

Acq: 30 Jul 2019 13:27

Tgt Ion:	128	Resp:	68174
Ion Ratio	Lower	Upper	
128	100		
127	10.8	11.8	17.6#
129	10.3	9.1	13.7

