

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034328.D
 Acq On : 17 Oct 2019 22:41
 Operator : SY/AP
 Sample : K5409-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:55:40 PM

Quant Time: Oct 20 19:14:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	916772	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1958862	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1998342	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.49	95	1651208	9.76	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.12	50	16193	0.255	ppbv	96
9) Propene	2.99	41	661024	13.877	ppbv	93
10) Heptane	8.16	43	39658m	0.324	ppbv	
13) Ethanol	3.61	45	12595m	1.181	ppbv	
15) Acetone	3.84	43	2073258	15.811	ppbv	98
26) Hexane	5.70	57	49411	0.524	ppbv #	35
27) Carbon Disulfide	4.56	76	49773	0.508	ppbv #	79
29) Chloroform	5.77	83	34164m	0.229	ppbv	
30) Cyclohexane	7.17	84	14616m	0.211	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	11527m	0.120	ppbv	
34) 2-Butanone	5.27	43	100828	0.630	ppbv	99
36) Benzene	6.92	78	100601	0.535	ppbv #	88
38) Trichloroethene	7.88	130	25474	0.338	ppbv	94
52) Tetrachloroethene	11.30	164	7396393	100.398	ppbv	92
53) Toluene	9.86	91	255738	1.233	ppbv	98
58) Ethyl Benzene	12.79	91	70544m	0.253	ppbv	
59) m/p-Xylene	13.04	91	210326m	0.869	ppbv	
60) o-Xylene	13.76	91	83816m	0.348	ppbv	
72) 4-Ethyltoluene	15.91	105	32261m	0.119	ppbv	
73) 1,3,5-Trimethylbenzene	16.07	105	25592m	0.095	ppbv	
74) 1,2,4-Trimethylbenzene	16.84	105	92799m	0.332	ppbv	

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

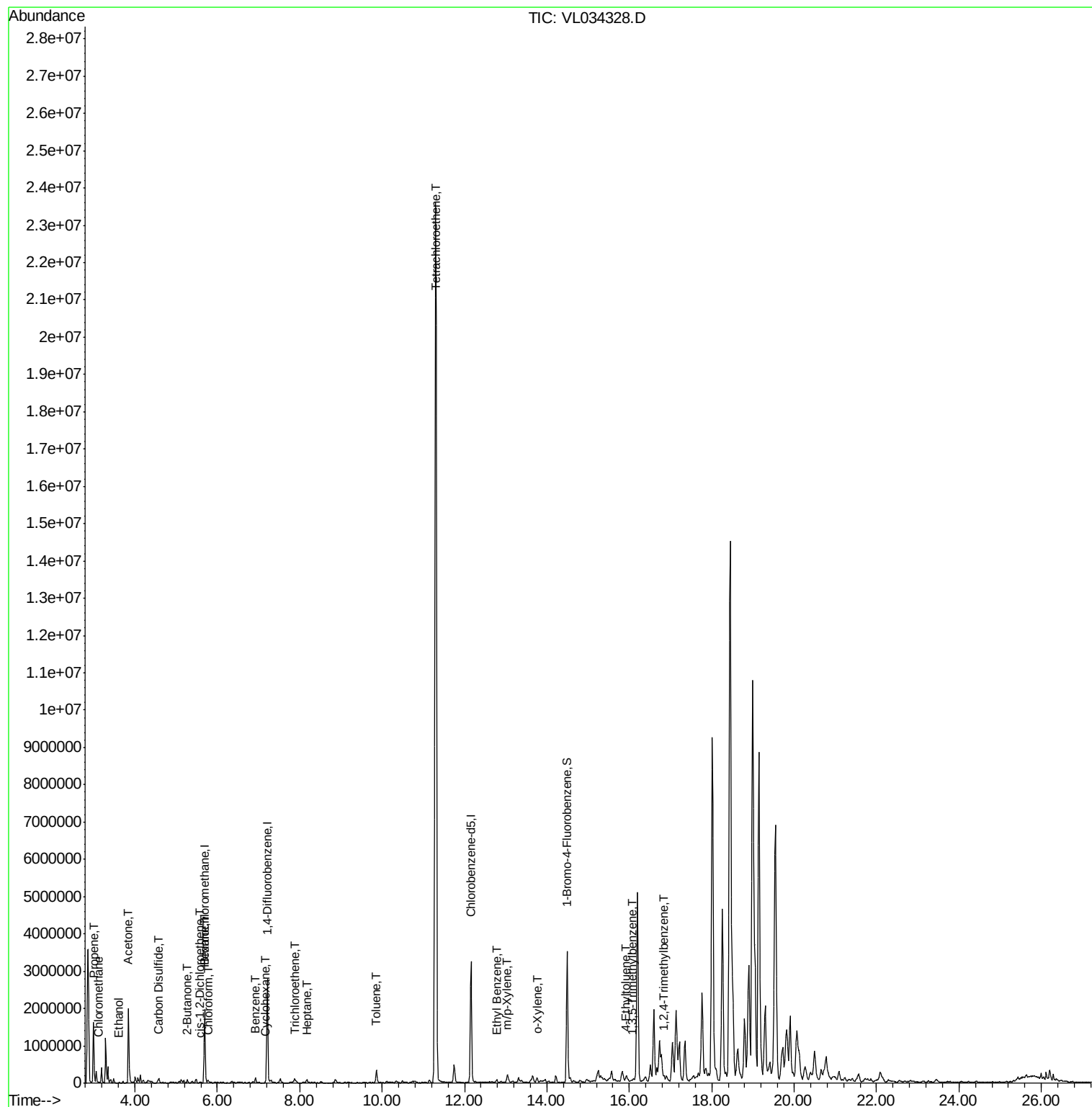
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101719\
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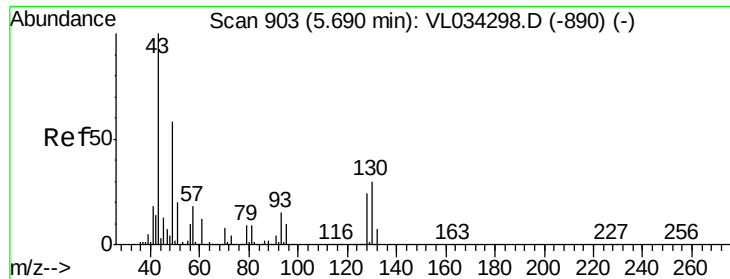
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

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Quant Time: Oct 20 19:14:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 49 Resp: 916772

Ion Ratio Lower Upper

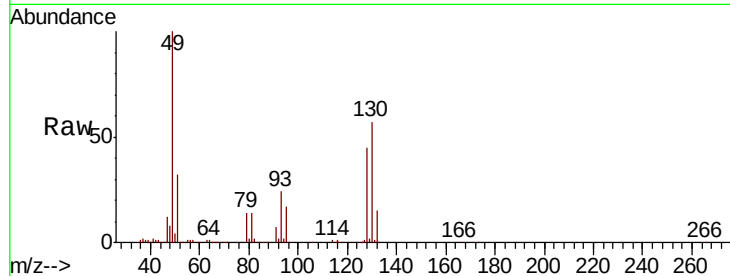
49 100

128 44.4 20.6 61.8

130 57.7 26.2 78.5

Manual Integrations
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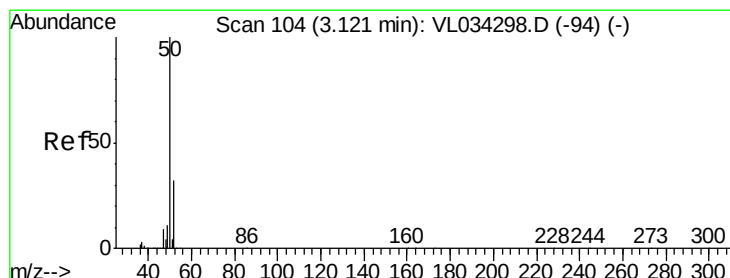
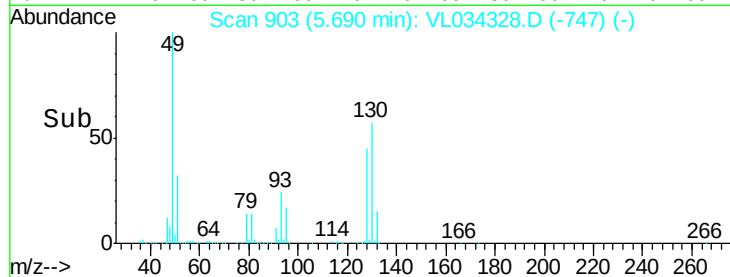
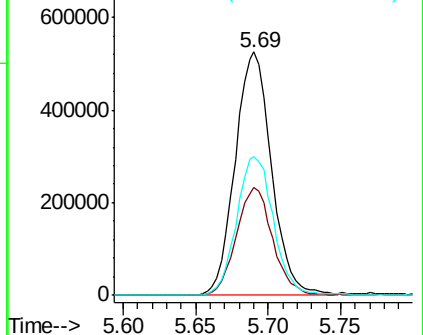
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#4

Chloromethane

Concen: 0.255 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL034328.D

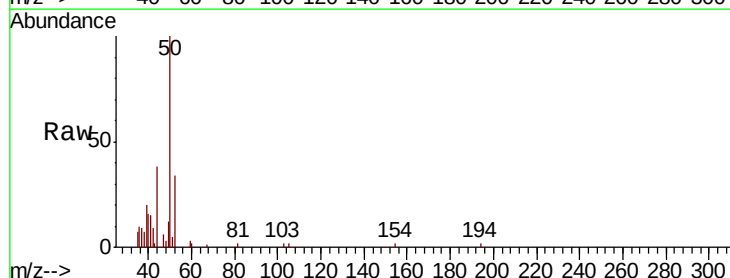
Acq: 17 Oct 2019 22:41

Tgt Ion: 50 Resp: 16193

Ion Ratio Lower Upper

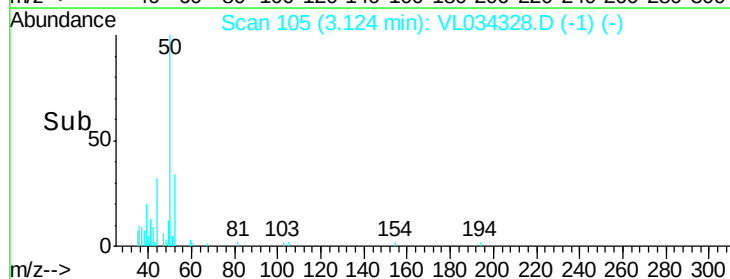
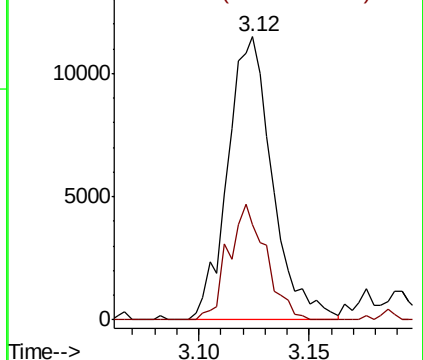
50 100

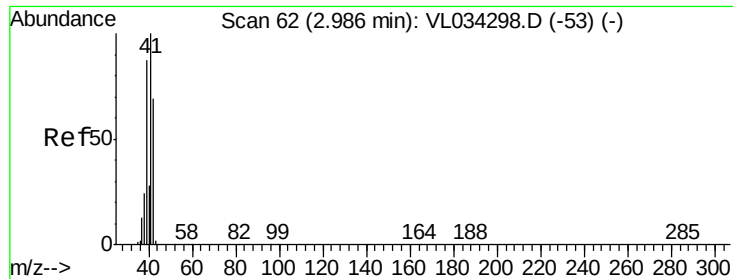
52 33.8 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 13.877 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 41 Resp: 661024

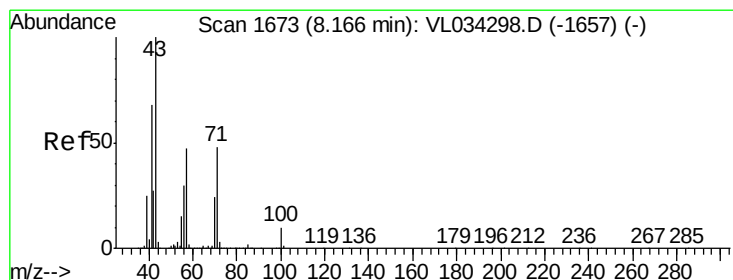
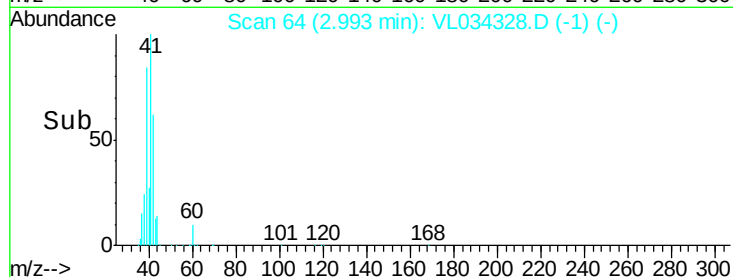
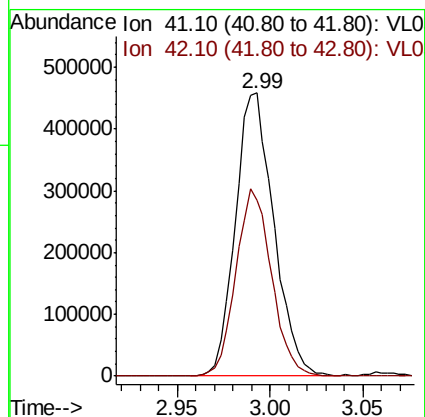
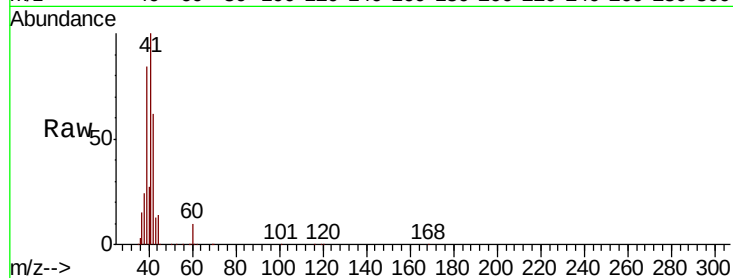
Ion Ratio Lower Upper

41 100

42 61.5 53.9 80.9

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#10

Heptane

Concen: 0.324 ppbv m

RT: 8.16 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VL034328.D

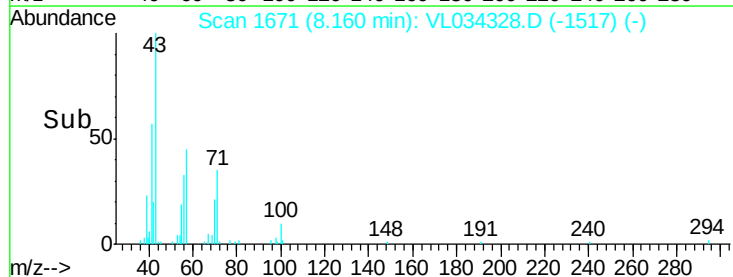
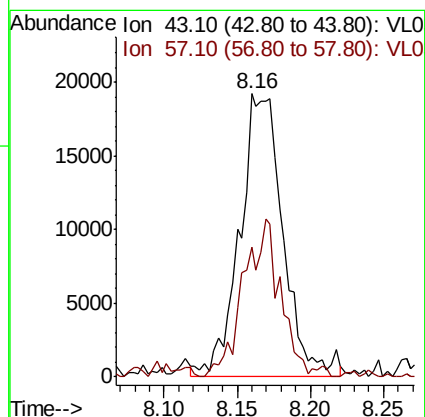
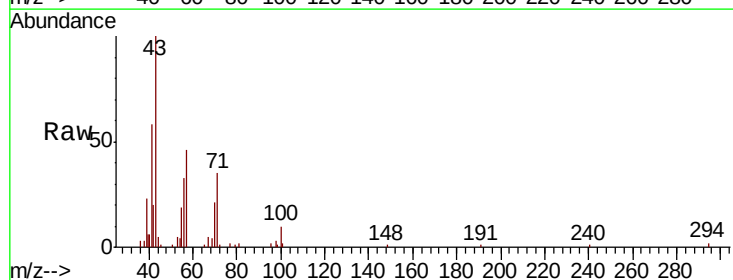
Acq: 17 Oct 2019 22:41

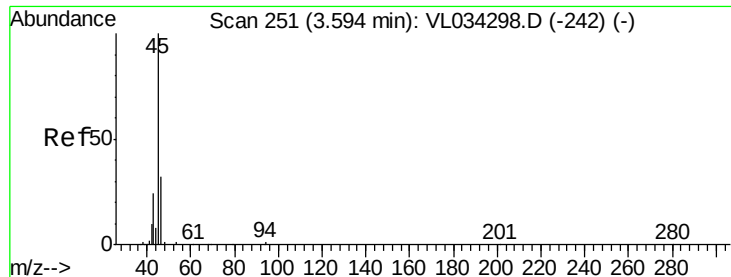
Tgt Ion: 43 Resp: 39658

Ion Ratio Lower Upper

43 100

57 49.2 39.5 59.3





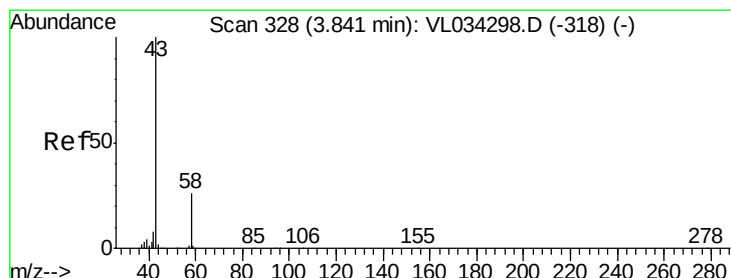
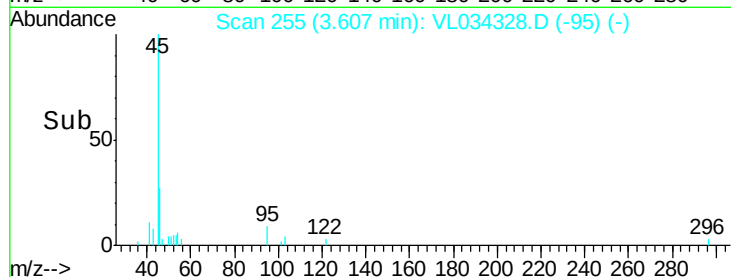
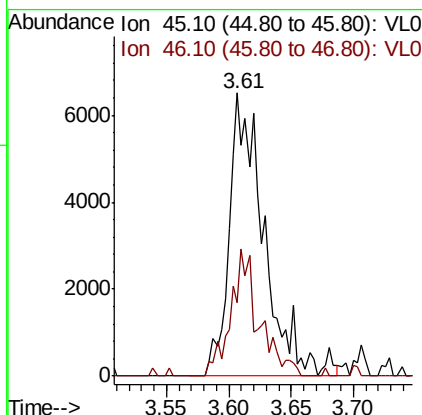
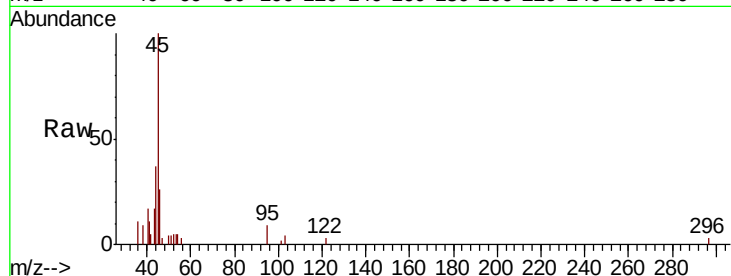
#13
Ethanol
Concen: 1.181 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Instrument :
MSVOA_L
ClientSampled :
SV2DL

Tot Ion	45	46	Ratio	Lower	Upper
12595	100	36.1		15.8	63.2

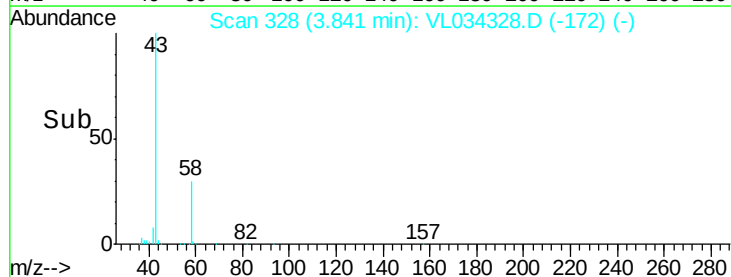
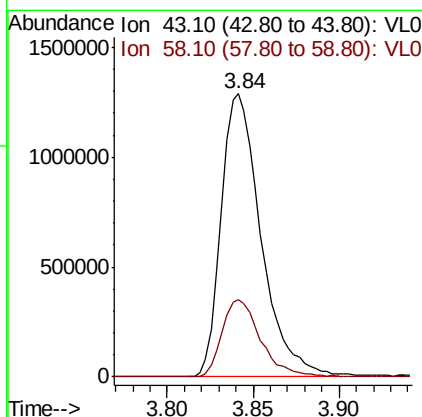
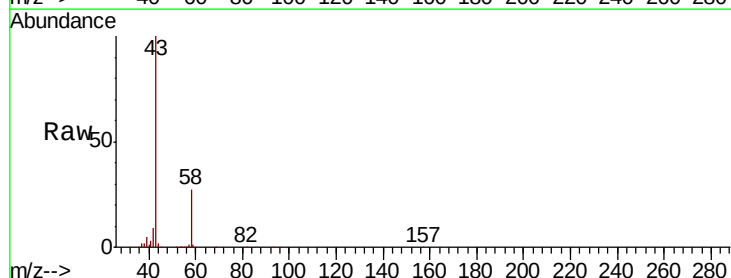
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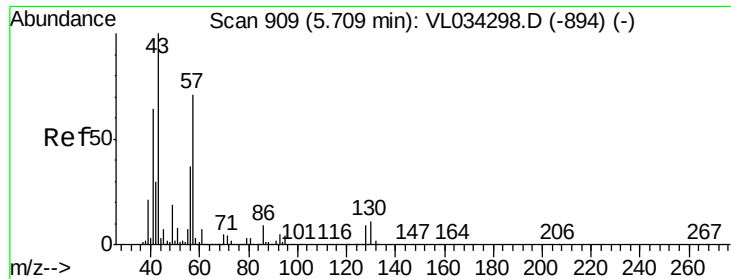
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#15
Acetone
Concen: 15.811 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion	43	58	Ratio	Lower	Upper
2073258	100	26.7		20.4	30.6





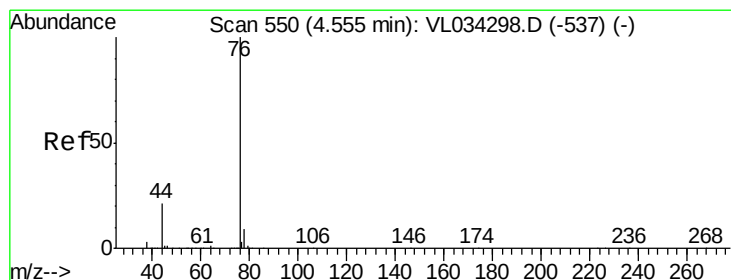
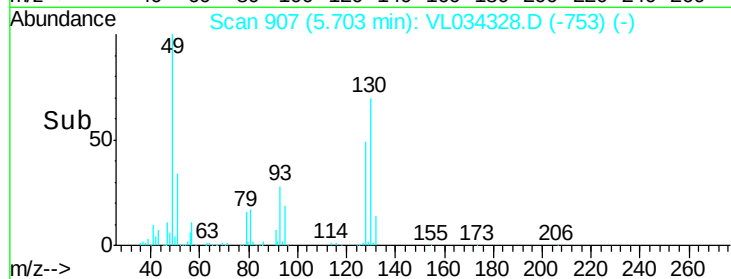
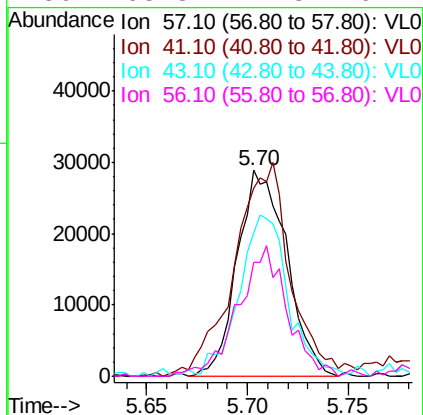
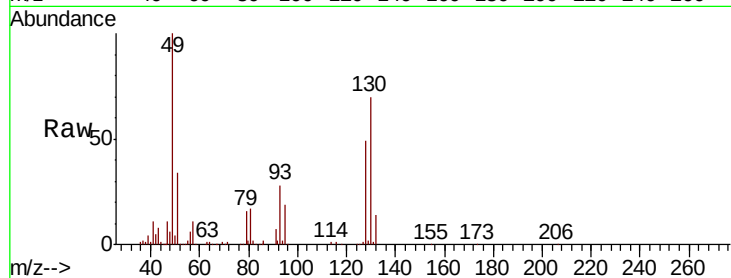
#26
Hexane
Concen: 0.524 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Instrument :
MSVOA_L
ClientSampled :
SV2DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	121.0	76.5	114.7#
43	79.6	188.5	282.7#
56	63.8	42.8	64.2

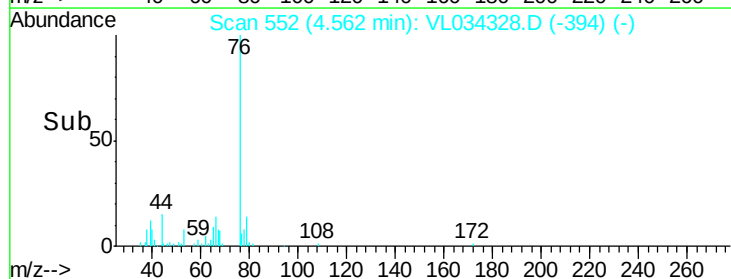
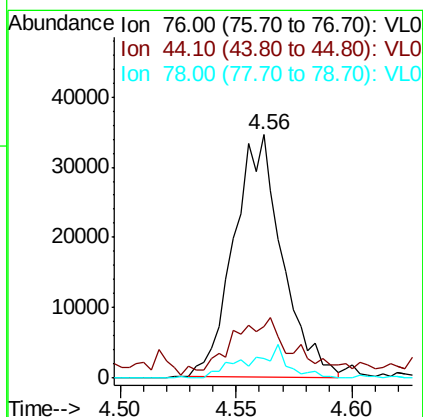
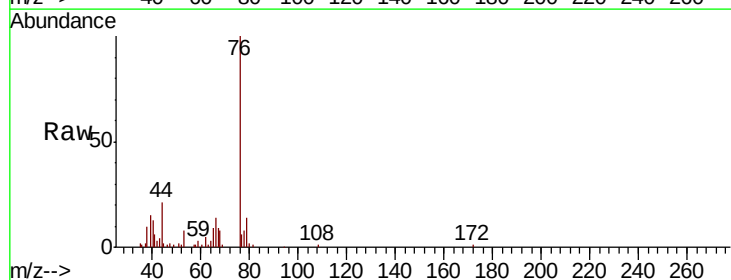
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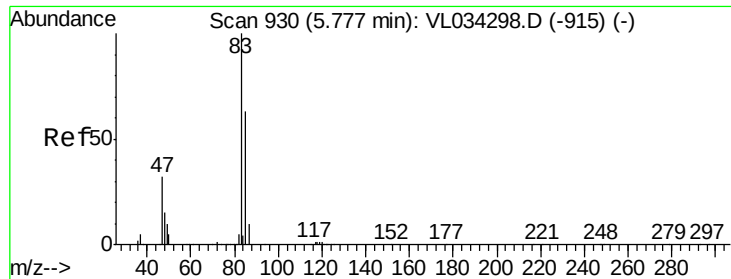
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#27
Carbon Disulfide
Concen: 0.508 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.01 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion	Ratio	Lower	Upper
76	100		
44	34.8	17.3	25.9#
78	12.1	7.8	11.6#





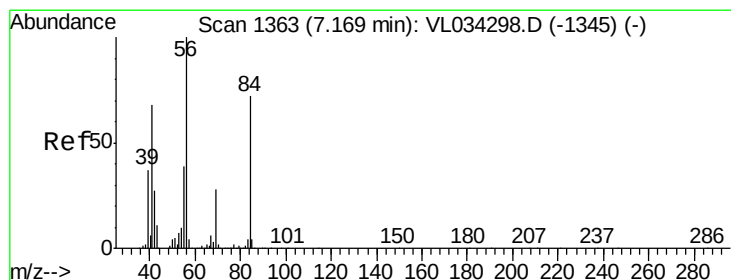
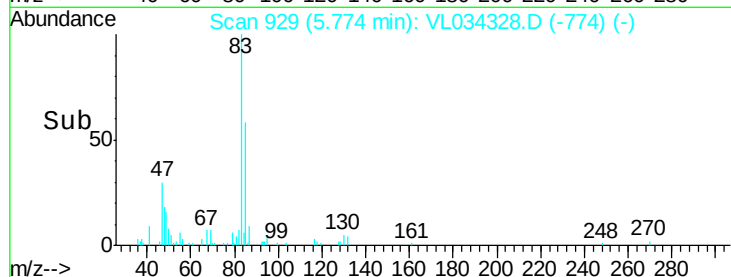
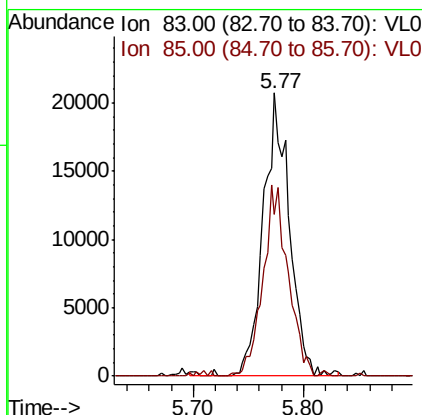
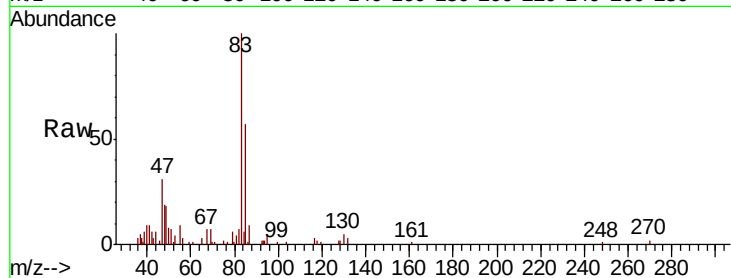
#29
Chloroform
Concen: 0.229 ppbv m
RT: 5.77 min Scan# 929
Delta R.T. -0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Instrument :
MSVOA_L
ClientSampleID :
SV2DL

Tot Ion: 83 Resp: 34164
Ion Ratio Lower Upper
83 100
85 57.0 50.5 75.7

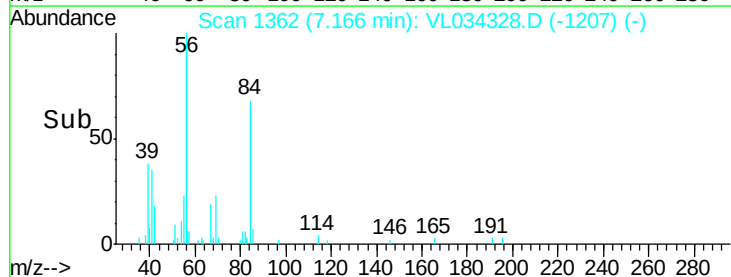
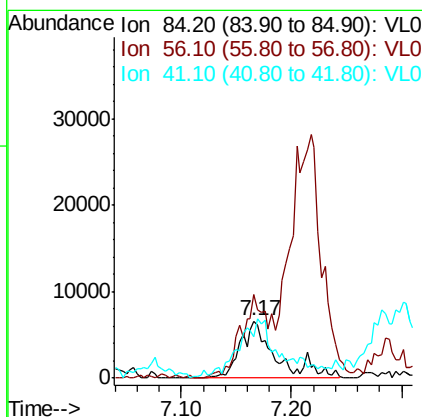
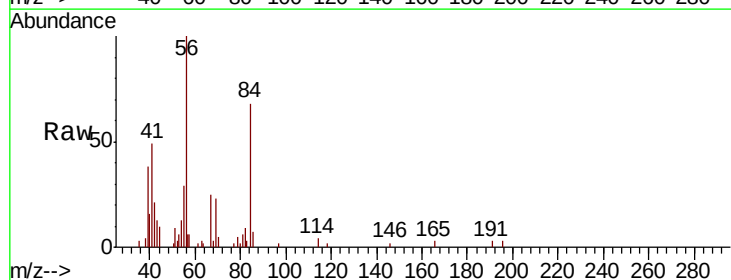
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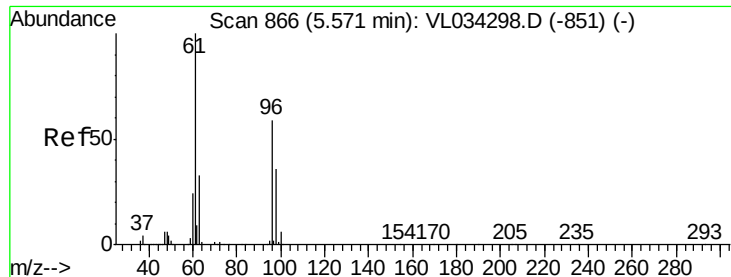
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#30
Cyclohexane
Concen: 0.211 ppbv m
RT: 7.17 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion: 84 Resp: 14616
Ion Ratio Lower Upper
84 100
56 0.0 119.4 179.0#
41 130.5 78.7 118.1#





#31

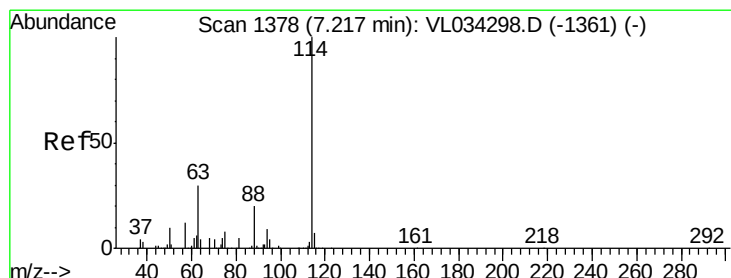
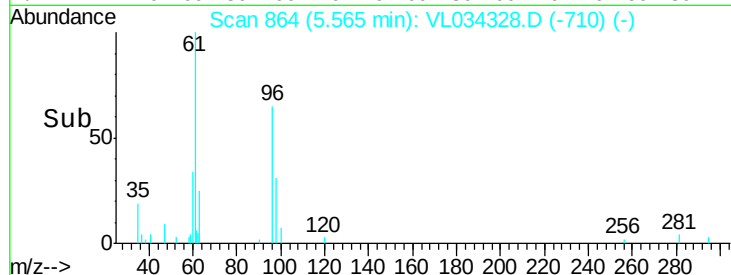
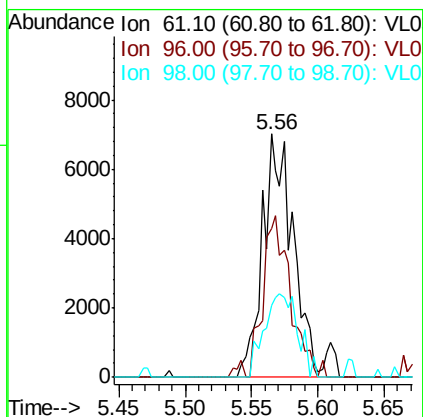
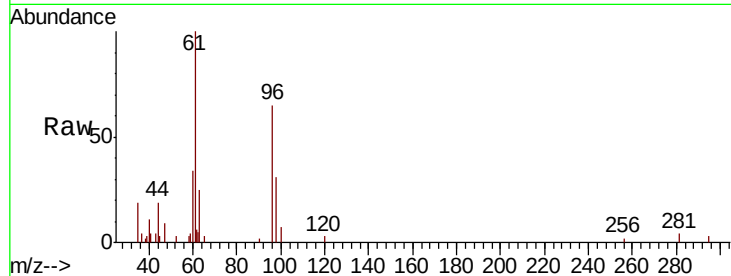
cis-1,2-Dichloroethene
 Concen: 0.120 ppbv m
 RT: 5.56 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

Instrument :
 MSVOA_L
 ClientSampleID :
 SV2DL

Tot Ion	61	Resp:	11527
Ion Ratio	Lower	Upper	
61	100		
96	64.8	47.5	71.3
98	31.4	28.8	43.2

Manual Integrations
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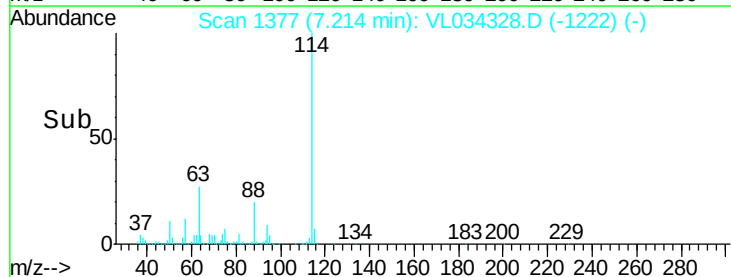
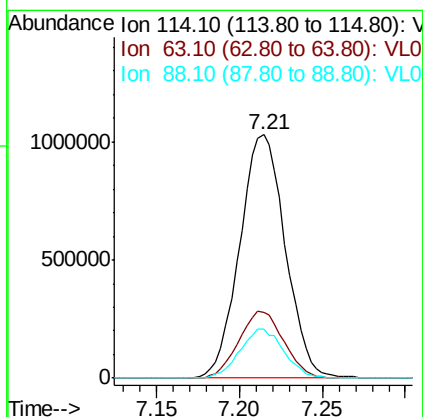
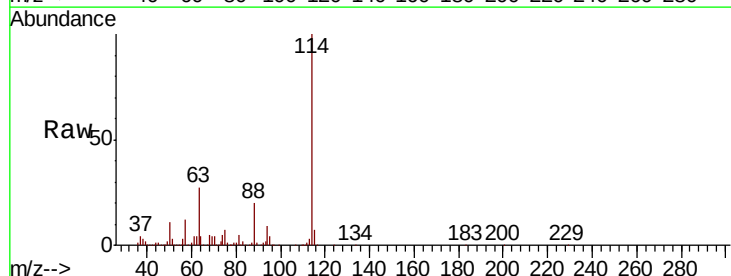
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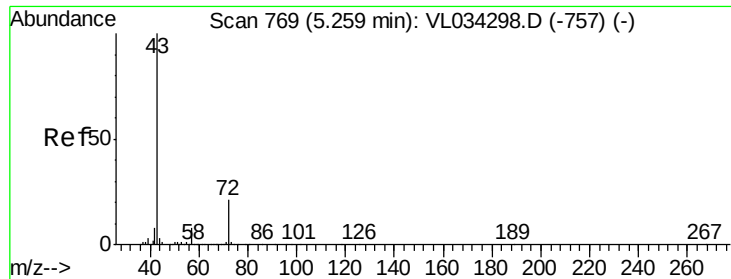


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

Tgt Ion	114	Resp:	1958862
Ion Ratio	Lower	Upper	
114	100		
63	27.4	25.2	37.8
88	19.6	16.0	24.0





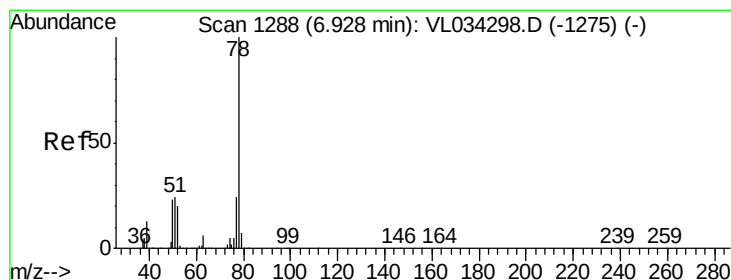
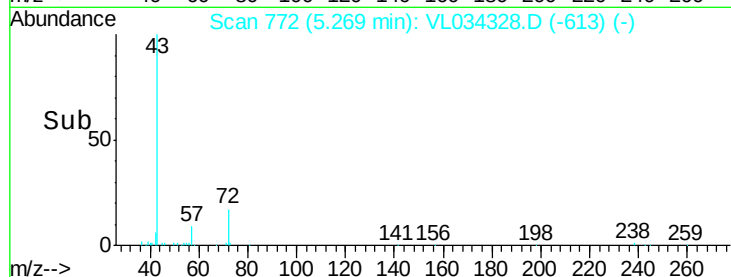
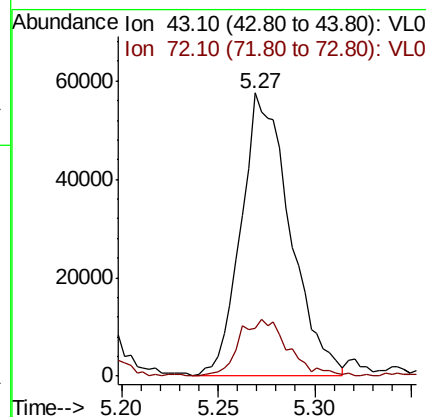
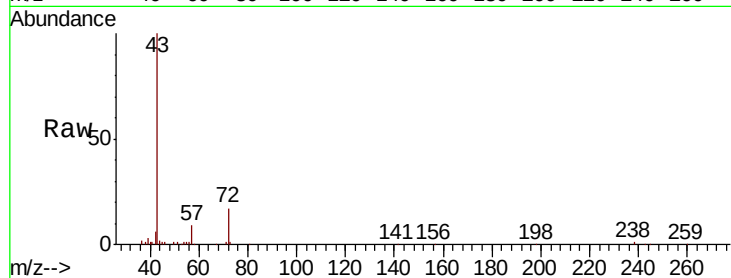
#34
2-Butanone
Concen: 0.630 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.01 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.3	24.5

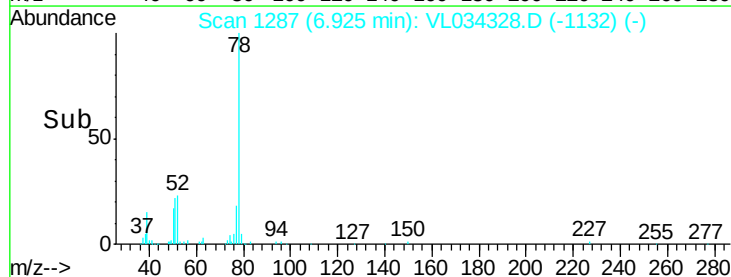
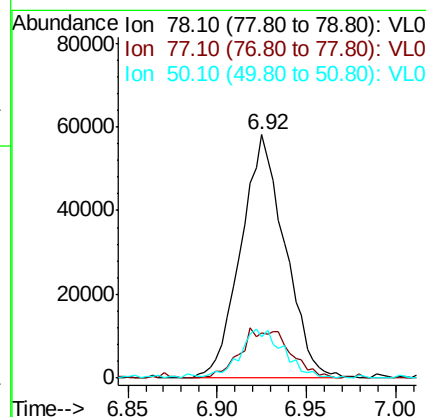
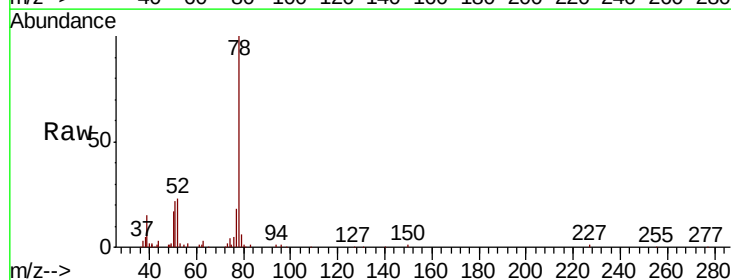
Manual Integrations
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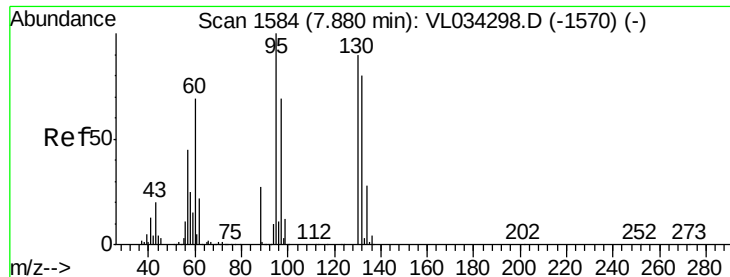
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#36
Benzene
Concen: 0.535 ppbv
RT: 6.92 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.4	19.0	28.4#
50	16.6	18.6	27.8#





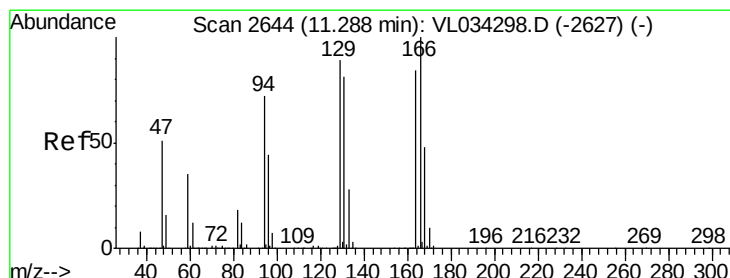
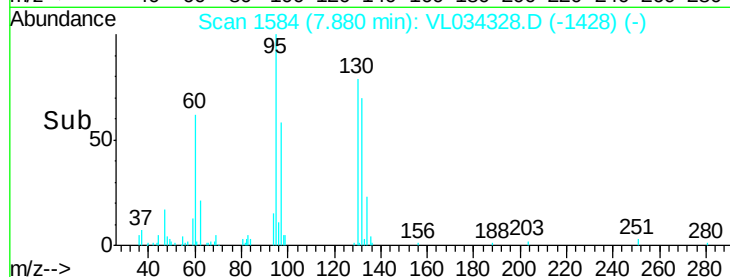
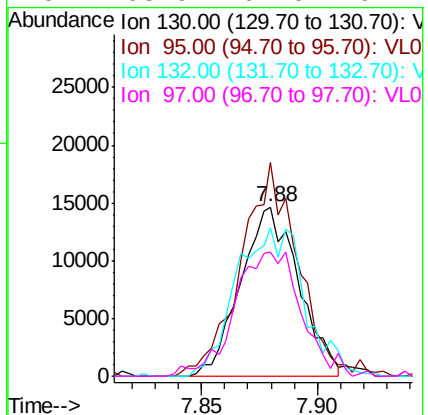
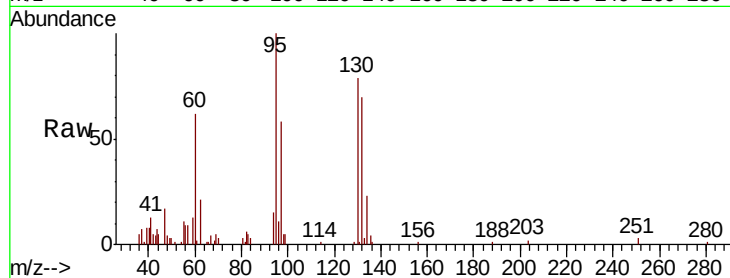
#38
 Trichloroethene
 Concen: 0.338 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

Instrument :
 MSVOA_L
 ClientSampleID :
 SV2DL

Tot Ion	Ratio	Lower	Upper
130	100		
95	119.2	88.6	132.8
132	87.8	71.2	106.8
97	68.9	61.0	91.4

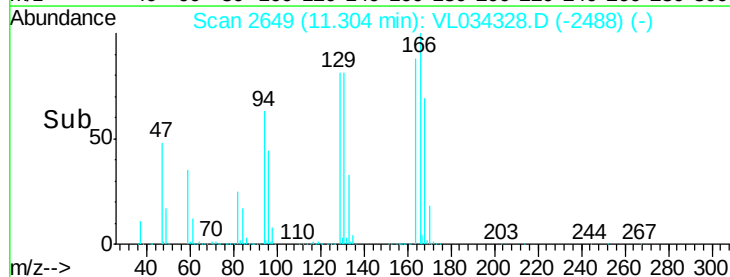
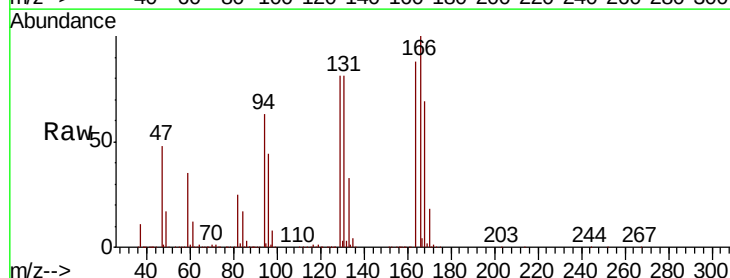
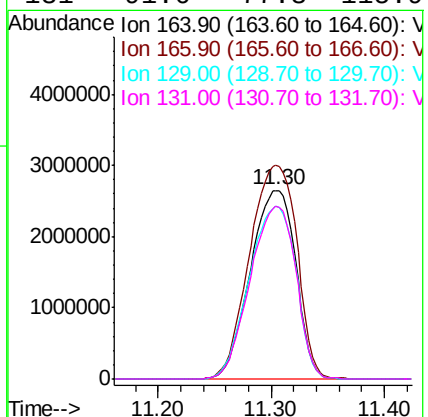
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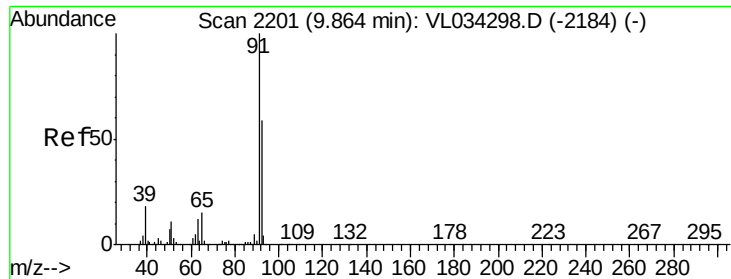
MMDadoda
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#52
 Tetrachloroethene
 Concen: 100.398 ppbv
 RT: 11.30 min Scan# 2649
 Delta R.T. 0.02 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.3	95.3	142.9
129	91.8	84.5	126.7
131	91.6	77.3	115.9





#53

Toluene

Concen: 1.233 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 91 Resp: 255738

Ion Ratio Lower Upper

91 100

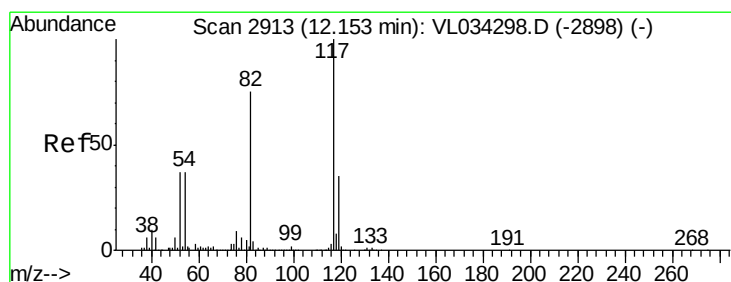
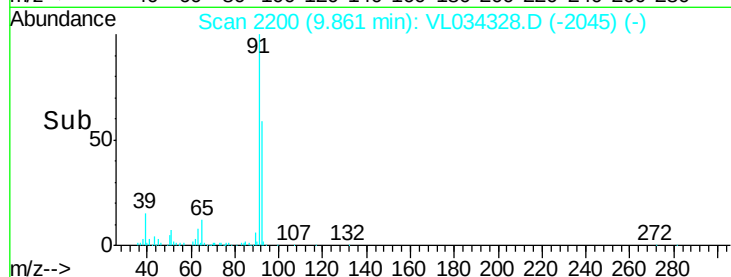
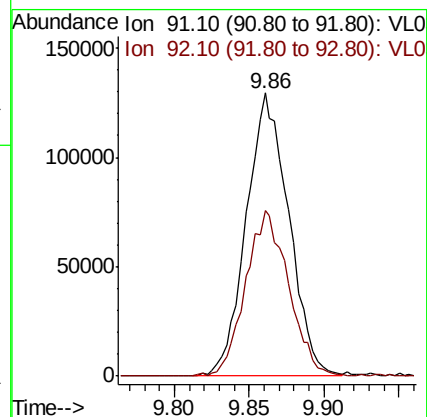
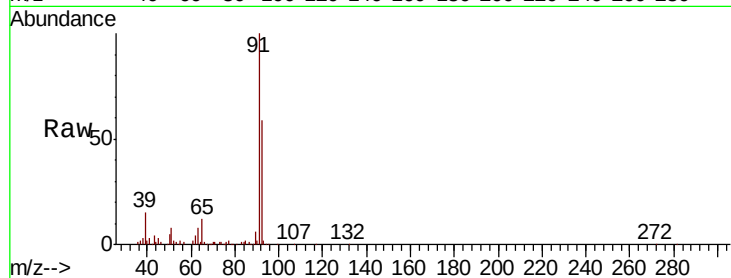
92 59.2 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

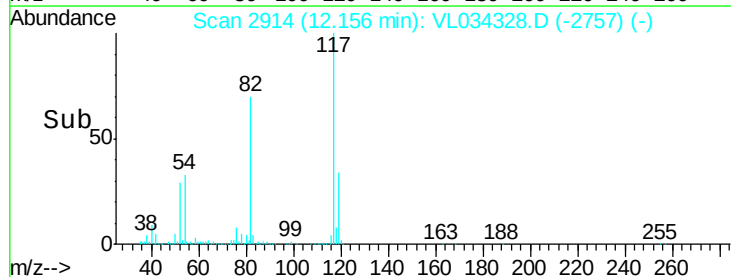
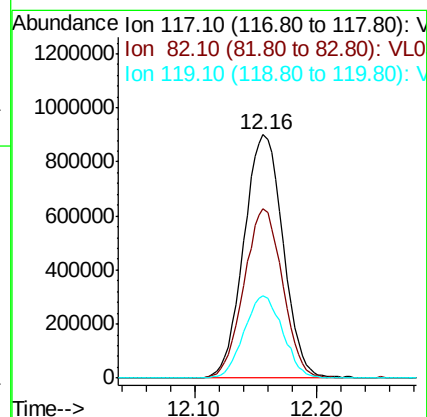
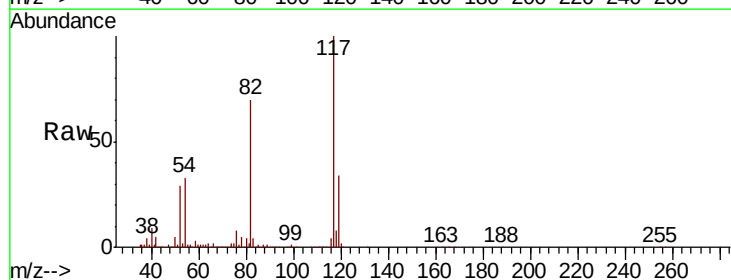
Tgt Ion: 117 Resp: 1998342

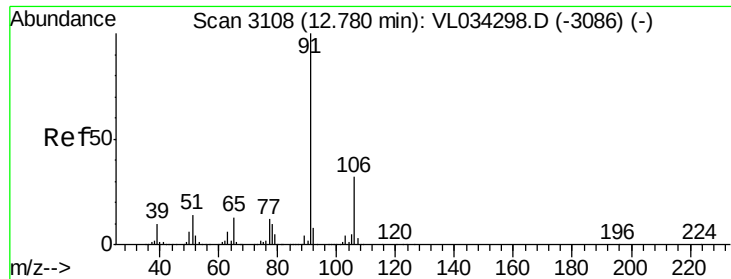
Ion Ratio Lower Upper

117 100

82 68.6 55.5 83.3

119 33.5 26.5 39.7





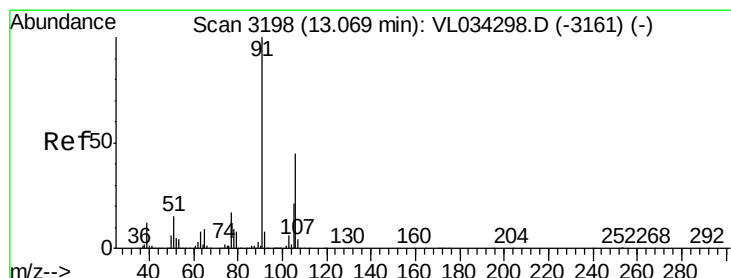
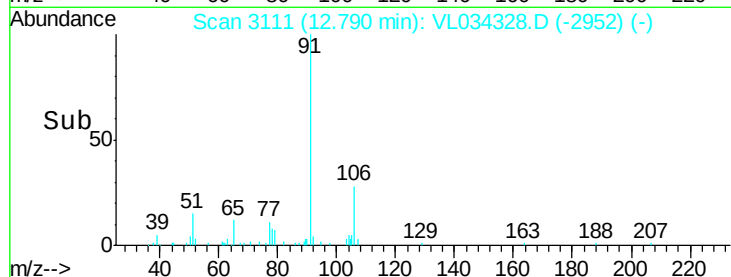
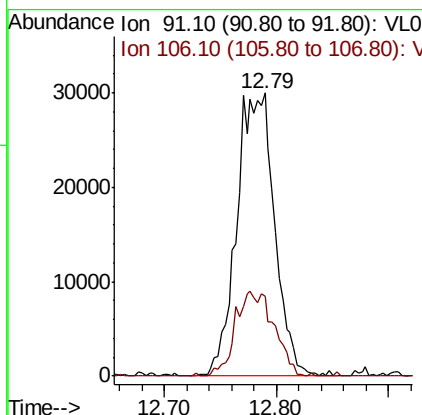
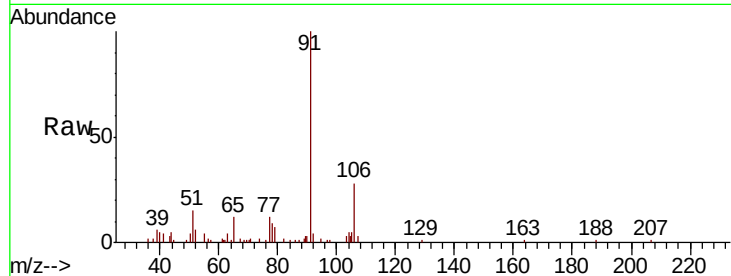
#58
Ethyl Benzene
Concen: 0.253 ppbv m
RT: 12.79 min Scan# 3111
Delta R.T. 0.01 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion: 91 Resp: 70544
Ion Ratio Lower Upper
91 100
106 28.2 25.3 37.9

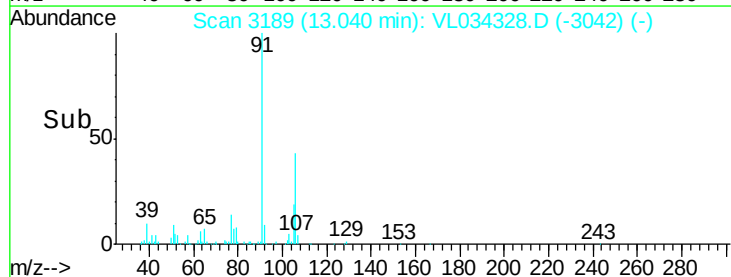
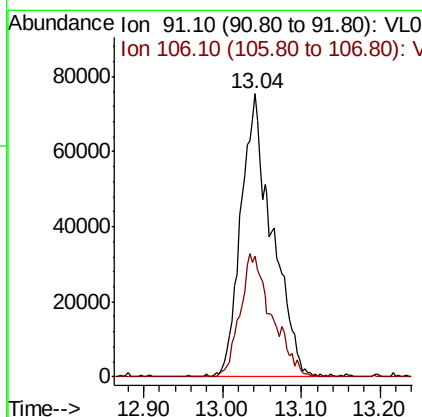
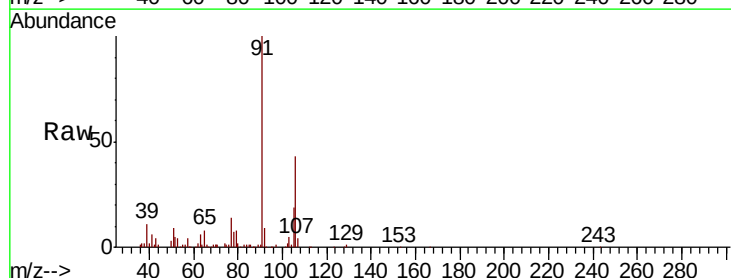
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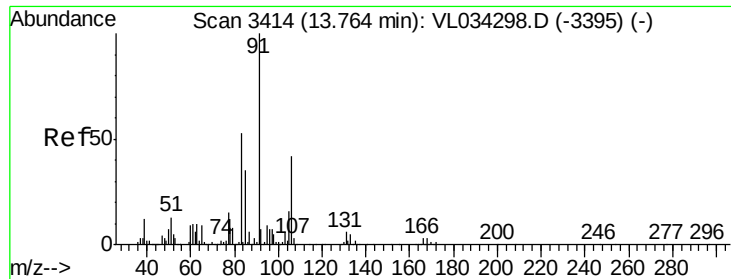
MMDadoda
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#59
m/p-Xylene
Concen: 0.869 ppbv m
RT: 13.04 min Scan# 3189
Delta R.T. -0.03 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion: 91 Resp: 210326
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





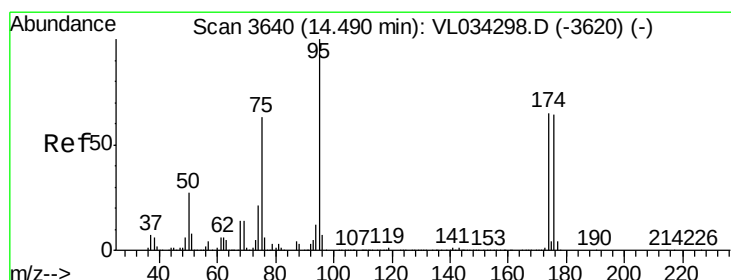
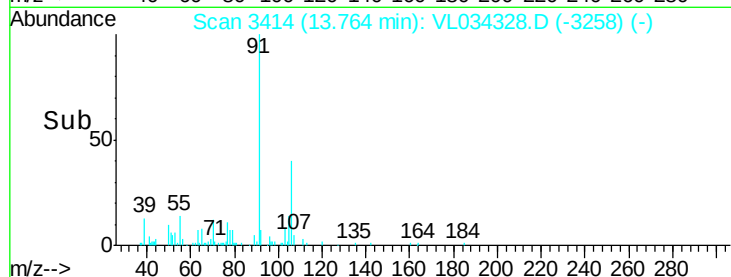
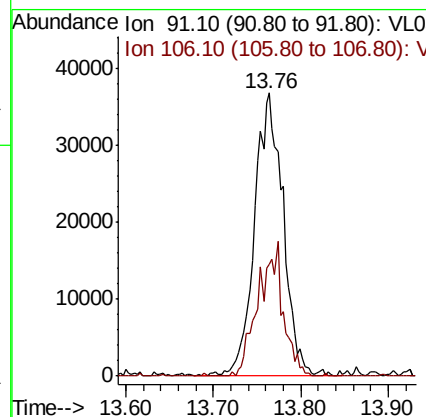
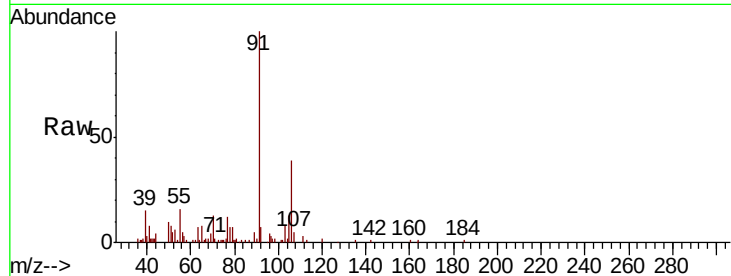
#60
o-Xylene
Concen: 0.348 ppbv m
RT: 13.76 min Scan# 3414
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Instrument :
MSVOA_L
ClientSampled :
SV2DL

Tot Ion: 91 Resp: 83816
Ion Ratio Lower Upper
91 100
106 41.0 21.6 64.6

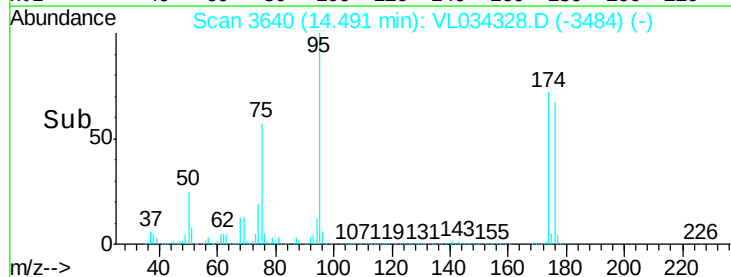
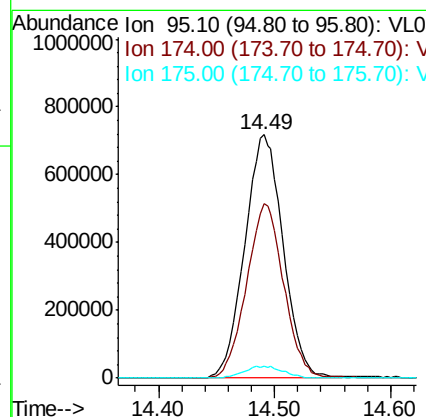
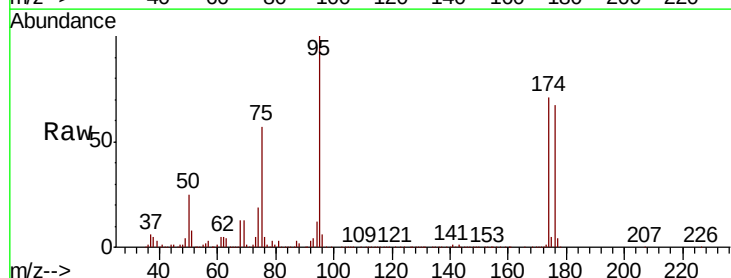
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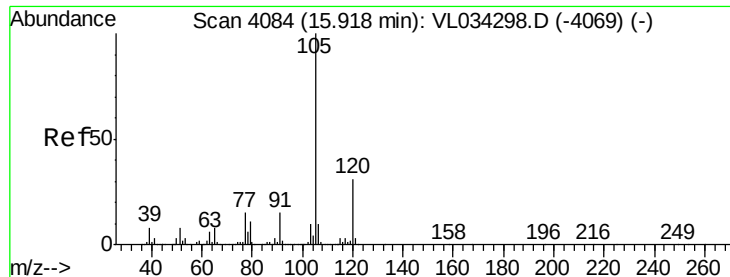
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.756 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion: 95 Resp: 1651208
Ion Ratio Lower Upper
95 100
174 69.6 52.6 78.8
175 5.1 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.119 ppbv m

RT: 15.91 min Scan# 4083

Delta R.T. -0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

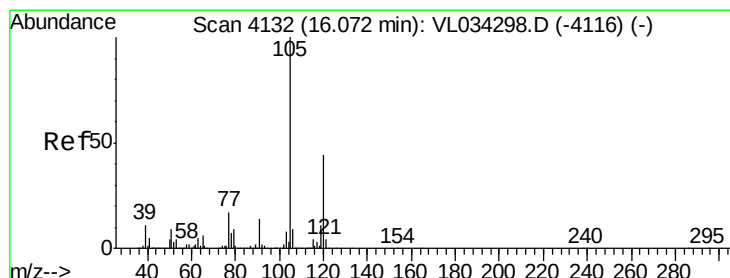
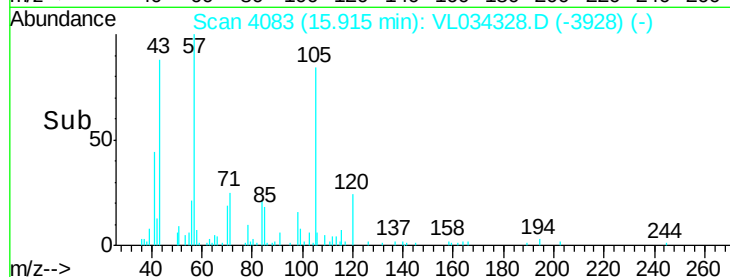
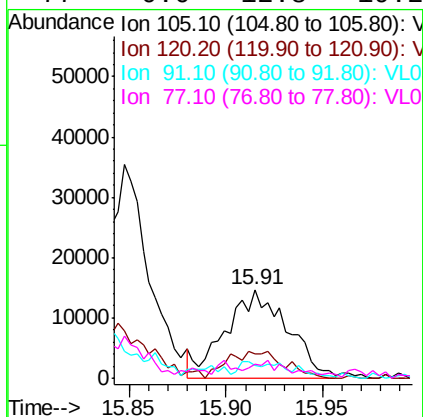
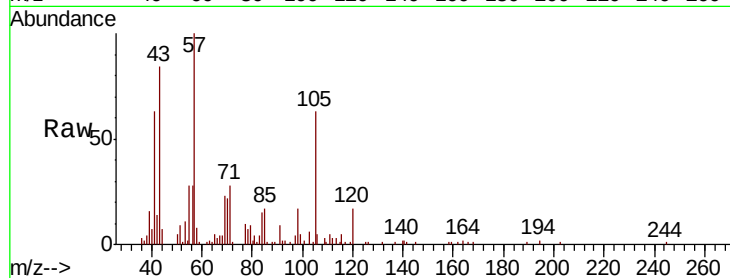
ClientSampled :

SV2DL

Tot Ion:	105	Resp:	32261
Ion Ratio	Lower	Upper	
105	100		
120	30.3	23.8	35.8
91	0.0	11.2	16.8#
77	0.0	12.8	19.2#

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#73

1,3,5-Trimethylbenzene

Concen: 0.095 ppbv m

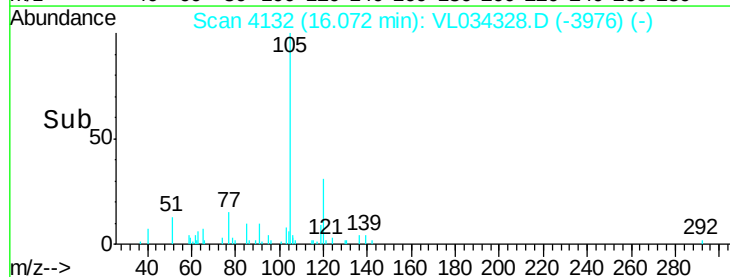
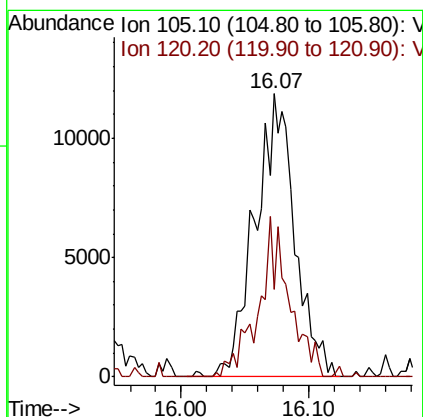
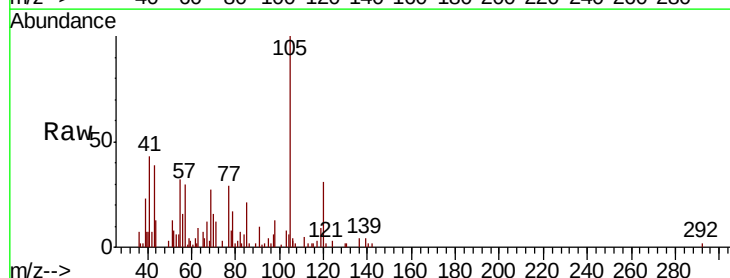
RT: 16.07 min Scan# 4132

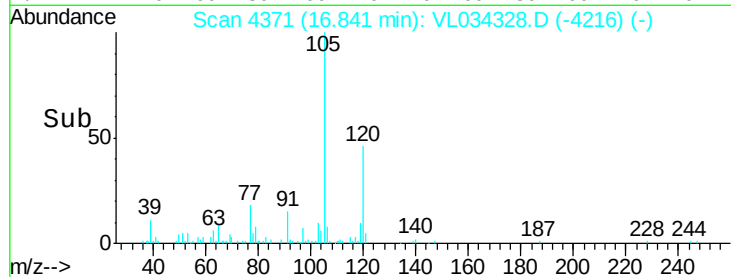
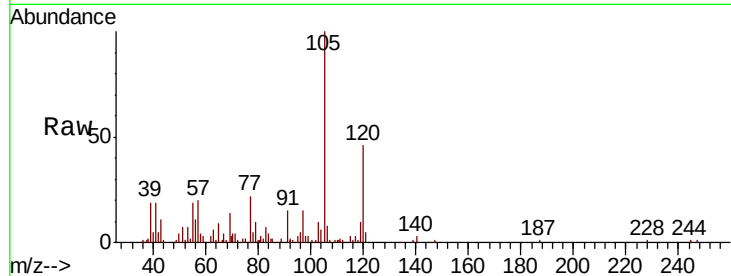
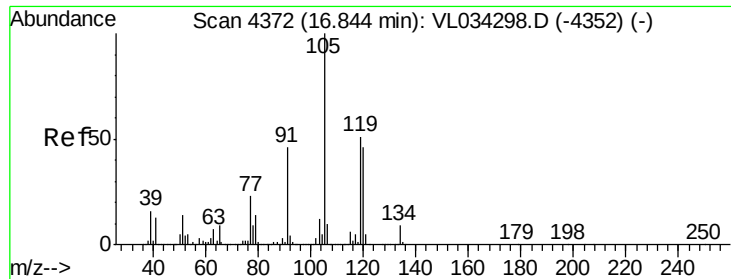
Delta R.T. 0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Tgt Ion:	105	Resp:	25592
Ion Ratio	Lower	Upper	
105	100		
120	30.8	35.2	52.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.332 ppbv m
 RT: 16.84 min Scan# 4371
 Delta R.T. -0.00 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tot Ion:	105	Resp:	92799
Ion Ratio	Lower	Upper	
105	100		
120	46.0	37.0	55.6
91	14.7	38.2	57.2#
77	22.2	19.0	28.4

Manual Integrations
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