

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034633.D
 Acq On : 18 Feb 2020 21:00
 Operator : SY/AP
 Sample : L1532-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L-SS

Manual Integrations
 APPROVED

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 2/21/2020 3:26:09 PM

Quant Time: Feb 20 17:07:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	934483	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1886105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1827252	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1575455	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	48190	0.234	ppbv	# 87
3) Chlorodifluoromethane	2.95	51	40500m	0.359	ppbv	
9) Propene	2.98	41	23043m	0.524	ppbv	
11) Trichlorofluoromethane	3.92	101	44613	0.239	ppbv	91
13) Ethanol	3.58	45	34294	2.912	ppbv	99
15) Acetone	3.83	43	281627	2.051	ppbv	98
19) Isopropyl Alcohol	3.96	45	30124m	0.376	ppbv	
20) Methylene Chloride	4.32	84	96352	1.842	ppbv	97
26) Hexane	5.67	57	37656m	0.404	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	684886	7.078	ppbv	98
34) 2-Butanone	5.24	43	25381m	0.185	ppbv	
35) Carbon Tetrachloride	7.01	117	11145m	0.062	ppbv	
36) Benzene	6.89	78	19770m	0.118	ppbv	
38) Trichloroethene	7.84	130	44588	0.631	ppbv	92
52) Tetrachloroethene	11.26	164	6784056	100.683	ppbv	91
53) Toluene	9.83	91	25676m	0.139	ppbv	

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

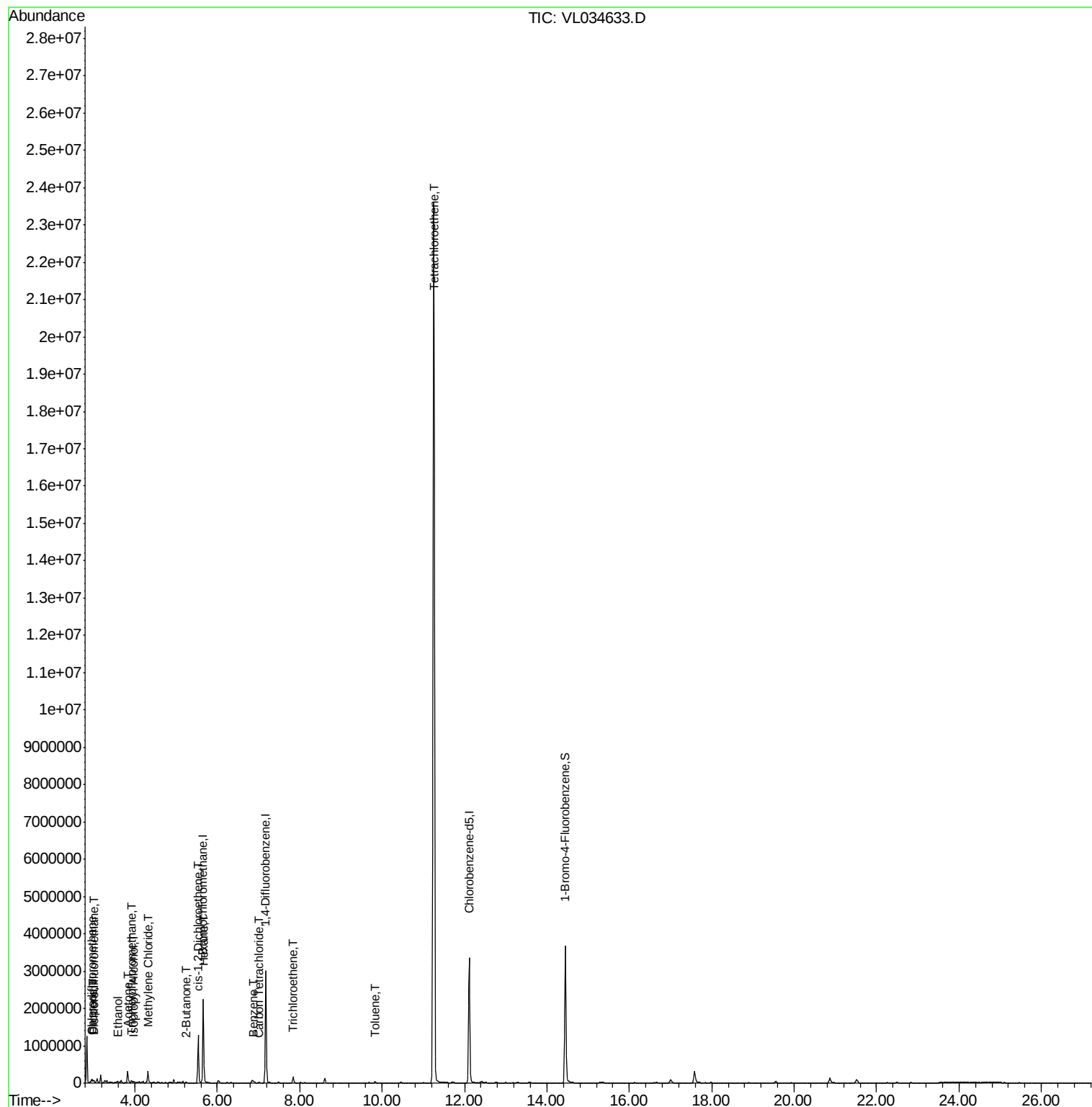
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034633.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

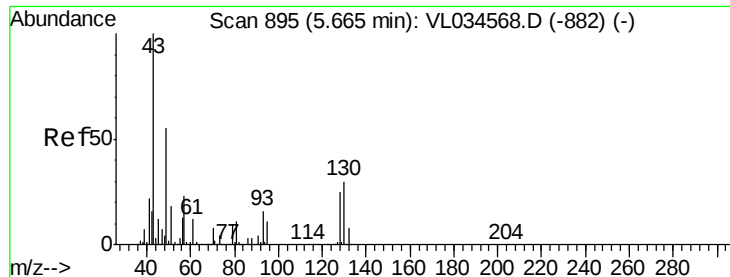
Instrument :
MSVOA_L
ClientSampleId :
L-SS

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Quant Time: Feb 20 17:07:36 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034633.D

Acq: 18 Feb 2020 21:00

Instrument :

MSVOA_L

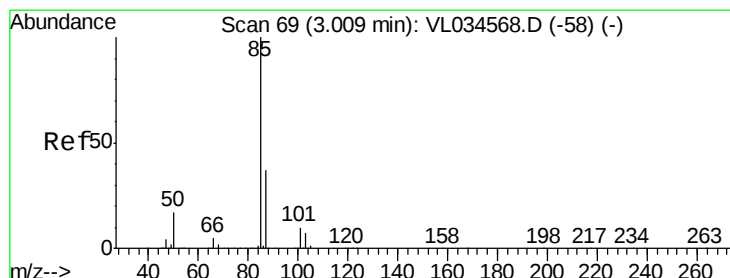
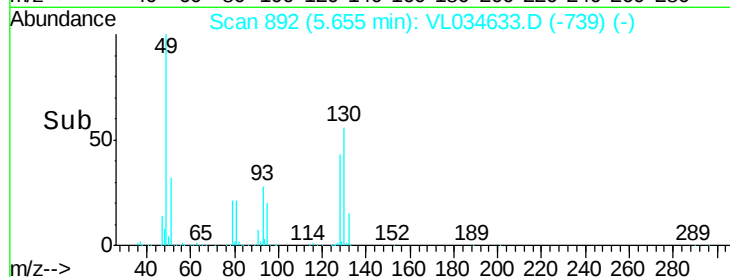
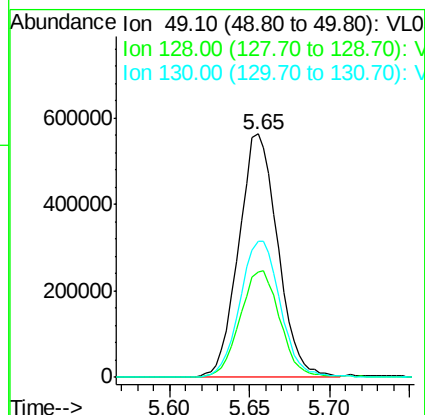
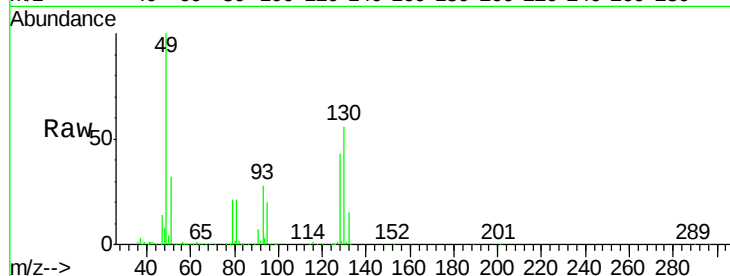
ClientSampled :

L-SS

Tot Ion	49	Resp	934483
Ion	Ratio	Lower	Upper
49	100		
128	45.3	22.7	68.1
130	58.2	28.6	85.8

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#2

Dichlorodifluoromethane

Concen: 0.234 ppbv

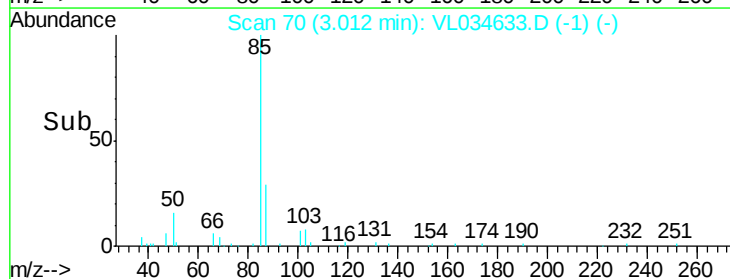
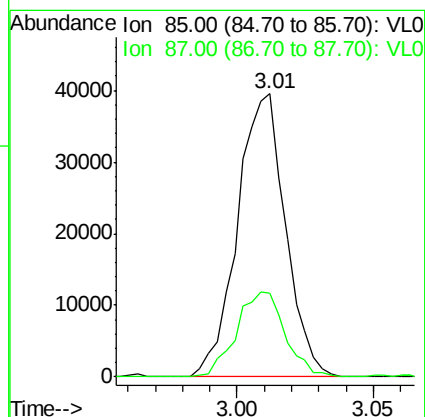
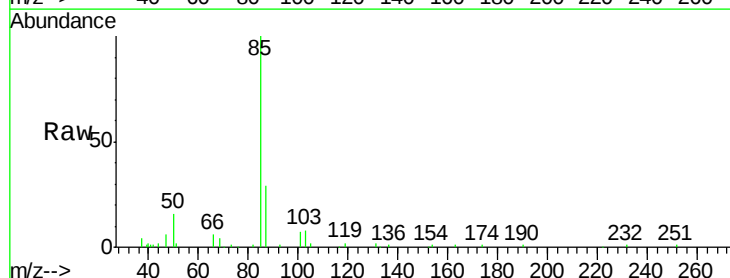
RT: 3.01 min Scan# 70

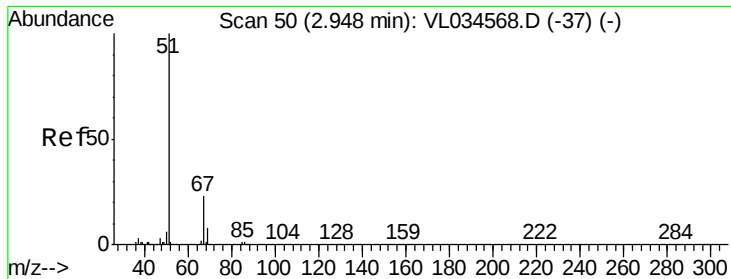
Delta R.T. 0.00 min

Lab File: VL034633.D

Acq: 18 Feb 2020 21:00

Tgt Ion	85	Resp	48190
Ion	Ratio	Lower	Upper
85	100		
87	29.5	29.5	44.3





#3

Chlorodifluoromethane

Concen: 0.359 ppbv m

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034633.D

Acq: 18 Feb 2020 21:00

Instrument :

MSVOA_L

ClientSampleId :

L-SS

Tot Ion: 51 Resp: 40500

Ion Ratio Lower Upper

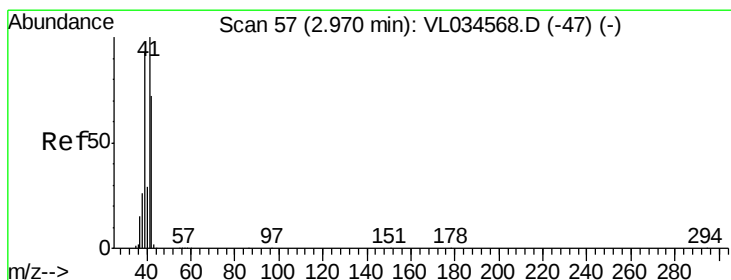
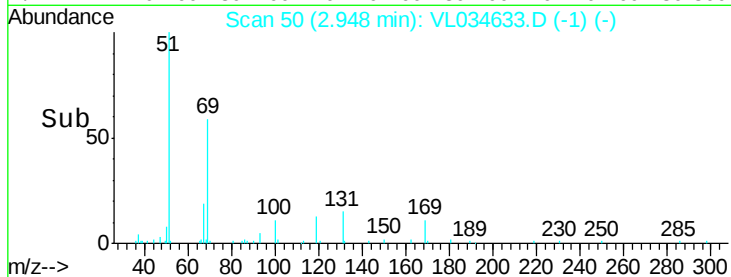
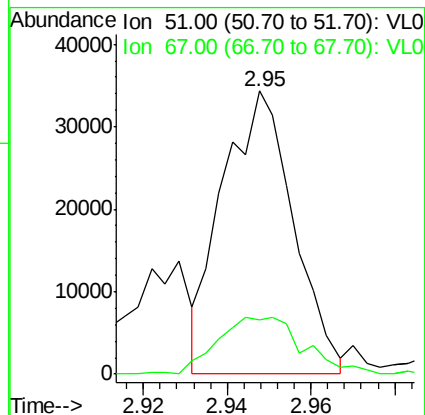
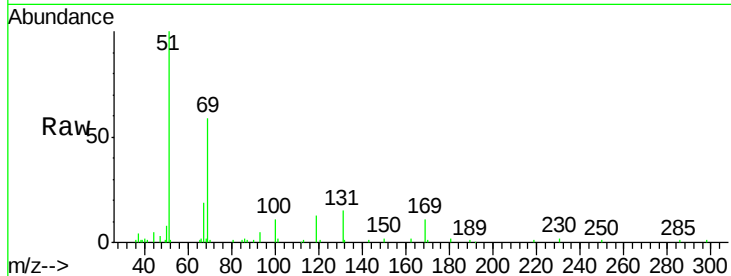
51 100

67 24.5 17.8 26.8

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#9

Propene

Concen: 0.524 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034633.D

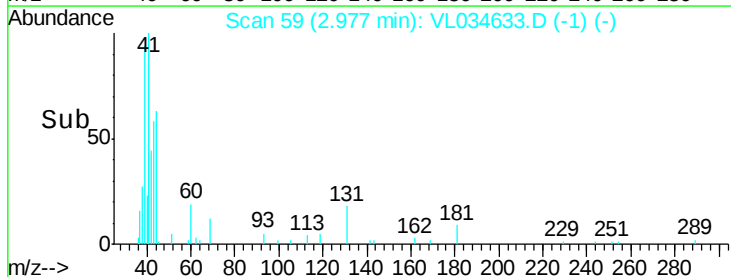
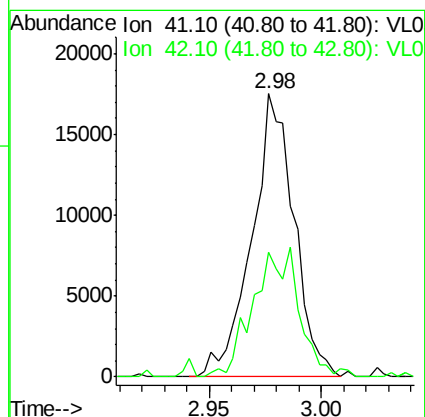
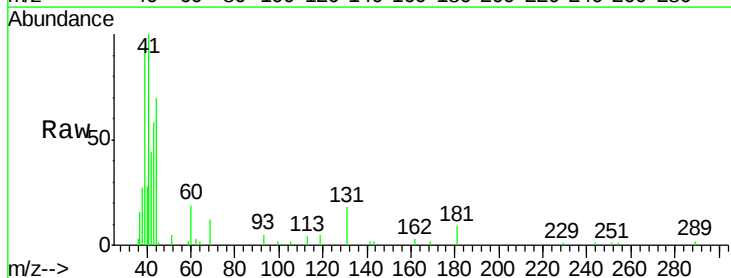
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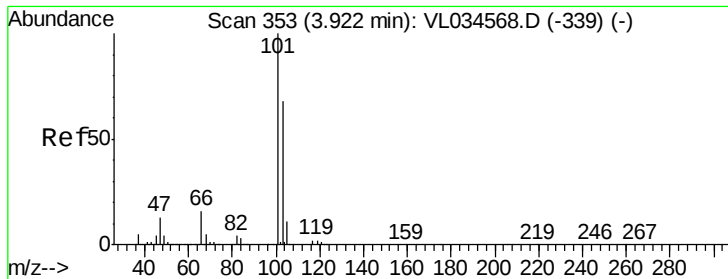
Tgt Ion: 41 Resp: 23043

Ion Ratio Lower Upper

41 100

42 152.1 57.0 85.4#





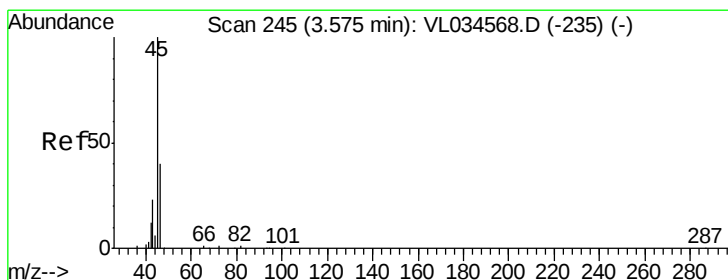
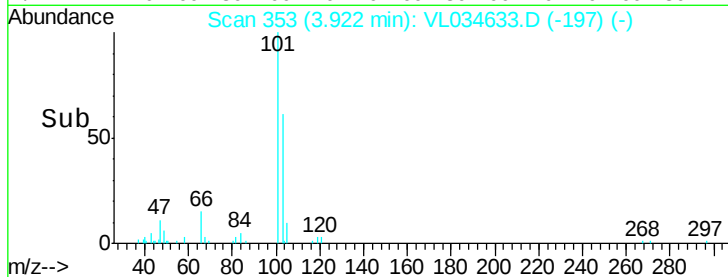
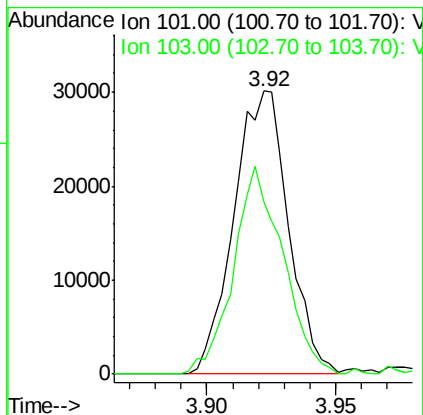
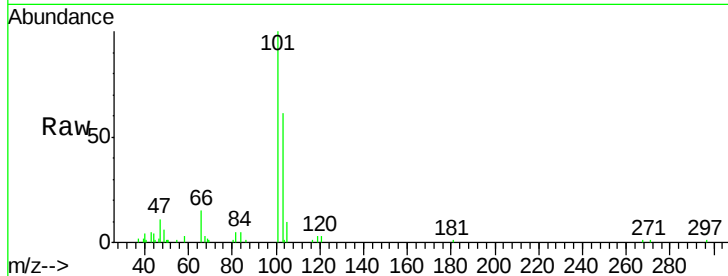
#11
 Trichlorofluoromethane
 Concen: 0.239 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034633.D
 Acq: 18 Feb 2020 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 L-SS

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.6	54.4	81.6

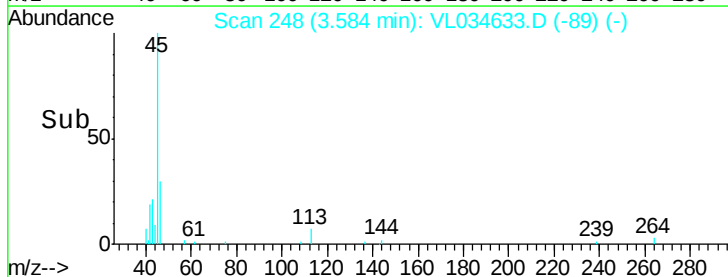
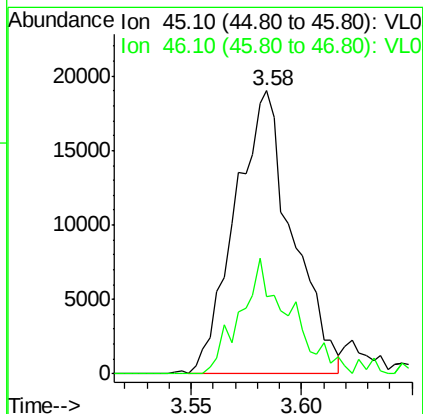
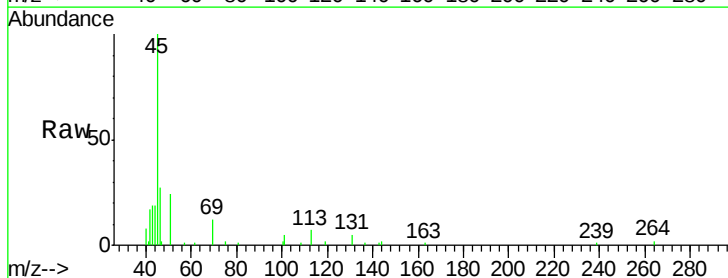
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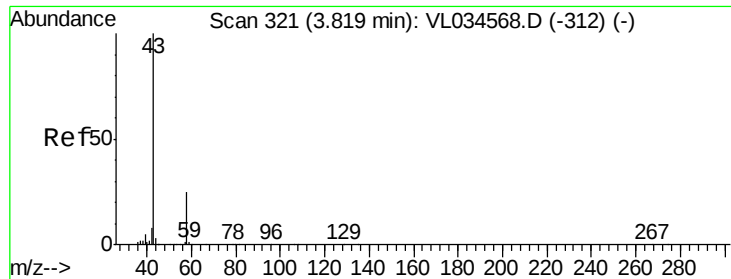
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#13
 Ethanol
 Concen: 2.912 ppbv
 RT: 3.58 min Scan# 248
 Delta R.T. 0.01 min
 Lab File: VL034633.D
 Acq: 18 Feb 2020 21:00

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.5	14.8	59.2





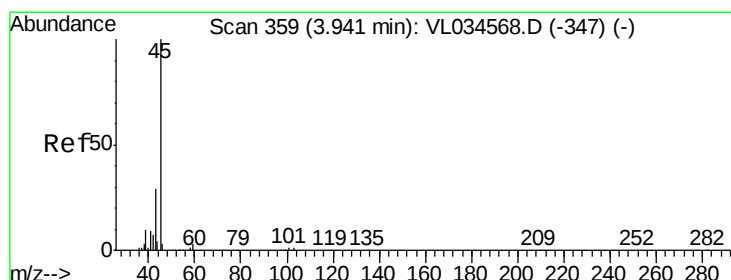
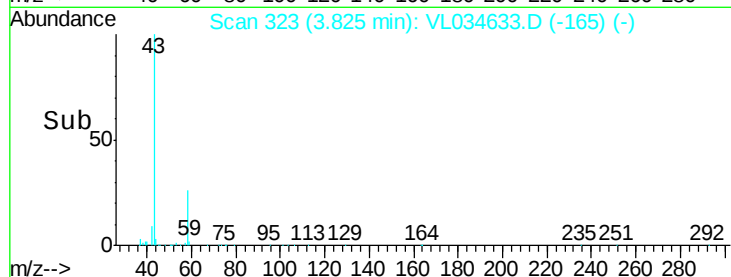
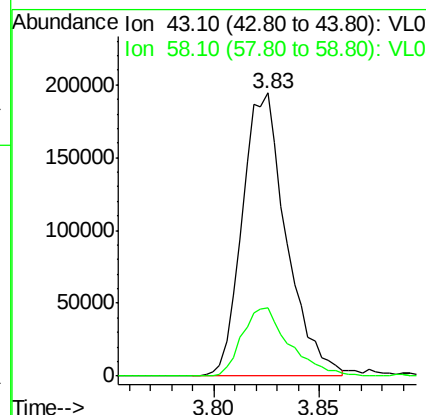
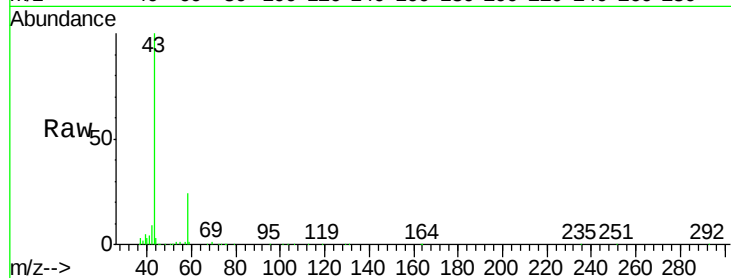
#15
Acetone
Concen: 2.051 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.01 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampleId :
L-SS

Tot Ion	Ratio	Lower	Upper
43	100		
58	26.3	20.3	30.5

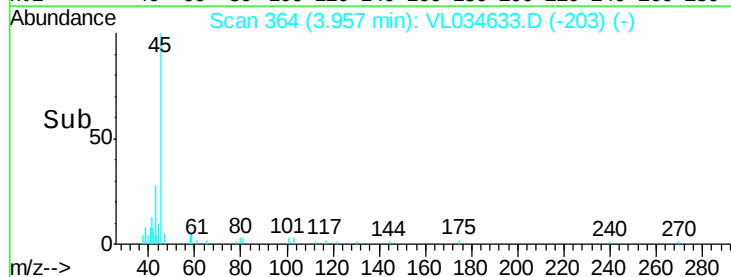
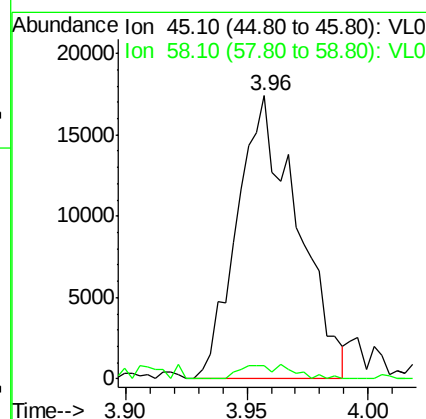
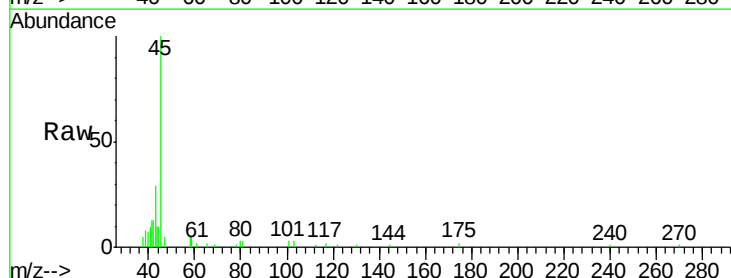
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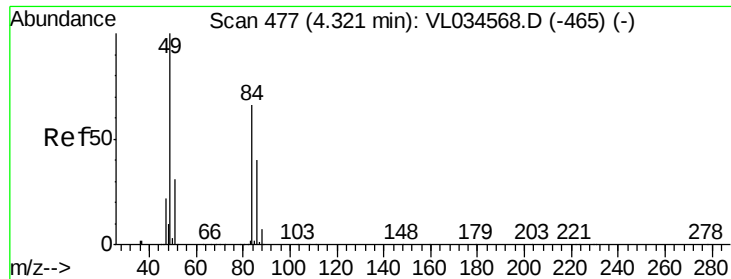
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#19
Isopropyl Alcohol
Concen: 0.376 ppbv m
RT: 3.96 min Scan# 364
Delta R.T. 0.02 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.7	2.5#





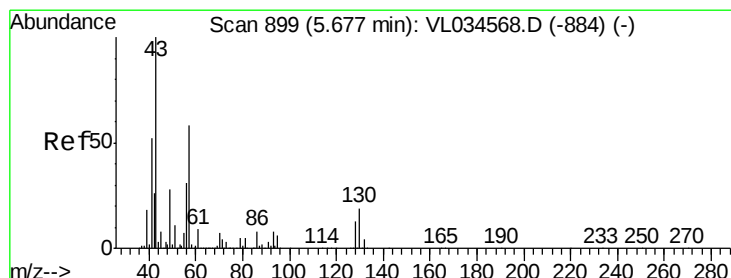
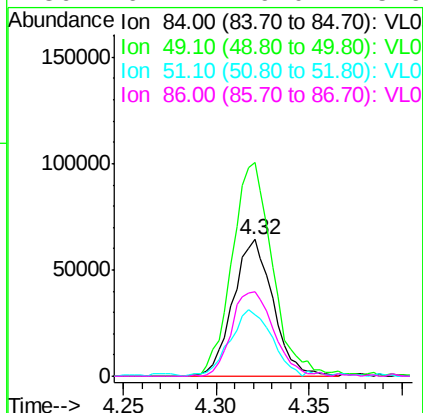
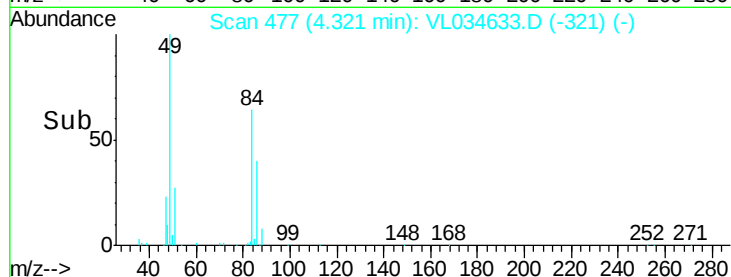
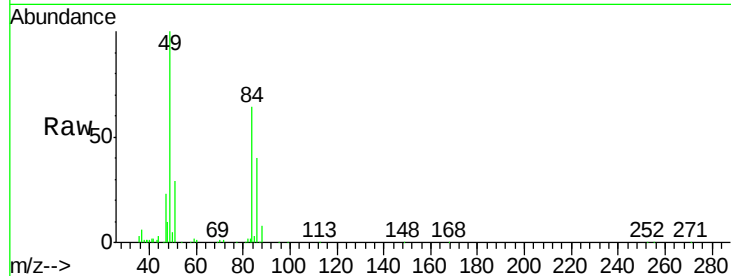
#20
Methylene Chloride
Concen: 1.842 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampleId :
L-SS

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	156.4	122.4	183.6	
51	44.2	38.6	57.8	
86	61.4	49.0	73.6	

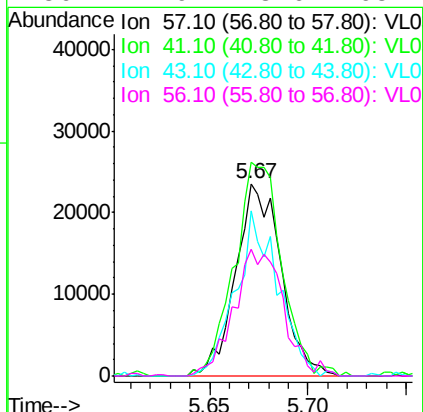
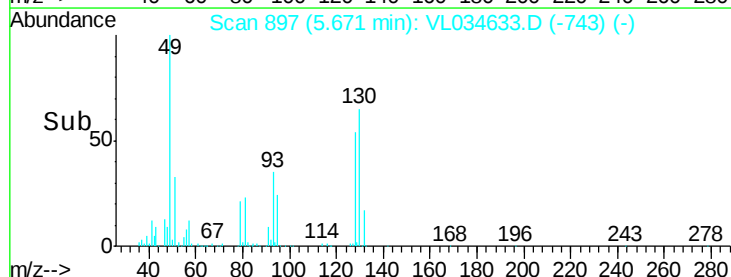
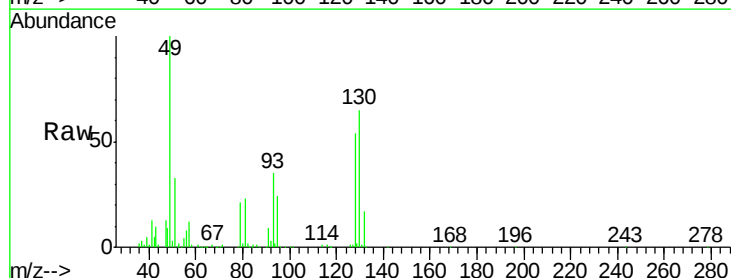
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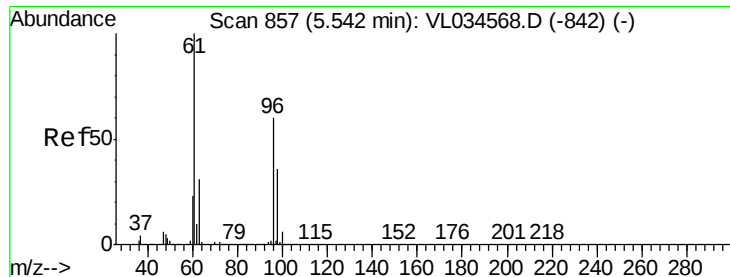
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#26
Hexane
Concen: 0.404 ppbv m
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	115.8	76.2	114.2#	
43	79.9	189.9	284.9#	
56	71.9	43.6	65.4#	





#31

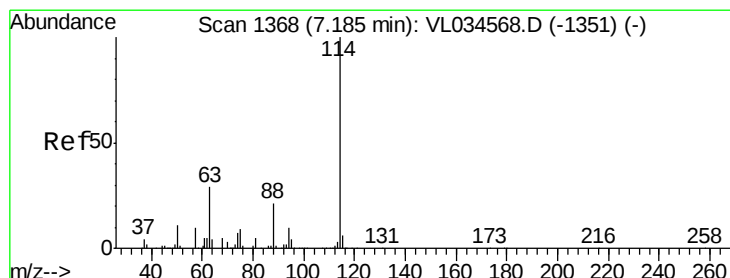
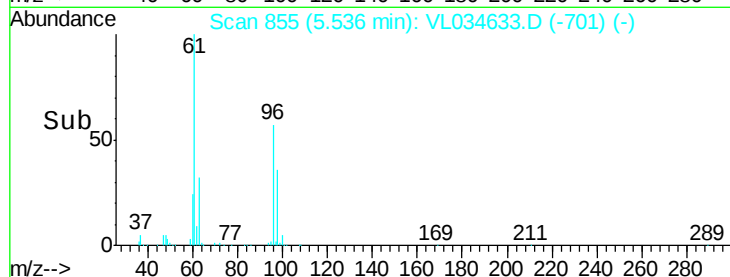
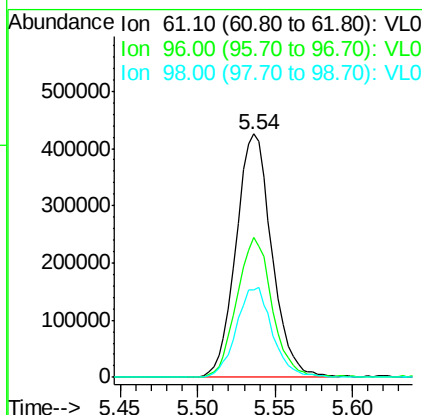
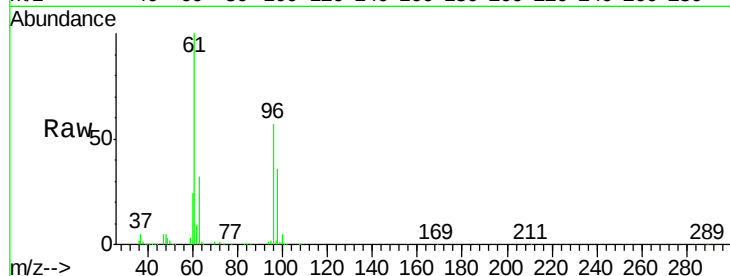
cis-1,2-Dichloroethene
 Concen: 7.078 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: VL034633.D
 Acq: 18 Feb 2020 21:00

Instrument :
 MSVOA_L
 ClientSampled :
 L-SS

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.4	48.0	72.0
98	35.9	28.6	43.0

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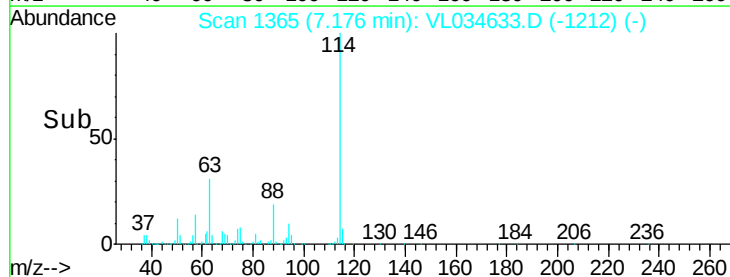
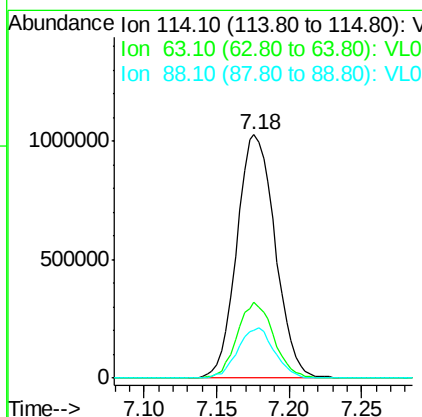
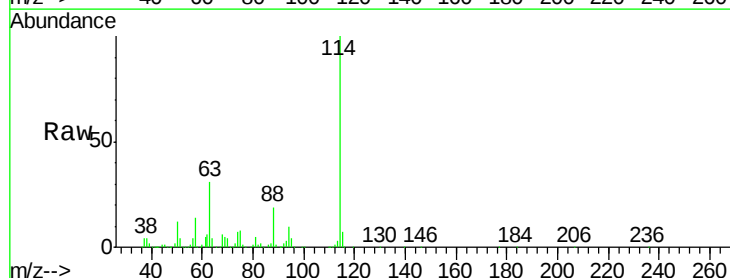
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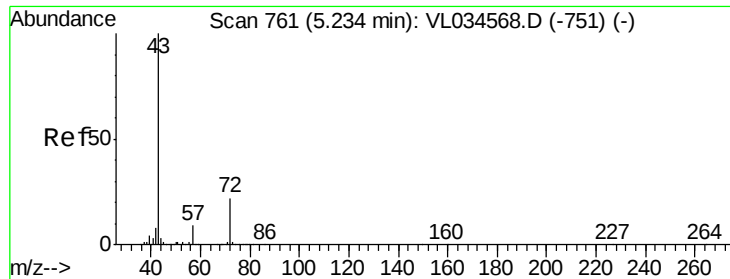


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034633.D
 Acq: 18 Feb 2020 21:00

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.1	36.1
88	19.7	15.9	23.9





#34

2-Butanone

Concen: 0.185 ppbv m

RT: 5.24 min Scan# 762

Delta R.T. 0.00 min

Lab File: VL034633.D

Acq: 18 Feb 2020 21:00

Instrument :

MSVOA_L

ClientSampleId :

L-SS

Tot Ion: 43 Resp: 25381

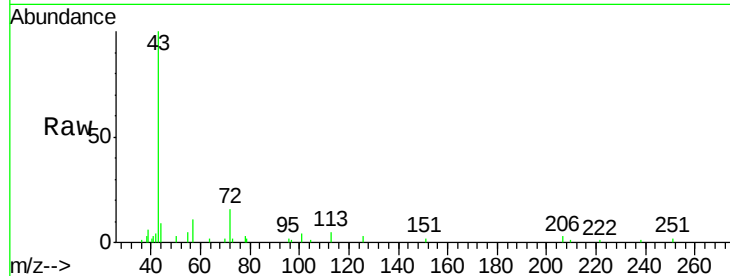
Ion Ratio Lower Upper

43 100

72 21.6 17.2 25.8

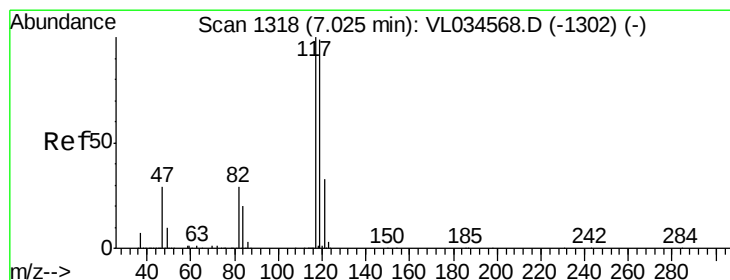
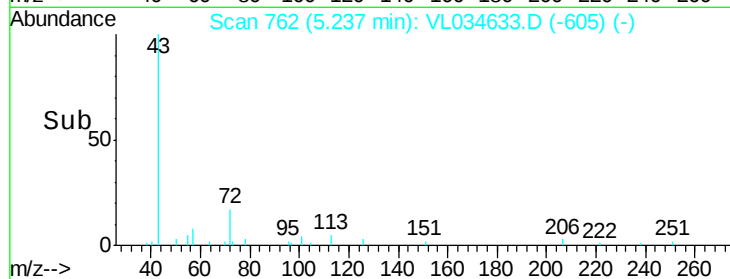
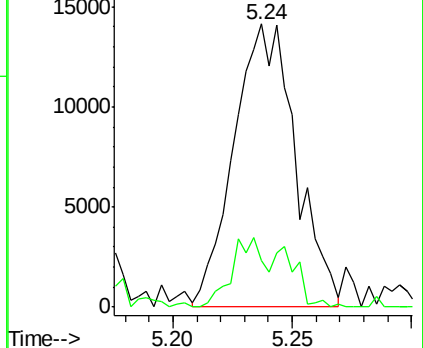
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.02 min

Lab File: VL034633.D

Acq: 18 Feb 2020 21:00

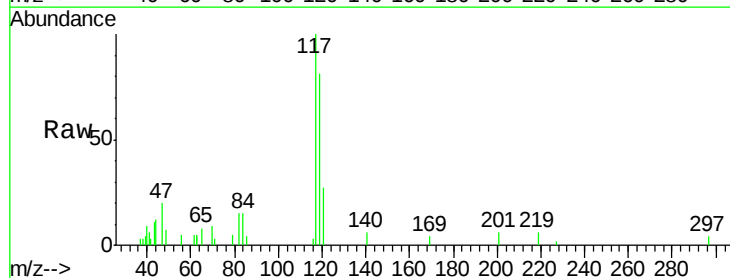
Tgt Ion: 117 Resp: 11145

Ion Ratio Lower Upper

117 100

119 81.1 79.5 119.3

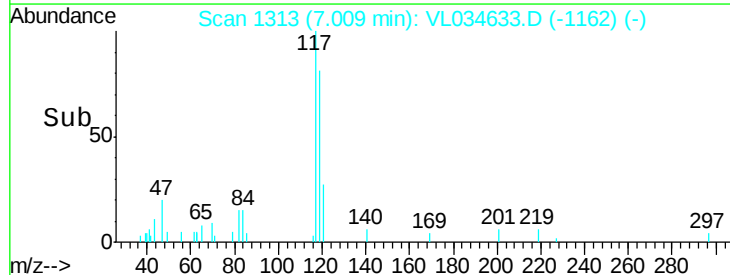
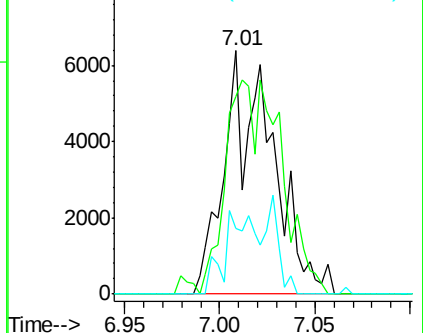
121 27.1 26.2 39.2

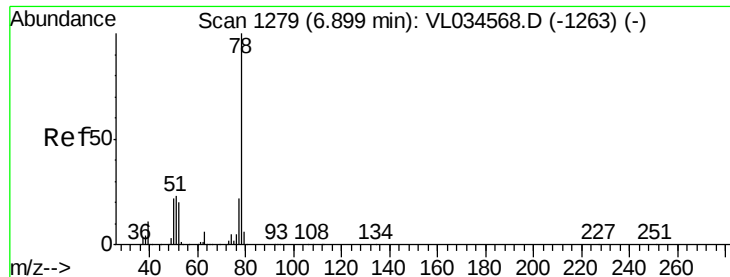


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.118 ppbv m

RT: 6.89 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL034633.D

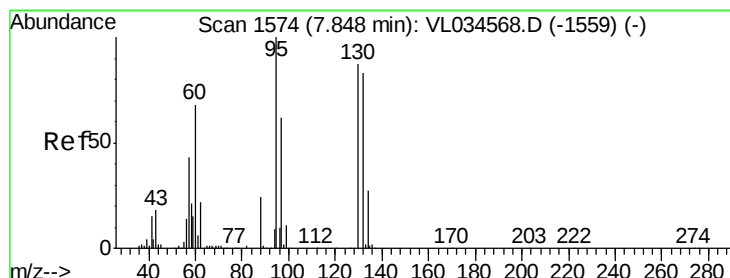
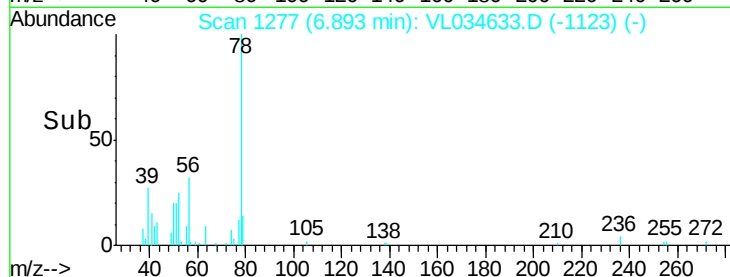
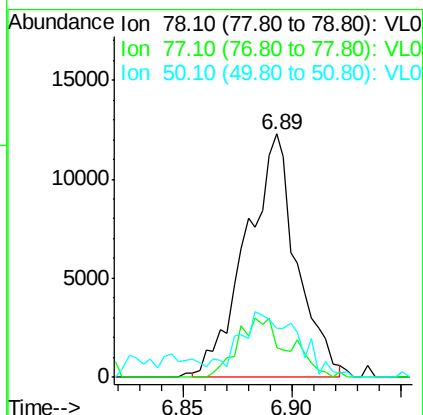
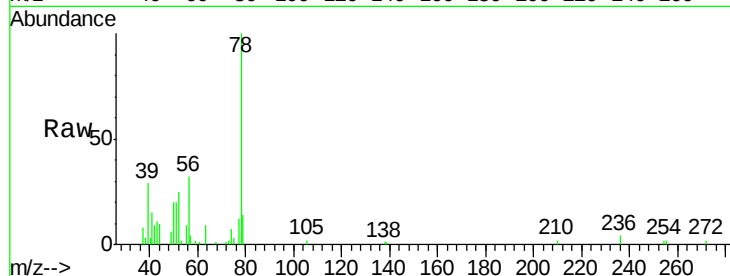
Acq: 18 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampled :
L-SS

Tot Ion:	78	Resp:	19770
Ion Ratio	Lower	Upper	
78	100		
77	12.3	17.3	25.9#
50	20.4	17.4	26.2

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#38

Trichloroethene

Concen: 0.631 ppbv

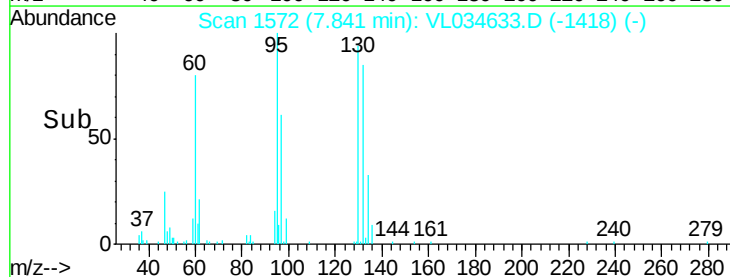
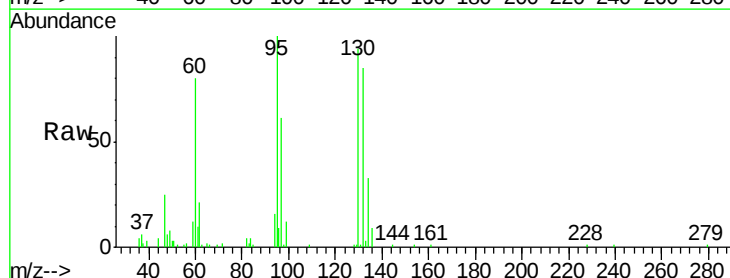
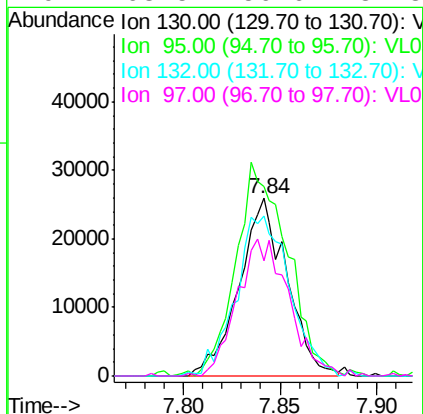
RT: 7.84 min Scan# 1572

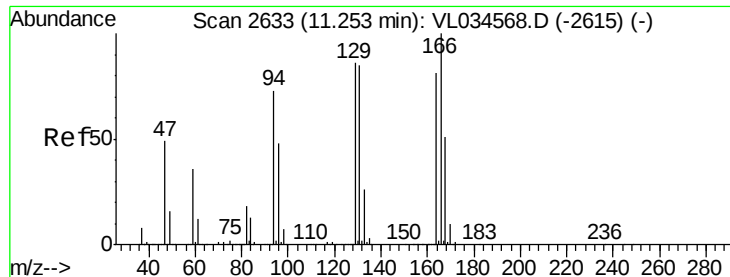
Delta R.T. -0.01 min

Lab File: VL034633.D

Acq: 18 Feb 2020 21:00

Tgt Ion:	130	Resp:	44588
Ion Ratio	Lower	Upper	
130	100		
95	104.6	91.6	137.4
132	90.5	76.1	114.1
97	63.5	56.6	84.8





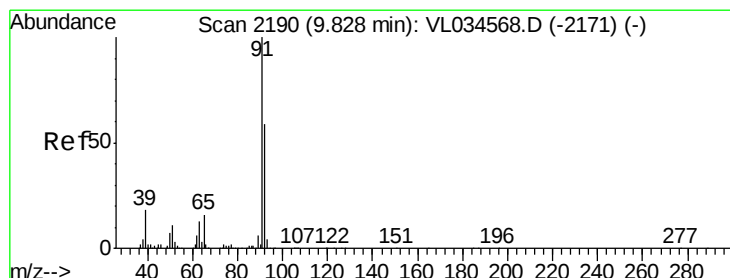
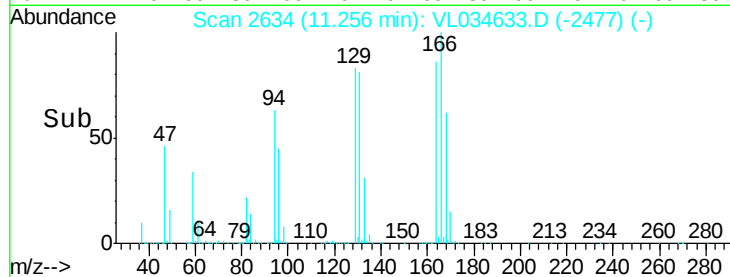
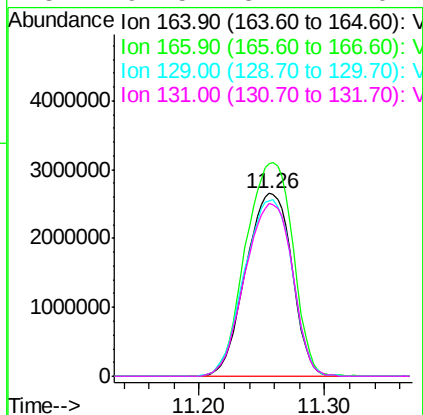
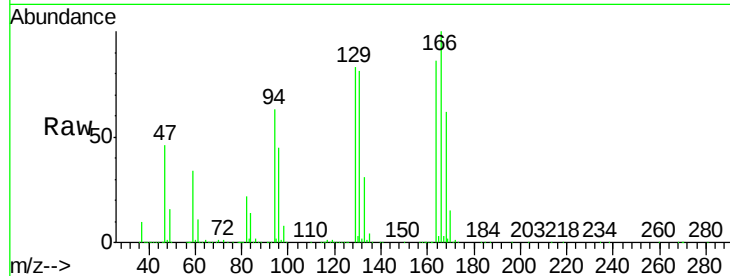
#52
Tetrachloroethene
Concen: 100.683 ppbv
RT: 11.26 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampleId :
L-SS

Tot Ion	Ratio	Lower	Upper
164	100		
166	116.6	99.0	148.4
129	96.2	85.3	127.9
131	94.5	84.2	126.2

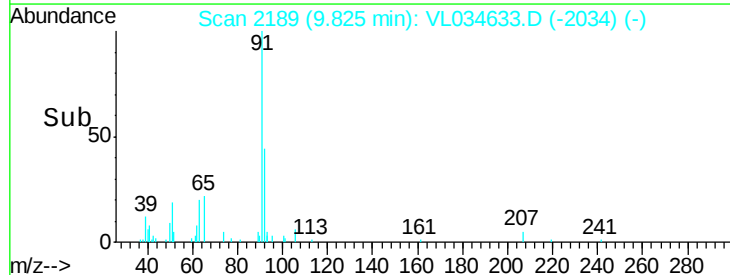
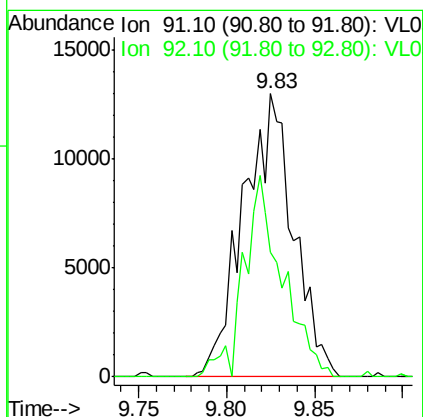
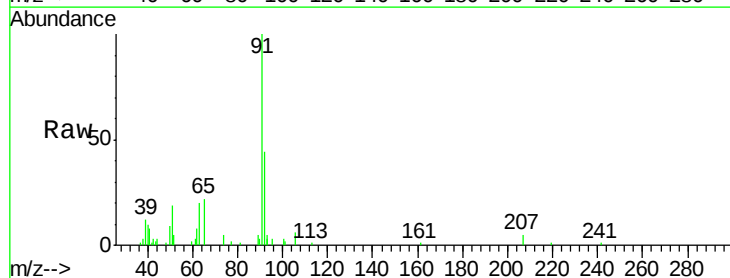
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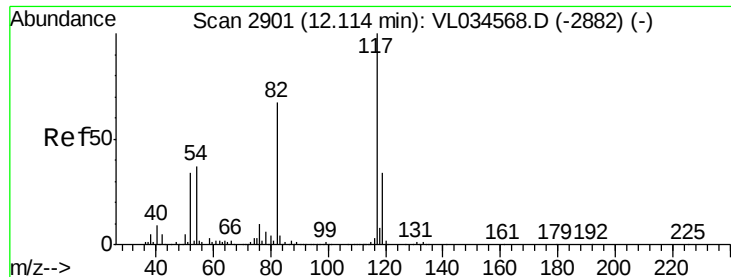
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#53
Toluene
Concen: 0.139 ppbv m
RT: 9.83 min Scan# 2189
Delta R.T. -0.00 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.2	72.2





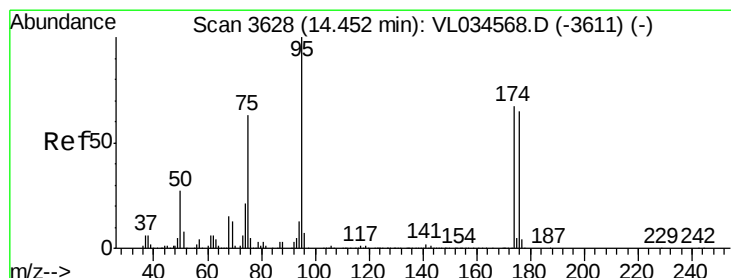
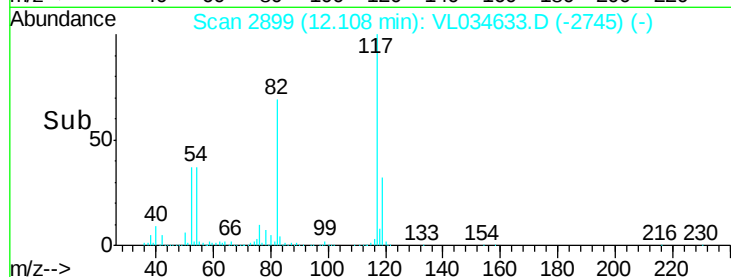
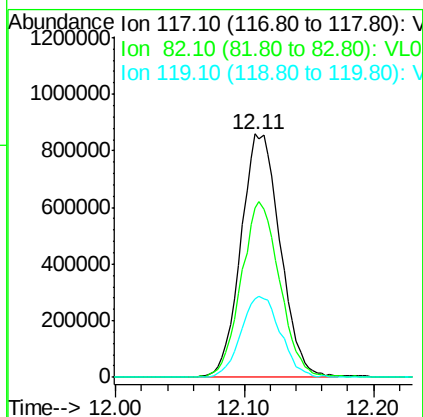
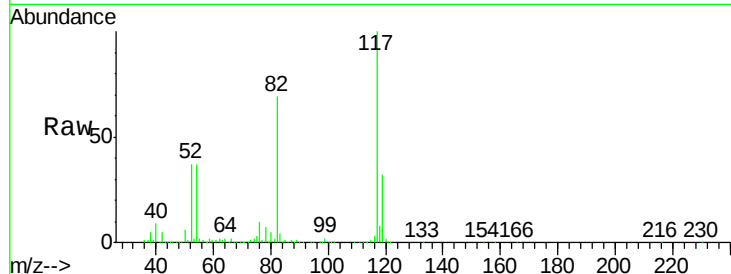
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampled :
L-SS

Tot Ion:117 Resp: 1827252
Ion Ratio Lower Upper
117 100
82 70.9 54.2 81.4
119 33.5 26.1 39.1

Manual Integrations
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2/21/2020 3:26:09 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.202 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. -0.00 min
Lab File: VL034633.D
Acq: 18 Feb 2020 21:00

Tgt Ion: 95 Resp: 1575455
Ion Ratio Lower Upper
95 100
174 64.5 52.3 78.5
175 4.6 3.8 5.6

