

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034637.D
 Acq On : 18 Feb 2020 23:39
 Operator : SY/AP
 Sample : L1532-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-SS

Manual Integrations
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 2/21/2020 3:26:24 PM

Quant Time: Feb 20 17:16:15 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	851200	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1749613	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1722181	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1459500	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	42218m	0.225	ppbv	
3) Chlorodifluoromethane	2.95	51	31771m	0.309	ppbv	
9) Propene	2.98	41	13462	0.336	ppbv	85
11) Trichlorofluoromethane	3.92	101	43977	0.258	ppbv #	82
13) Ethanol	3.59	45	24931m	2.324	ppbv	
15) Acetone	3.82	43	223556	1.787	ppbv	99
19) Isopropyl Alcohol	3.96	45	32020m	0.439	ppbv	
20) Methylene Chloride	4.32	84	94312	1.980	ppbv	94
26) Hexane	5.68	57	47113	0.555	ppbv #	36
35) Carbon Tetrachloride	7.02	117	10719m	0.064	ppbv	
36) Benzene	6.89	78	12980m	0.083	ppbv	
38) Trichloroethene	7.84	130	33022m	0.503	ppbv	
43) Methyl Methacrylate	8.03	69	9053m	0.145	ppbv	
52) Tetrachloroethene	11.27	164	10377309	166.026	ppbv	87
53) Toluene	9.83	91	20301m	0.119	ppbv	

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

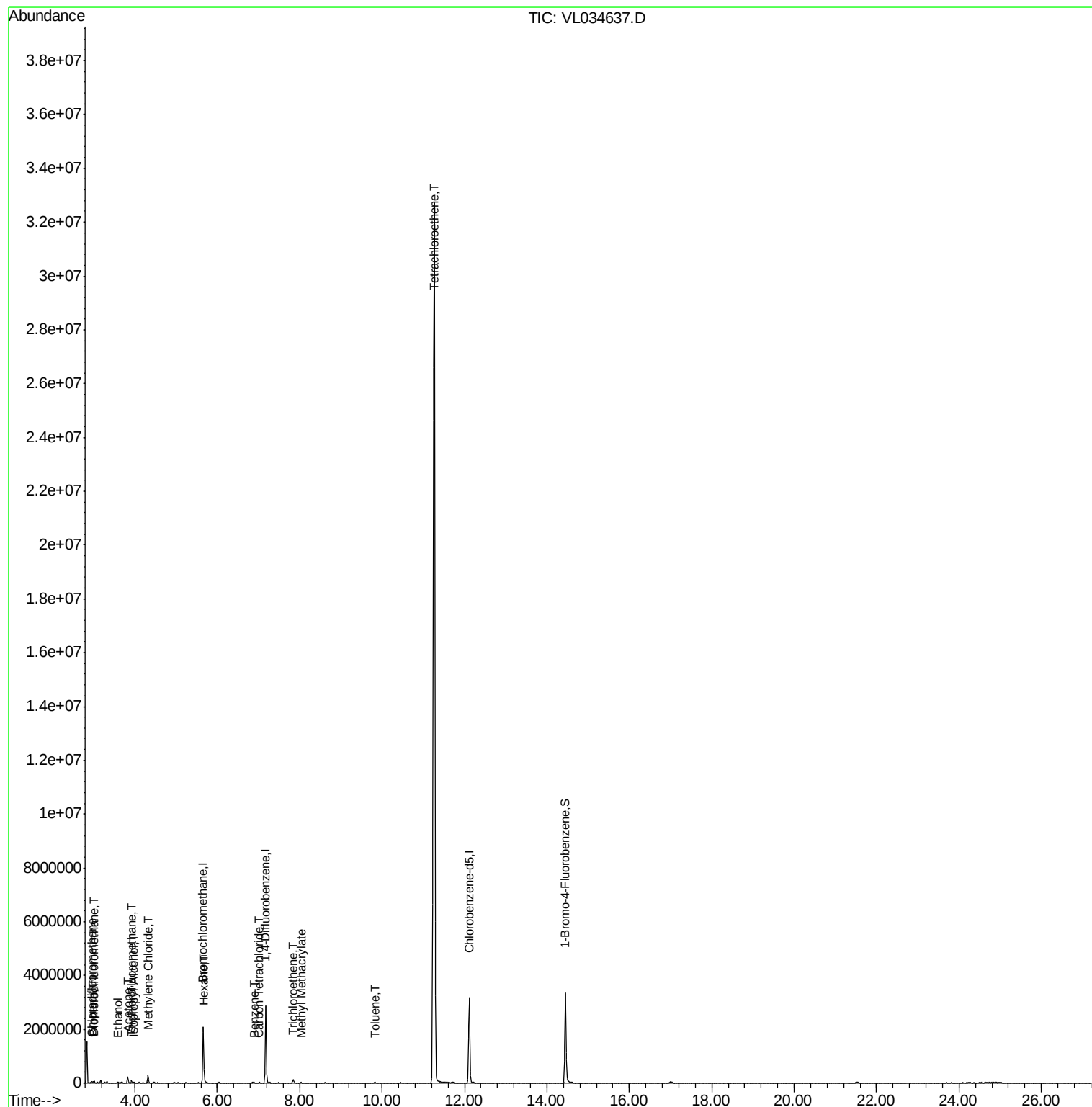
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034637.D
Acq On : 18 Feb 2020 23:39
Operator : SY/AP
Sample : L1532-10
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

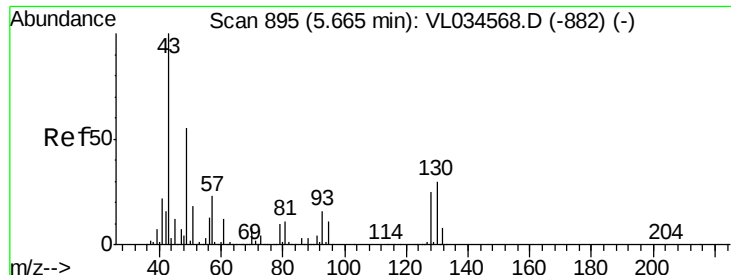
Instrument :
MSVOA_L
ClientSampleId :
DC-SS

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Quant Time: Feb 20 17:16:15 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: VL034637.D

Acq: 18 Feb 2020 23:39

Instrument :

MSVOA_L

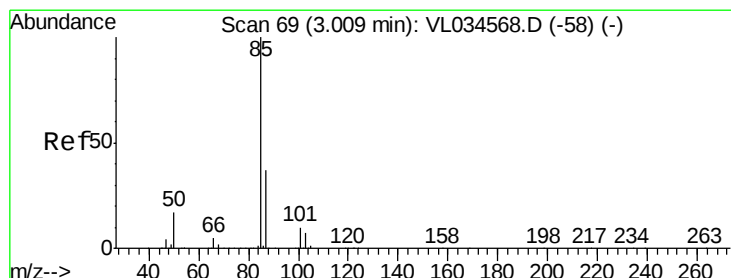
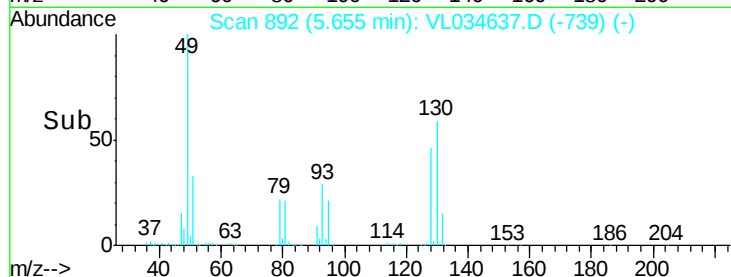
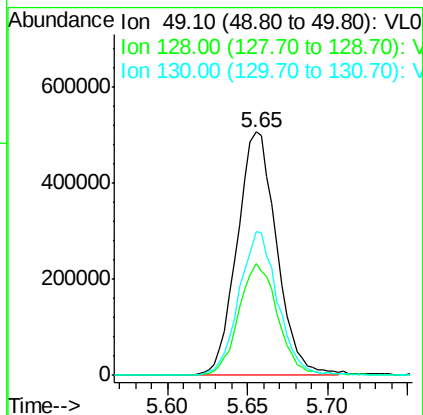
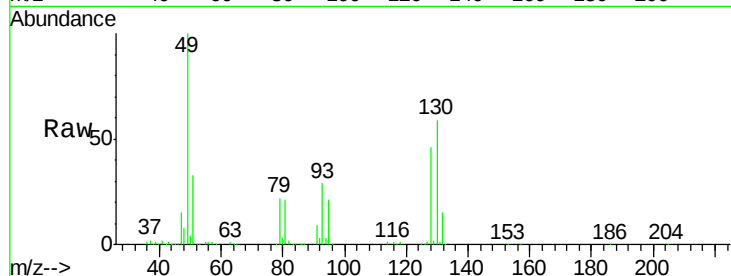
ClientSampleId :

DC-SS

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.6	22.7	68.1
130	58.3	28.6	85.8

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#2

Dichlorodifluoromethane

Concen: 0.225 ppbv m

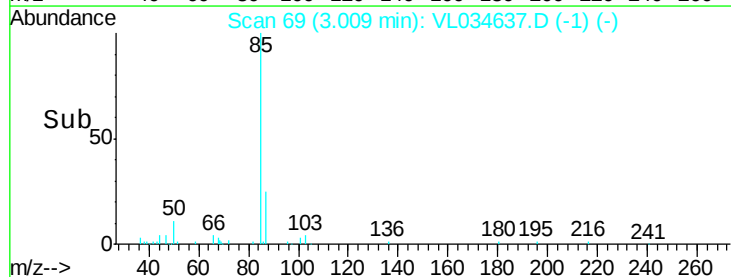
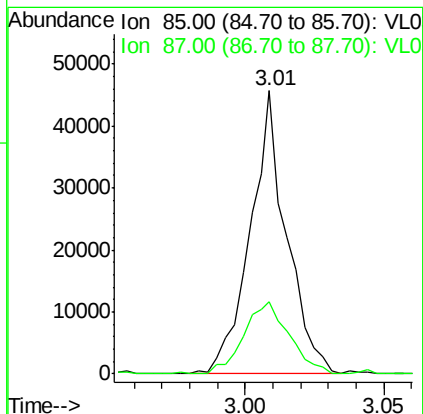
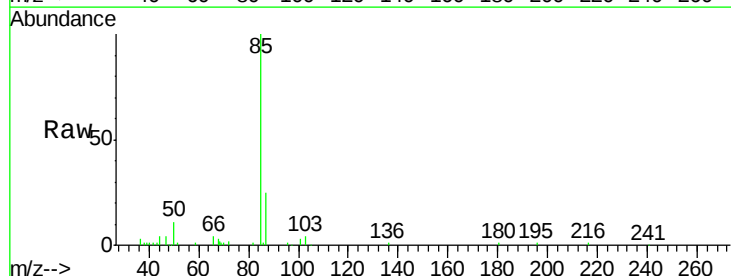
RT: 3.01 min Scan# 69

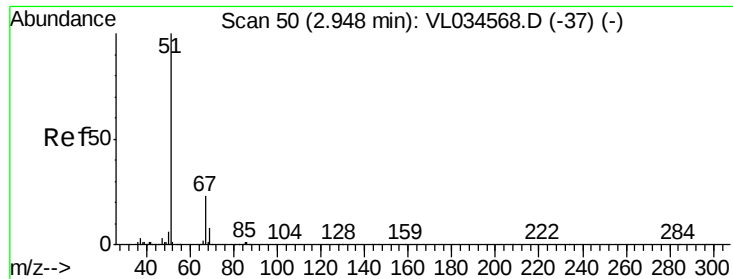
Delta R.T. 0.00 min

Lab File: VL034637.D

Acq: 18 Feb 2020 23:39

Tgt Ion	Ratio	Lower	Upper
85	100		
87	25.4	29.5	44.3





#3

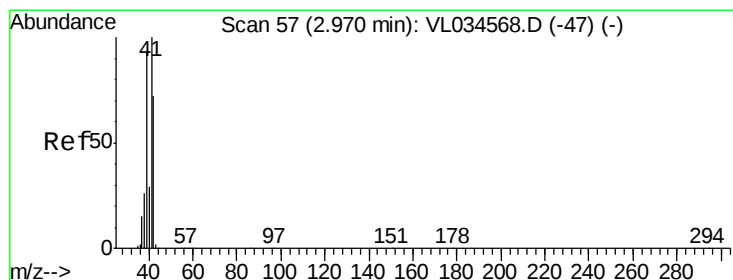
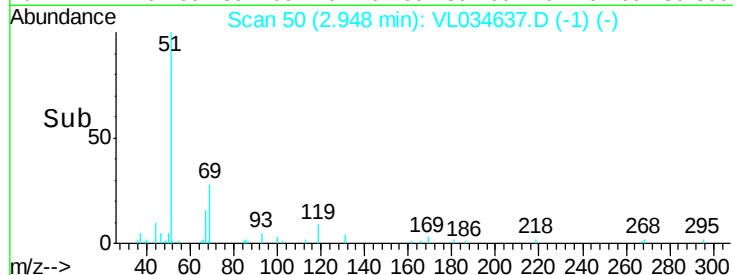
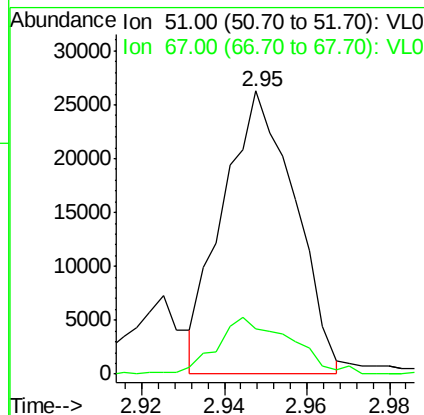
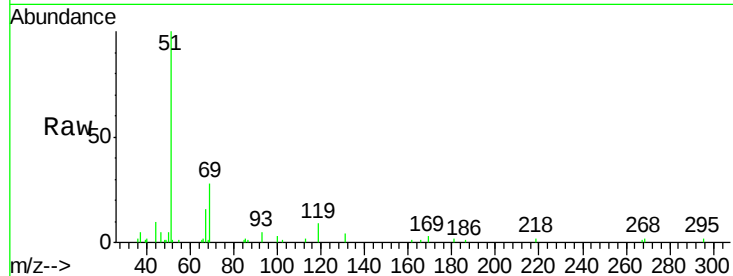
Chlorodifluoromethane
Concen: 0.309 ppbv
RT: 2.95 min Scan# 50
Delta R.T. 0.00 min
Lab File: VL034637.D
Acq: 18 Feb 2020 23:39

Instrument :
MSVOA_L
ClientSampleId :
DC-SS

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.0	17.8	26.8

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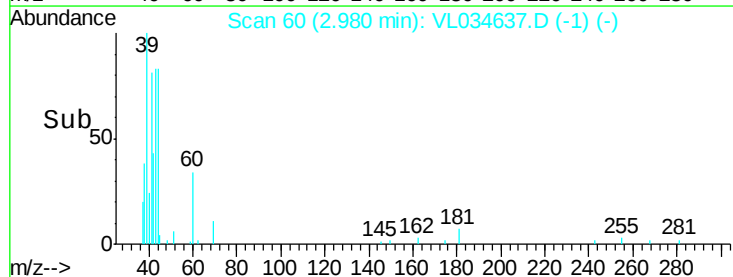
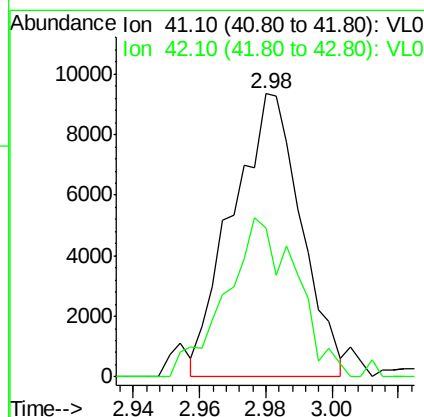
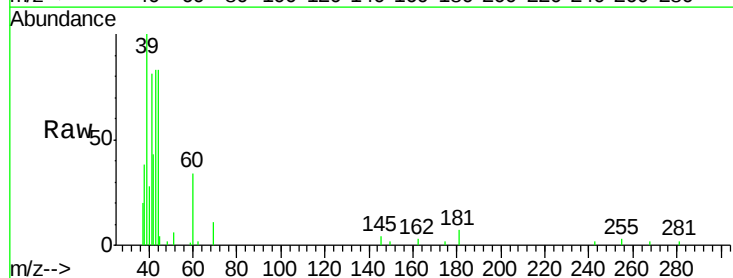
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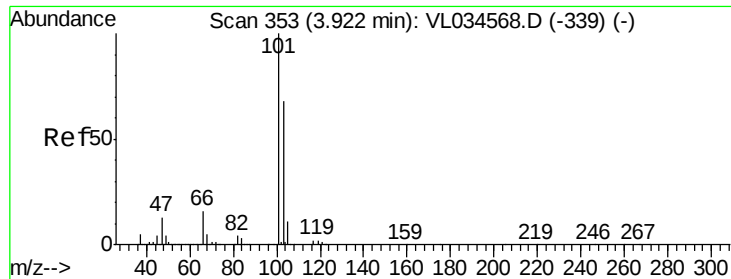


#9

Propene
Concen: 0.336 ppbv
RT: 2.98 min Scan# 60
Delta R.T. 0.01 min
Lab File: VL034637.D
Acq: 18 Feb 2020 23:39

Tgt Ion	Ratio	Lower	Upper
41	100		
42	59.1	57.0	85.4





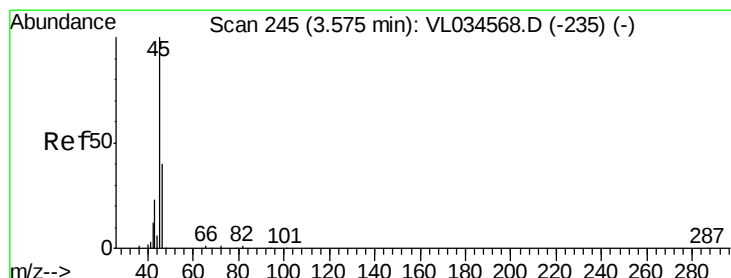
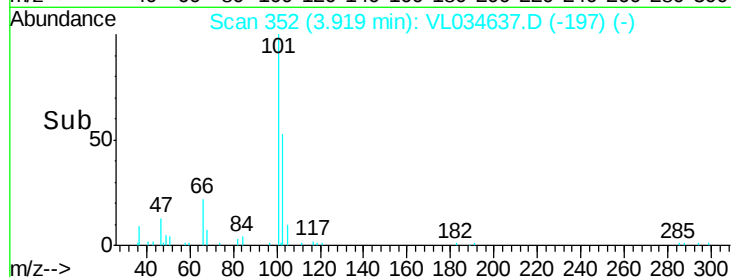
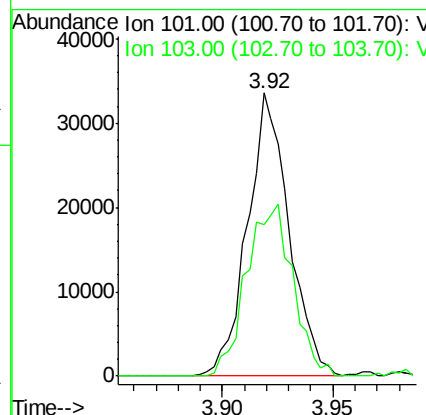
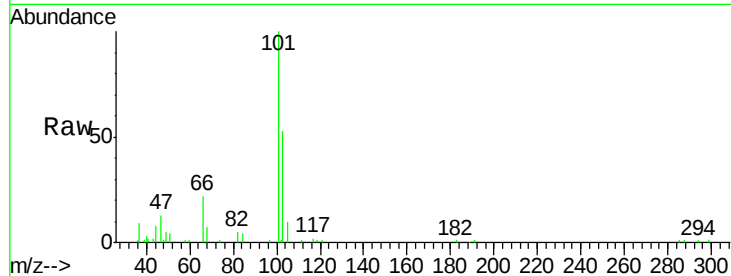
#11
 Trichlorofluoromethane
 Concen: 0.258 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL034637.D
 Acq: 18 Feb 2020 23:39

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-SS

Tot Ion	Ratio	Lower	Upper
101	100		
103	53.4	54.4	81.6#

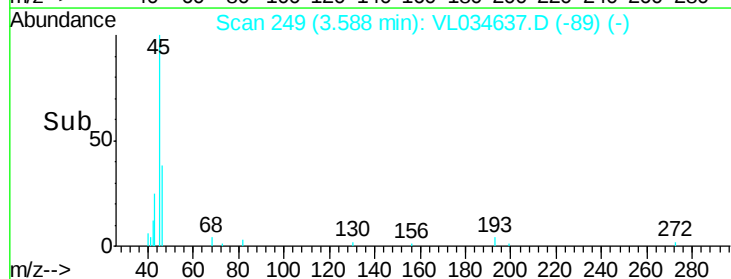
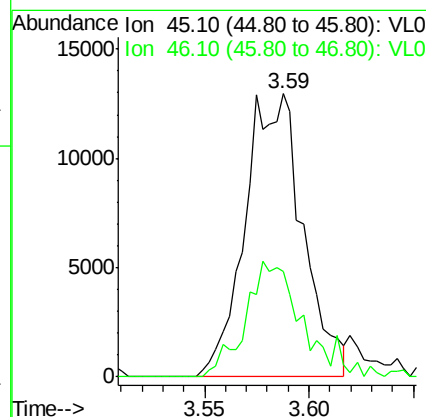
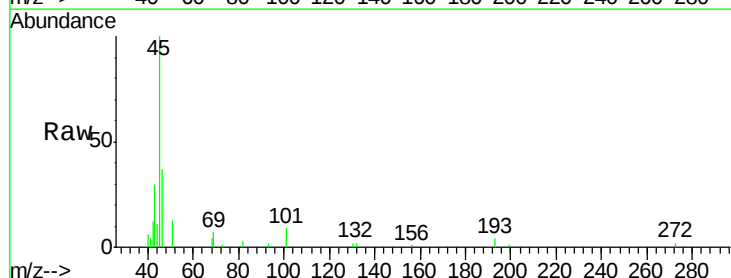
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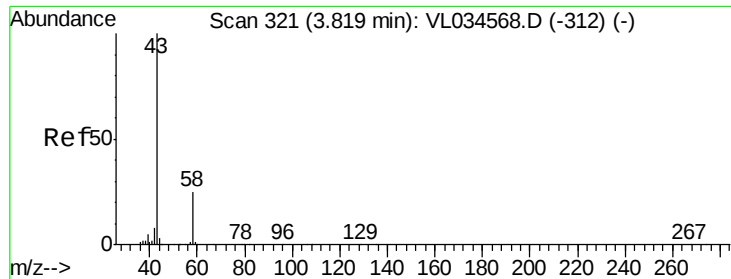
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#13
 Ethanol
 Concen: 2.324 ppbv m
 RT: 3.59 min Scan# 249
 Delta R.T. 0.01 min
 Lab File: VL034637.D
 Acq: 18 Feb 2020 23:39

Tgt Ion	Ratio	Lower	Upper
45	100		
46	40.8	14.8	59.2





#15

Acetone

Concen: 1.787 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034637.D

Acq: 18 Feb 2020 23:39

Instrument :

MSVOA_L

ClientSampleId :

DC-SS

Tot Ion: 43 Resp: 223556

Ion Ratio Lower Upper

43 100

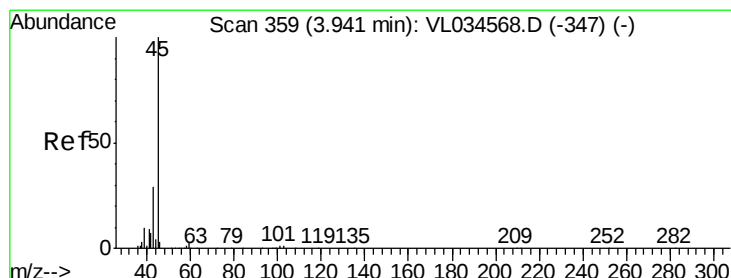
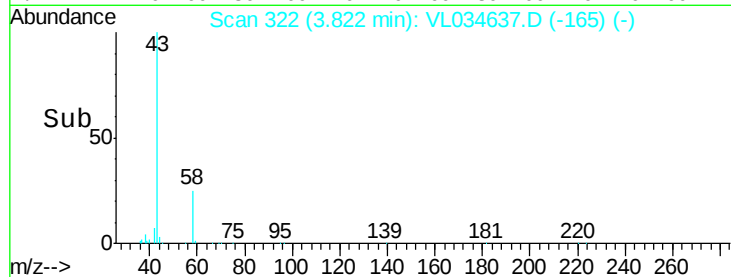
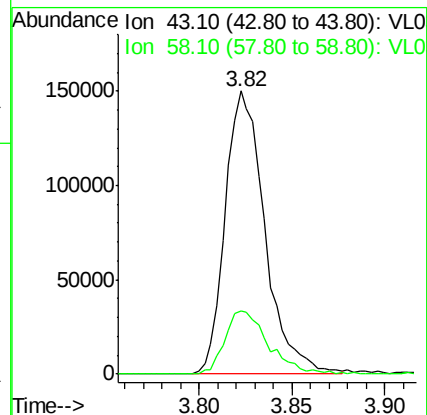
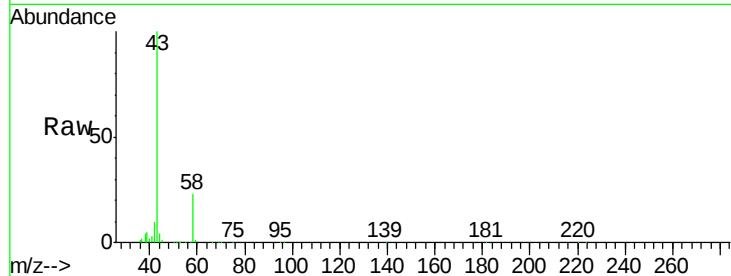
58 24.7 20.3 30.5

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 0.439 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL034637.D

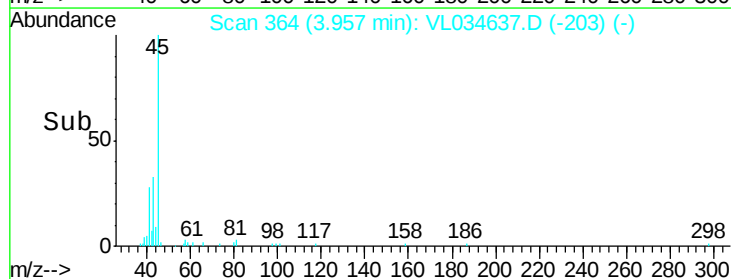
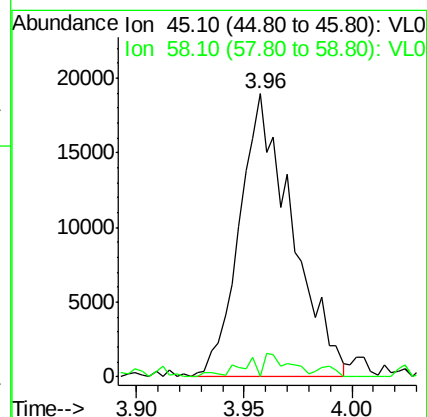
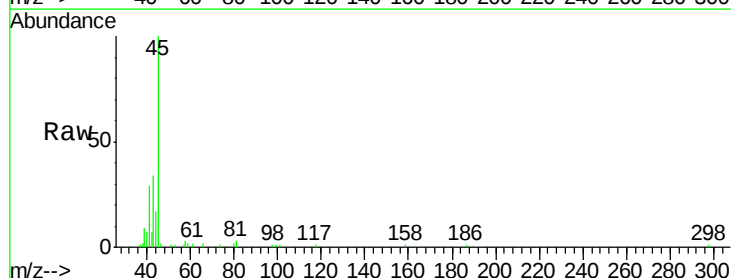
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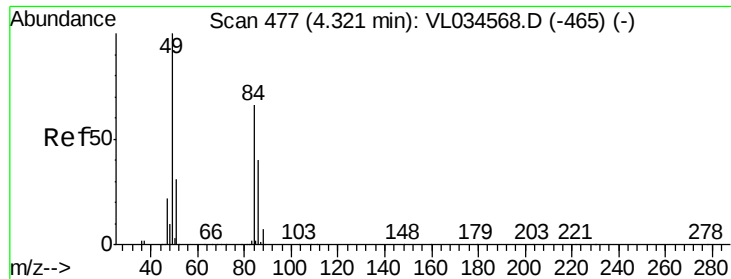
Tgt Ion: 45 Resp: 32020

Ion Ratio Lower Upper

45 100

58 7.7 1.7 2.5#





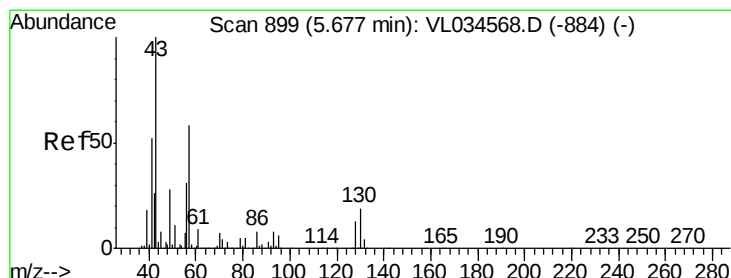
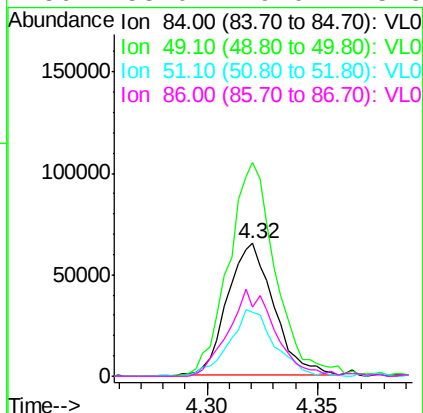
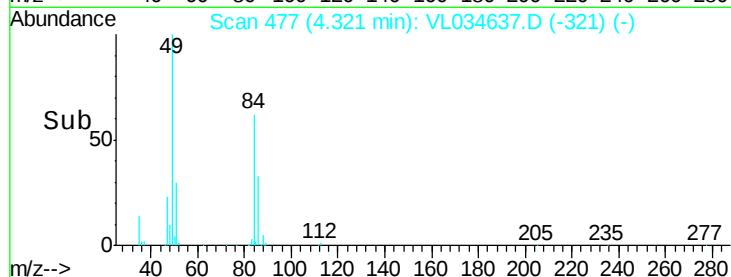
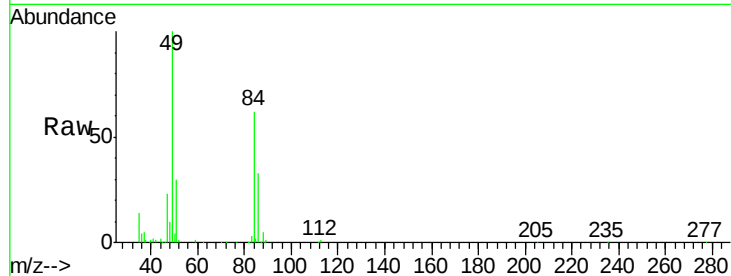
#20
Methvlene Chloride
Concen: 1.980 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL034637.D
Acq: 18 Feb 2020 23:39

Instrument :
MSVOA_L
ClientSampleId :
DC-SS

Tot Ion	84	Resp	94312
Ion	Ratio	Lower	Upper
84	100		
49	160.7	122.4	183.6
51	47.9	38.6	57.8
86	53.0	49.0	73.6

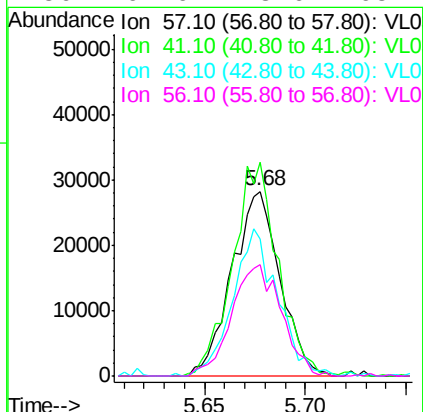
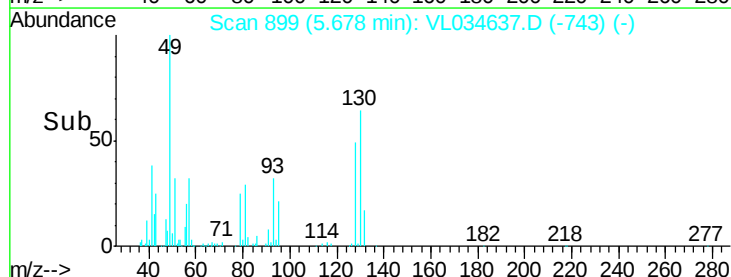
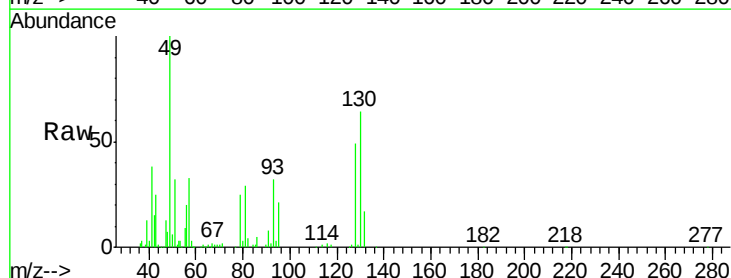
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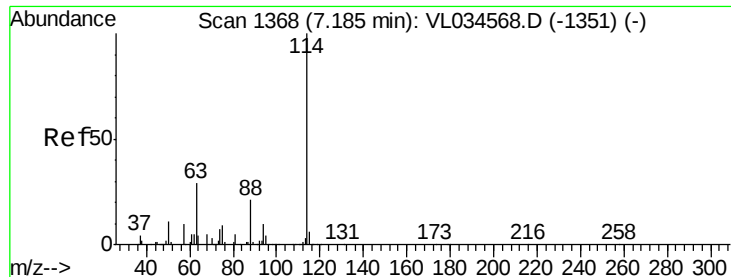
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#26
Hexane
Concen: 0.555 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034637.D
Acq: 18 Feb 2020 23:39

Tgt Ion	57	Resp	47113
Ion	Ratio	Lower	Upper
57	100		
41	109.8	76.2	114.2
43	74.7	189.9	284.9#
56	62.6	43.6	65.4





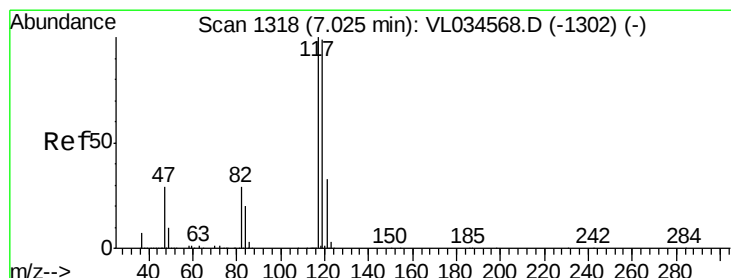
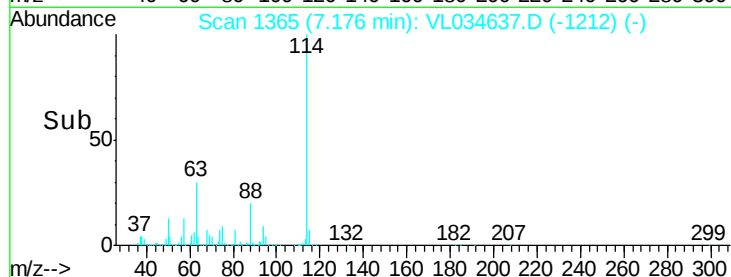
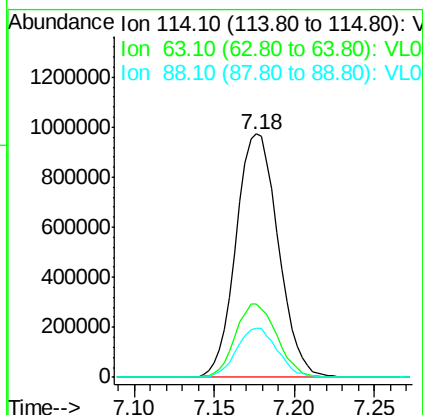
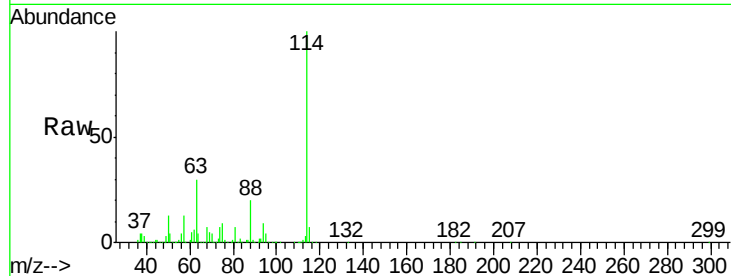
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034637.D
 Acq: 18 Feb 2020 23:39

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-SS

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

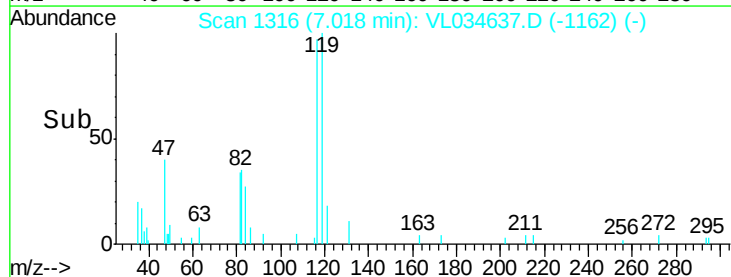
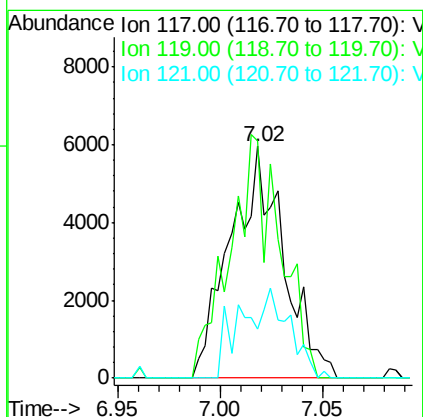
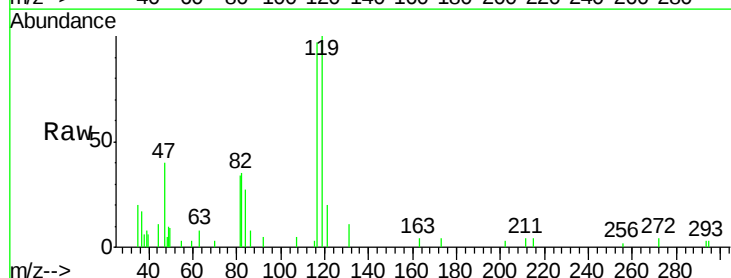
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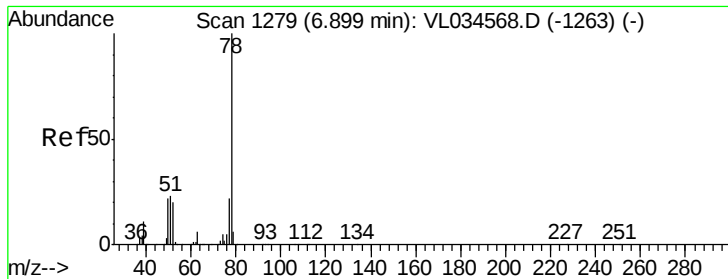
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#35
 Carbon Tetrachloride
 Concen: 0.064 ppbv m
 RT: 7.02 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: VL034637.D
 Acq: 18 Feb 2020 23:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	102.6	79.5	119.3
121	21.0	26.2	39.2#





#36

Benzene

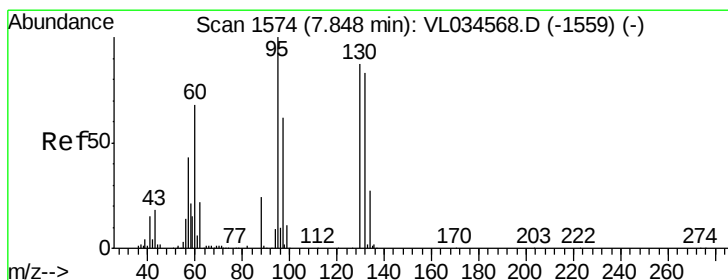
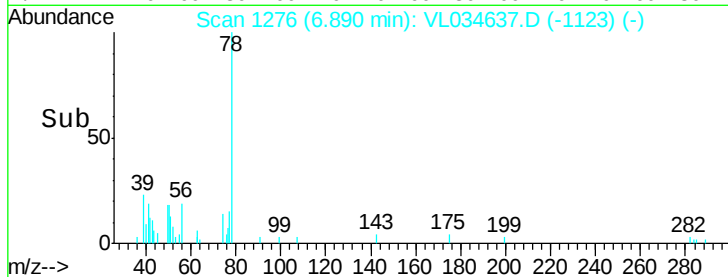
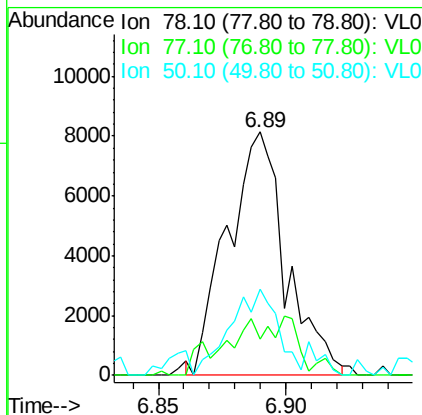
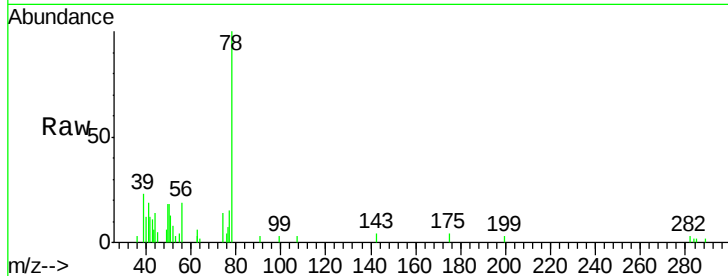
Concen: 0.083 ppbv m
 RT: 6.89 min Scan# 1276
 Delta R.T. -0.01 min
 Lab File: VL034637.D
 Acq: 18 Feb 2020 23:39

Instrument :
 MSVOA_L
 ClientSampled :
 DC-SS

Tot Ion	Ratio	Lower	Upper
78	100		
77	14.9	17.3	25.9#
50	17.7	17.4	26.2

Manual Integrations
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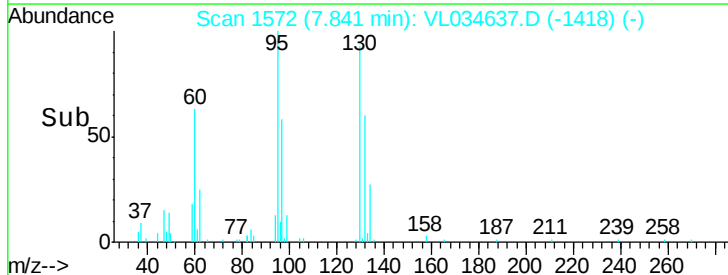
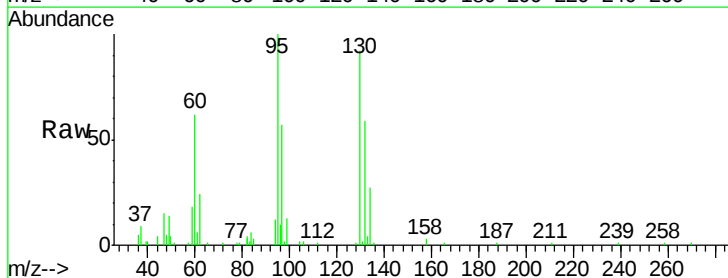
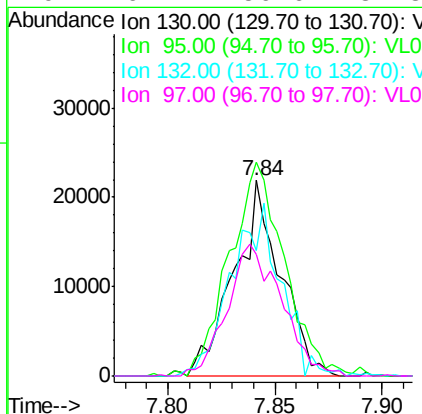


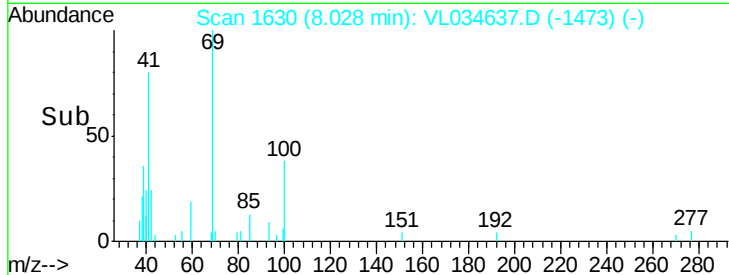
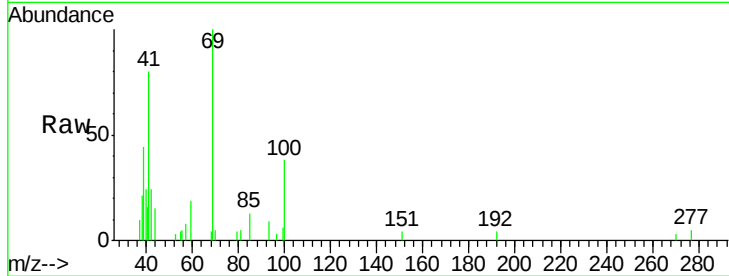
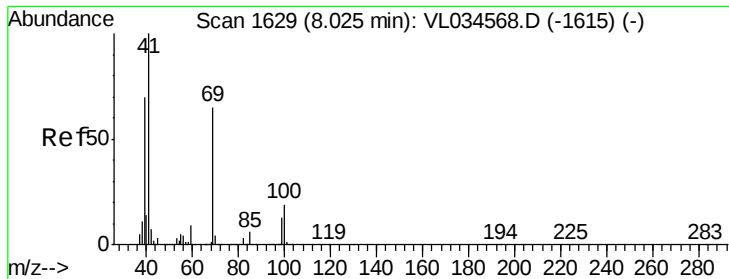
#38

Trichloroethene

Concen: 0.503 ppbv m
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VL034637.D
 Acq: 18 Feb 2020 23:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.2	91.6	137.4
132	64.0	76.1	114.1#
97	62.1	56.6	84.8





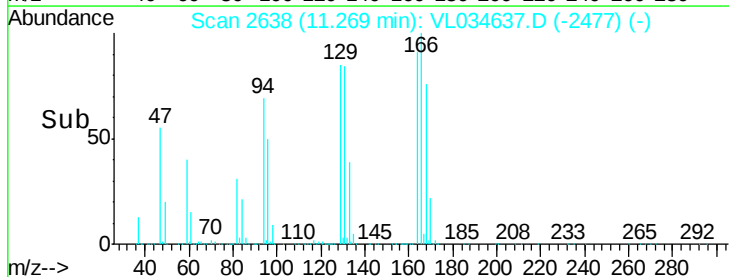
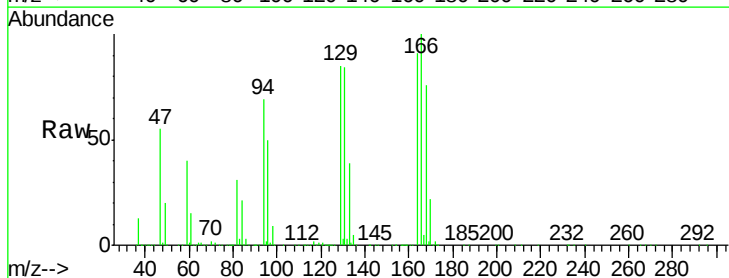
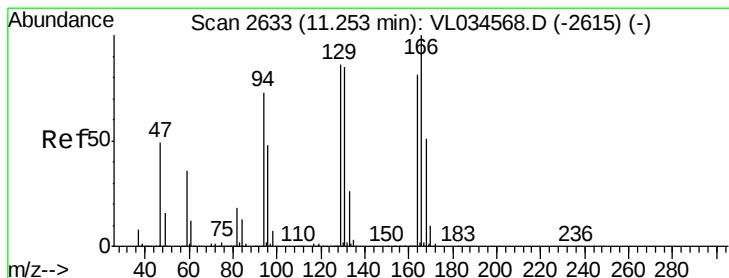
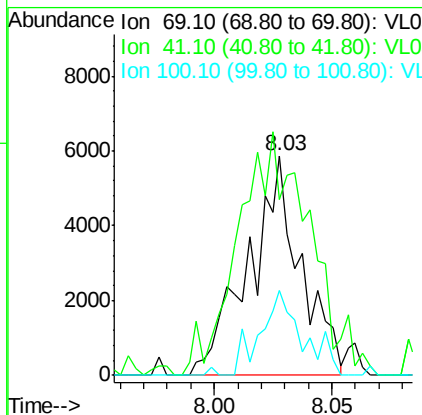
#43
Methvl Methacrylate
Concen: 0.145 ppbv m
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL034637.D
Acq: 18 Feb 2020 23:39

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	123.9	185.9#
100	0.0	24.1	36.1#

Instrument :
MSVOA_L
ClientSampleId :
DC-SS

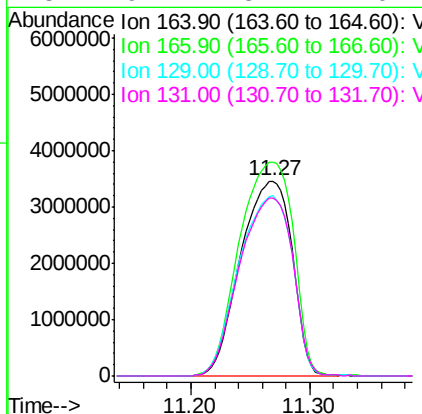
Manual Integrations
APPROVED

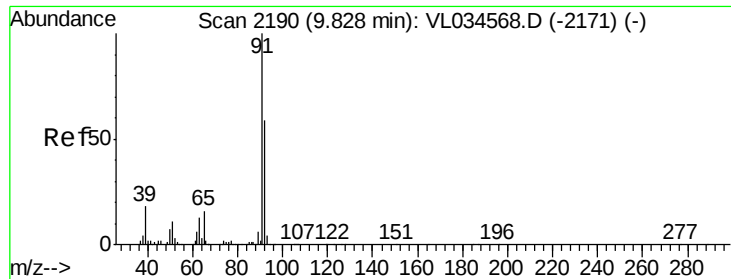
MMDadoda
2/21/2020 3:26:24 PM



#52
Tetrachloroethene
Concen: 166.026 ppbv
RT: 11.27 min Scan# 2638
Delta R.T. 0.02 min
Lab File: VL034637.D
Acq: 18 Feb 2020 23:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	109.3	99.0	148.4
129	92.7	85.3	127.9
131	91.4	84.2	126.2





#53

Toluene

Concen: 0.119 ppbv m

RT: 9.83 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL034637.D

Acq: 18 Feb 2020 23:39

Instrument :

MSVOA_L

ClientSampleId :

DC-SS

Tot Ion: 91 Resp: 20301

Ion Ratio Lower Upper

91 100

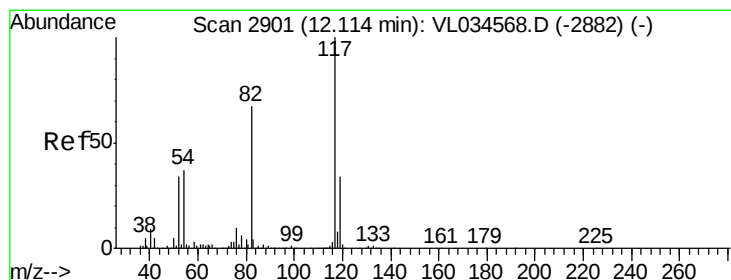
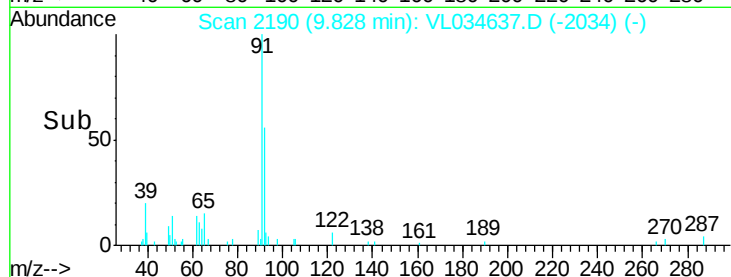
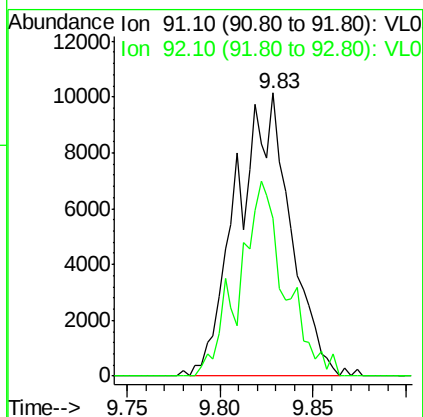
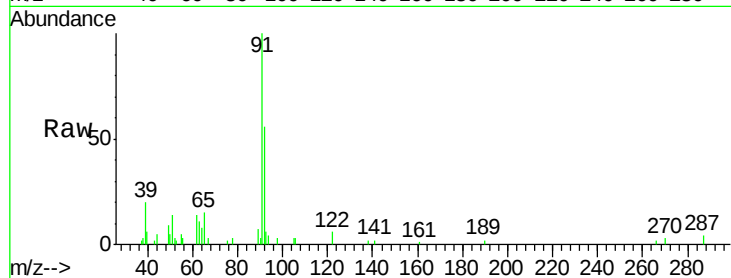
92 59.2 48.2 72.2

Manual Integrations

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2/21/2020 3:26:24 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.00 min

Lab File: VL034637.D

Acq: 18 Feb 2020 23:39

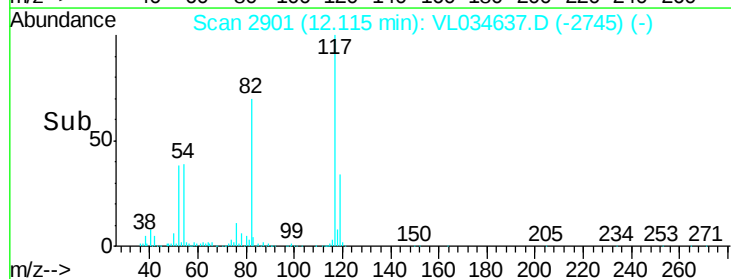
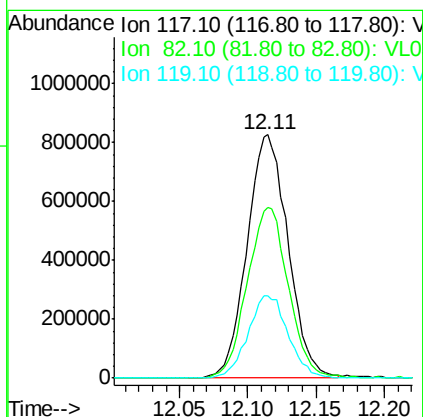
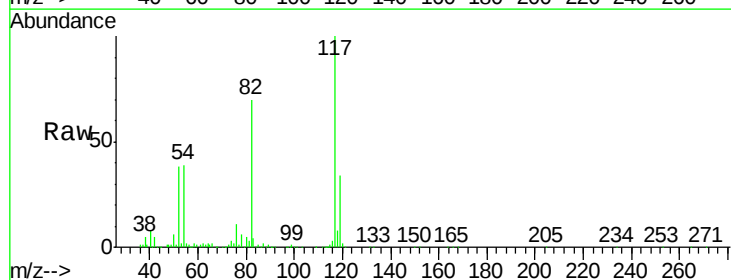
Tgt Ion: 117 Resp: 1722181

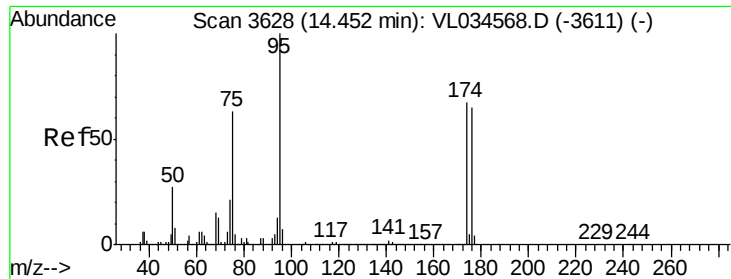
Ion Ratio Lower Upper

117 100

82 70.9 54.2 81.4

119 33.5 26.1 39.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.028 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. -0.00 min
 Lab File: VL034637.D
 Acq: 18 Feb 2020 23:39

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-SS

Tot Ion: 95 Resp: 1459500
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.3 78.5
 175 4.6 3.8 5.6

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:26:24 PM

