

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036518.D
 Acq On : 26 Mar 2021 17:48
 Operator : SY/AP
 Sample : M1760-12
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1-MAIN-ELECT-RM

Manual Integrations
 APPROVED

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 3/29/2021 4:39:25 PM

Quant Time: Mar 28 21:09:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 28 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1504844	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3389851	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	3075695	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2379472	9.71	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	70009	0.285	ppbv	90
9) Propene	3.03	41	110970m	1.238	ppbv	
11) Trichlorofluoromethane	3.97	101	56477	0.226	ppbv	100
13) Ethanol	3.64	45	6434994	602.880	ppbv	96
15) Acetone	3.87	43	1577768	10.653	ppbv	99
17) tert-Butyl alcohol	4.33	59	116769m	0.906	ppbv	
19) Isopropyl Alcohol	4.01	45	1729660	21.229	ppbv #	96
20) Methylene Chloride	4.36	84	858309	12.377	ppbv	96
26) Hexane	5.71	57	720087	4.407	ppbv	98
29) Chloroform	5.77	83	113430m	0.434	ppbv	
31) cis-1,2-Dichloroethene	5.57	61	378122m	2.392	ppbv	
32) 1,1,1-Trichloroethane	6.53	97	38442m	0.146	ppbv	
34) 2-Butanone	5.27	43	98557	0.596	ppbv #	90
35) Carbon Tetrachloride	7.04	117	19089m	0.073	ppbv	
36) Benzene	6.91	78	58656	0.188	ppbv #	88
38) Trichloroethene	7.86	130	583997	4.800	ppbv	95
53) Toluene	9.83	91	172964m	0.520	ppbv	
59) m/p-Xylene	12.99	91	64413m	0.165	ppbv	
61) Styrene	13.55	104	34505m	0.182	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	87226m	0.378	ppbv	

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

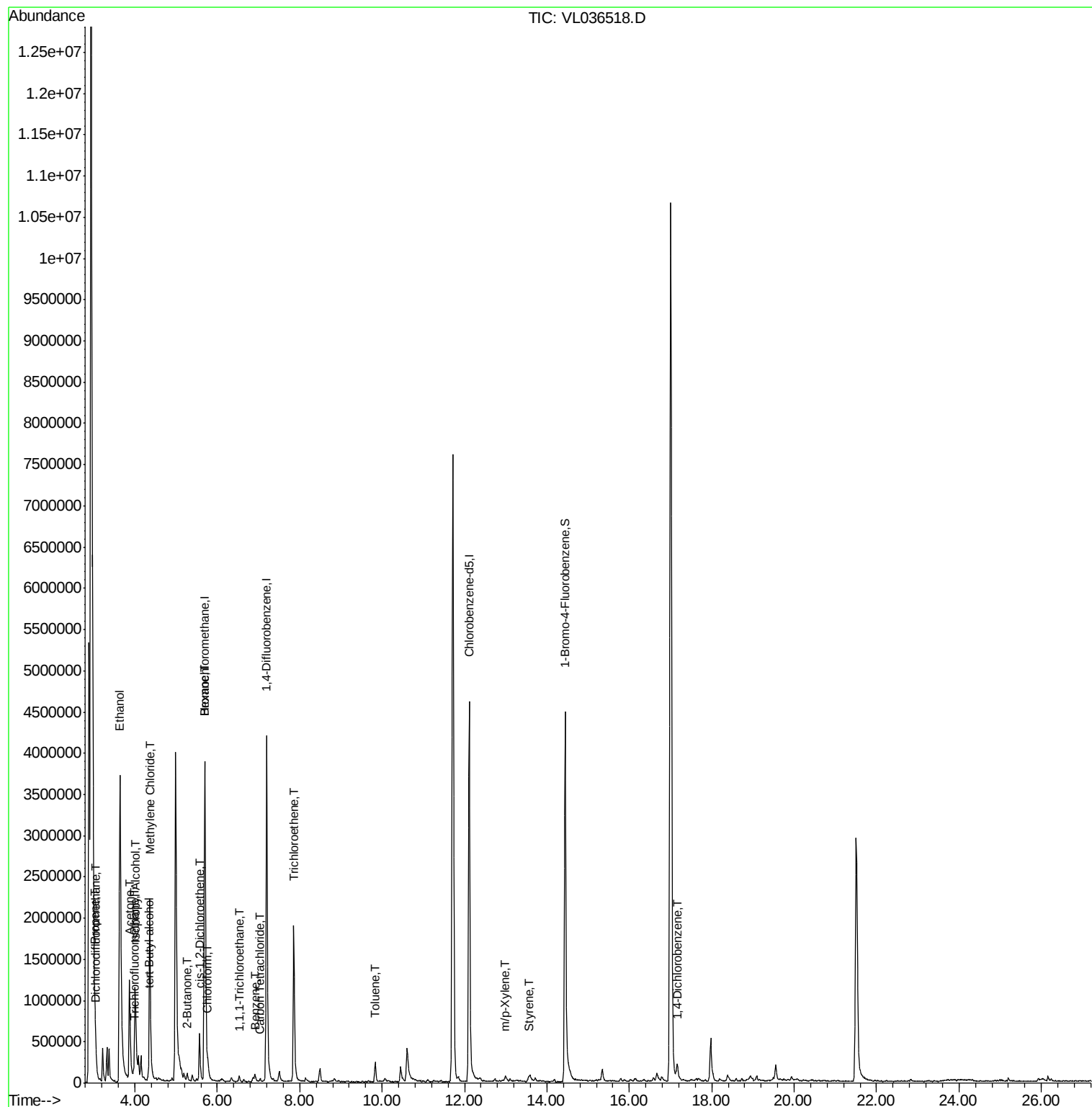
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036518.D
Acq On : 26 Mar 2021 17:48
Operator : SY/AP
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Quant Time: Mar 28 21:09:15 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL036518.D

Acq: 26 Mar 2021 17:48

Instrument :

MSVOA_L

ClientSampleId :

SS-1-MAIN-ELECT-RM

Tot Ion: 49 Resp: 1504844

Ion Ratio Lower Upper

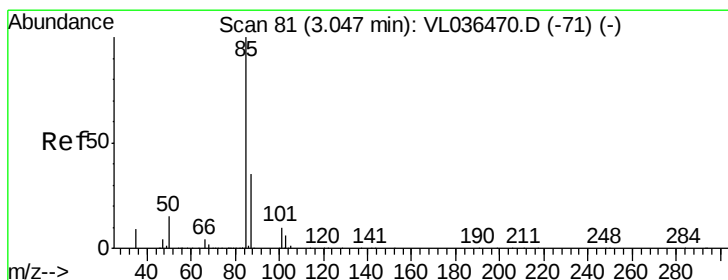
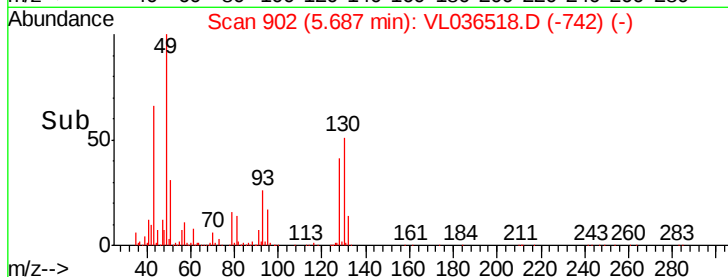
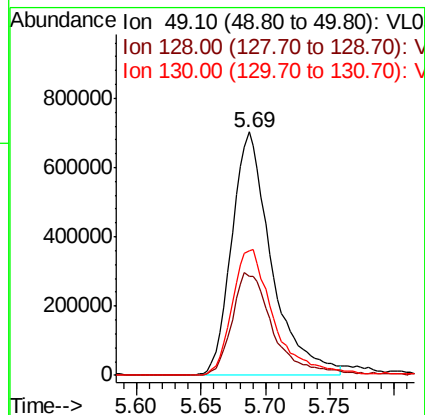
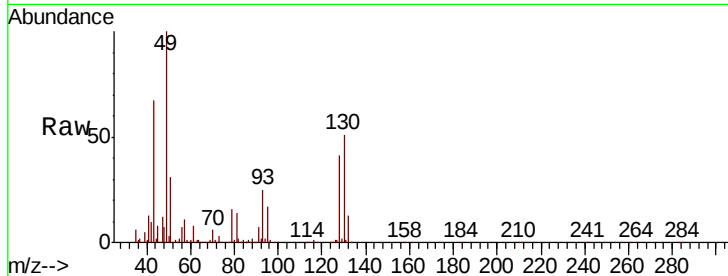
49 100

128 45.0 23.5 70.6

130 55.8 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.285 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL036518.D

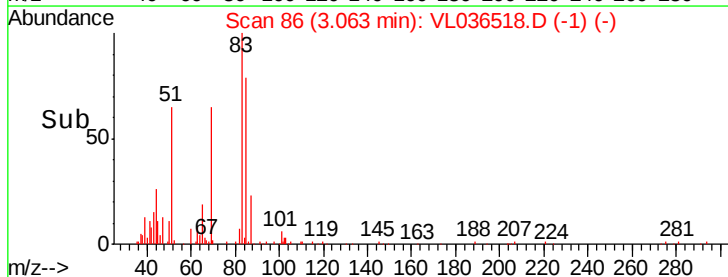
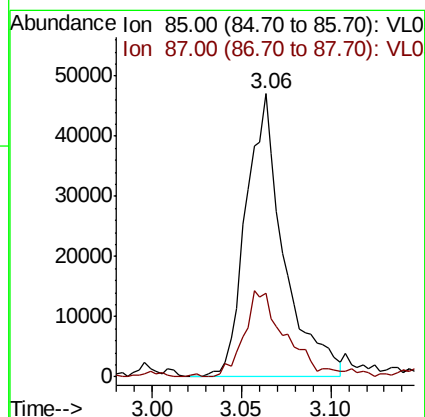
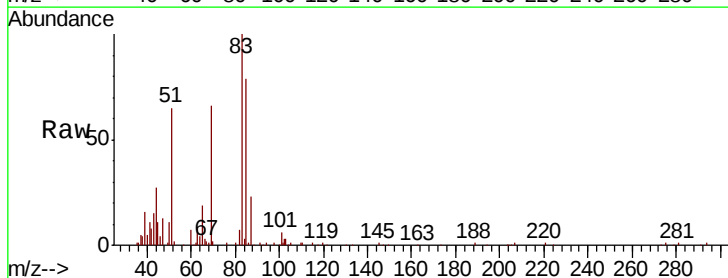
Acq: 26 Mar 2021 17:48

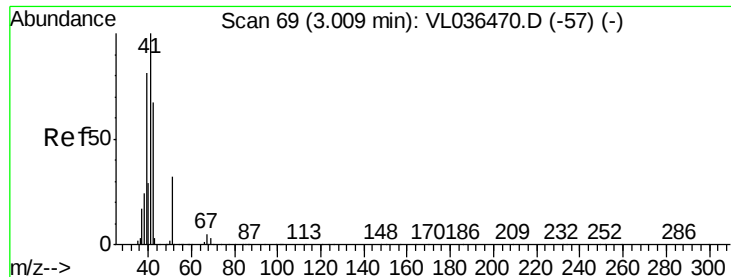
Tgt Ion: 85 Resp: 70009

Ion Ratio Lower Upper

85 100

87 28.9 27.8 41.8





#9

Propene

Concen: 1.238 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL036518.D

Acq: 26 Mar 2021 17:48

Instrument :

MSVOA_L

ClientSampleId :

SS-1-MAIN-ELECT-RM

Tot Ion: 41 Resp: 110970

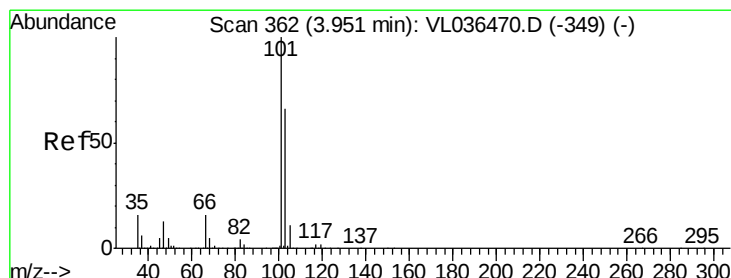
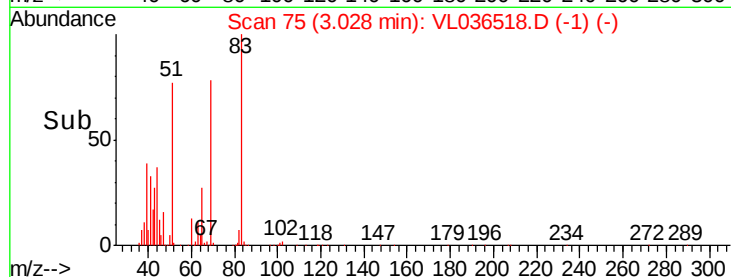
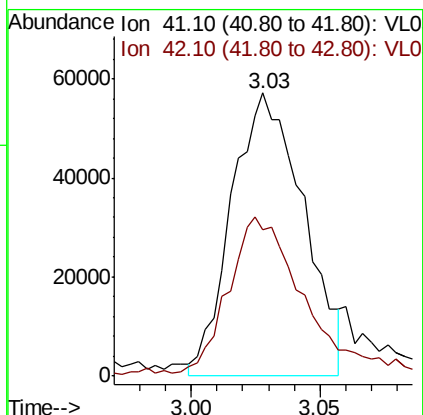
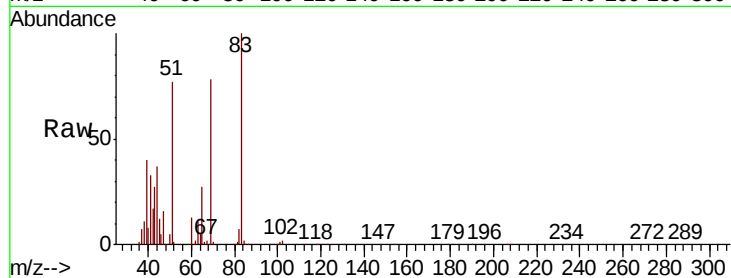
Ion Ratio Lower Upper

41 100

42 61.2 57.0 85.4

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.226 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL036518.D

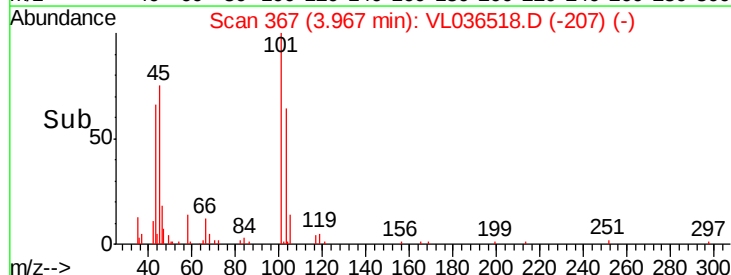
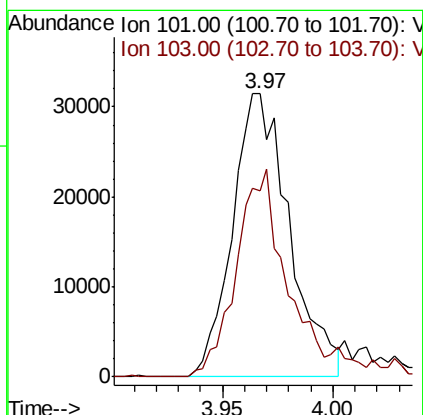
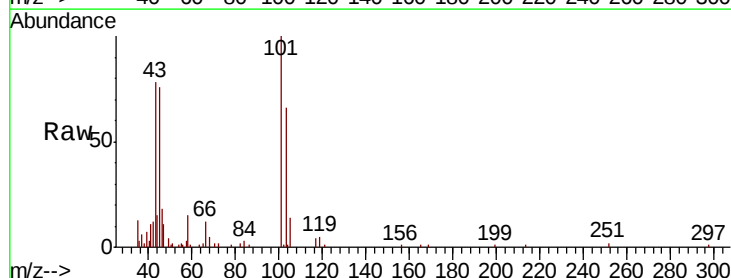
Acq: 26 Mar 2021 17:48

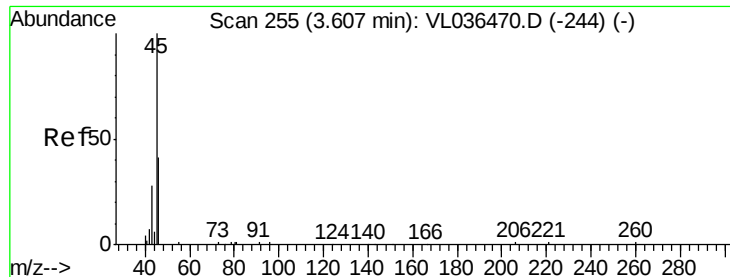
Tgt Ion: 101 Resp: 56477

Ion Ratio Lower Upper

101 100

103 65.9 52.5 78.7





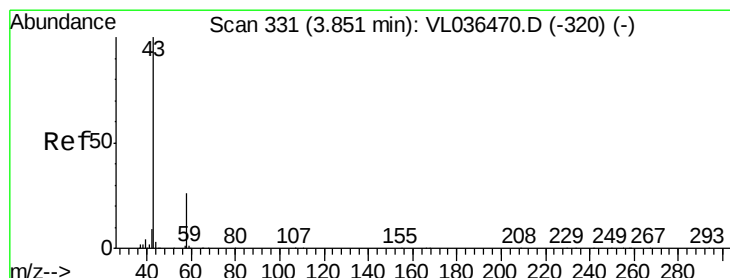
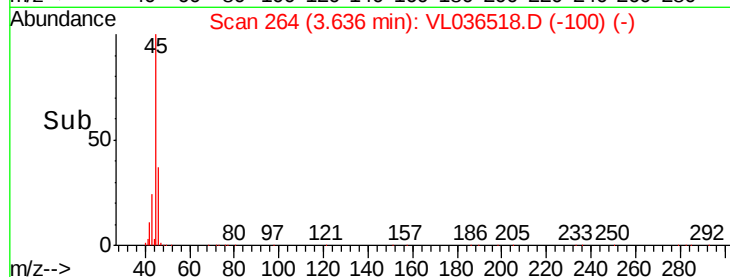
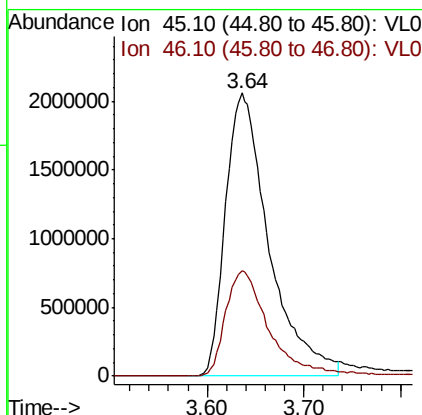
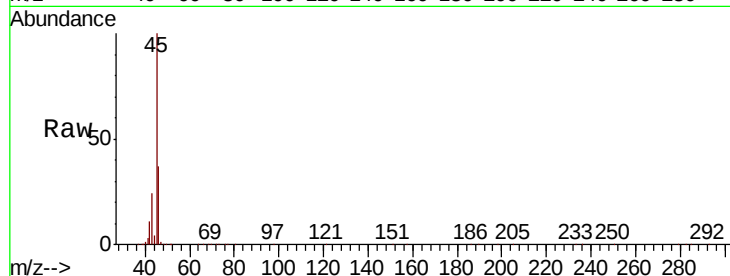
#13
Ethanol
Concen: 602.880 ppbv
RT: 3.64 min Scan# 264
Delta R.T. 0.03 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Instrument :
MSVOA_L
ClientSampleId :
SS-1-MAIN-ELECT-RM

Tot Ion: 45 Resp: 6434994
Ion Ratio Lower Upper
45 100
46 38.6 16.6 66.2

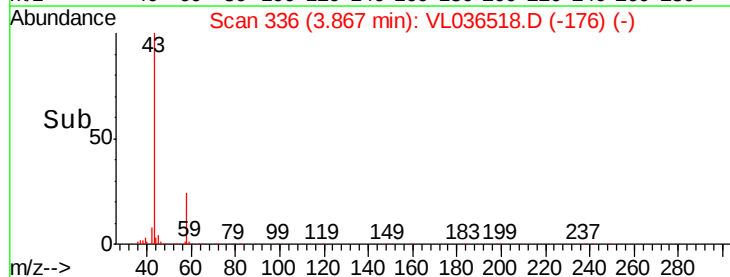
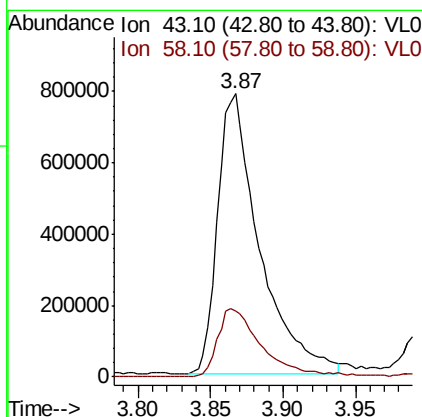
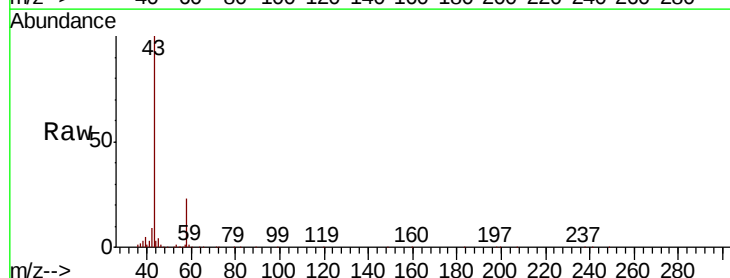
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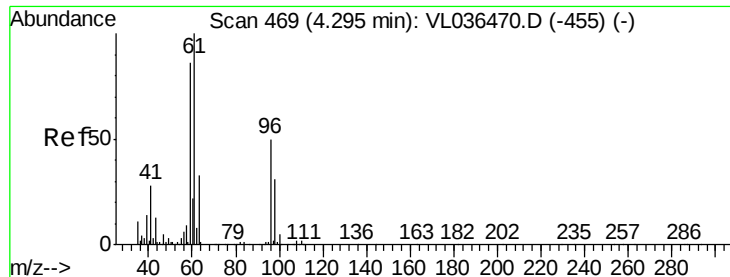
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#15
Acetone
Concen: 10.653 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Tgt Ion: 43 Resp: 1577768
Ion Ratio Lower Upper
43 100
58 26.0 21.2 31.8





#17

tert-Butyl alcohol

Concen: 0.906 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.04 min

Lab File: VL036518.D

Acq: 26 Mar 2021 17:48

Instrument :

MSVOA_L

ClientSampleId :

SS-1-MAIN-ELECT-RM

Tot Ion: 59 Resp: 116769

Ion Ratio Lower Upper

59 100

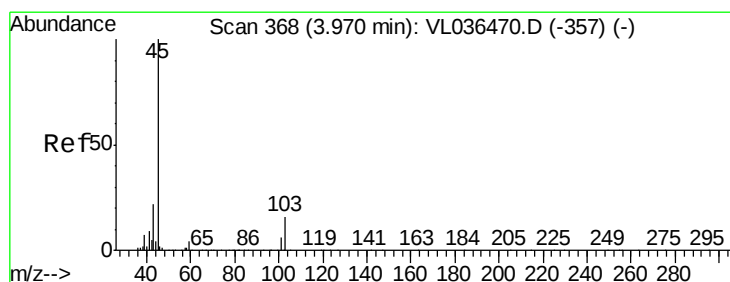
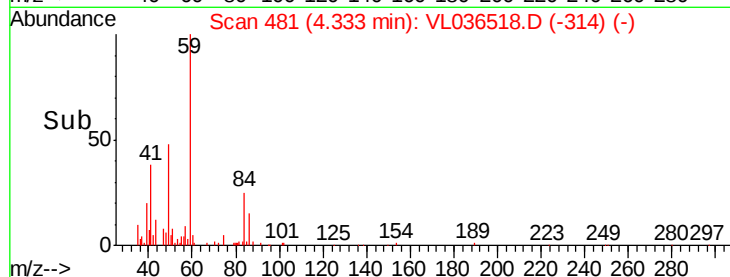
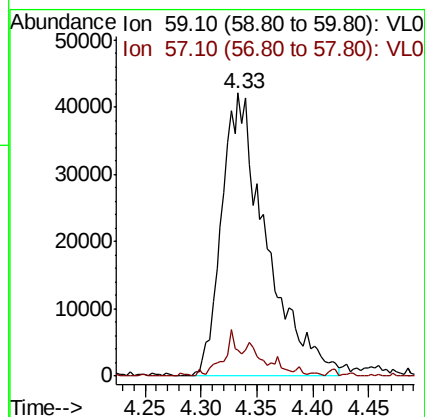
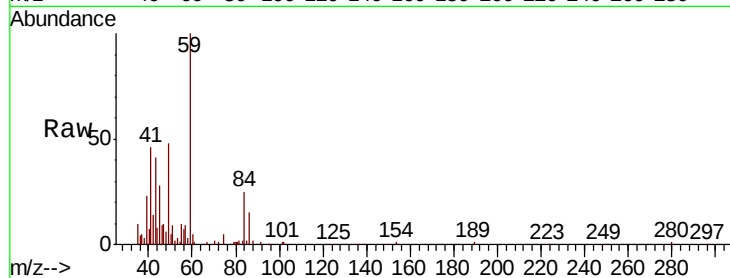
57 12.8 8.6 12.8

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 21.229 ppbv

RT: 4.01 min Scan# 379

Delta R.T. 0.04 min

Lab File: VL036518.D

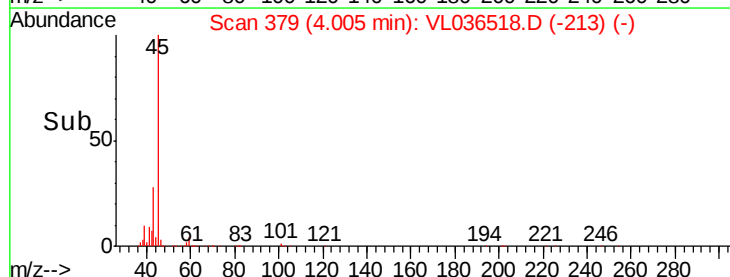
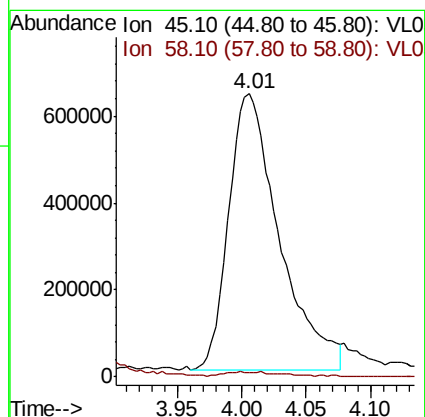
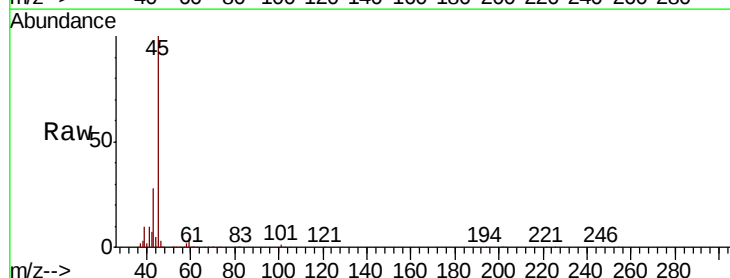
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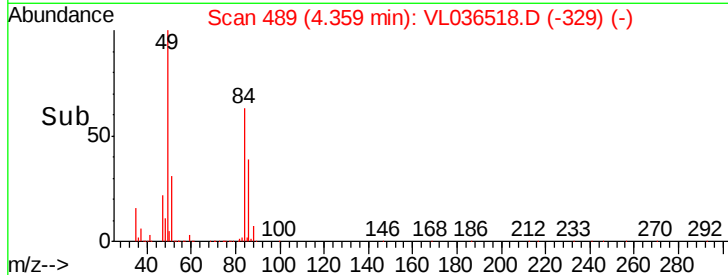
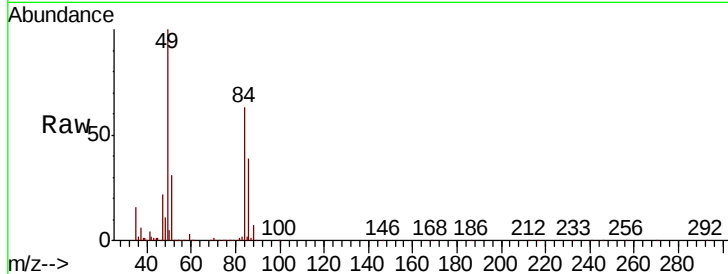
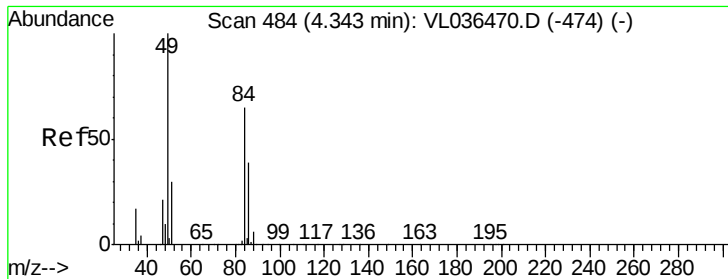
Tgt Ion: 45 Resp: 1729660

Ion Ratio Lower Upper

45 100

58 2.3 2.9 4.3#





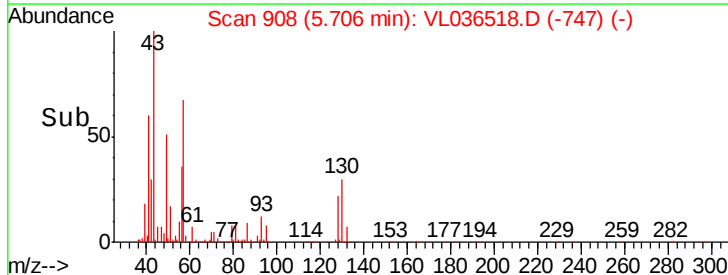
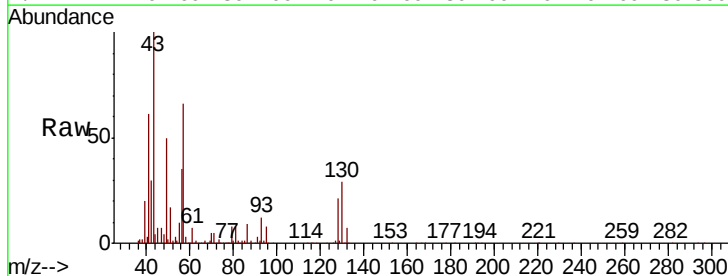
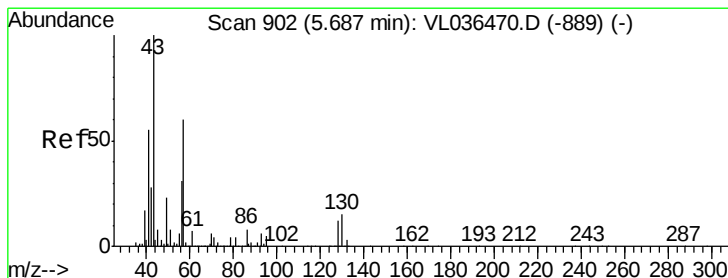
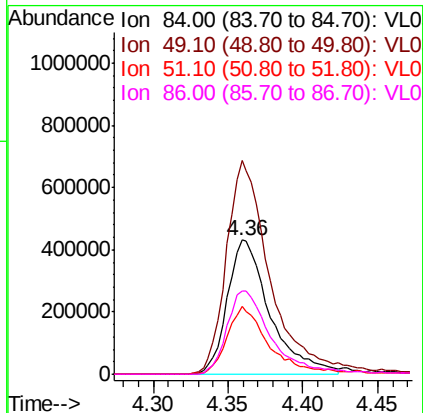
#20
Methvlene Chloride
Concen: 12.377 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	159.0	122.9	184.3	
51	49.8	36.9	55.3	
86	61.8	48.2	72.4	

Instrument :
MSVOA_L
ClientSampleId :
SS-1-MAIN-ELECT-RM

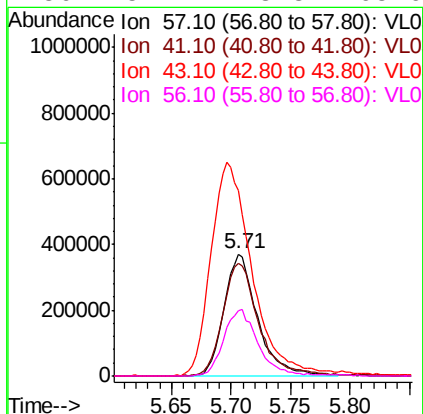
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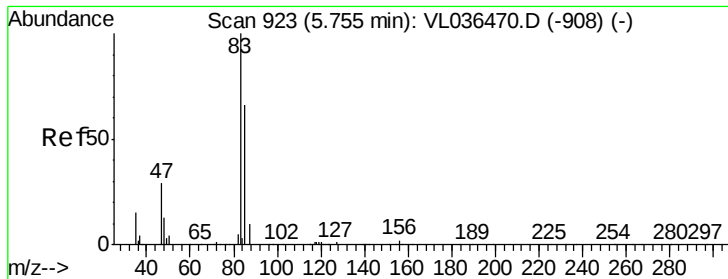
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#26
Hexane
Concen: 4.407 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	101.1	77.2	115.8	
43	218.2	173.8	260.6	
56	57.4	43.8	65.6	





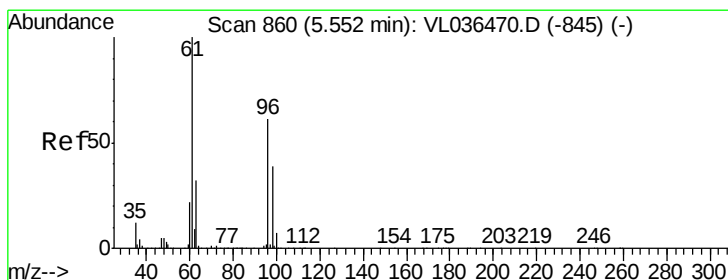
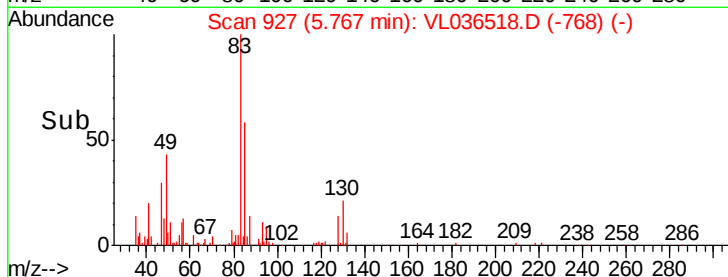
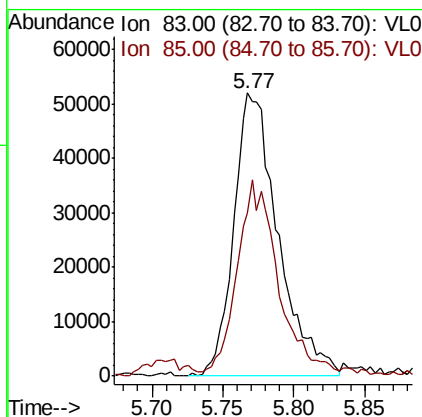
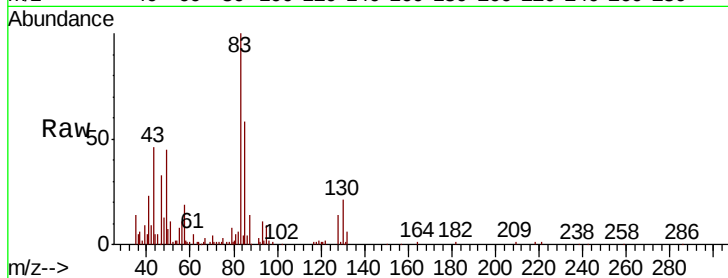
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Chloroform
Concen: 0.434 ppbv m
RT: 5.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Instrument :
MSVOA_L
ClientSampleId :
SS-1-MAIN-ELECT-RM

Tot Ion	83	Resp	113430
Ion Ratio	Lower	Upper	
83	100		
85	57.8	52.6	78.8

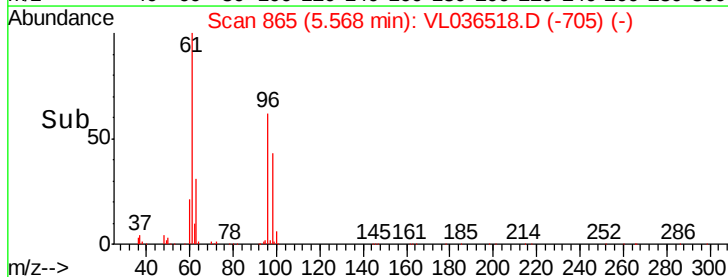
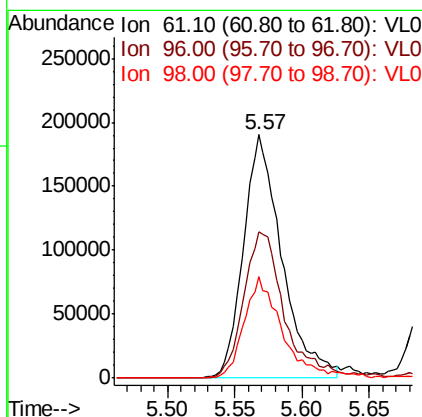
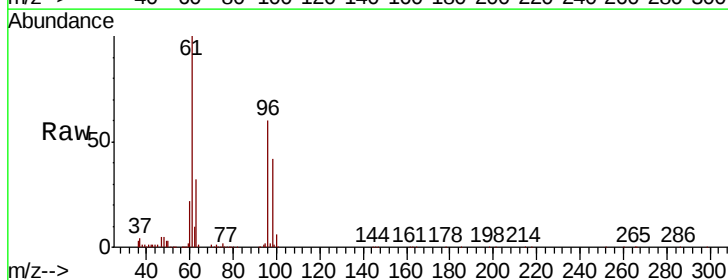
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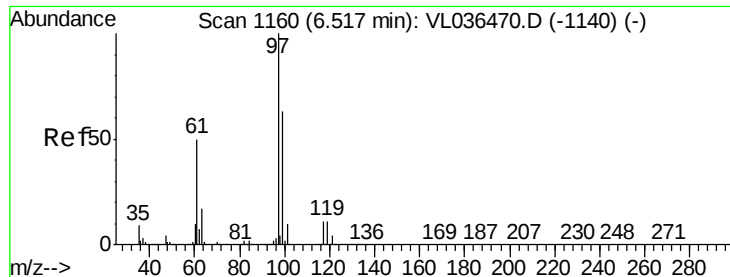
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#31
cis-1,2-Dichloroethene
Concen: 2.392 ppbv m
RT: 5.57 min Scan# 865
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Tgt Ion	61	Resp	378122
Ion Ratio	Lower	Upper	
61	100		
96	60.3	48.7	73.1
98	41.6	31.4	47.0





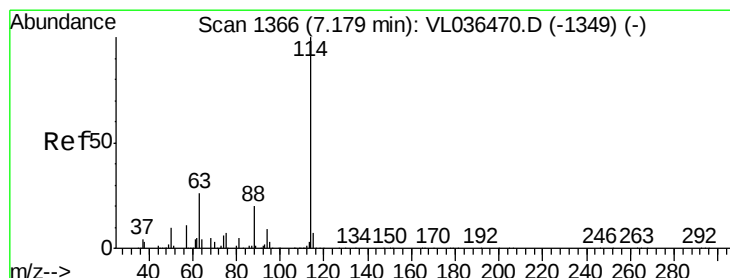
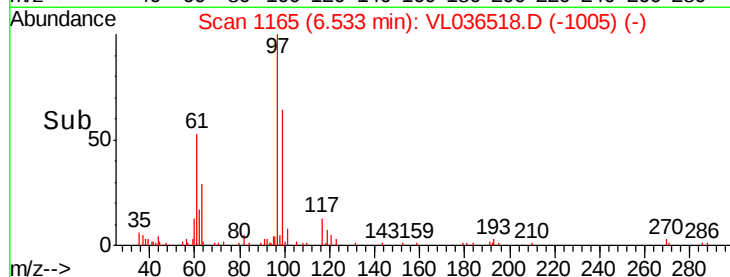
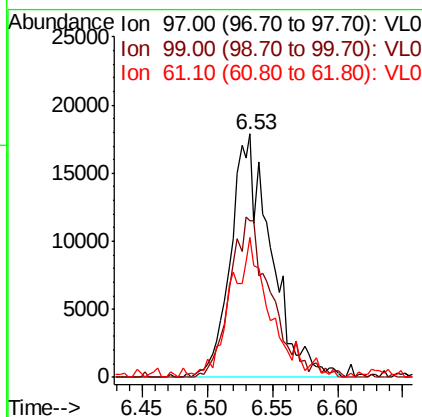
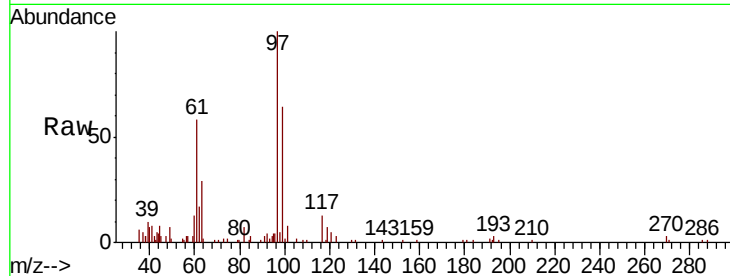
#32
 1,1,1-Trichloroethane
 Concen: 0.146 ppbv m
 RT: 6.53 min Scan# 1165
 Delta R.T. 0.02 min
 Lab File: VL036518.D
 Acq: 26 Mar 2021 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1-MAIN-ELECT-RM

Tot Ion	Ratio	Lower	Upper
97	100		
99	68.1	51.4	77.0
61	57.3	40.6	60.8

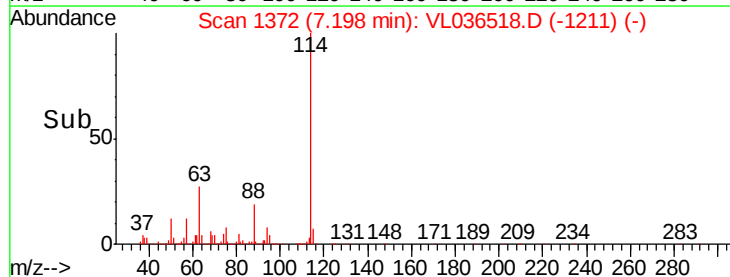
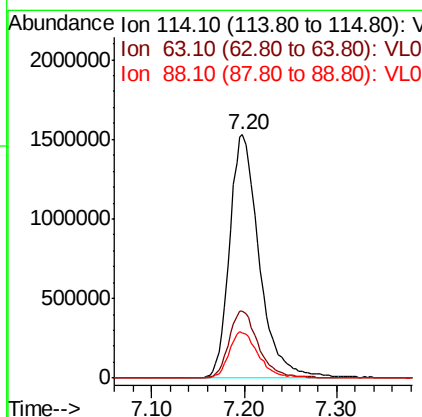
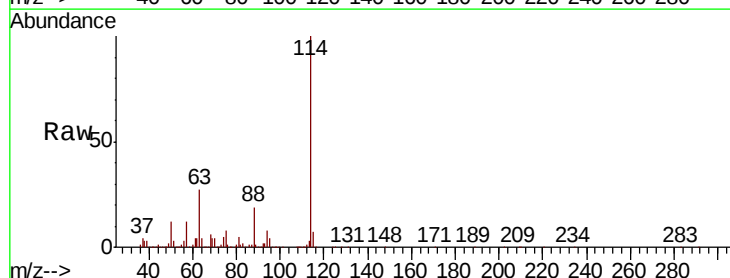
Manual Integrations
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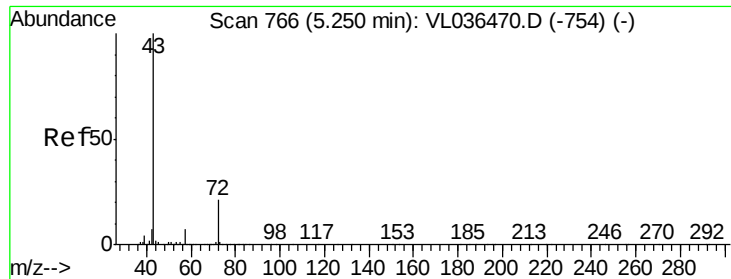
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.02 min
 Lab File: VL036518.D
 Acq: 26 Mar 2021 17:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	19.1	15.4	23.0





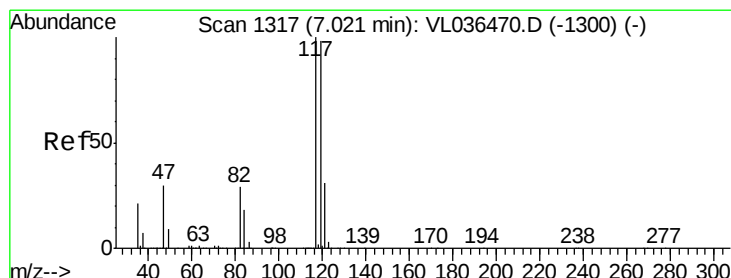
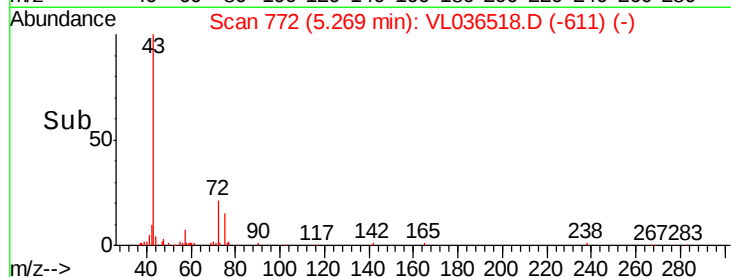
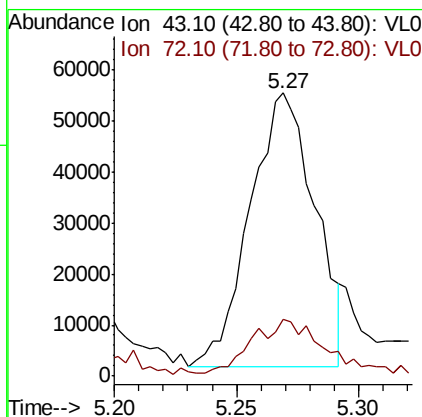
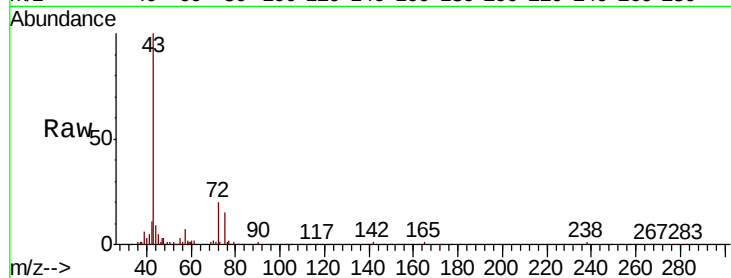
#34
2-Butanone
Concen: 0.596 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Instrument :
MSVOA_L
ClientSampleId :
SS-1-MAIN-ELECT-RM

Tot Ion: 43 Resp: 98557
Ion Ratio Lower Upper
43 100
72 26.2 17.0 25.6#

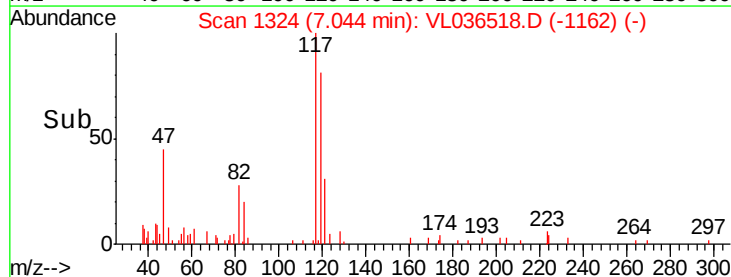
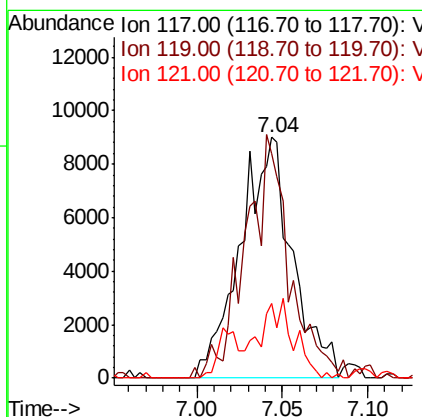
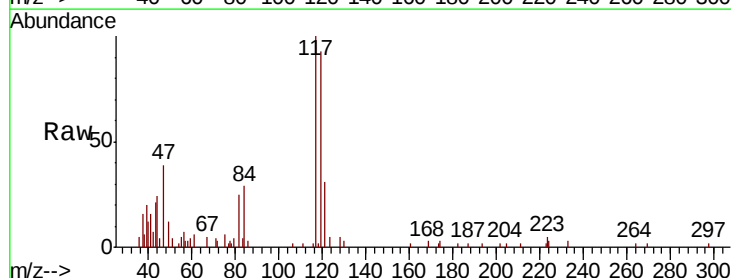
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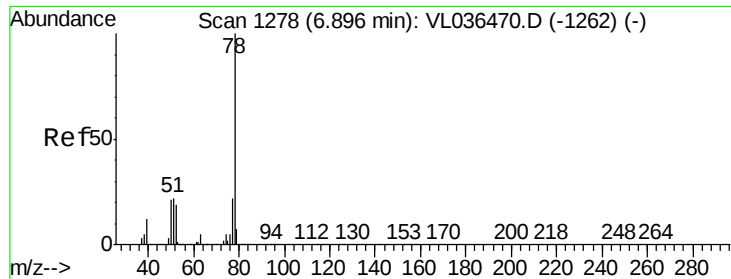
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#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 7.04 min Scan# 1324
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Tgt Ion: 117 Resp: 19089
Ion Ratio Lower Upper
117 100
119 92.9 78.2 117.2
121 31.2 24.5 36.7





#36

Benzene

Concen: 0.188 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL036518.D

Acq: 26 Mar 2021 17:48

Instrument :

MSVOA_L

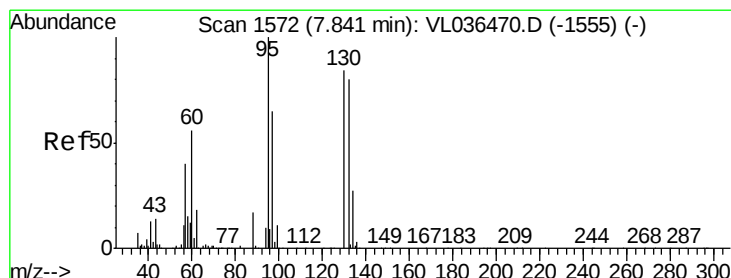
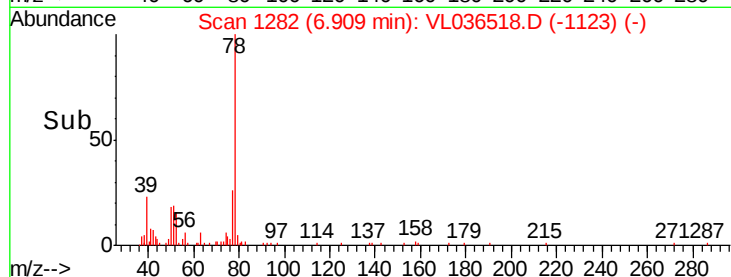
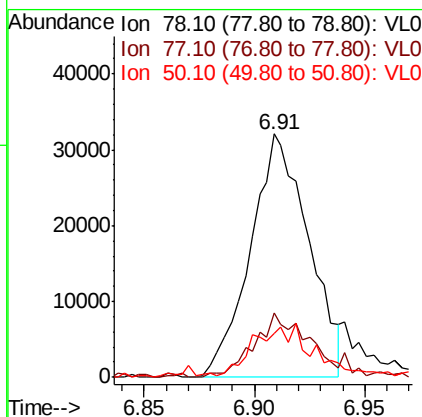
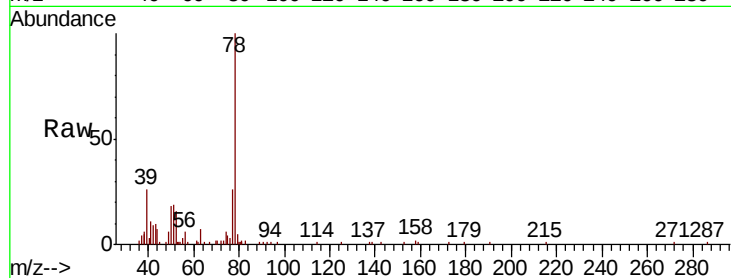
ClientSampleId :

SS-1-MAIN-ELECT-RM

Tot Ion:	78	Resp:	58656
Ion Ratio	Lower	Upper	
78	100		
77	26.4	18.0	27.0
50	12.7	16.5	24.7#

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#38

Trichloroethene

Concen: 4.800 ppbv

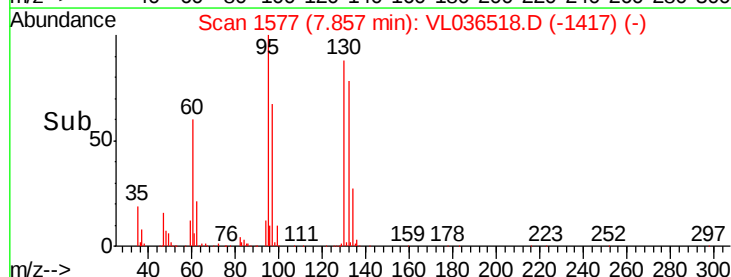
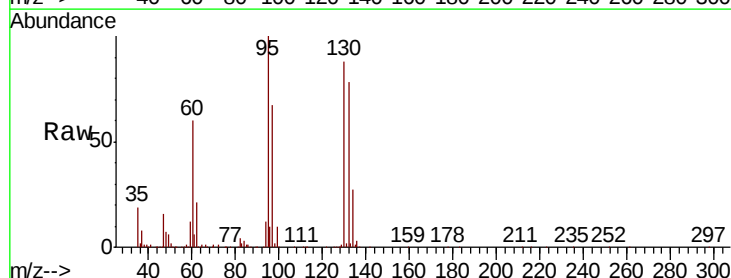
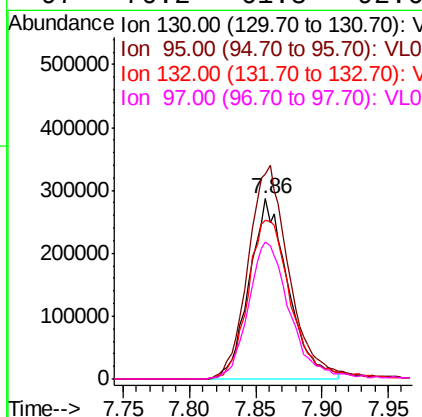
RT: 7.86 min Scan# 1577

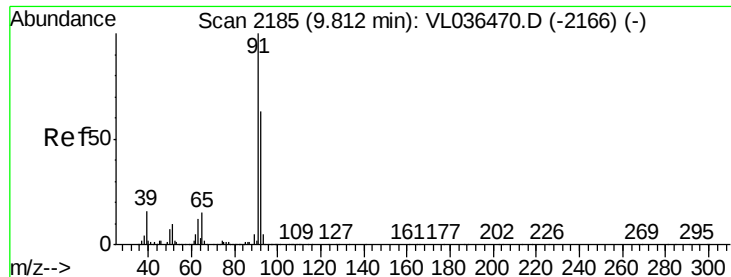
Delta R.T. 0.02 min

Lab File: VL036518.D

Acq: 26 Mar 2021 17:48

Tgt Ion:	130	Resp:	583997
Ion Ratio	Lower	Upper	
130	100		
95	113.5	95.7	143.5
132	88.1	76.2	114.4
97	76.2	61.8	92.6





#53

Toluene

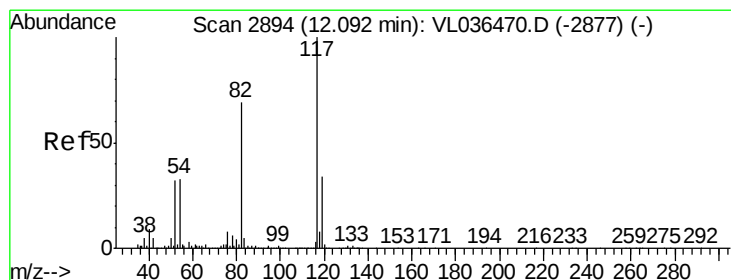
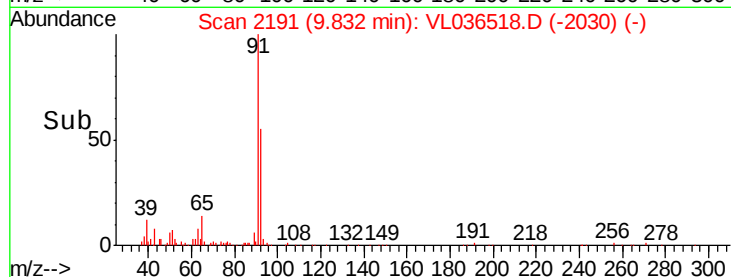
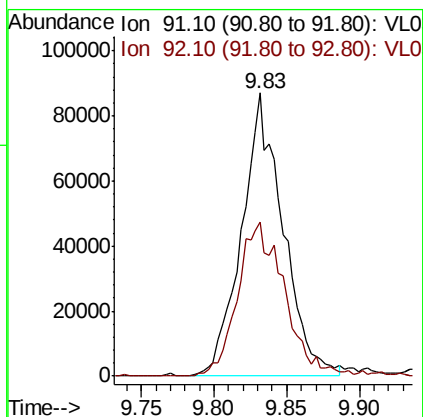
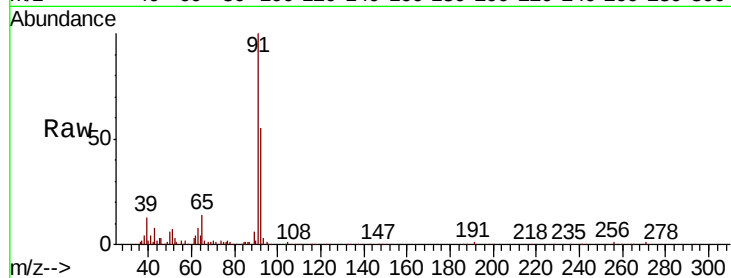
Concen: 0.520 ppbv m
RT: 9.83 min Scan# 2191
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Instrument :
MSVOA_L
ClientSampleId :
SS-1-MAIN-ELECT-RM

Tot Ion: 91 Resp: 172964
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2#

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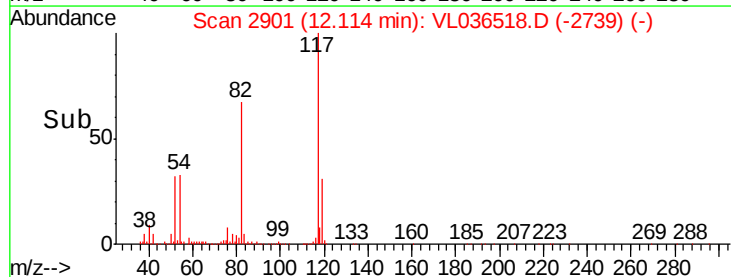
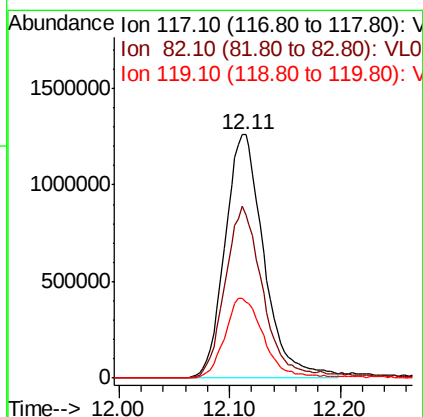
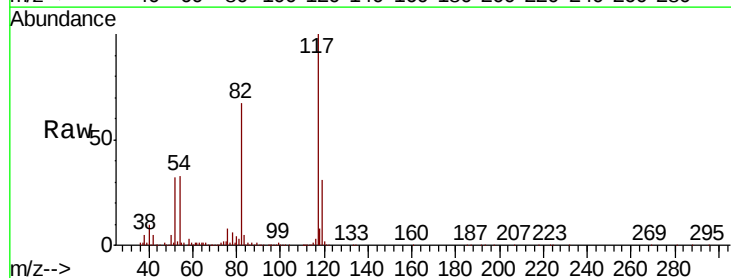


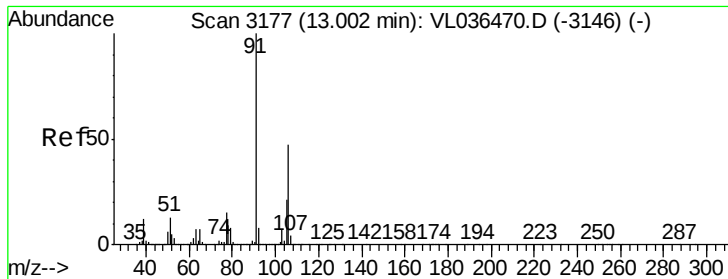
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Tgt Ion: 117 Resp: 3075695
Ion Ratio Lower Upper
117 100
82 71.3 57.4 86.0
119 34.0 47.4 71.0#





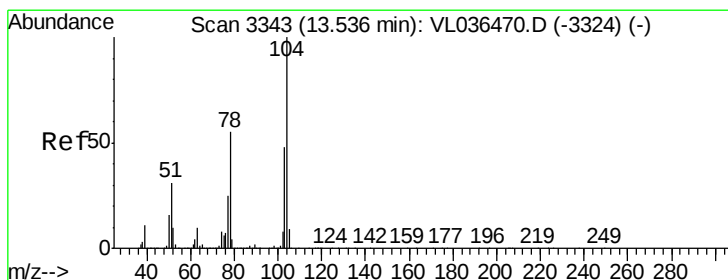
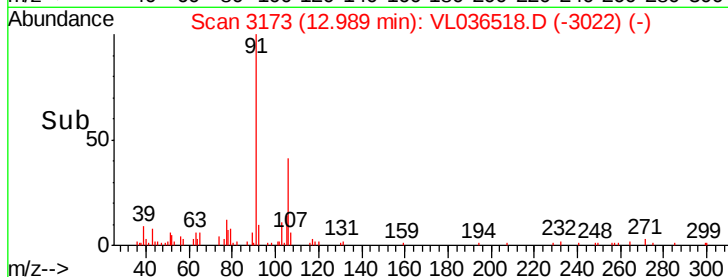
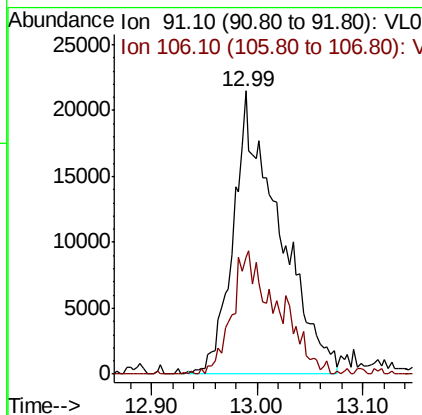
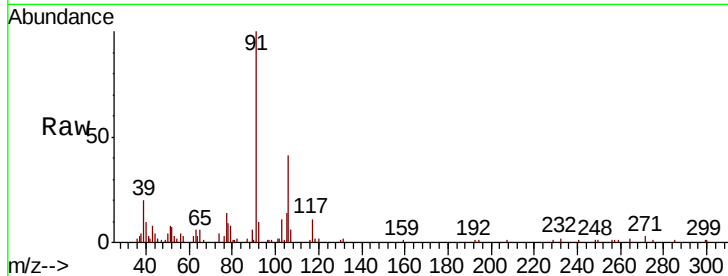
#59
m/p-Xylene
Concen: 0.165 ppbv m
RT: 12.99 min Scan# 3173
Delta R.T. -0.01 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Instrument :
MSVOA_L
ClientSampleId :
SS-1-MAIN-ELECT-RM

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#

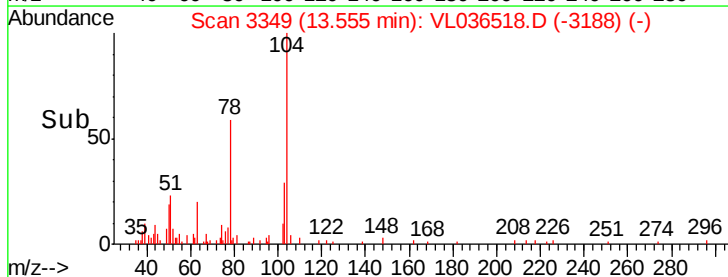
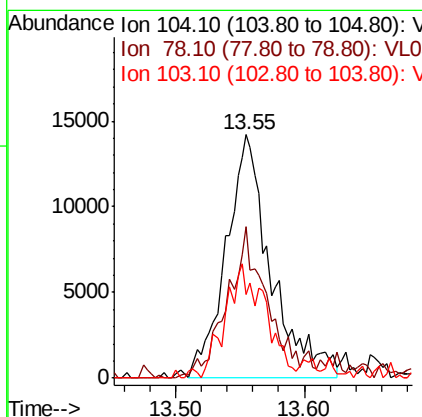
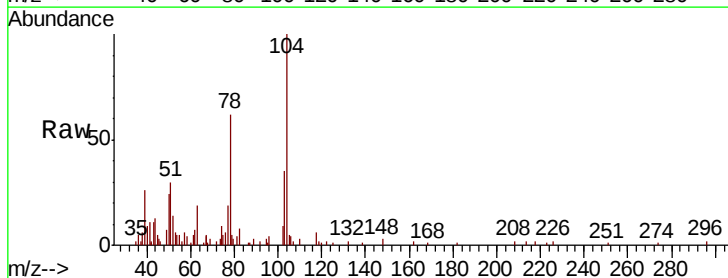
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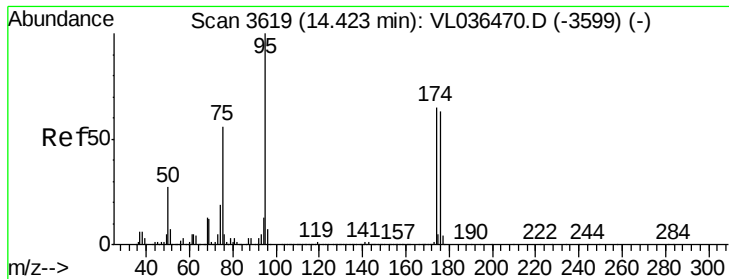
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#61
Styrene
Concen: 0.182 ppbv m
RT: 13.55 min Scan# 3349
Delta R.T. 0.02 min
Lab File: VL036518.D
Acq: 26 Mar 2021 17:48

Tgt Ion	Ratio	Lower	Upper
104	100		
78	60.3	43.8	65.8
103	47.2	38.3	57.5





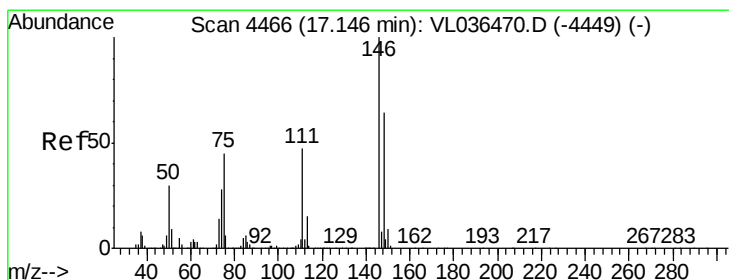
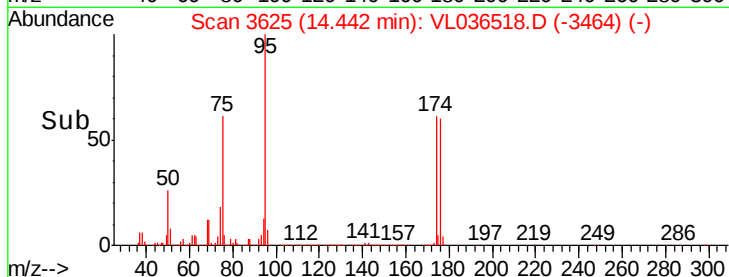
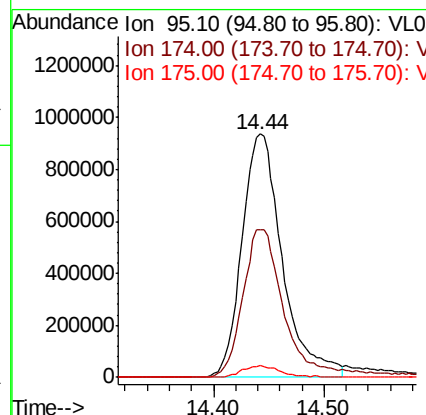
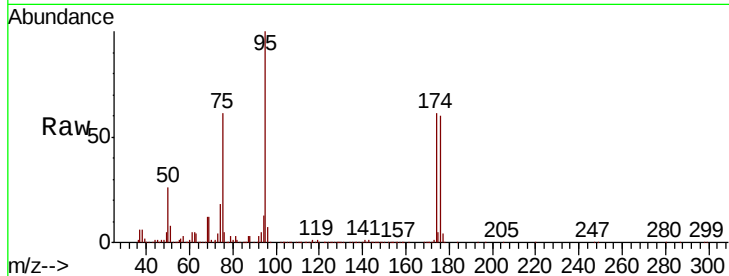
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.707 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. 0.02 min
 Lab File: VL036518.D
 Acq: 26 Mar 2021 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1-MAIN-ELECT-RM

Tot Ion: 95 Resp: 2379472
 Ion Ratio Lower Upper
 95 100
 174 64.7 51.0 76.6
 175 4.9 3.9 5.9

Manual Integrations
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#76
 1,4-Dichlorobenzene
 Concen: 0.378 ppbv m
 RT: 17.17 min Scan# 4473
 Delta R.T. 0.02 min
 Lab File: VL036518.D
 Acq: 26 Mar 2021 17:48

Tgt Ion: 146 Resp: 87226
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 72.8#
 148 0.0 33.0 98.9#

