

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036530.D
 Acq On : 27 Mar 2021 1:49
 Operator : SY/AP
 Sample : M1760-18
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-STORAGE-RM

Manual Integrations
 APPROVED

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 3/29/2021 4:40:12 PM

Quant Time: Mar 28 21:37:48 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	5.66	49	1380615	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3051633	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2867203	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2196815	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	46298	0.206	ppbv	94
4) Chloromethane	3.14	50	39109	0.429	ppbv	93
9) Propene	3.02	41	44772m	0.544	ppbv	
11) Trichlorofluoromethane	3.95	101	47467	0.207	ppbv	86
13) Ethanol	3.62	45	1916802	195.740	ppbv	95
15) Acetone	3.85	43	1028259	7.567	ppbv	100
19) Isopropyl Alcohol	3.99	45	470624	6.296	ppbv	99
20) Methylene Chloride	4.34	84	757820	11.911	ppbv	91
26) Hexane	5.69	57	511860	3.414	ppbv #	77
29) Chloroform	5.75	83	23804m	0.099	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	35146m	0.242	ppbv	
34) 2-Butanone	5.25	43	53553	0.360	ppbv #	80
35) Carbon Tetrachloride	7.02	117	15280m	0.065	ppbv	
36) Benzene	6.89	78	34185m	0.121	ppbv	
38) Trichloroethene	7.83	130	190553m	1.740	ppbv	
53) Toluene	9.80	91	104611	0.349	ppbv	97
59) m/p-Xylene	12.97	91	37658m	0.104	ppbv	
61) Styrene	13.53	104	19773m	0.112	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	46144m	0.214	ppbv	

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

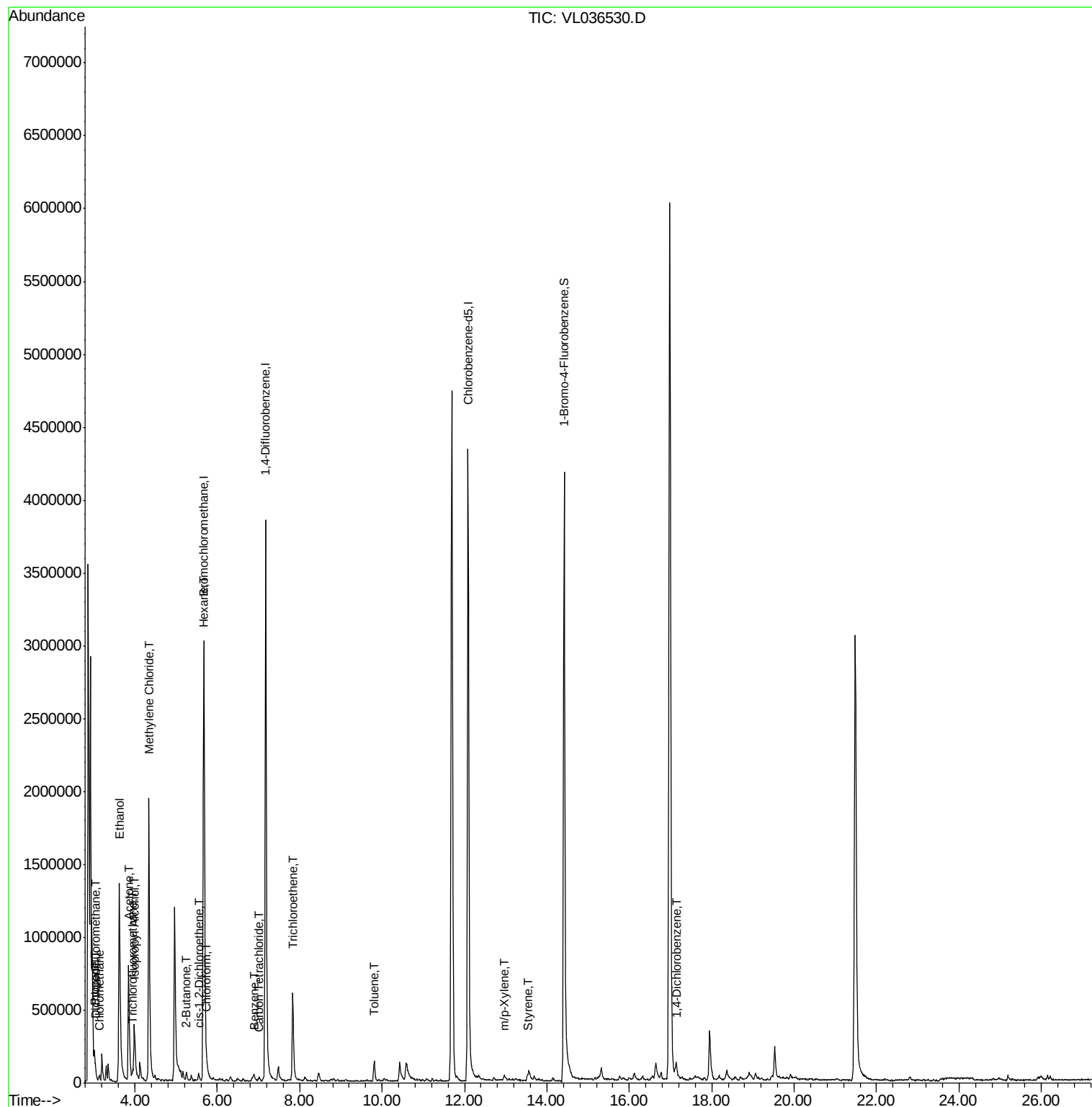
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036530.D
Acq On : 27 Mar 2021 1:49
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Quant Time: Mar 28 21:37:48 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

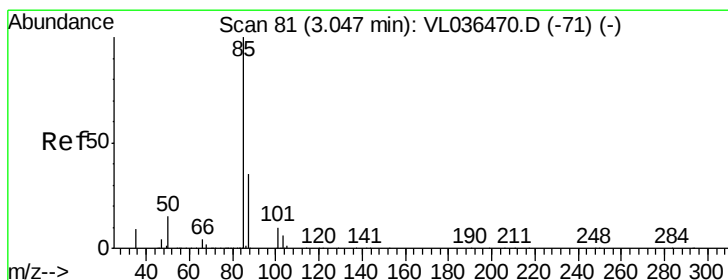
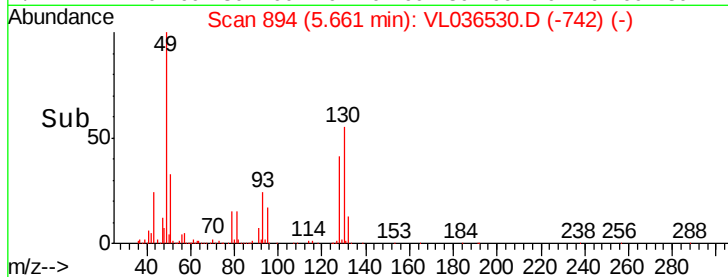
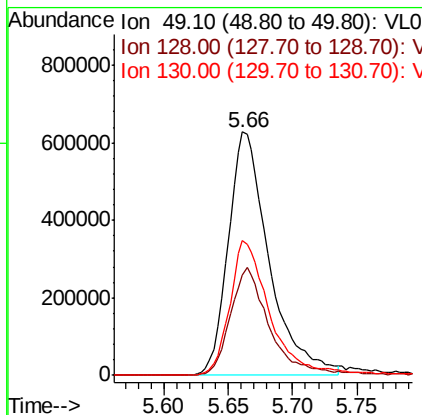
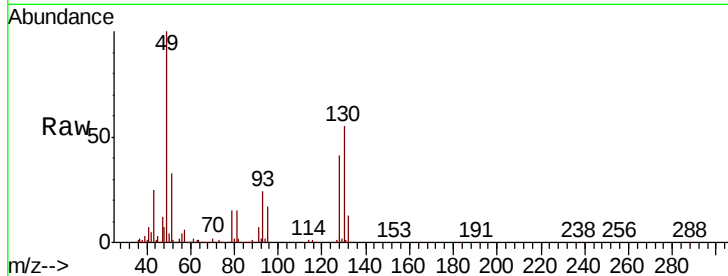
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: VL036530.D
 Acq: 27 Mar 2021 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
49	100		
128	43.1	23.5	70.6
130	55.5	29.1	87.4

Manual Integrations
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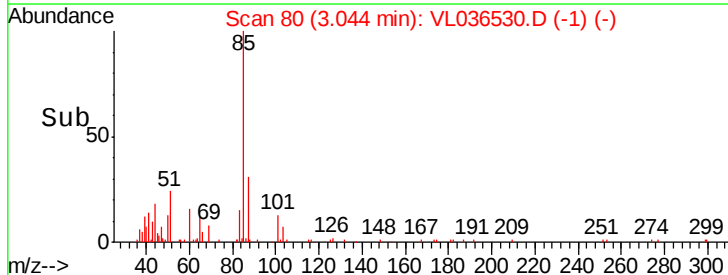
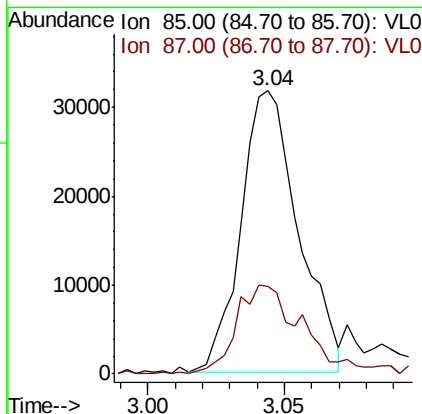
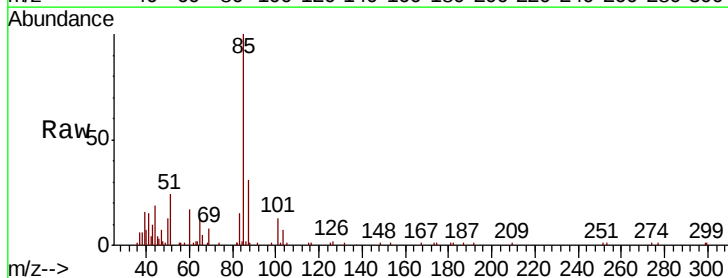
MMDadoda
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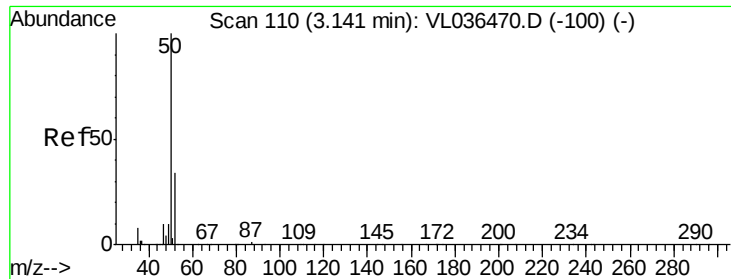


#2

Dichlorodifluoromethane
 Concen: 0.206 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.00 min
 Lab File: VL036530.D
 Acq: 27 Mar 2021 1:49

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.2	27.8	41.8





#4

Chloromethane

Concen: 0.429 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036530.D

Acq: 27 Mar 2021 1:49

Instrument :

MSVOA_L

ClientSampleId :

SS-4-STORAGE-RM

Tot Ion: 50 Resp: 39109

Ion Ratio Lower Upper

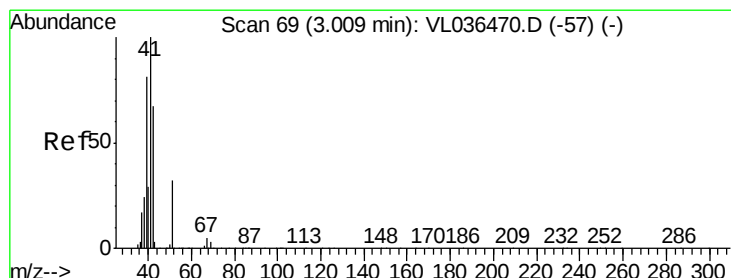
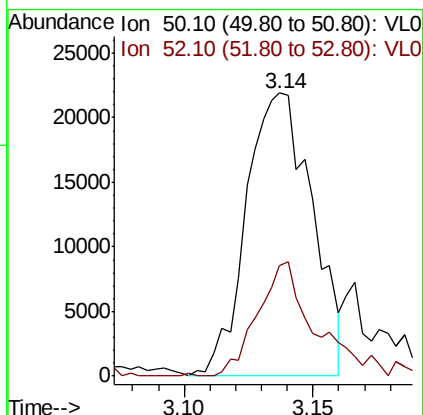
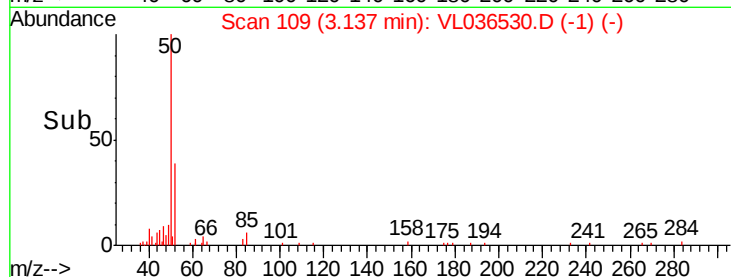
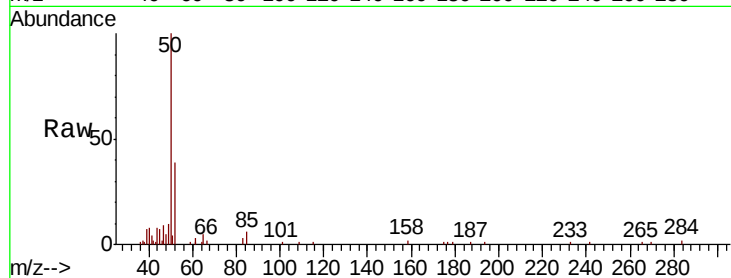
50 100

52 37.9 27.0 40.6

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#9

Propene

Concen: 0.544 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036530.D

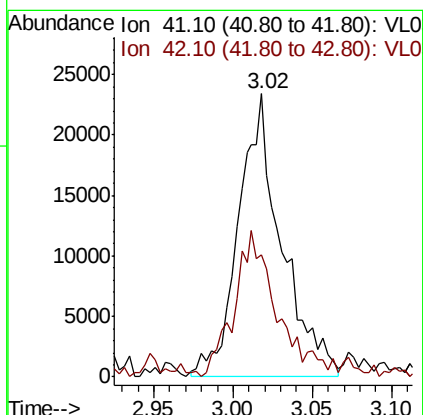
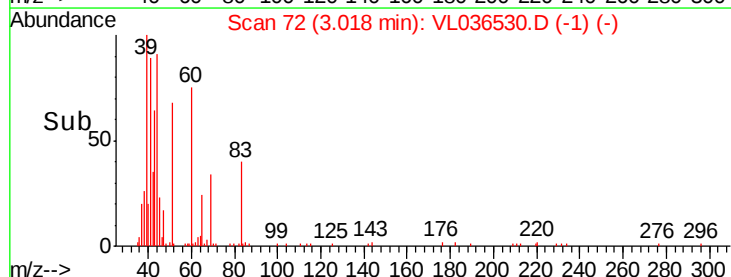
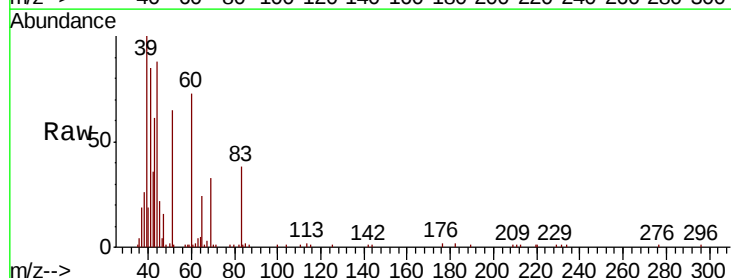
Acq: 27 Mar 2021 1:49

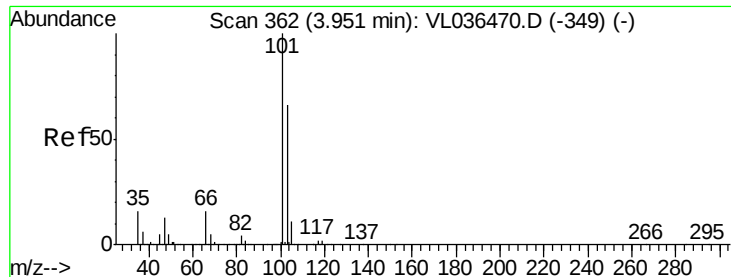
Tgt Ion: 41 Resp: 44772

Ion Ratio Lower Upper

41 100

42 54.8 57.0 85.4#





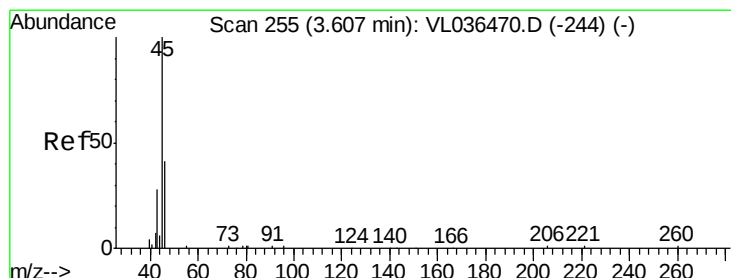
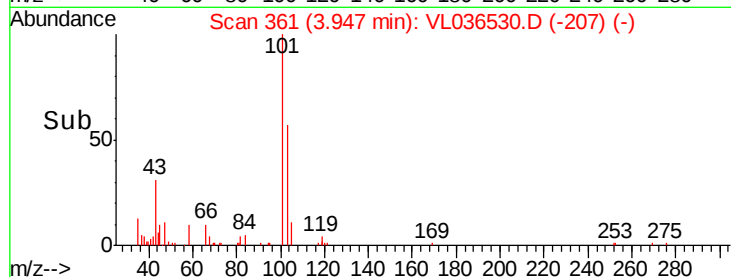
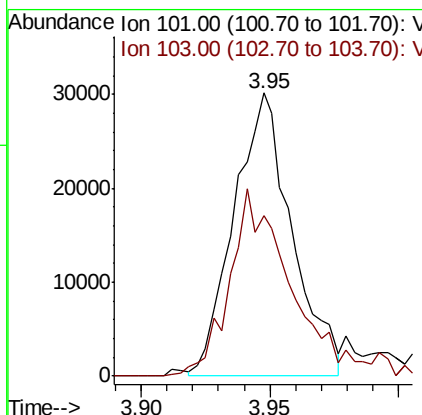
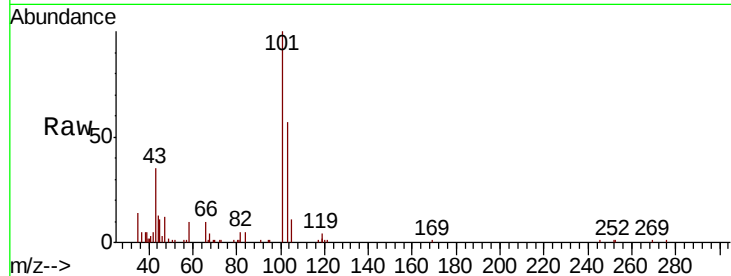
#11
Trichlorofluoromethane
Concen: 0.207 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.00 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Instrument :
MSVOA_L
ClientSampleId :
SS-4-STORAGE-RM

Tot Ion	Ion	Ratio	Lower	Upper
47467	101	100		
	103	54.2	52.5	78.7

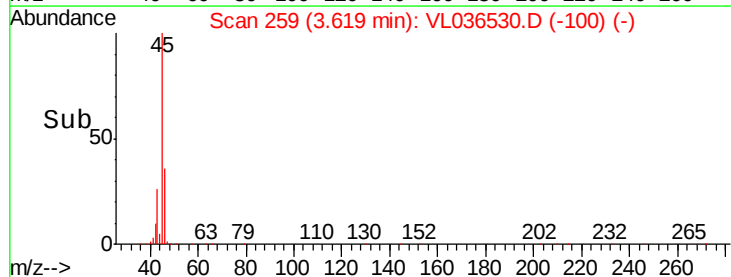
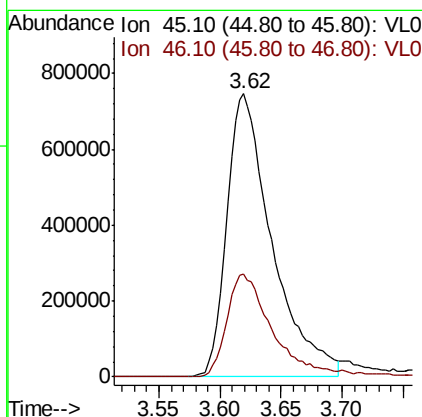
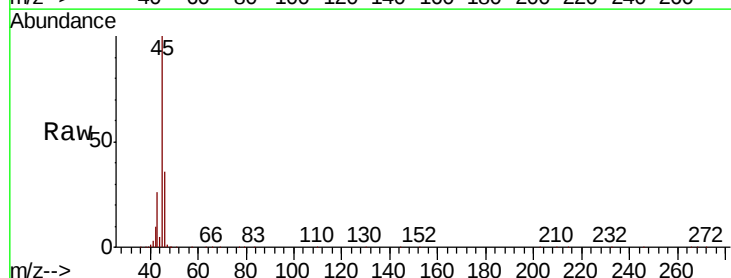
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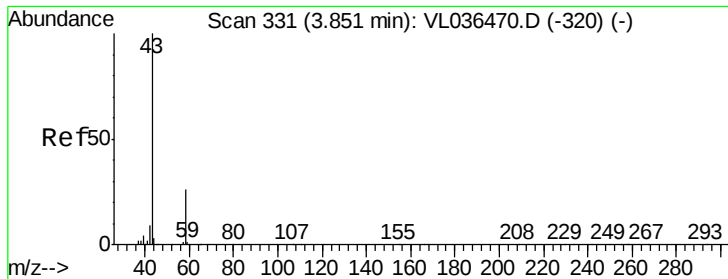
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#13
Ethanol
Concen: 195.740 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Tgt Ion	Ion	Ratio	Lower	Upper
1916802	45	100		
	46	38.2	16.6	66.2





#15

Acetone

Concen: 7.567 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036530.D

Acq: 27 Mar 2021 1:49

Instrument :

MSVOA_L

ClientSampleId :

SS-4-STORAGE-RM

Tot Ion: 43 Resp: 1028259

Ion Ratio Lower Upper

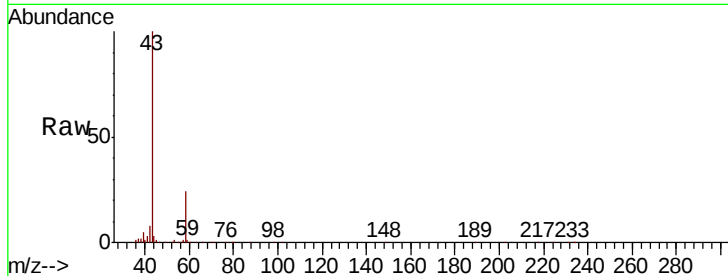
43 100

58 26.6 21.2 31.8

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

500000

400000

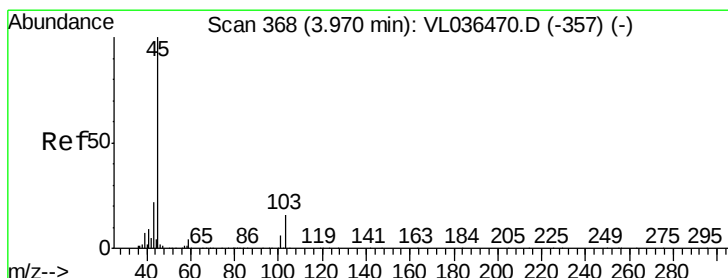
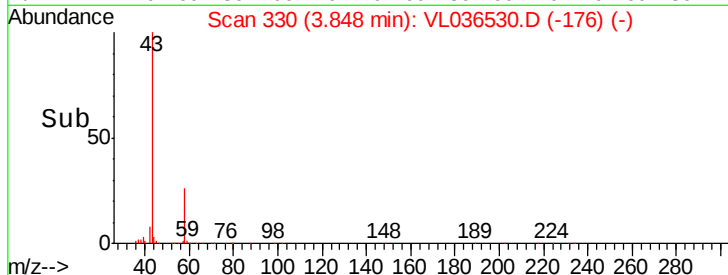
300000

200000

100000

0

Time-->



#19

Isopropyl Alcohol

Concen: 6.296 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036530.D

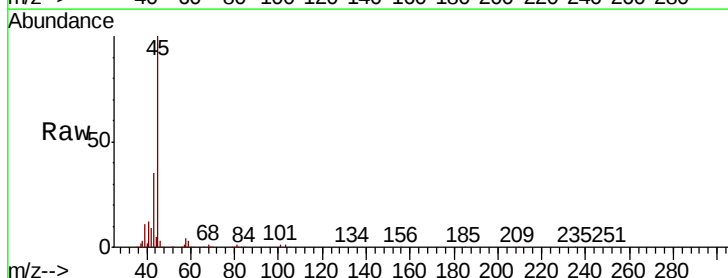
Acq: 27 Mar 2021 1:49

Tgt Ion: 45 Resp: 470624

Ion Ratio Lower Upper

45 100

58 4.1 2.9 4.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

200000

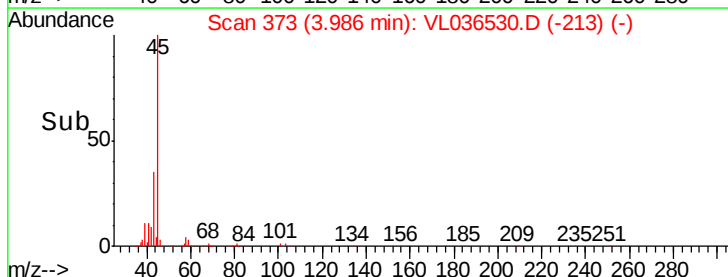
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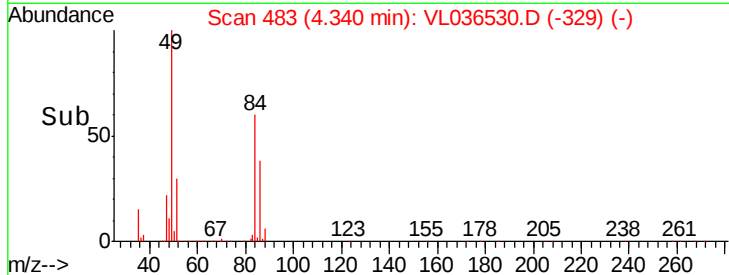
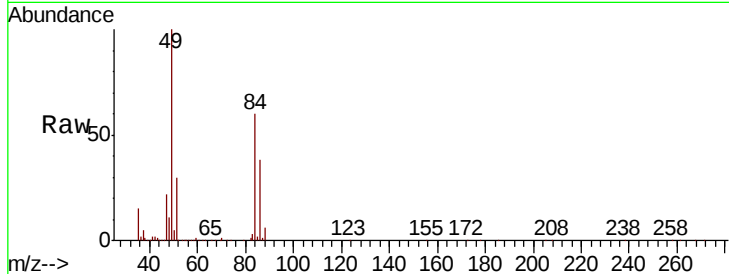
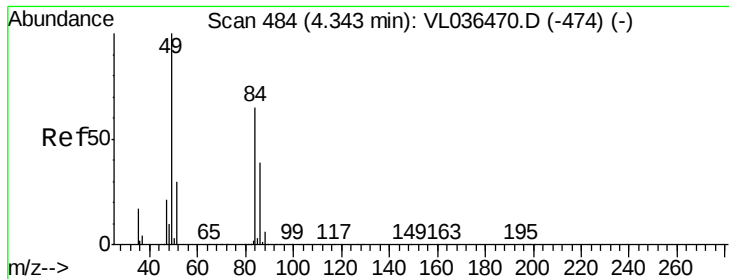
100000

50000

0

Time-->





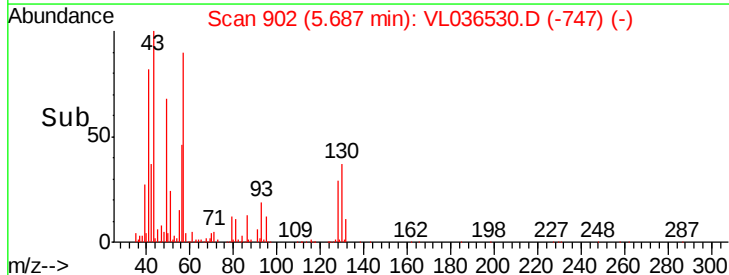
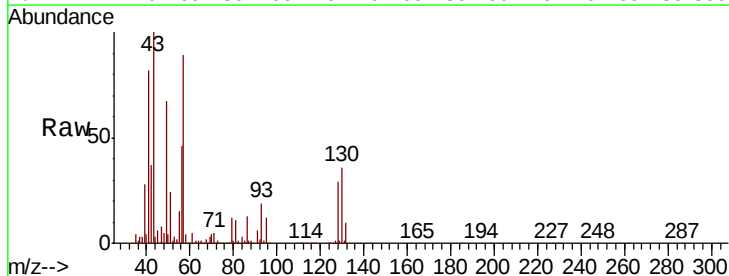
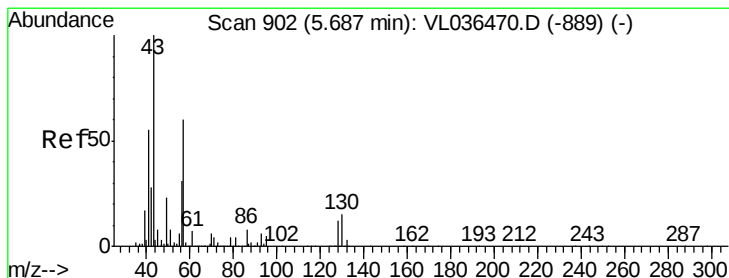
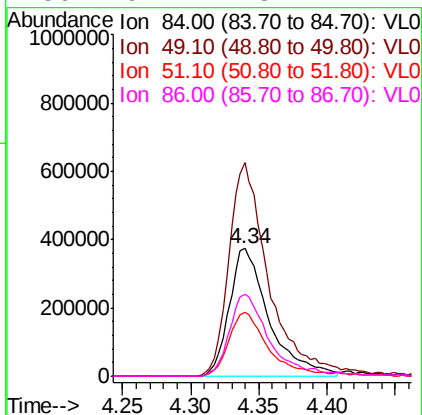
#20
Methvlene Chloride
Concen: 11.911 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Tot Ion	Ratio	Resp	Lower	Upper
84	100			
49	167.4	122.9	184.3	
51	50.0	36.9	55.3	
86	64.4	48.2	72.4	

Instrument :
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SS-4-STORAGE-RM

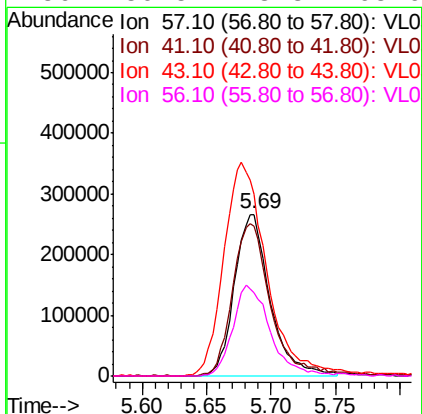
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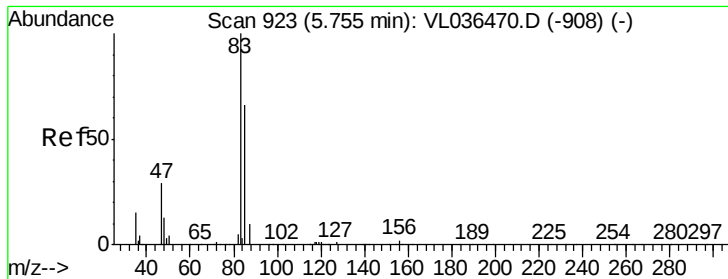
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#26
Hexane
Concen: 3.414 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Tgt Ion	Ratio	Resp	Lower	Upper
57	100			
41	101.5	77.2	115.8	
43	161.8	173.8	260.6#	
56	59.5	43.8	65.6	





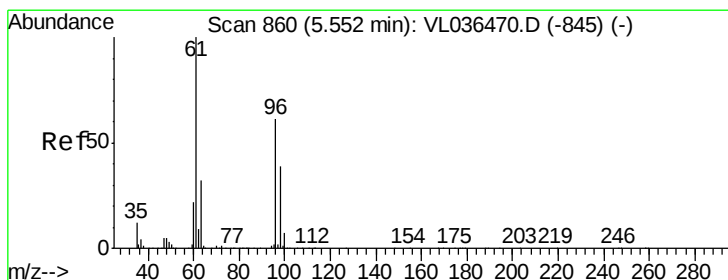
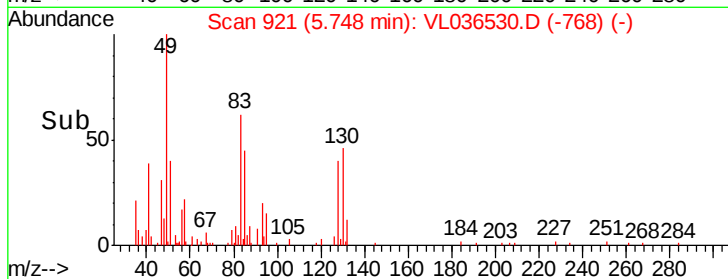
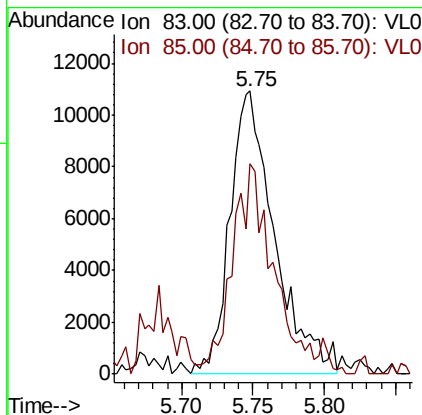
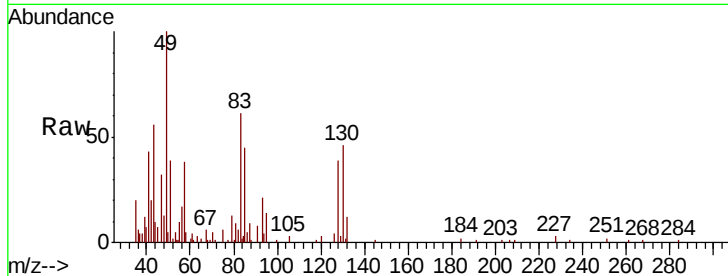
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Chloroform
Concen: 0.099 ppbv m
RT: 5.75 min Scan# 921
Delta R.T. -0.01 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Instrument :
MSVOA_L
ClientSampleId :
SS-4-STORAGE-RM

Tot Ion	83	Resp	23804
Ion Ratio	100	Lower	Upper
85	74.1	52.6	78.8

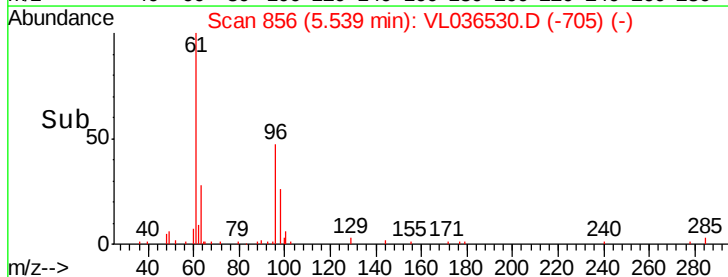
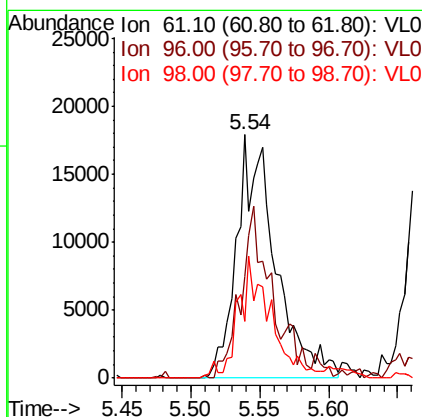
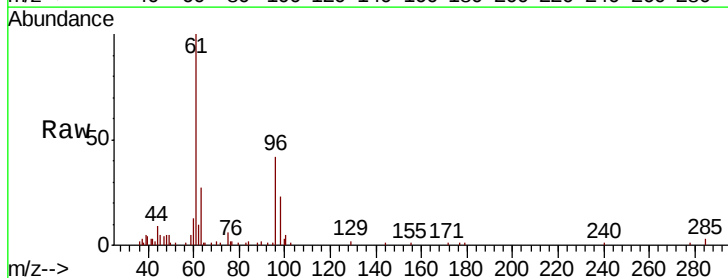
Manual Integrations
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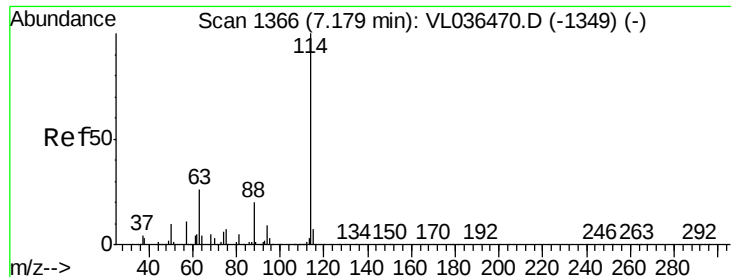
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3/29/2021 4:40:12 PM



#31
cis-1,2-Dichloroethene
Concen: 0.242 ppbv m
RT: 5.54 min Scan# 856
Delta R.T. -0.01 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Tgt Ion	61	Resp	35146
Ion Ratio	100	Lower	Upper
96	41.9	48.7	73.1#
98	23.3	31.4	47.0#





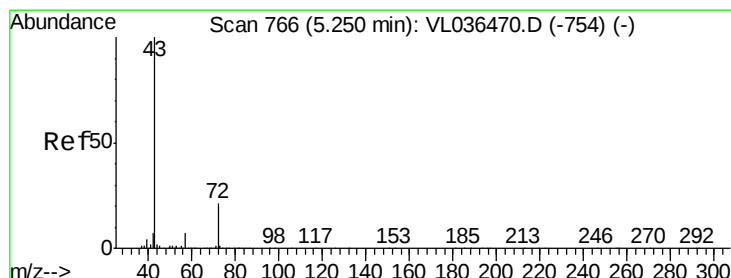
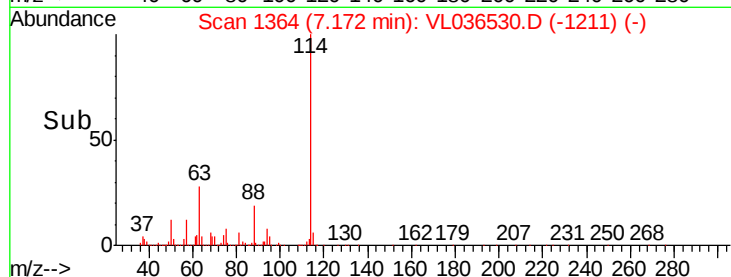
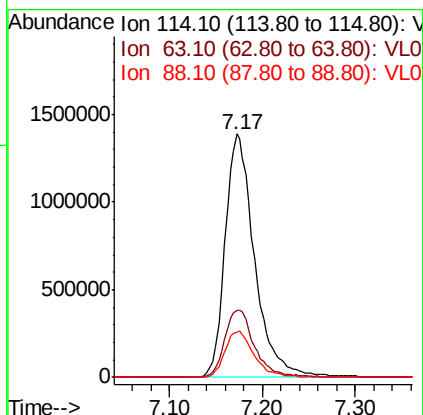
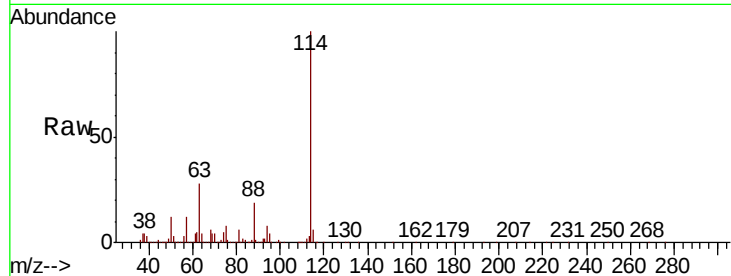
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL036530.D
 Acq: 27 Mar 2021 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.4	22.4	33.6
88	19.1	15.4	23.0

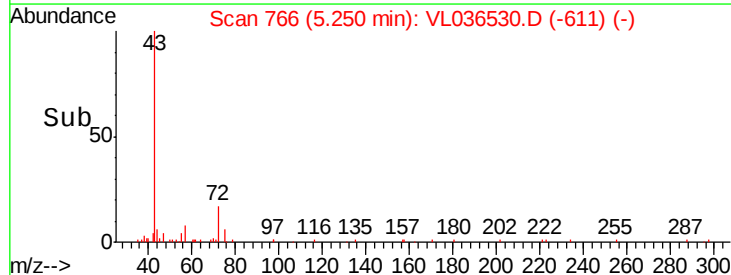
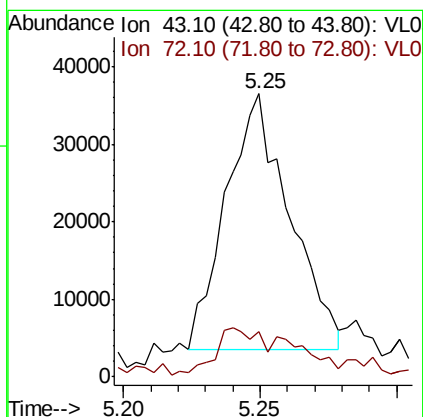
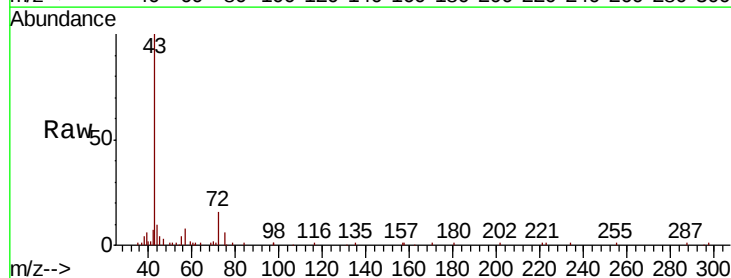
Manual Integrations
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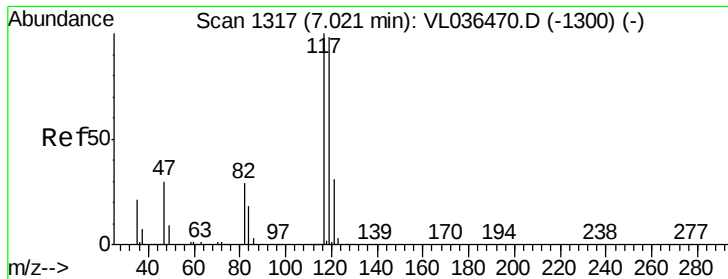
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#34
 2-Butanone
 Concen: 0.360 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL036530.D
 Acq: 27 Mar 2021 1:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	30.8	17.0	25.6





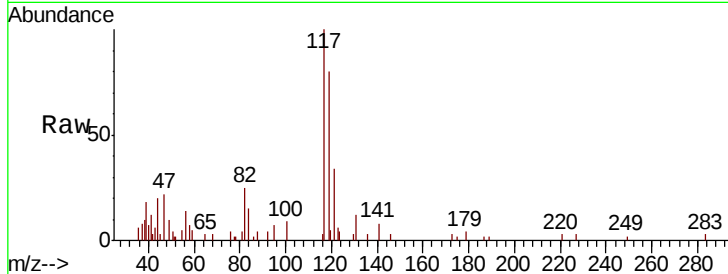
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Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Instrument :
MSVOA_L
ClientSampleId :
SS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
117	100		
119	79.9	78.2	117.2
121	34.5	24.5	36.7

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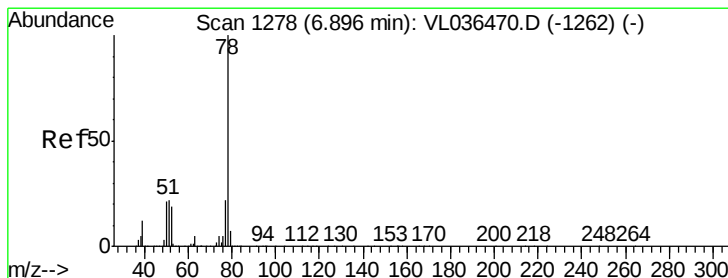
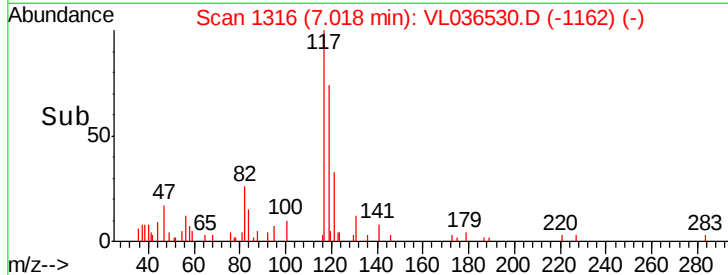
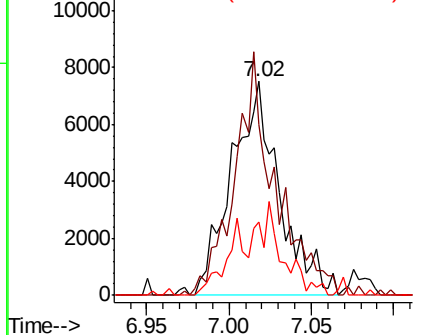


Abundance

Ion 117.00 (116.70 to 117.70): V

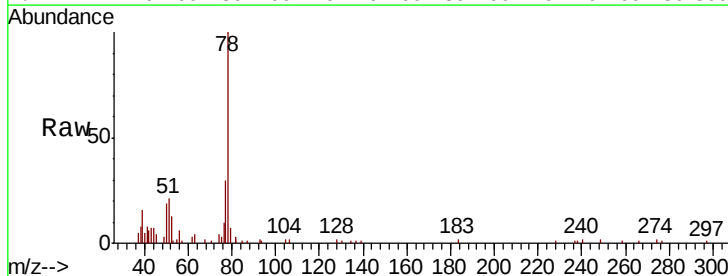
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 0.121 ppbv m
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	30.3	18.0	27.0#
50	19.3	16.5	24.7

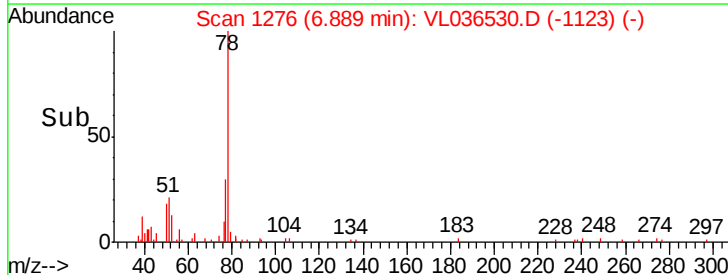
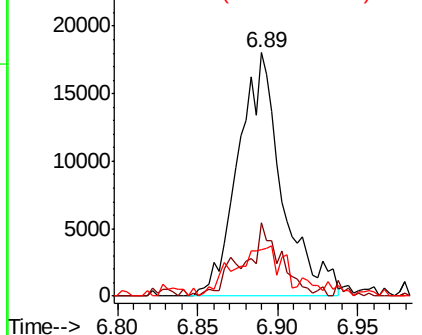


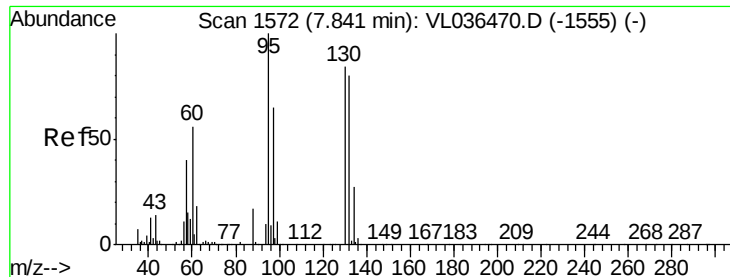
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





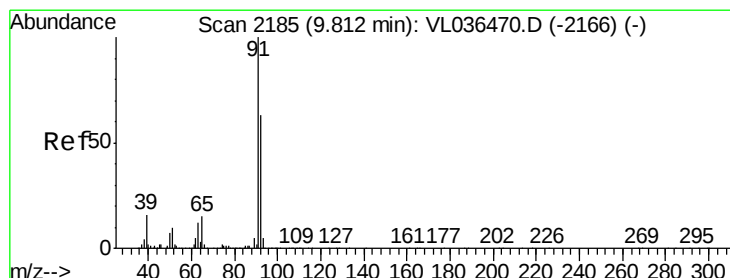
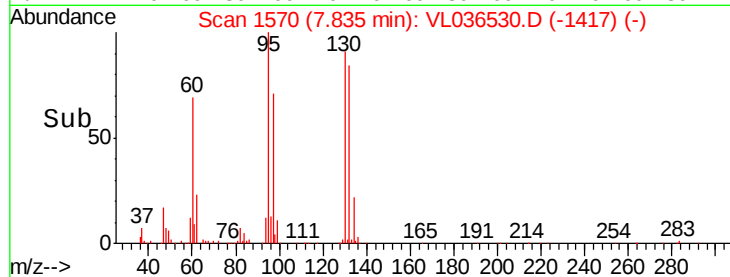
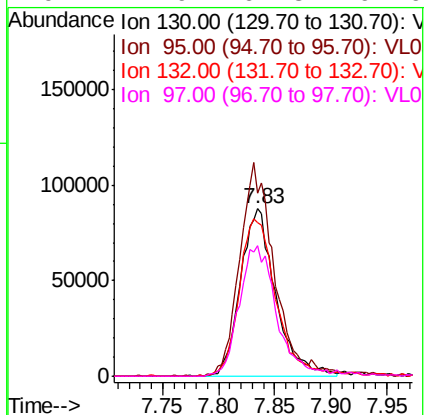
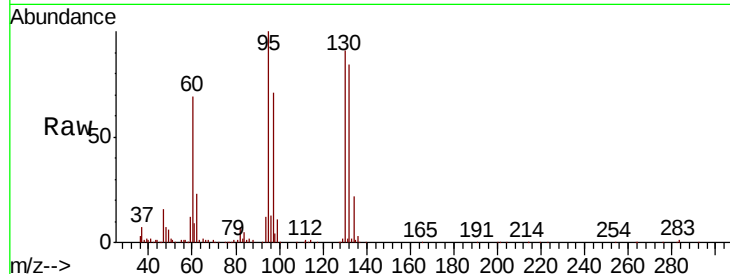
#38
 Trichloroethene
 Concen: 1.740 ppbv m
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VL036530.D
 Acq: 27 Mar 2021 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
130	100		
95	109.9	95.7	143.5
132	91.8	76.2	114.4
97	77.9	61.8	92.6

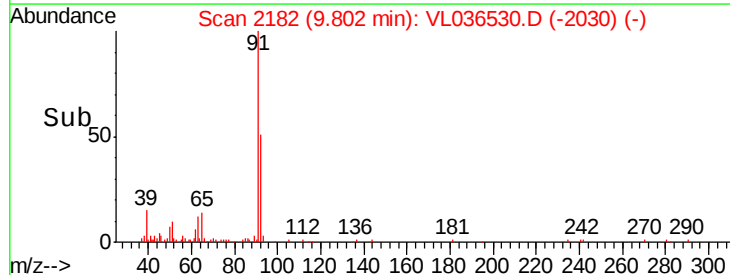
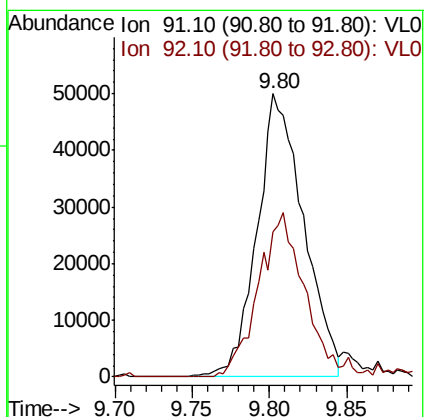
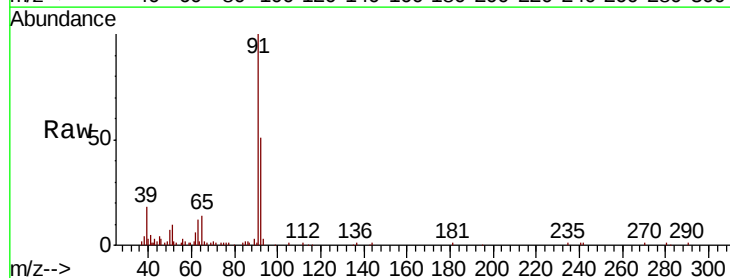
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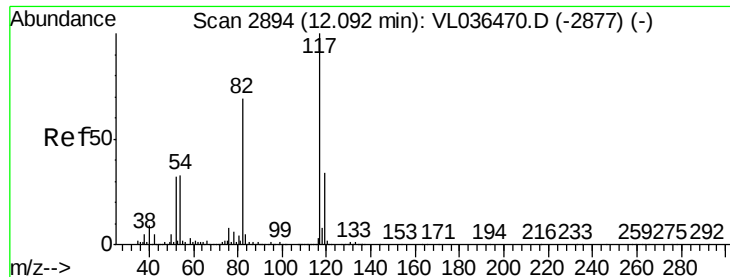
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#53
 Toluene
 Concen: 0.349 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL036530.D
 Acq: 27 Mar 2021 1:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.8	73.2





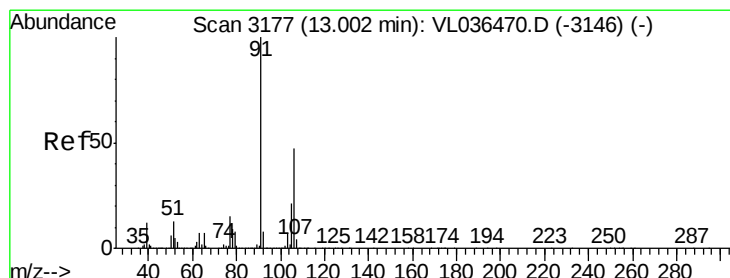
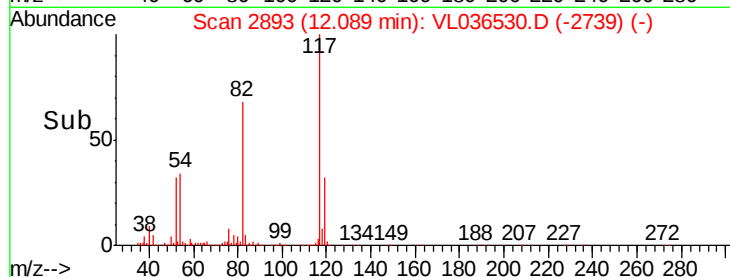
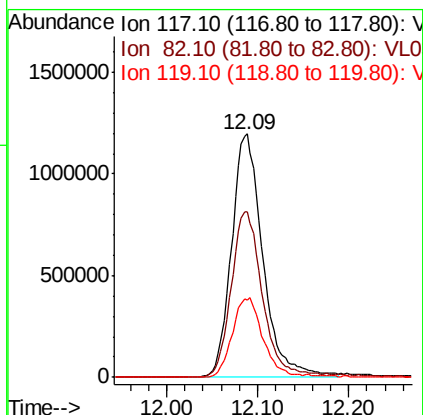
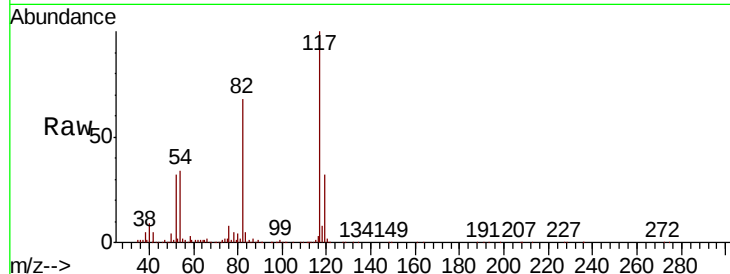
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Instrument :
MSVOA_L
ClientSampleId :
SS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.0	57.4	86.0
119	33.2	47.4	71.0

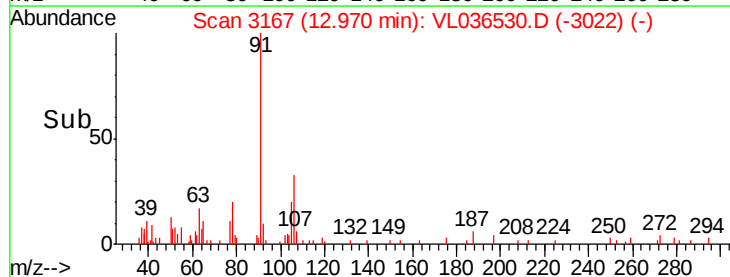
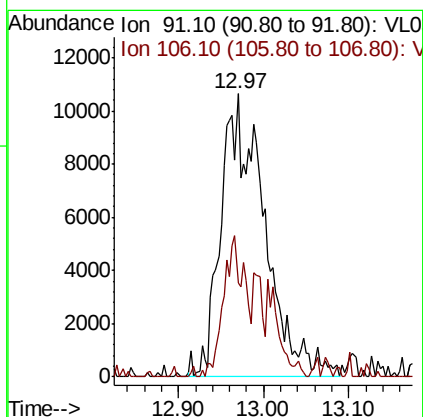
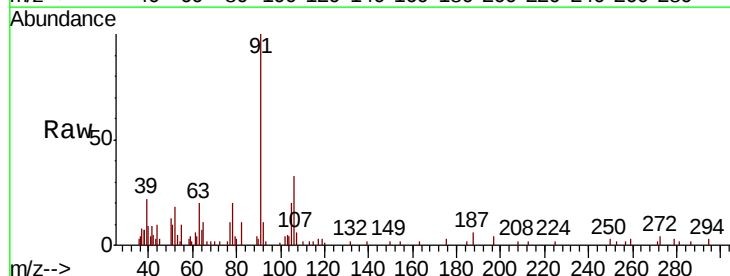
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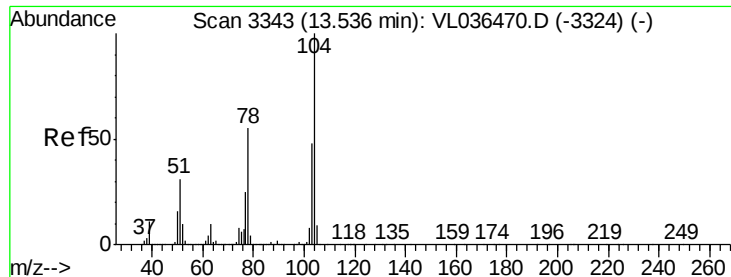
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#59
m/p-Xylene
Concen: 0.104 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9





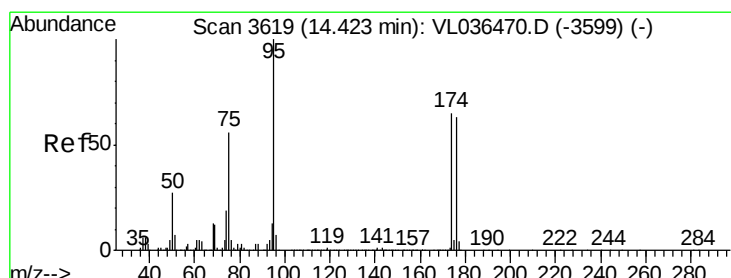
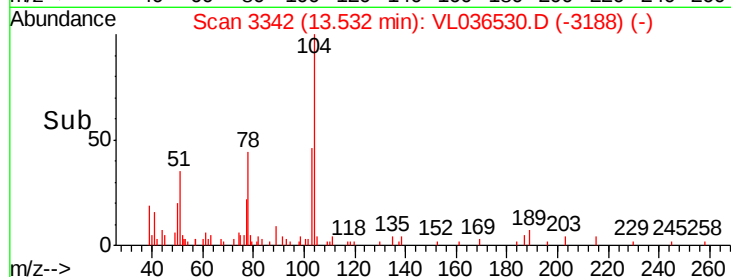
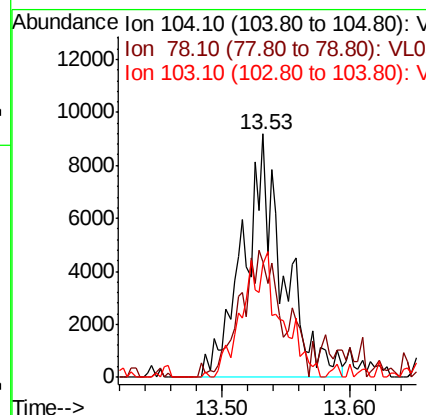
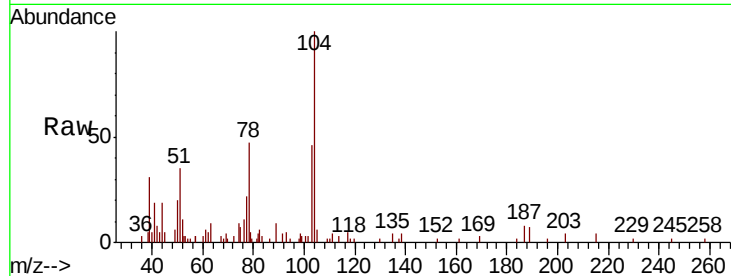
#61
Stvrene
Concen: 0.112 ppbv m
RT: 13.53 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Instrument :
MSVOA_L
ClientSampleId :
SS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
104	100		
78	70.3	43.8	65.8#
103	0.0	38.3	57.5#

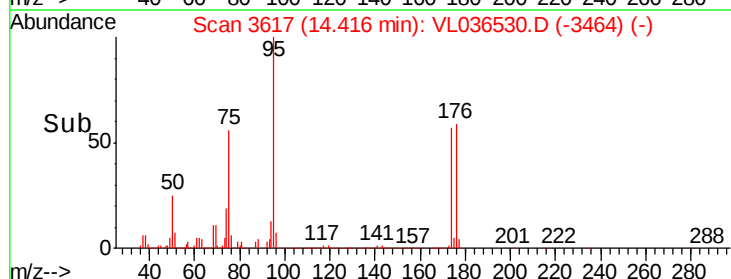
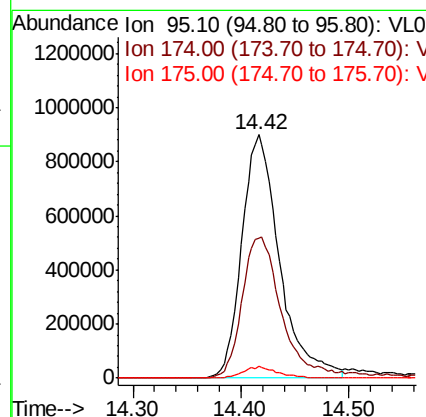
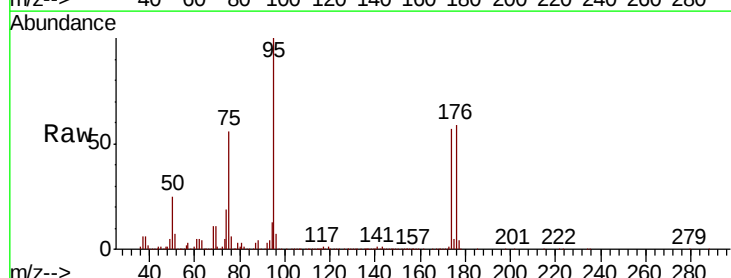
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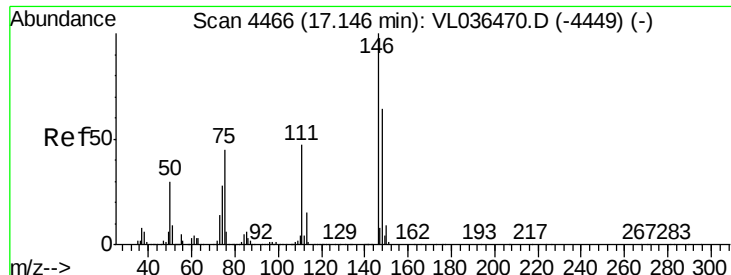
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.613 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL036530.D
Acq: 27 Mar 2021 1:49

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.0	51.0	76.6
175	4.7	3.9	5.9





#76
 1,4-Dichlorobenzene
 Concen: 0.214 ppbv m
 RT: 17.14 min Scan# 4464
 Delta R.T. -0.01 min
 Lab File: VL036530.D
 Acq: 27 Mar 2021 1:49

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.3	72.8#
148	63.8	33.0	98.9

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