

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036526.D
 Acq On : 26 Mar 2021 23:11
 Operator : SY/AP
 Sample : M1760-16
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-9-PRE-K-TEACHER-WORK-RM

Manual Integrations
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MMDadoda
 3/29/2021 4:39:45 PM

Quant Time: Mar 28 21:26:44 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	5.67	49	1424362	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3141620	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2921205	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2293777	9.85	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	48766m	0.210	ppbv	
4) Chloromethane	3.14	50	33757m	0.359	ppbv	
9) Propene	3.02	41	61122	0.720	ppbv	92
11) Trichlorofluoromethane	3.95	101	59497	0.251	ppbv	93
13) Ethanol	3.62	45	1671616	165.459	ppbv	92
15) Acetone	3.85	43	1207379	8.612	ppbv	98
17) tert-Butyl alcohol	4.31	59	56018m	0.459	ppbv	
19) Isopropyl Alcohol	3.99	45	611788m	7.933	ppbv	
20) Methylene Chloride	4.34	84	703560	10.719	ppbv	94
26) Hexane	5.69	57	473927	3.064	ppbv #	77
29) Chloroform	5.75	83	65382m	0.264	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	43169	0.289	ppbv #	87
32) 1,1,1-Trichloroethane	6.51	97	7664m	0.031	ppbv	
34) 2-Butanone	5.25	43	92196	0.601	ppbv #	90
35) Carbon Tetrachloride	7.01	117	17324m	0.072	ppbv	
36) Benzene	6.89	78	30111	0.104	ppbv #	91
38) Trichloroethene	7.84	130	363385	3.223	ppbv	97
52) Tetrachloroethene	11.24	164	7178m	0.067	ppbv	
53) Toluene	9.81	91	153547	0.498	ppbv	100
59) m/p-Xylene	12.97	91	56391m	0.152	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	41550m	0.190	ppbv	

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

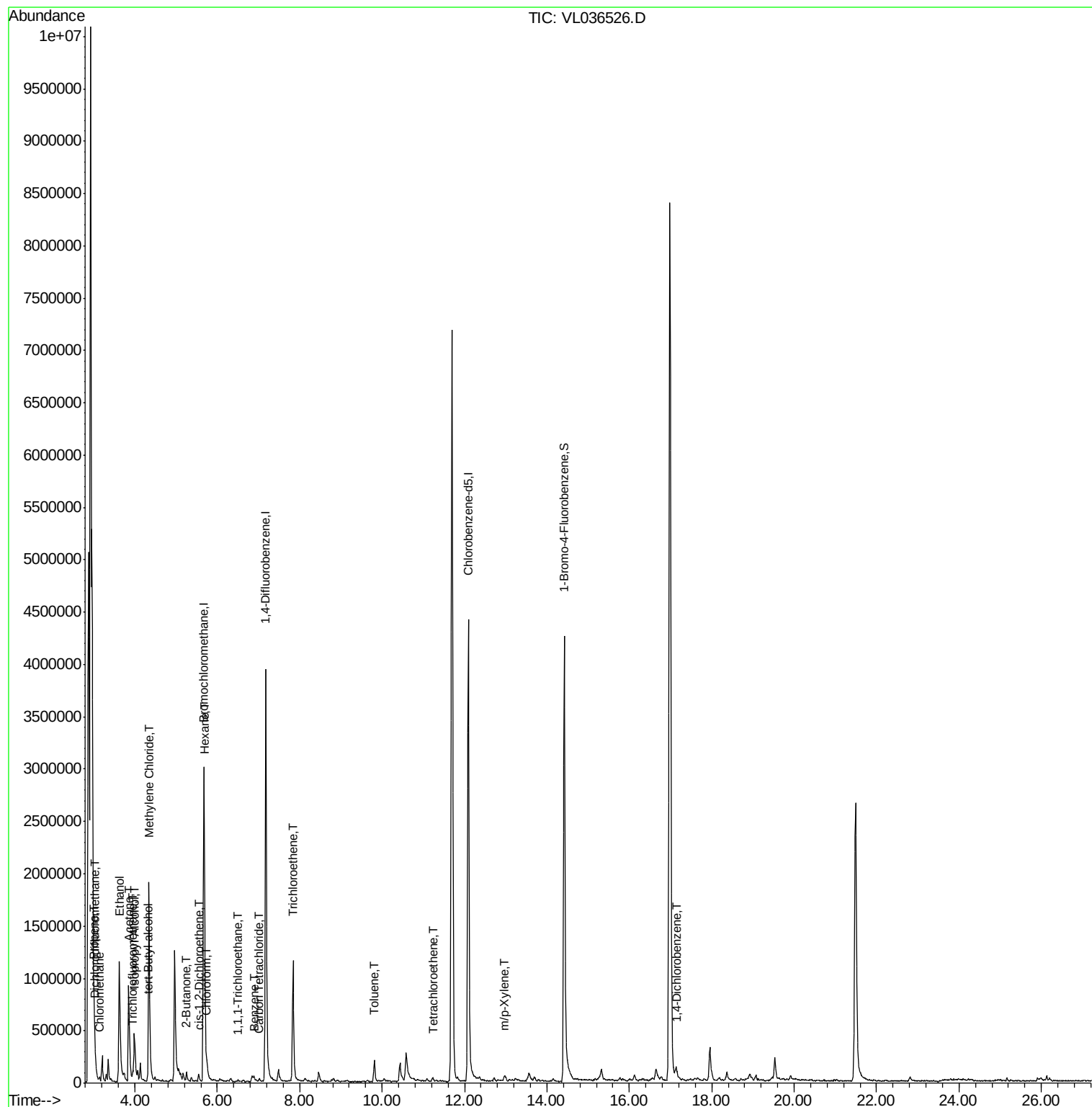
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036526.D
Acq On : 26 Mar 2021 23:11
Operator : SY/AP
Sample : M1760-16
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

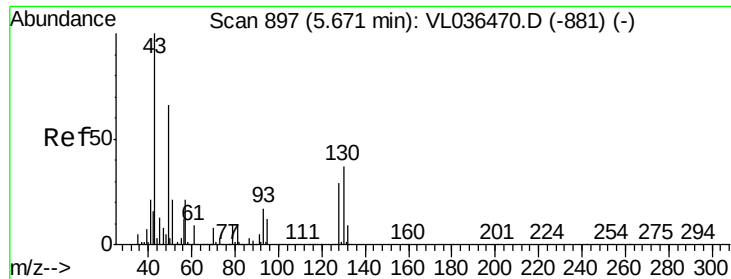
Instrument :
MSVOA_L
ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Manual Integrations
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3/29/2021 4:39:45 PM

Quant Time: Mar 28 21:26:44 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

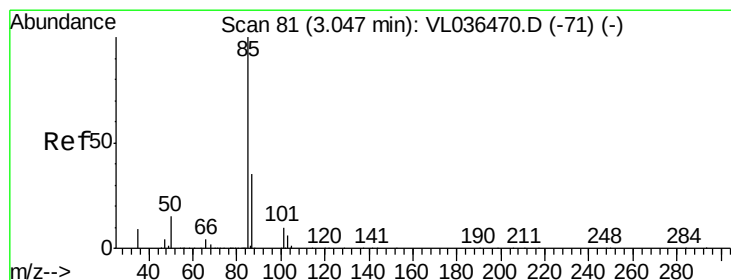
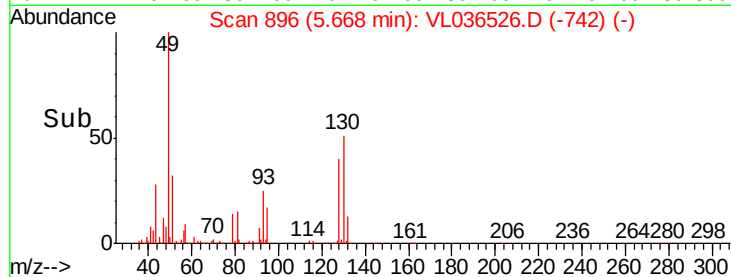
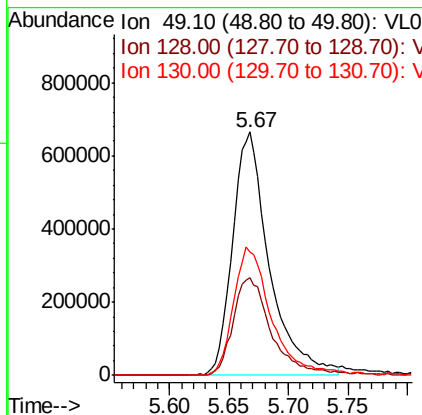
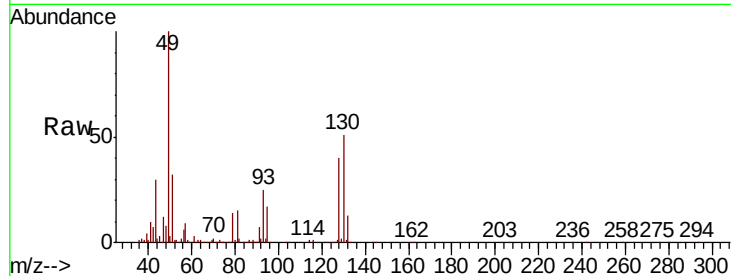
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.00 min
 Lab File: VL036526.D
 Acq: 26 Mar 2021 23:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	Ratio	Lower	Upper
49	100		
128	42.8	23.5	70.6
130	55.2	29.1	87.4

Manual Integrations
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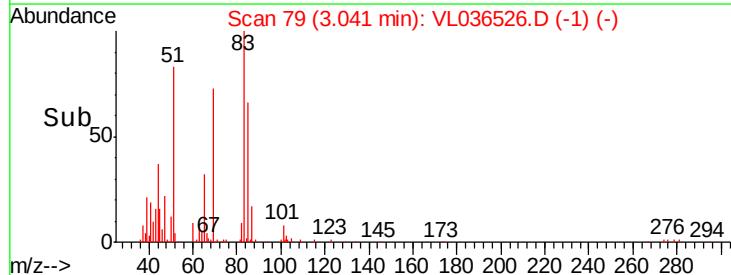
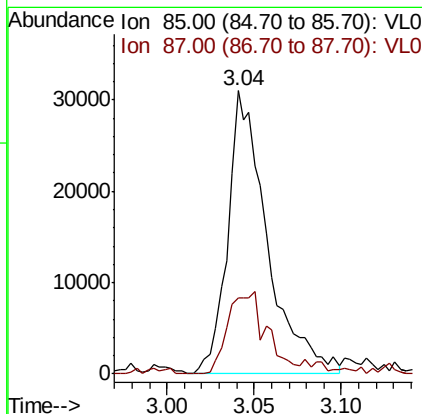
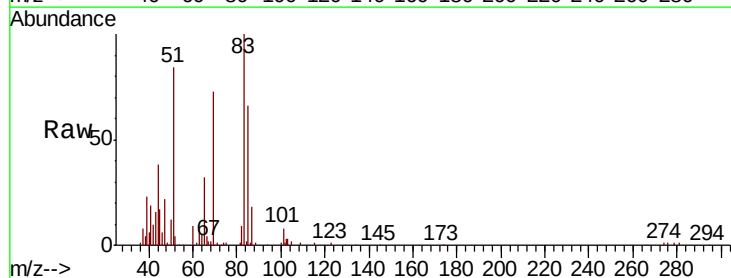
MMDadoda
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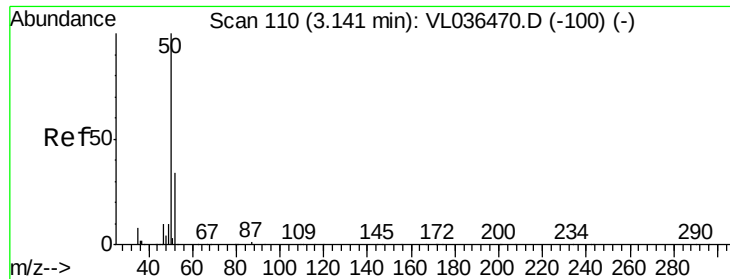


#2

Dichlorodifluoromethane
 Concen: 0.210 ppbv m
 RT: 3.04 min Scan# 79
 Delta R.T. -0.01 min
 Lab File: VL036526.D
 Acq: 26 Mar 2021 23:11

Tgt Ion	Ratio	Lower	Upper
85	100		
87	26.9	27.8	41.8#





#4

Chloromethane

Concen: 0.359 ppbv m

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036526.D

Acq: 26 Mar 2021 23:11

Instrument :

MSVOA_L

ClientSampleId :

SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion: 50 Resp: 33757

Ion Ratio Lower Upper

50 100

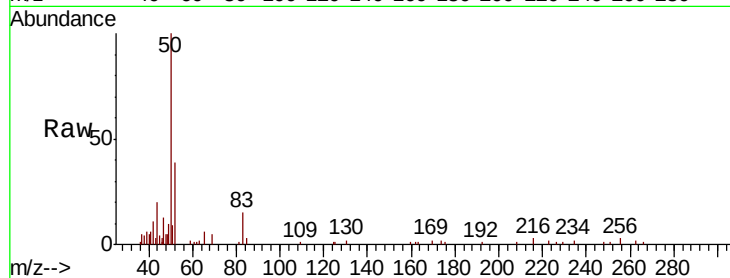
52 38.7 27.0 40.6

Manual Integrations

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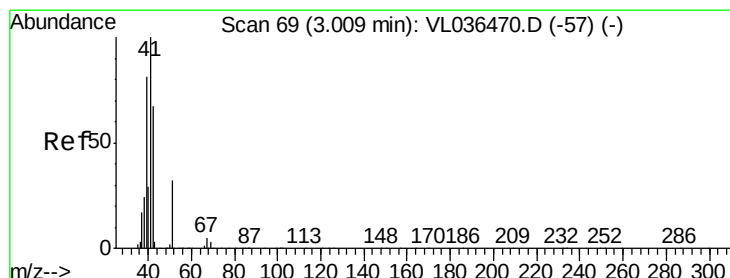
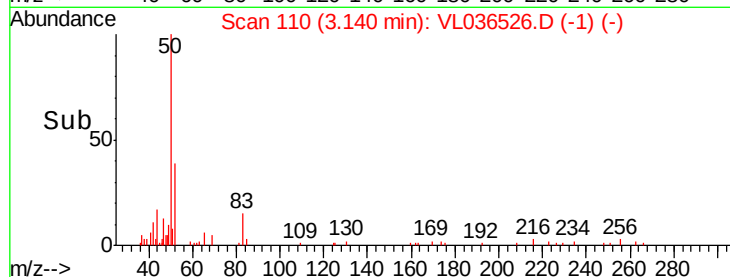
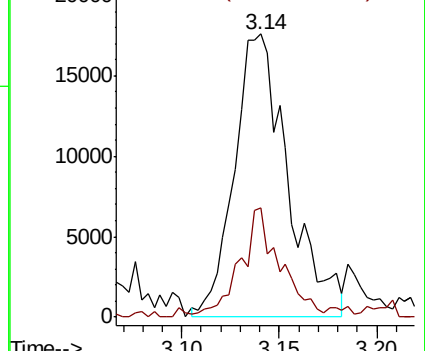
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.720 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036526.D

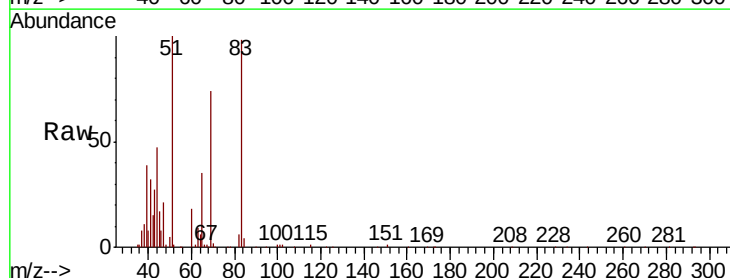
Acq: 26 Mar 2021 23:11

Tgt Ion: 41 Resp: 61122

Ion Ratio Lower Upper

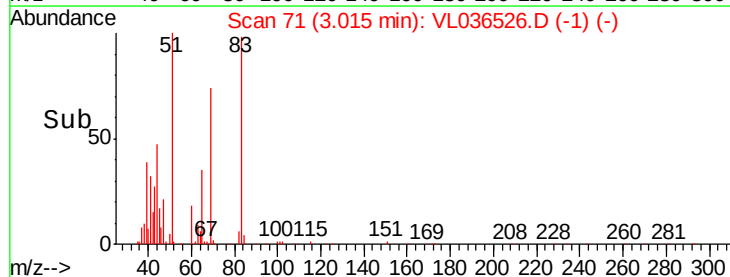
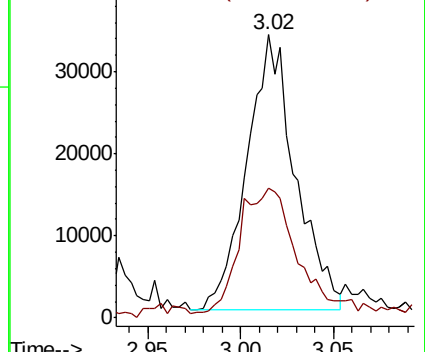
41 100

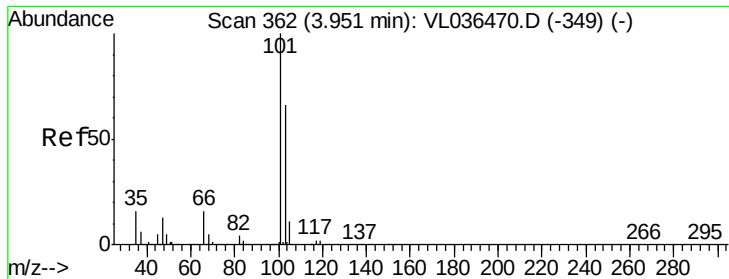
42 64.9 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





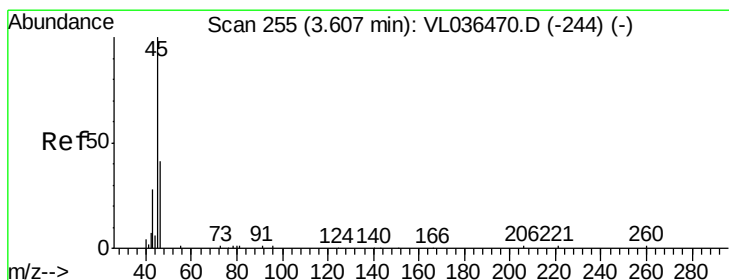
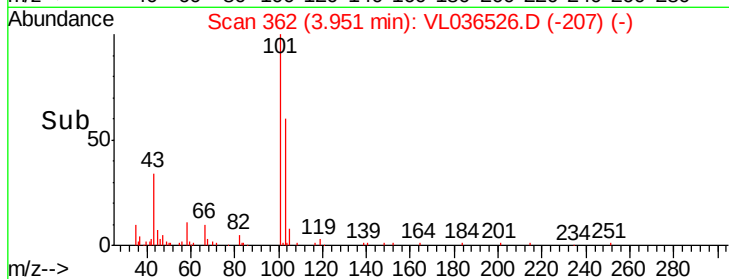
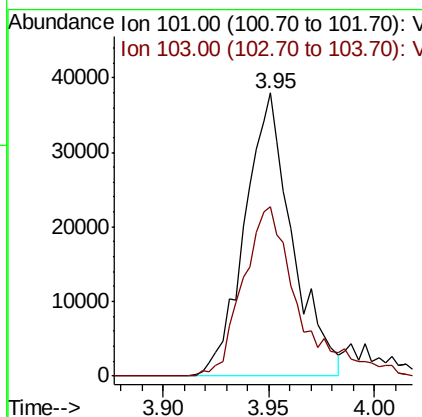
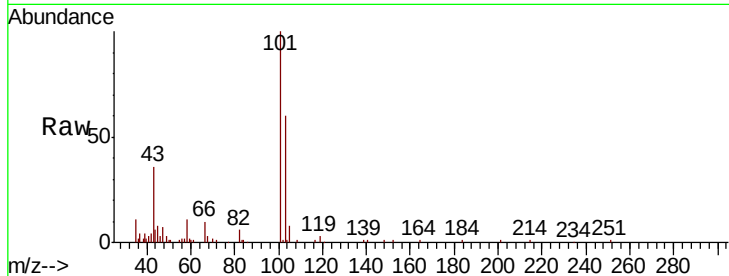
#11
 Trichlorofluoromethane
 Concen: 0.251 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL036526.D
 Acq: 26 Mar 2021 23:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		59497		
103	59.7		52.5	78.7	

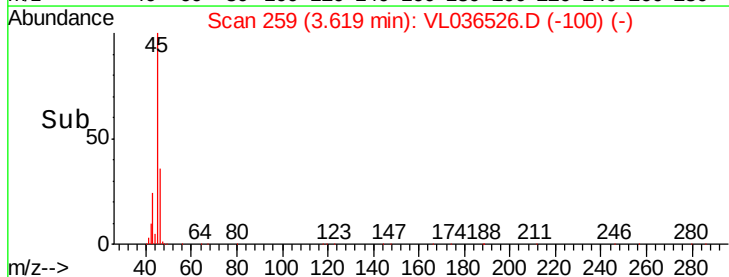
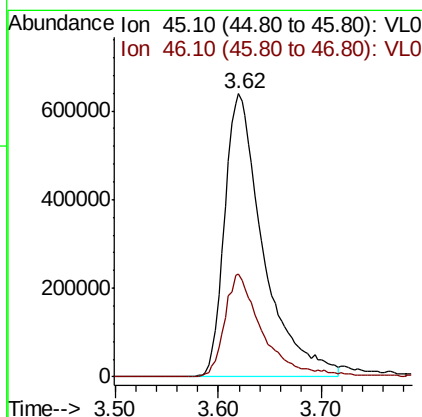
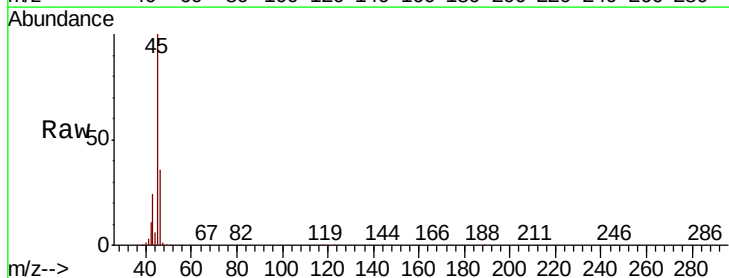
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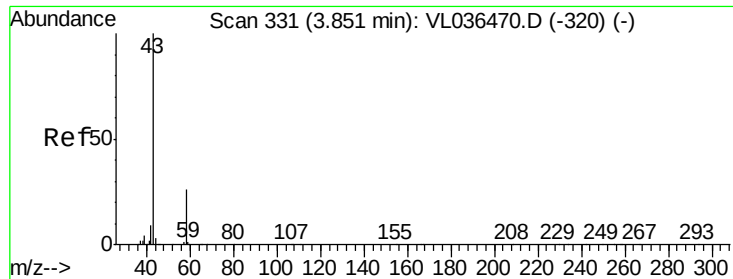
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#13
 Ethanol
 Concen: 165.459 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036526.D
 Acq: 26 Mar 2021 23:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		1671616		
46	36.2		16.6	66.2	





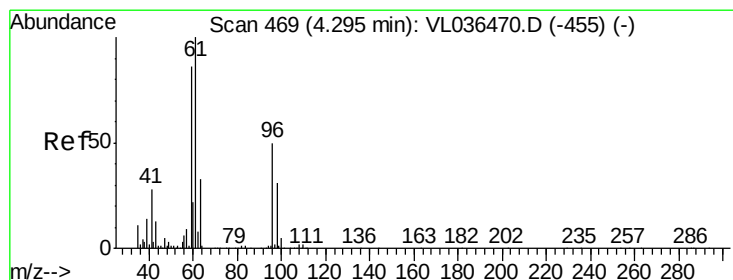
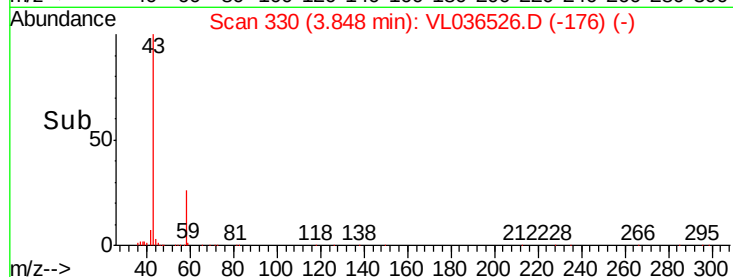
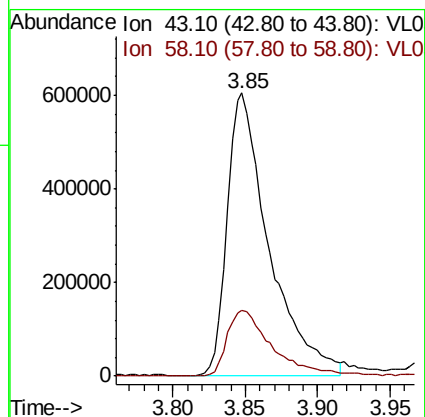
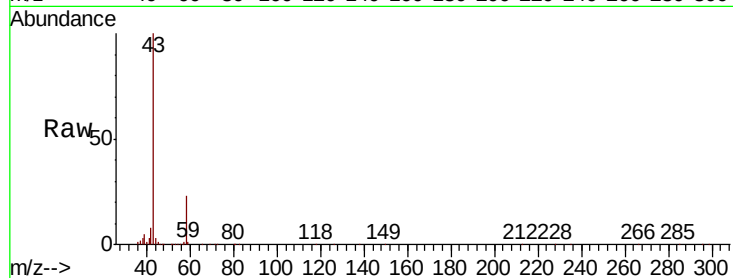
#15
Acetone
Concen: 8.612 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Instrument :
MSVOA_L
ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion: 43 Resp: 1207379
Ion Ratio Lower Upper
43 100
58 25.7 21.2 31.8

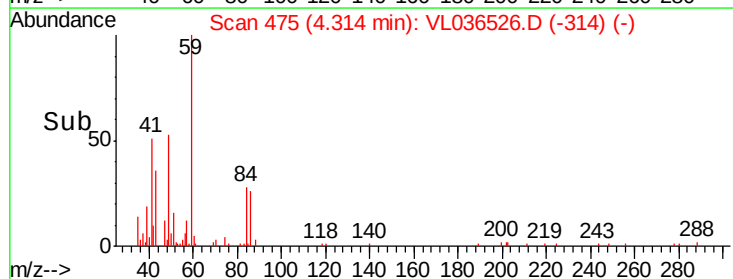
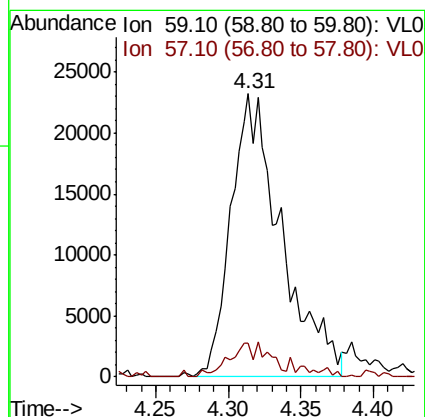
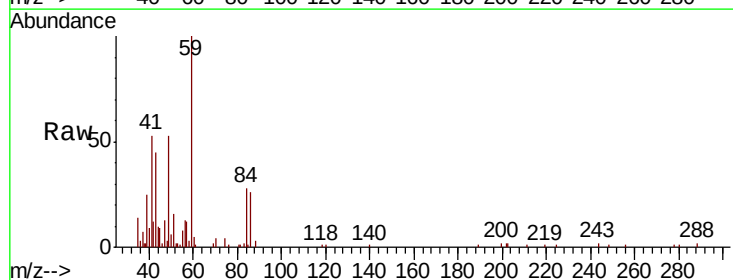
Manual Integrations
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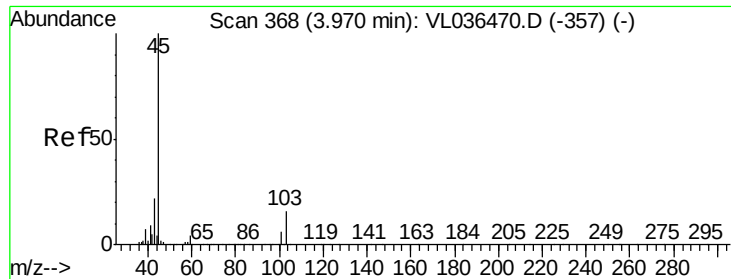
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#17
tert-Butyl alcohol
Concen: 0.459 ppbv m
RT: 4.31 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Tgt Ion: 59 Resp: 56018
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 7.933 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036526.D

Acq: 26 Mar 2021 23:11

Instrument :

MSVOA_L

ClientSampleId :

SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion: 45 Resp: 611788

Ion Ratio Lower Upper

45 100

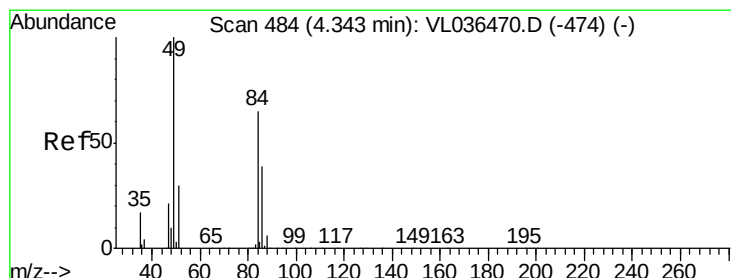
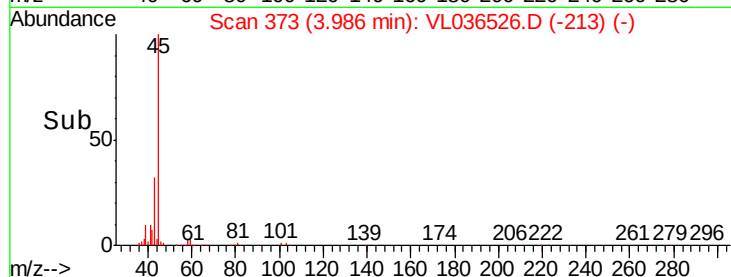
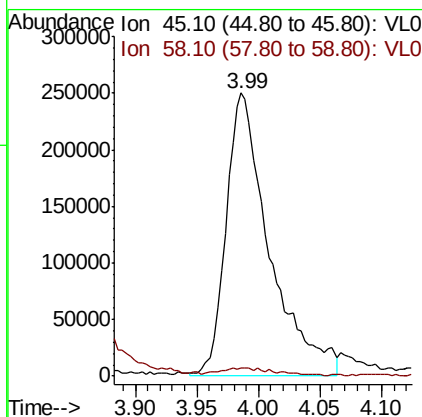
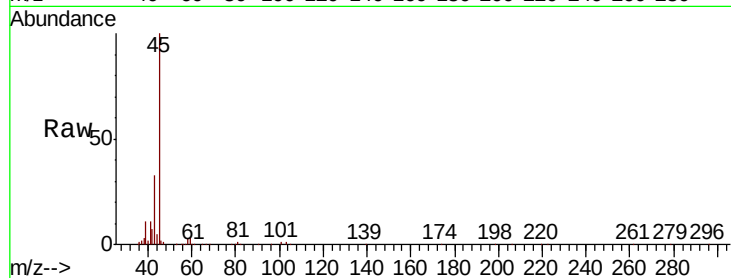
58 4.4 2.9 4.3#

Manual Integrations

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3/29/2021 4:39:45 PM



#20

Methylene Chloride

Concen: 10.719 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036526.D

Acq: 26 Mar 2021 23:11

Tgt Ion: 84 Resp: 703560

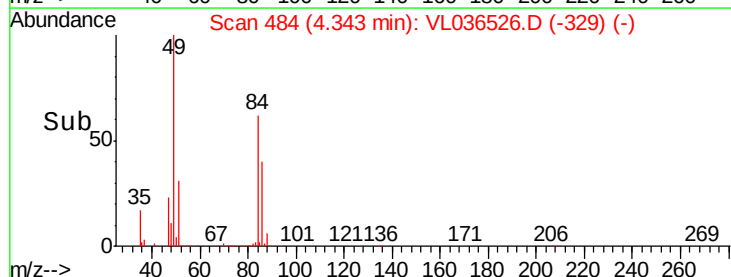
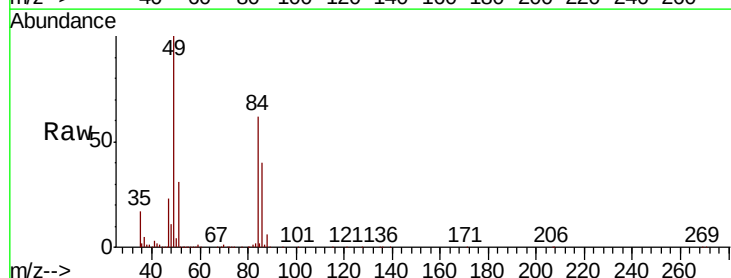
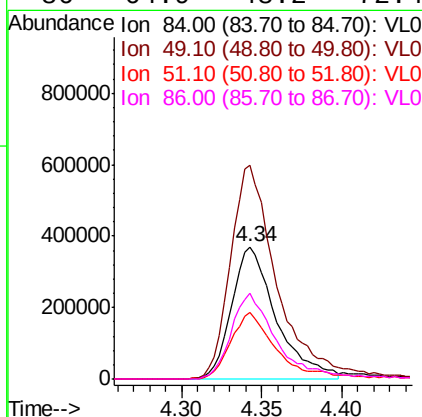
Ion Ratio Lower Upper

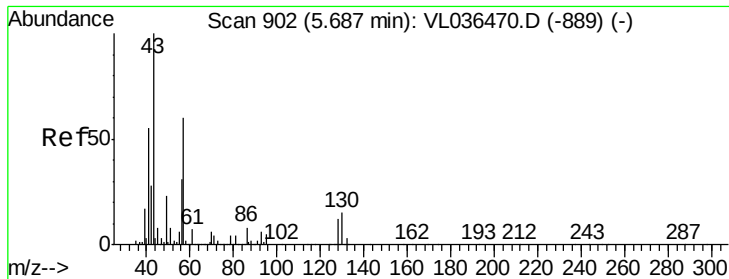
84 100

49 161.7 122.9 184.3

51 50.3 36.9 55.3

86 64.9 48.2 72.4





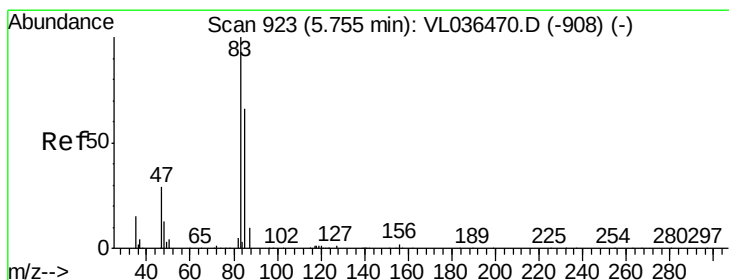
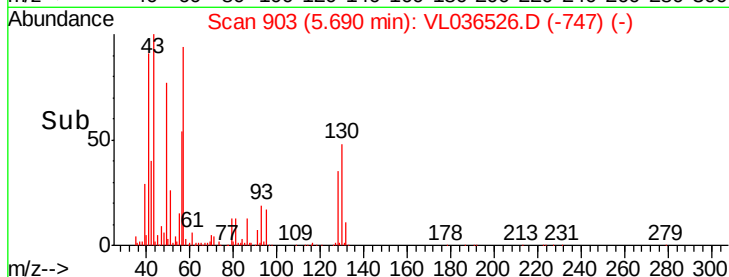
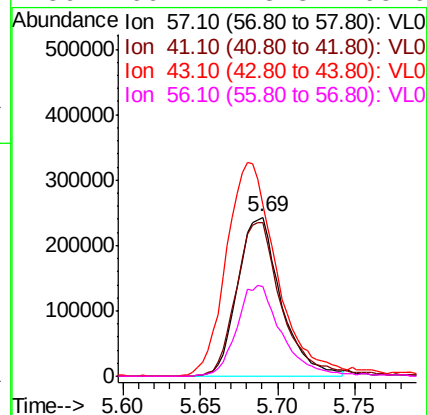
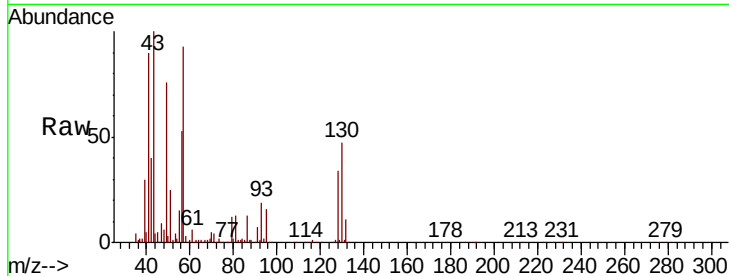
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Hexane
Concen: 3.064 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Instrument :
MSVOA_L
ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	57	Resp	473927
Ion	Ratio	Lower	Upper
57	100		
41	101.9	77.2	115.8
43	160.7	173.8	260.6#
56	60.2	43.8	65.6

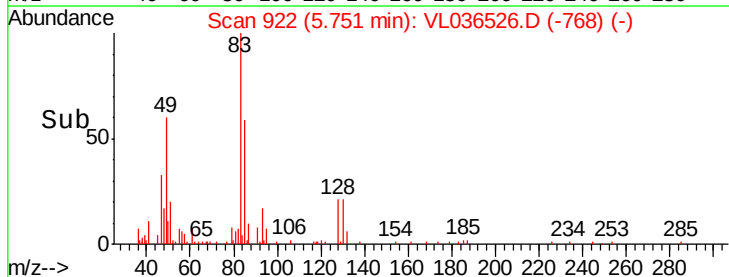
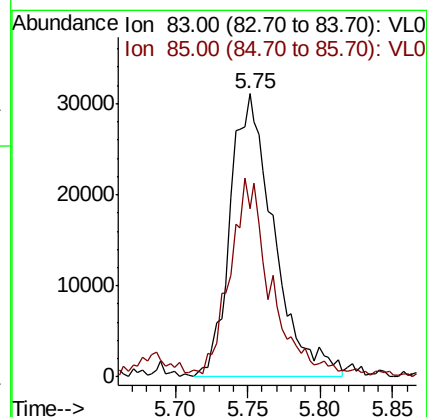
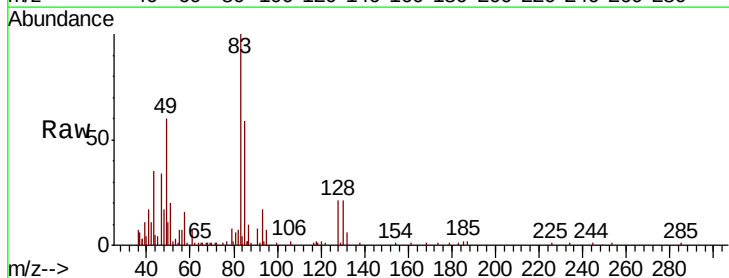
Manual Integrations
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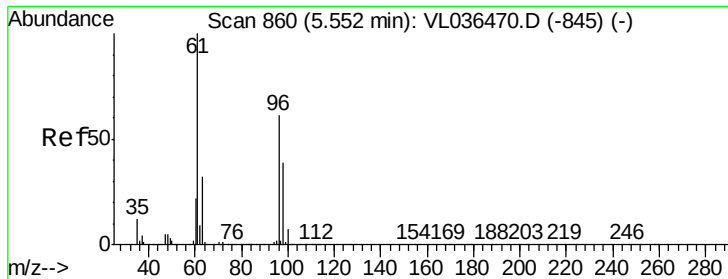
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#29
Chloroform
Concen: 0.264 ppbv m
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Tgt Ion	83	Resp	65382
Ion	Ratio	Lower	Upper
83	100		
85	59.4	52.6	78.8





#31

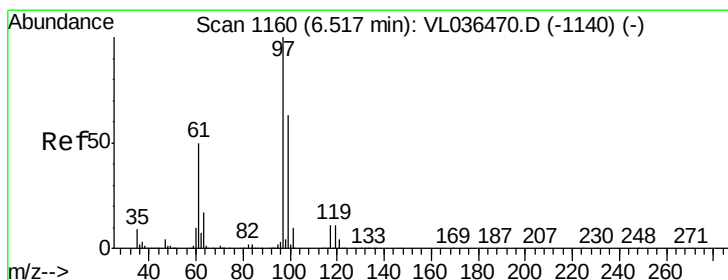
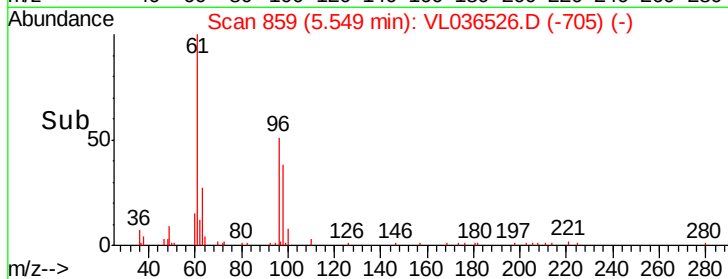
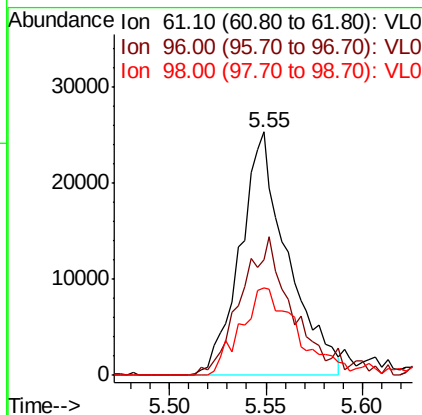
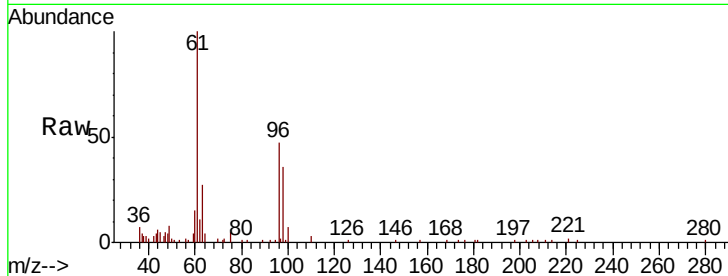
cis-1,2-Dichloroethene
Concen: 0.289 ppbv
RT: 5.55 min Scan# 859
Delta R.T. -0.00 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Instrument :
MSVOA_L
ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	Ratio	Lower	Upper
61	100		
96	47.5	48.7	73.1#
98	35.7	31.4	47.0

Manual Integrations
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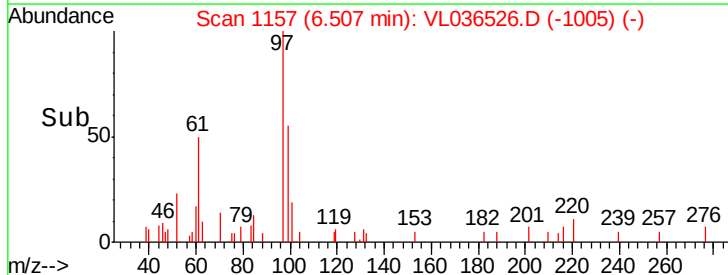
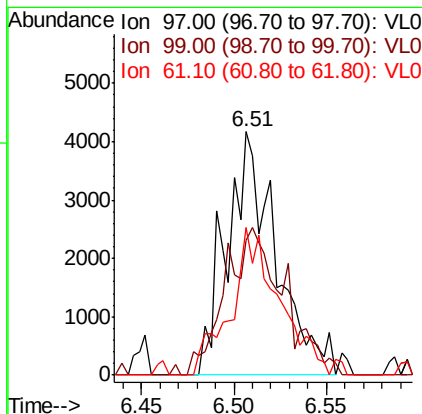
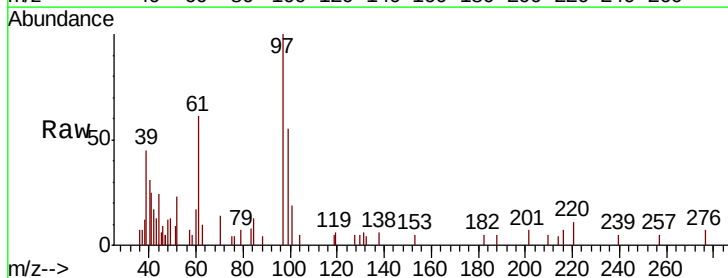
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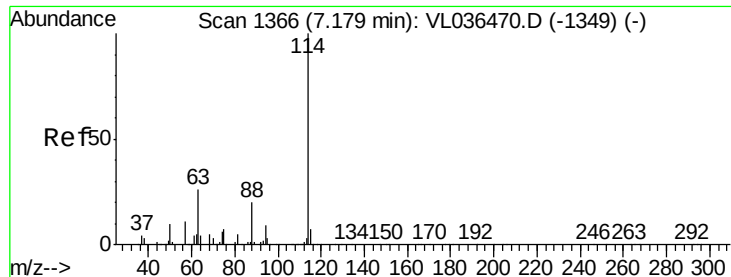


#32

1,1,1-Trichloroethane
Concen: 0.031 ppbv m
RT: 6.51 min Scan# 1157
Delta R.T. -0.01 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	73.9	51.4	77.0
61	61.2	40.6	60.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL036526.D

Acq: 26 Mar 2021 23:11

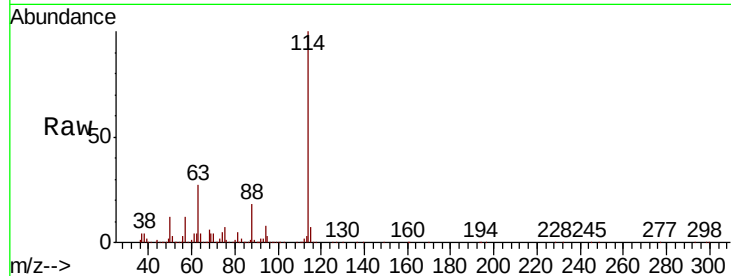
Instrument :
MSVOA_L

ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	19.2	15.4	23.0

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3/29/2021 4:39:45 PM

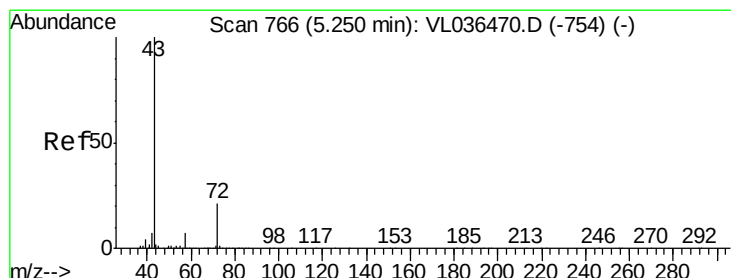
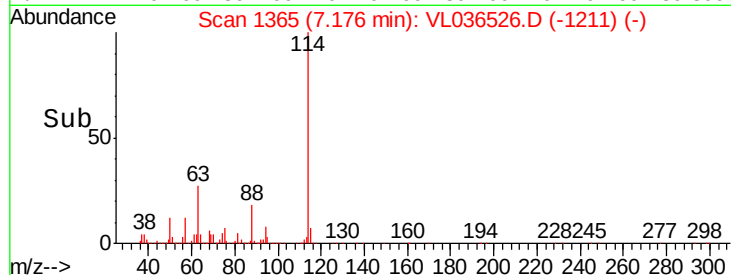
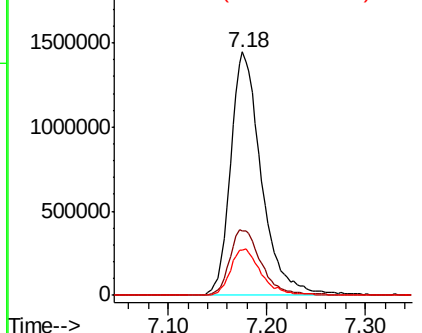


Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.601 ppbv

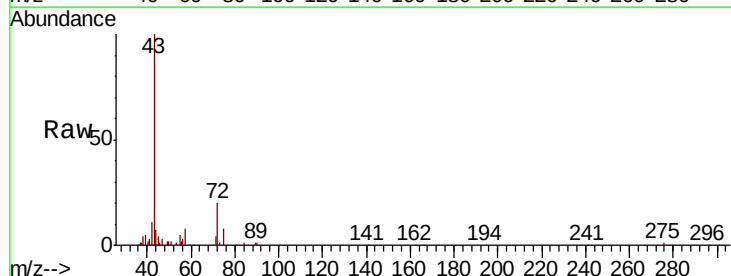
RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL036526.D

Acq: 26 Mar 2021 23:11

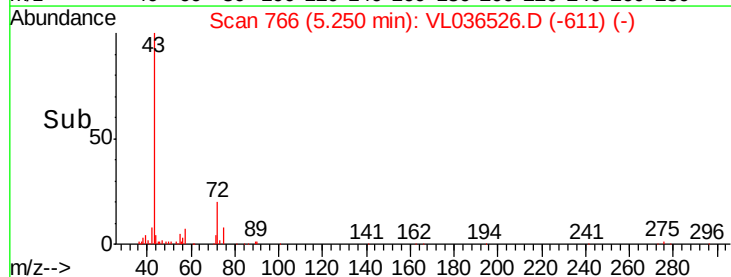
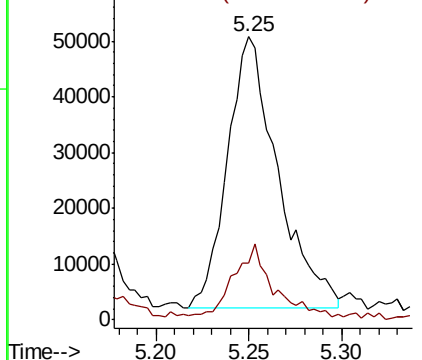
Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.9	17.0	25.6#

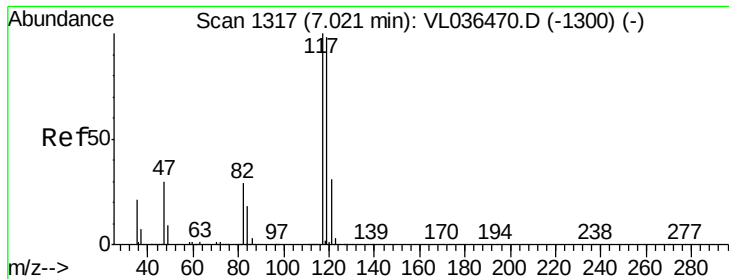


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





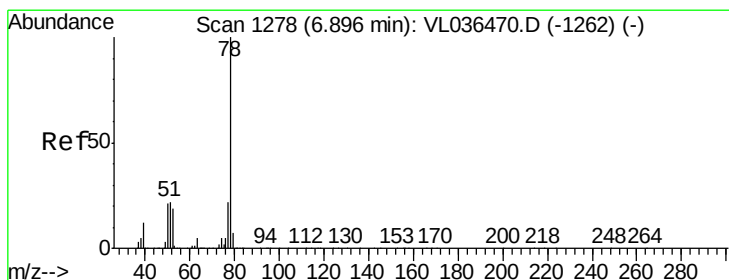
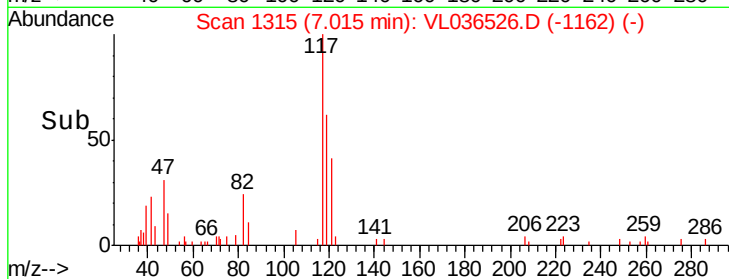
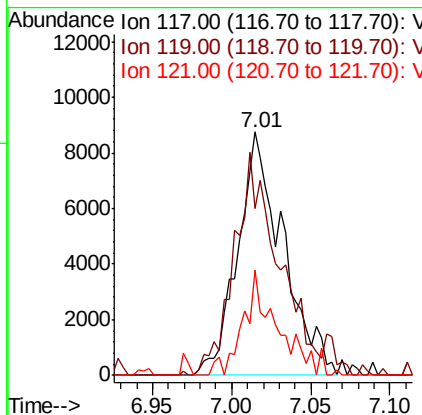
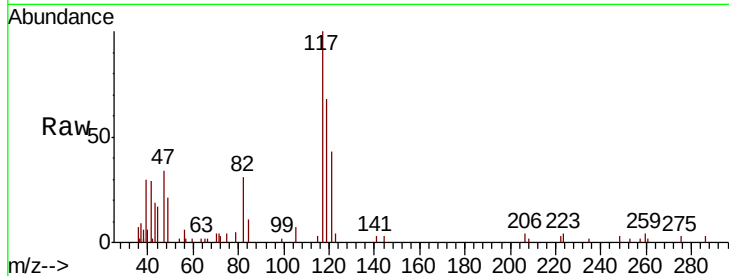
#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Instrument :
MSVOA_L
ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	Ratio	Lower	Upper
117	100		
119	68.4	78.2	117.2#
121	43.4	24.5	36.7#

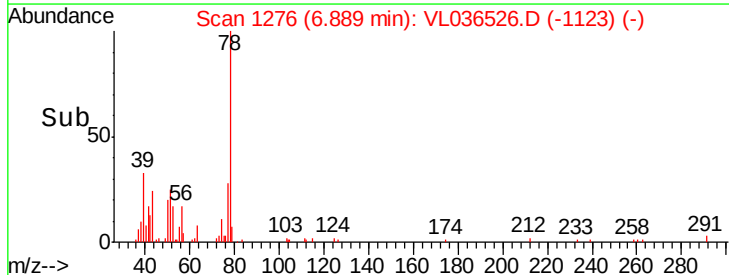
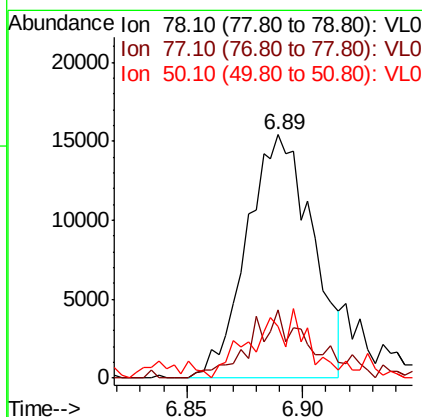
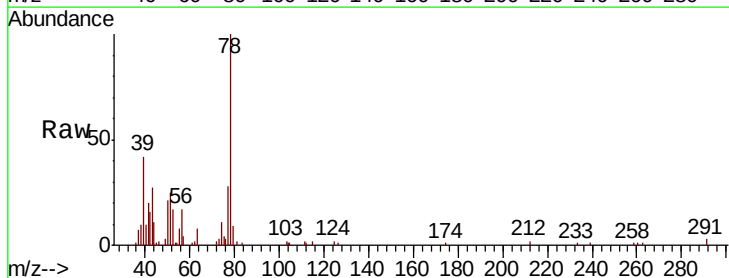
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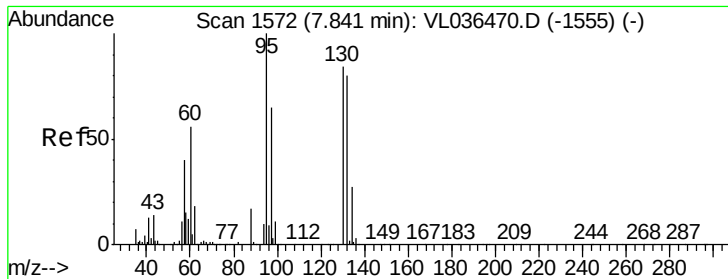
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3/29/2021 4:39:45 PM



#36
Benzene
Concen: 0.104 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.0	18.0	27.0#
50	18.1	16.5	24.7





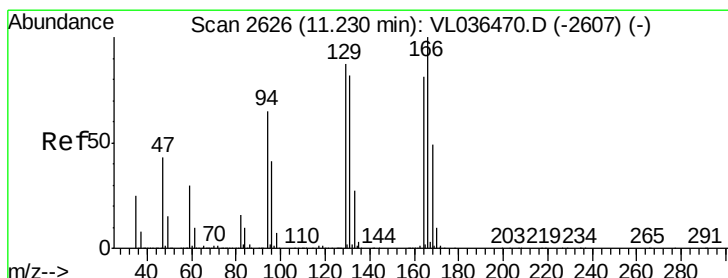
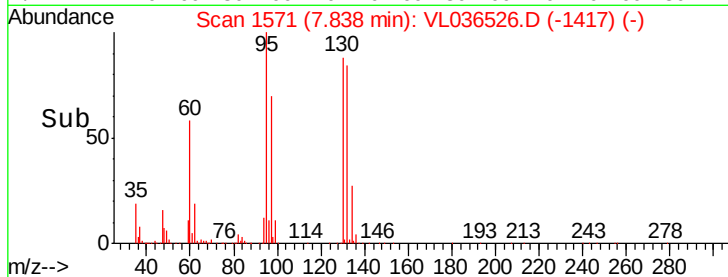
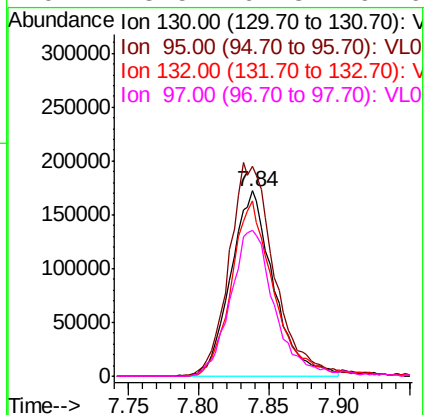
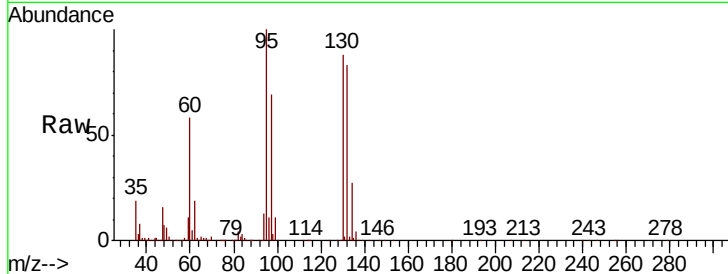
#38
 Trichloroethene
 Concen: 3.223 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VL036526.D
 Acq: 26 Mar 2021 23:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	Ratio	Lower	Upper
130	100		
95	113.0	95.7	143.5
132	94.6	76.2	114.4
97	78.5	61.8	92.6

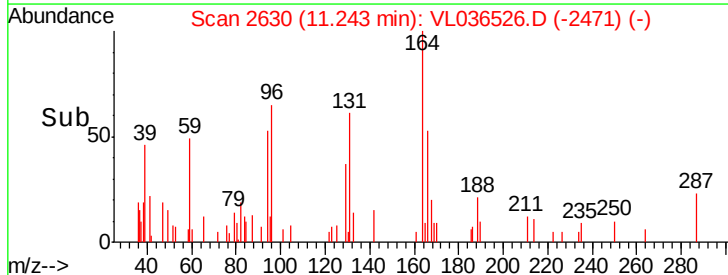
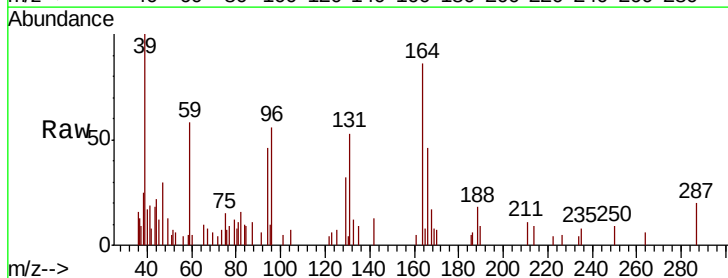
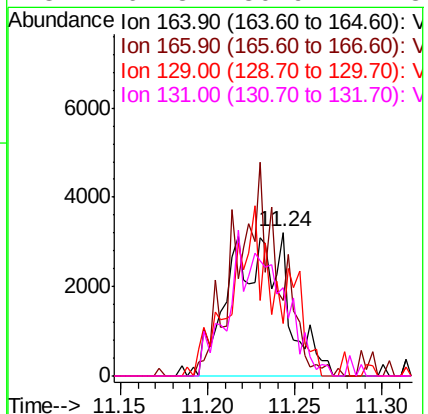
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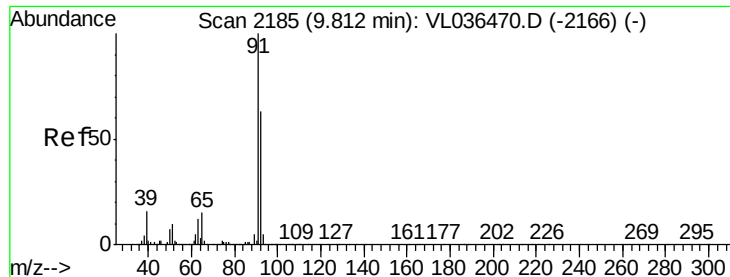
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#52
 Tetrachloroethene
 Concen: 0.067 ppbv m
 RT: 11.24 min Scan# 2630
 Delta R.T. 0.01 min
 Lab File: VL036526.D
 Acq: 26 Mar 2021 23:11

Tgt Ion	Ratio	Lower	Upper
164	100		
166	52.9	98.3	147.5#
129	36.7	85.8	128.8#
131	61.3	80.9	121.3#





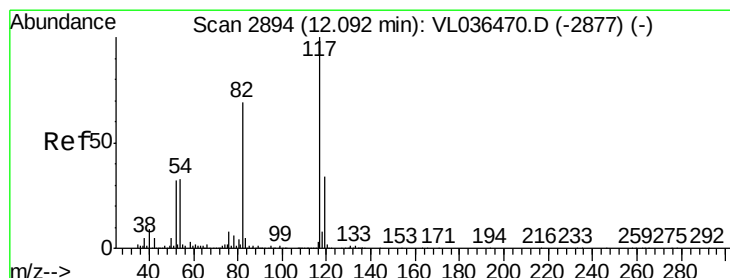
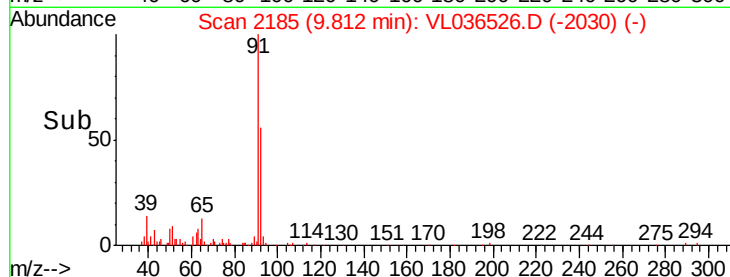
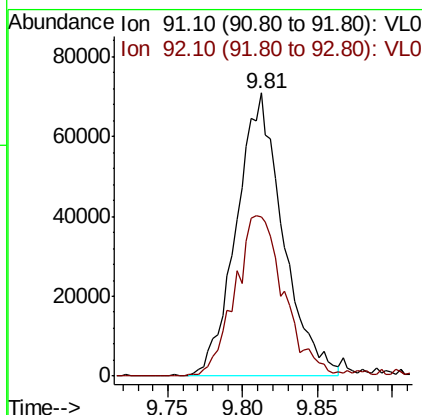
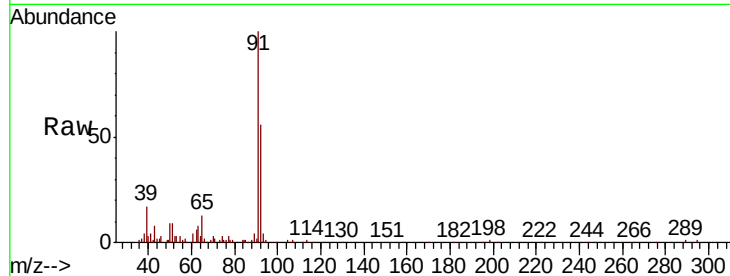
#53
Toluene
Concen: 0.498 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Instrument :
MSVOA_L
ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.8	73.2

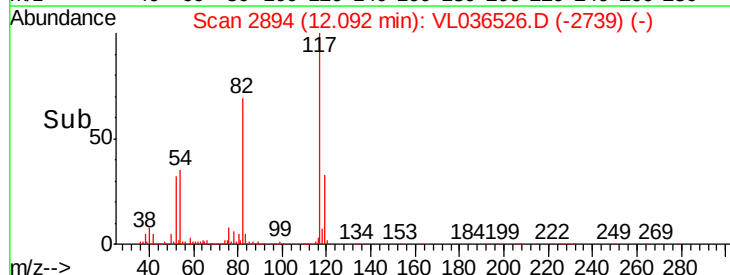
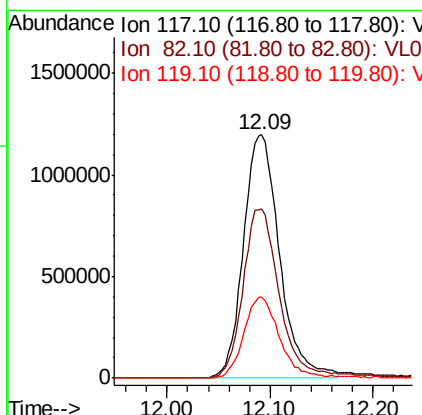
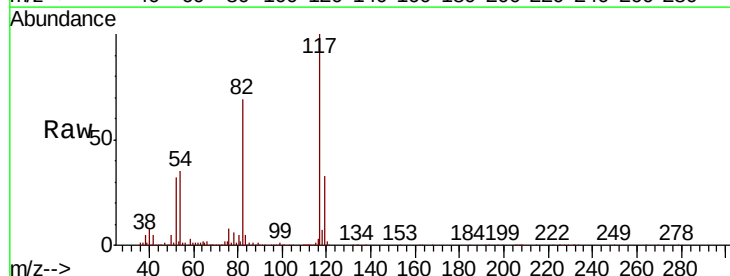
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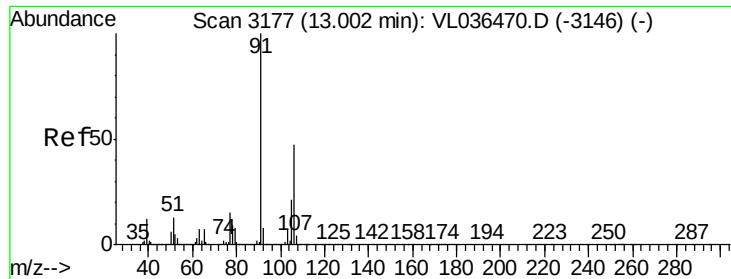
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Tgt Ion	Ratio	Lower	Upper
117	100		
82	71.8	57.4	86.0
119	33.2	47.4	71.0





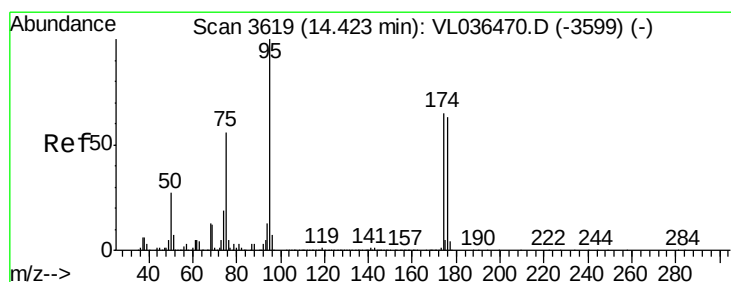
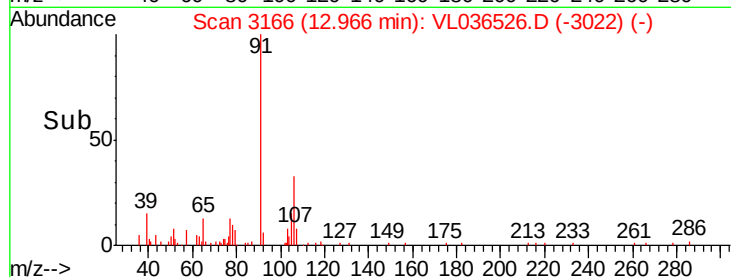
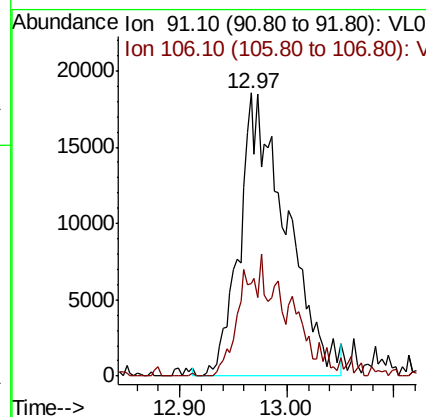
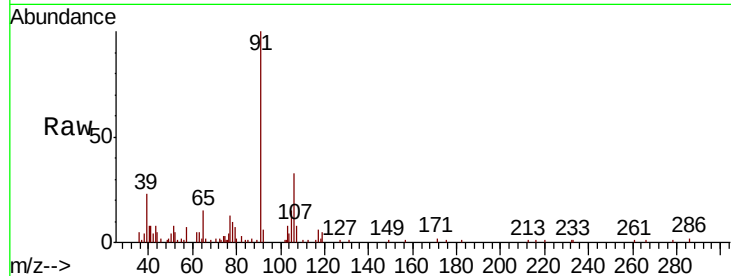
#59
m/p-Xylene
Concen: 0.152 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Instrument :
MSVOA_L
ClientSampleId :
SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion: 91 Resp: 56391
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

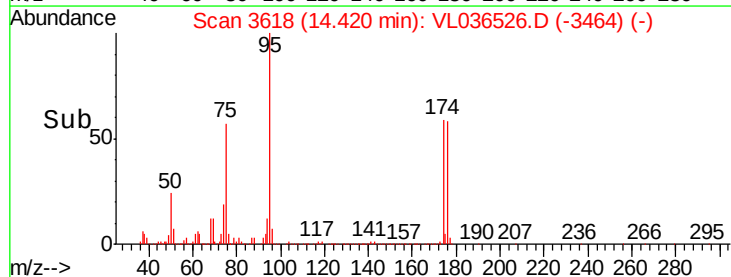
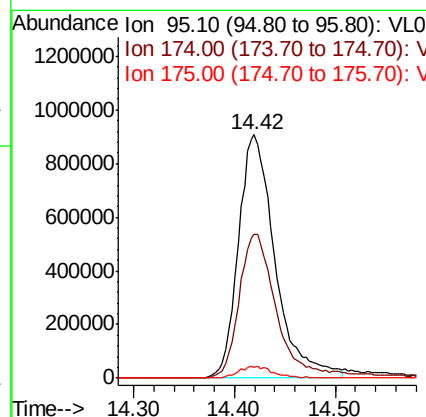
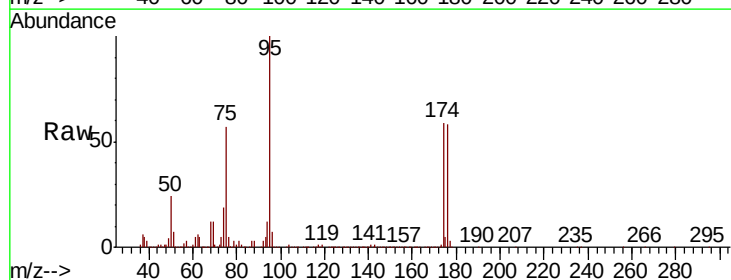
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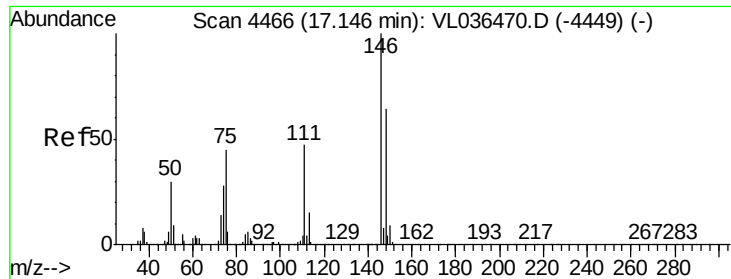
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3/29/2021 4:39:45 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.852 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036526.D
Acq: 26 Mar 2021 23:11

Tgt Ion: 95 Resp: 2293777
Ion Ratio Lower Upper
95 100
174 61.2 51.0 76.6
175 4.9 3.9 5.9





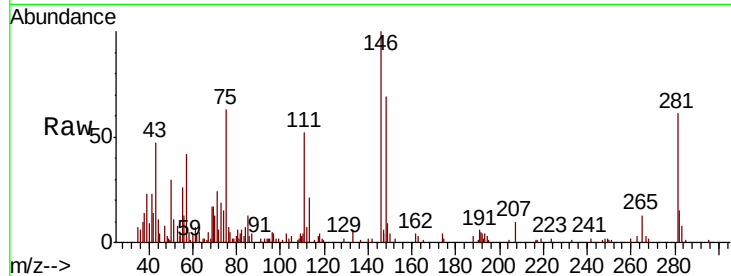
#76
 1,4-Dichlorobenzene
 Concen: 0.190 ppbv m
 RT: 17.14 min Scan# 4464
 Delta R.T. -0.01 min
 Lab File: VL036526.D
 Acq: 26 Mar 2021 23:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-9-PRE-K-TEACHER-WORK-RM

Tot Ion:	146	Resp:	41550
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.3	72.8#
148	0.0	33.0	98.9#

Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

