

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036719.D
 Acq On : 7 Apr 2021 7:39
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:11:58 AM

Quant Time: Apr 08 01:27:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 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	1217940	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3022062	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2669275	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2102814	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	24478	0.123 ppbv	# 81
3) Chlorodifluoromethane	2.98	51	43915	0.193 ppbv	97
4) Chloromethane	3.13	50	12063m	0.150 ppbv	
5) Vinyl Chloride	3.26	62	11149m	0.135 ppbv	
6) Bromomethane	3.47	94	7609m	0.167 ppbv	
7) Chloroethane	3.56	64	4900m	0.173 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	30659	0.162 ppbv	96
9) Propene	3.01	41	19035m	0.262 ppbv	
10) Heptane	8.12	43	40813	0.221 ppbv	# 28
11) Trichlorofluoromethane	3.95	101	33067	0.163 ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.48	101	19133	0.148 ppbv	86
13) Ethanol	3.62	45	9054m	1.048 ppbv	
14) Bromoethene	3.74	108	8476m	0.158 ppbv	
15) Acetone	3.87	43	545259	4.549 ppbv	# 67
17) tert-Butyl alcohol	4.34	59	16551m	0.159 ppbv	
18) 1,1-Dichloroethene	4.29	96	8993m	0.156 ppbv	
19) Isopropyl Alcohol	4.00	45	18247m	0.277 ppbv	
20) Methylene Chloride	4.34	84	22484m	0.401 ppbv	
22) trans-1,2-Dichloroethene	4.88	96	9055m	0.170 ppbv	
24) 1,1-Dichloroethane	5.01	63	22893m	0.153 ppbv	
26) Hexane	5.68	57	102672	0.776 ppbv	# 52
27) Carbon Disulfide	4.54	76	13924m	0.107 ppbv	
28) Methyl tert-Butyl Ether	5.05	73	24363m	0.156 ppbv	
29) Chloroform	5.74	83	33113	0.157 ppbv	88
30) Cyclohexane	7.13	84	35990m	0.336 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	19672m	0.154 ppbv	
32) 1,1,1-Trichloroethane	6.51	97	32764m	0.154 ppbv	
34) 2-Butanone	5.27	43	29636m	0.201 ppbv	
35) Carbon Tetrachloride	7.01	117	29506m	0.127 ppbv	
36) Benzene	6.88	78	59714m	0.214 ppbv	
38) Trichloroethene	7.82	130	16164m	0.149 ppbv	
42) Bromodichloromethane	7.79	83	27803m	0.125 ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	1041050	2.122 ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	17333m	0.151 ppbv	
52) Tetrachloroethene	11.21	164	16117m	0.157 ppbv	
53) Toluene	9.80	91	46957m	0.158 ppbv	
54) 1,2-Dibromoethane	10.61	107	21693m	0.134 ppbv	
57) Chlorobenzene	12.15	112	37341m	0.164 ppbv	
58) Ethyl Benzene	12.71	91	41654m	0.107 ppbv	
59) m/p-Xylene	13.00	91	65576m	0.194 ppbv	
60) o-Xylene	13.69	91	40094m	0.122 ppbv	

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MSVOA_L
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VIBLK

Manual Integrations
APPROVED

MMDadoda
4/12/2021 11:11:58 AM

Quant Time: Apr 08 01:27:22 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.67	105	53986m	0.122	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	35878m	0.144	ppbv	
65) tert-Butylbenzene	16.75	119	36518m	0.095	ppbv	

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

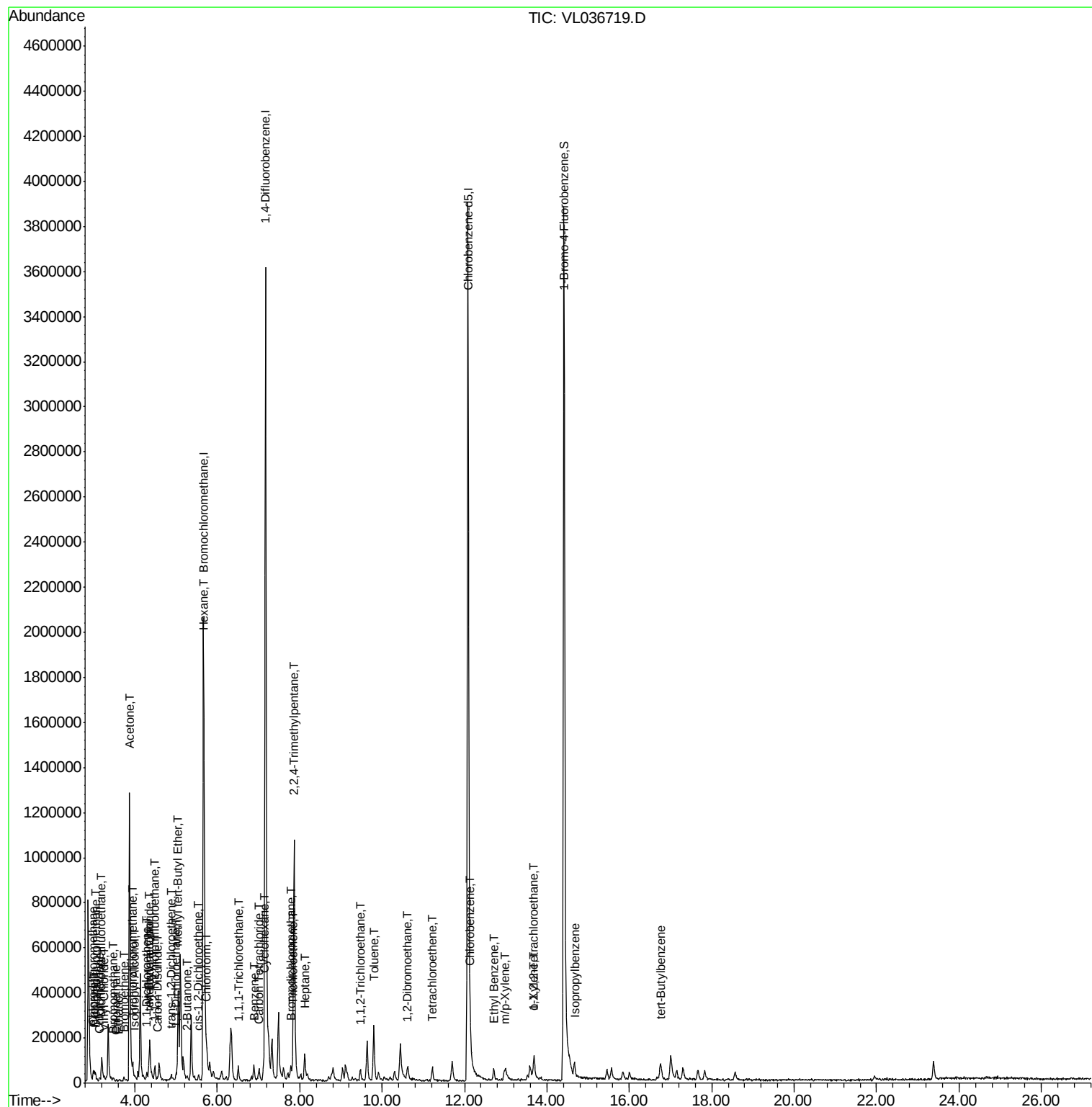
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
Data File : VL036719.D
Acq On : 7 Apr 2021 7:39
Operator : SY/AP
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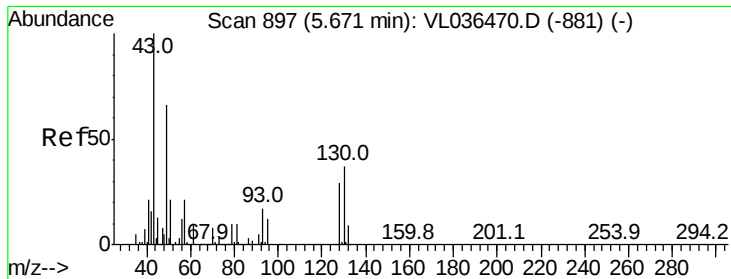
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

ClientSampled :

VIBLK

Tot Ion: 49 Resp: 1217940

Ion Ratio Lower Upper

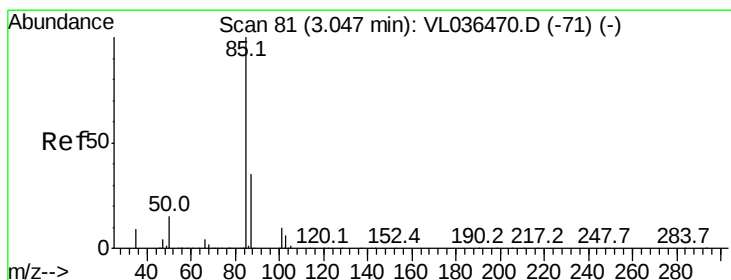
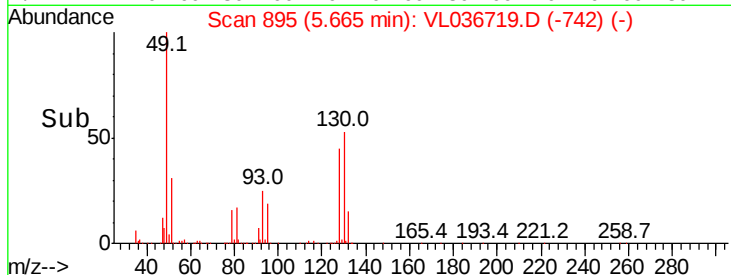
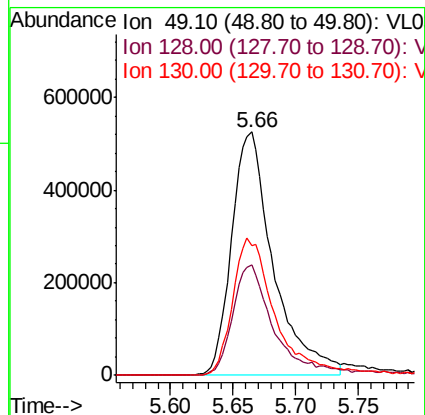
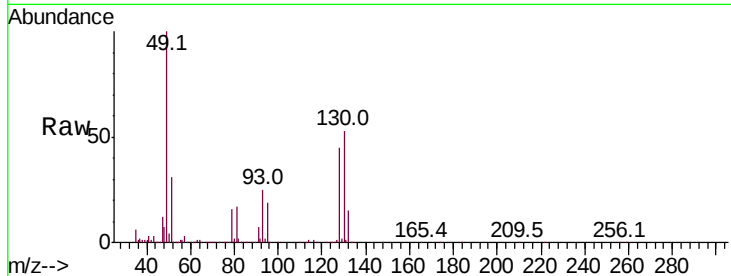
49 100

128 46.8 23.5 70.6

130 59.8 29.1 87.4

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.123 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036719.D

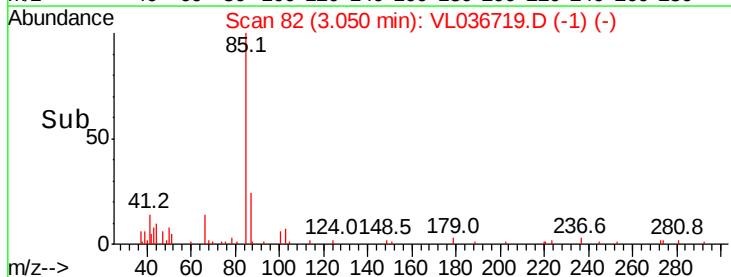
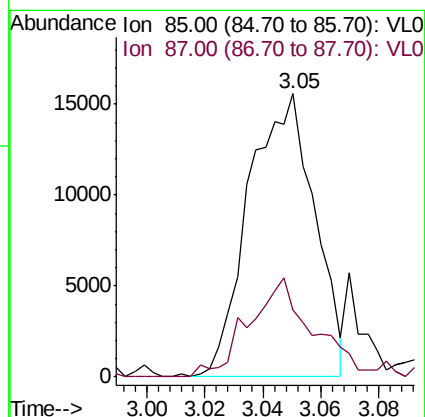
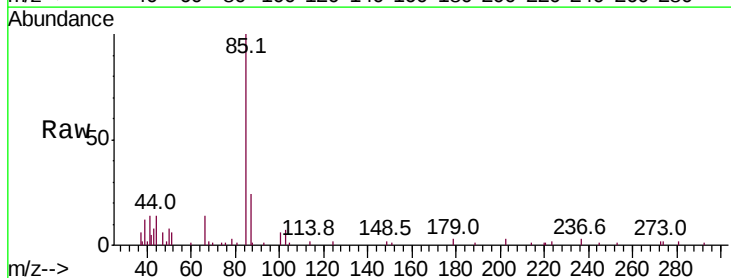
Acq: 7 Apr 2021 7:39

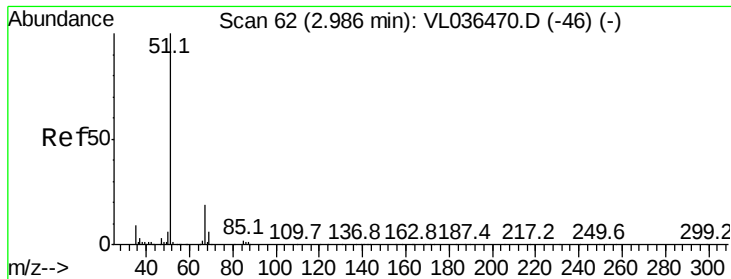
Tgt Ion: 85 Resp: 24478

Ion Ratio Lower Upper

85 100

87 23.8 27.8 41.8#





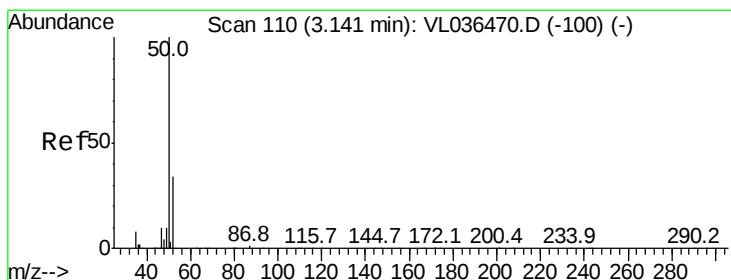
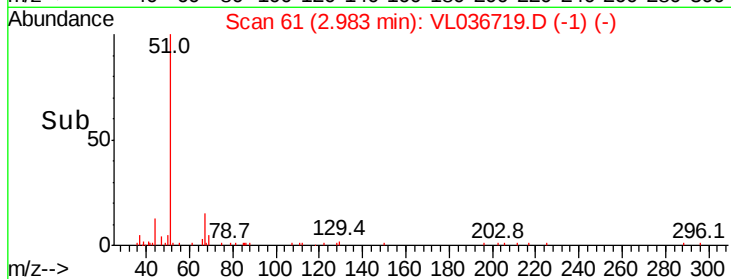
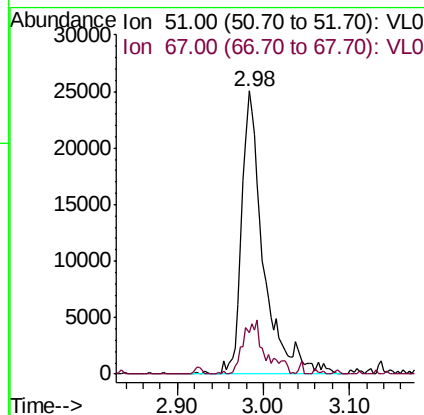
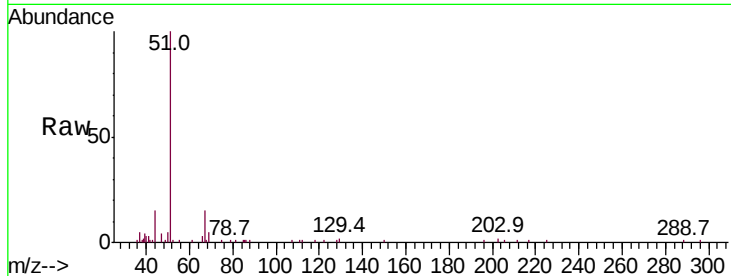
#3
Chlorodifluoromethane
Concen: 0.193 ppbv
RT: 2.98 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
51	100	43915		
67	19.8		14.7	22.1

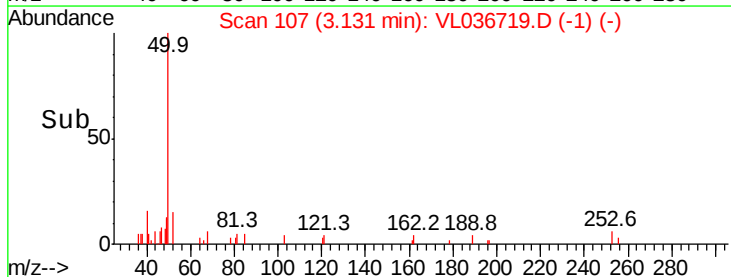
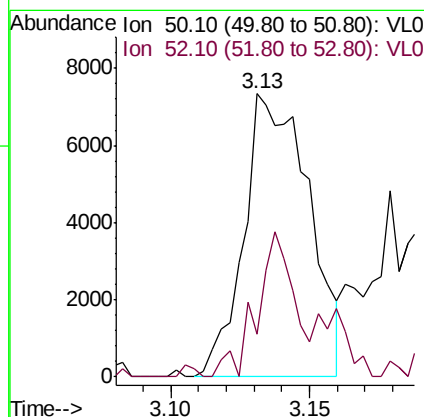
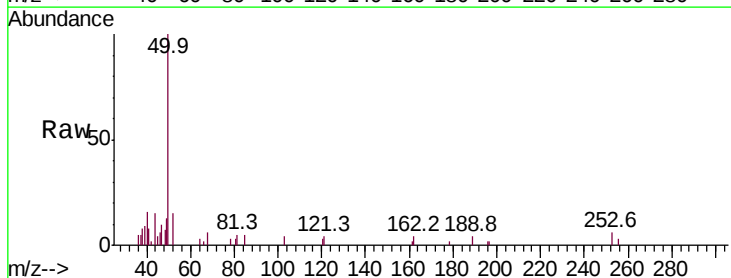
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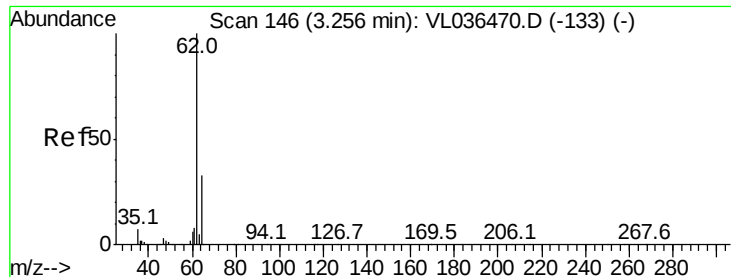
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#4
Chloromethane
Concen: 0.150 ppbv m
RT: 3.13 min Scan# 107
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Resp	Lower	Upper
50	100	12063		
52	15.0		27.0	40.6#





#5

Vinyl Chloride

Concen: 0.135 ppbv m

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

ClientSampled :

VIBLK

Tot Ion: 62 Resp: 11149

Ion Ratio Lower Upper

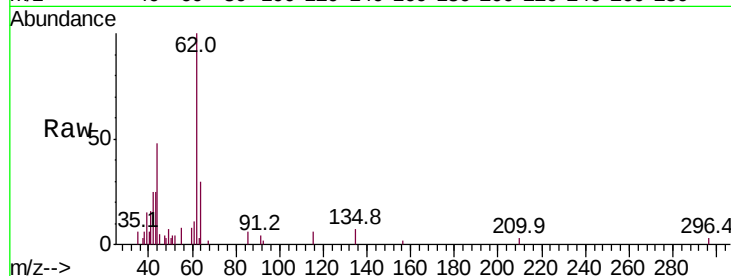
62 100

64 29.7 26.4 39.6

Manual Integrations
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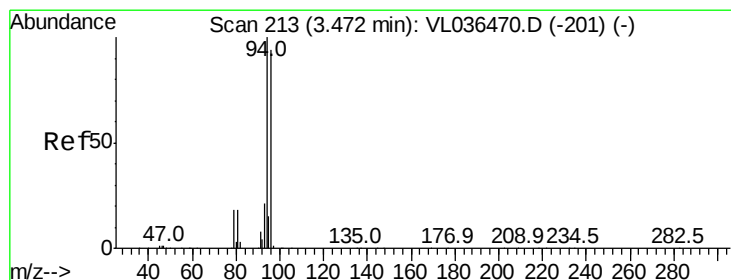
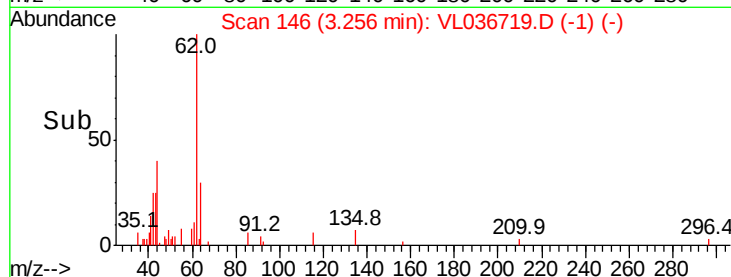
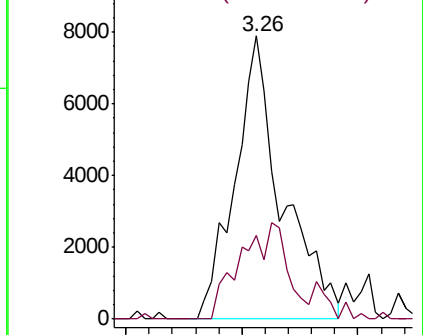
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.167 ppbv m

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL036719.D

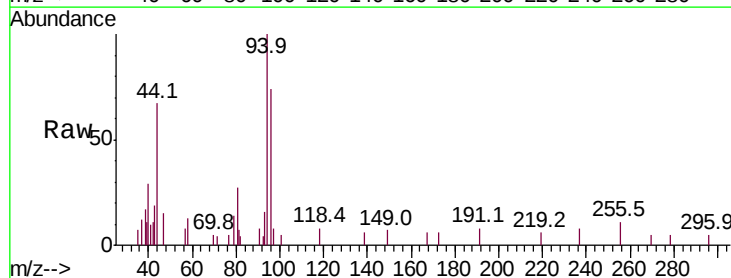
Acq: 7 Apr 2021 7:39

Tgt Ion: 94 Resp: 7609

Ion Ratio Lower Upper

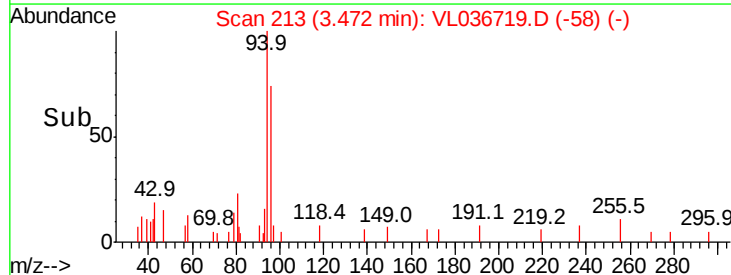
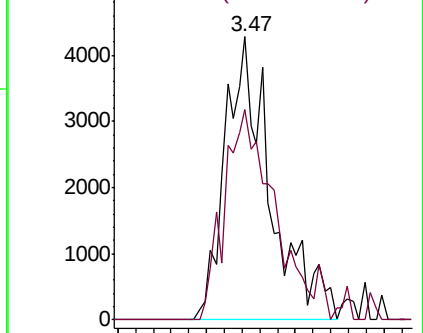
94 100

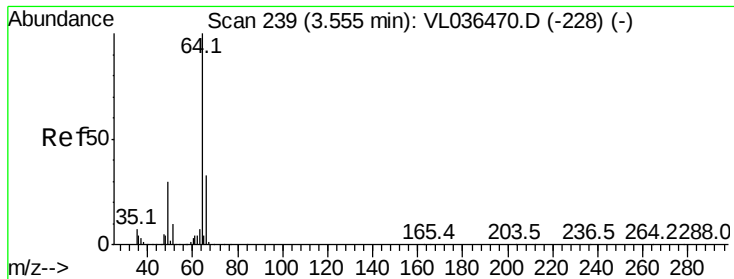
96 74.3 74.9 112.3#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.173 ppbv m

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

ClientSampled :

VIBLK

Tot Ion: 64 Resp: 4900

Ion Ratio Lower Upper

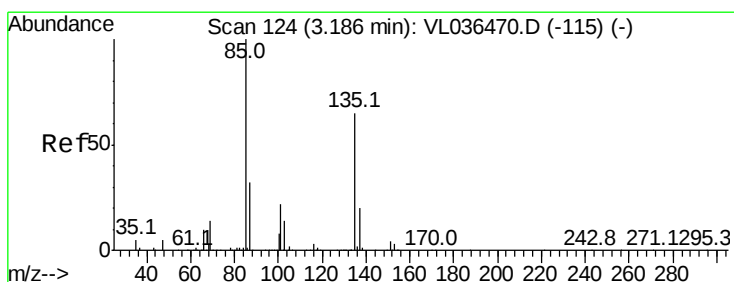
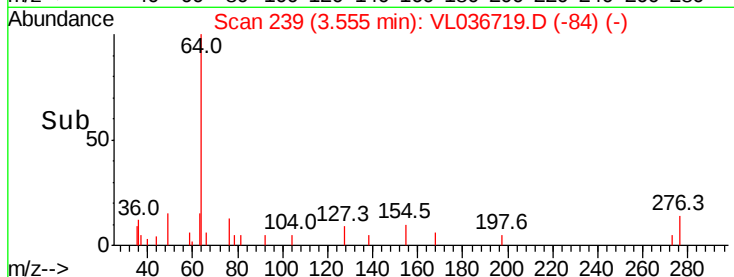
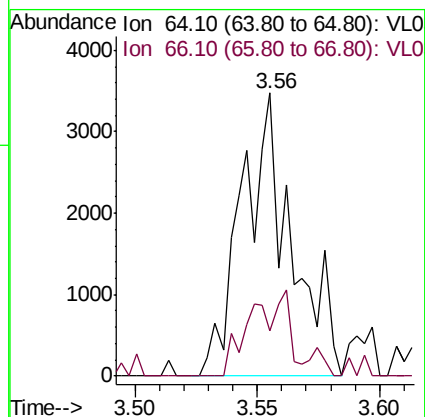
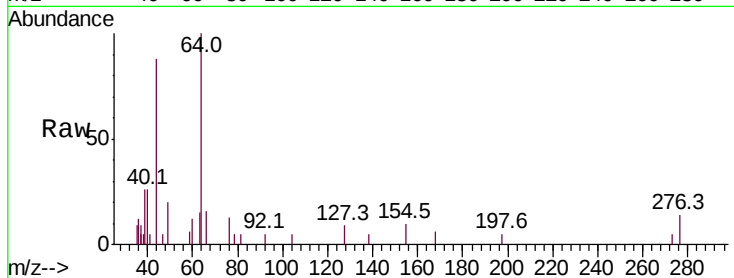
64 100

66 16.2 26.2 39.2#

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#8

Dichlorotetrafluoroethane

Concen: 0.162 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL036719.D

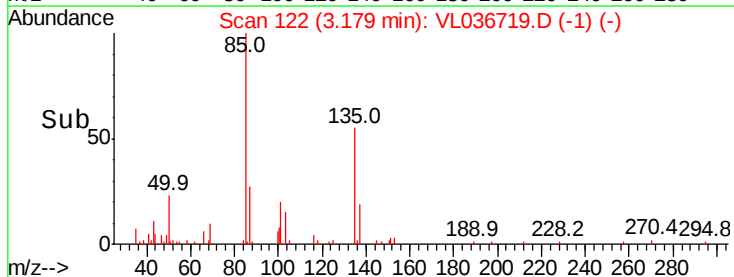
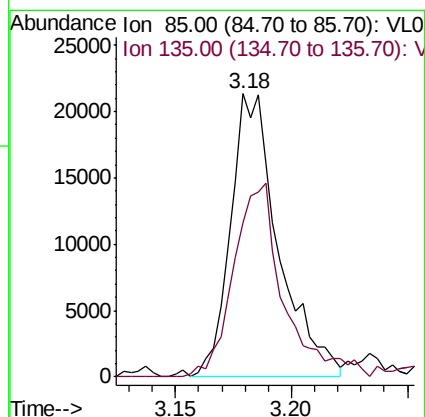
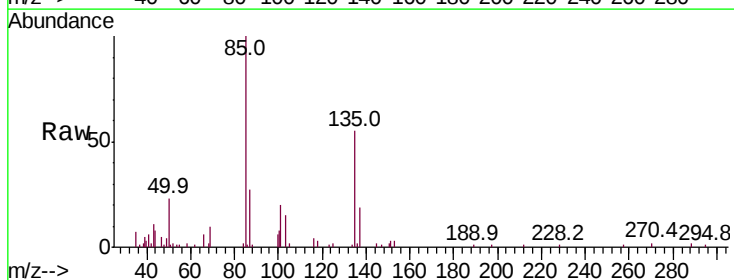
Acq: 7 Apr 2021 7:39

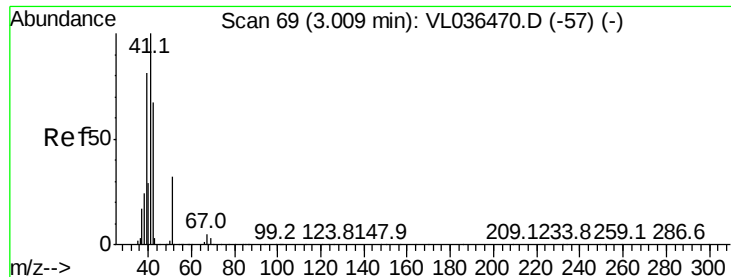
Tgt Ion: 85 Resp: 30659

Ion Ratio Lower Upper

85 100

135 70.9 54.3 81.5





#9

Propene

Concen: 0.262 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

ClientSampled :

VIBLK

Tot Ion: 41 Resp: 19035

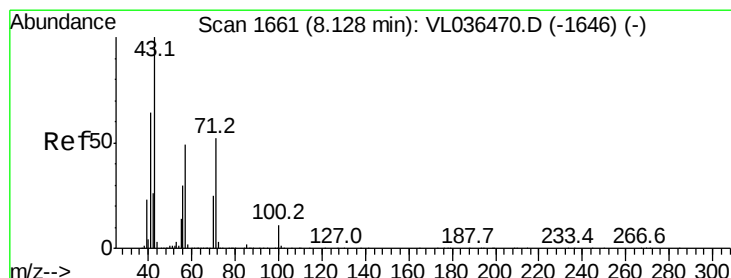
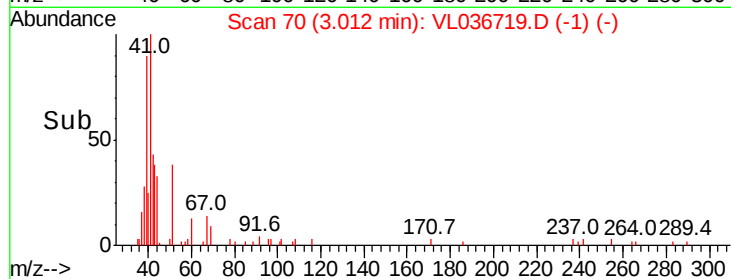
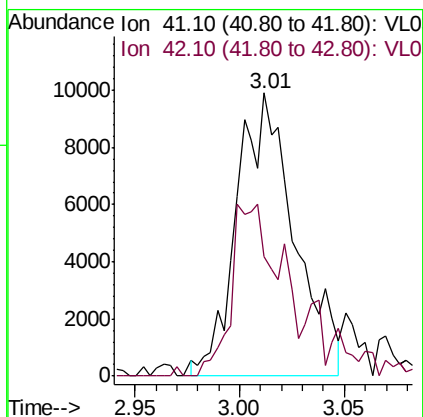
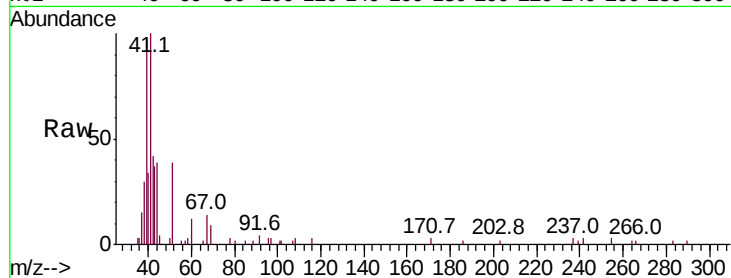
Ion Ratio Lower Upper

41 100

42 65.7 57.0 85.4

Manual Integrations
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#10

Heptane

Concen: 0.221 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036719.D

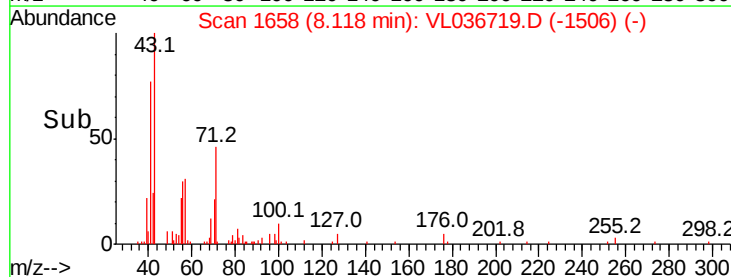
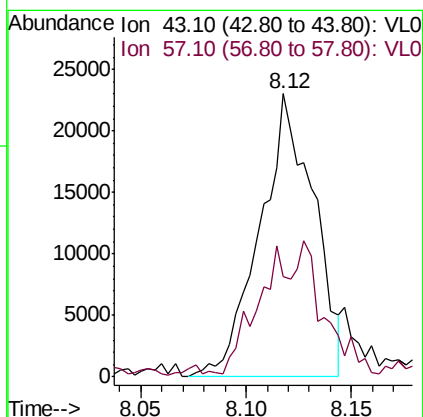
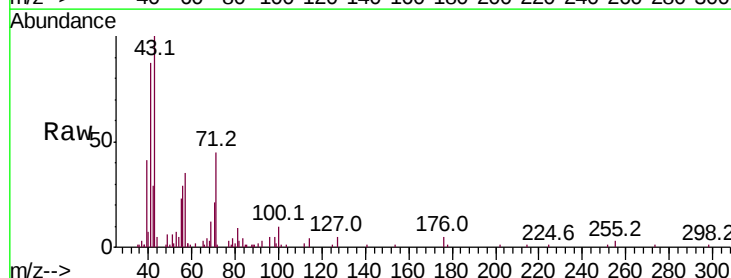
Acq: 7 Apr 2021 7:39

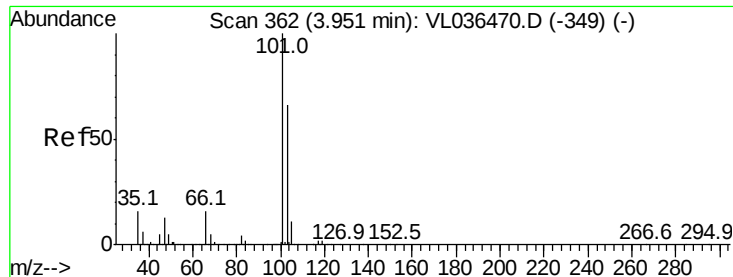
Tgt Ion: 43 Resp: 40813

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





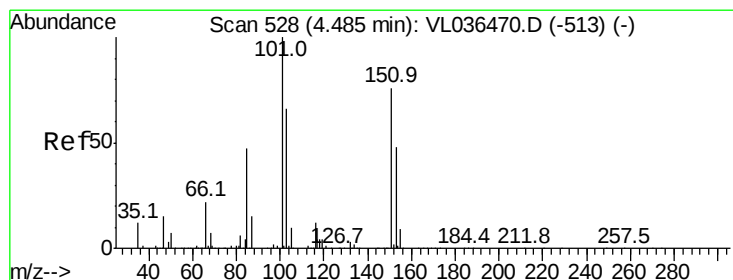
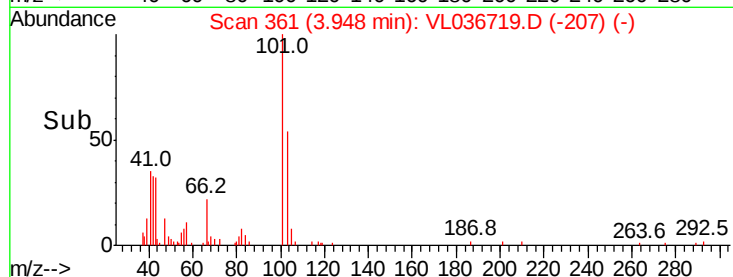
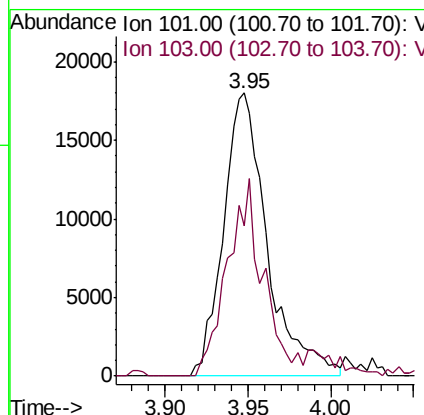
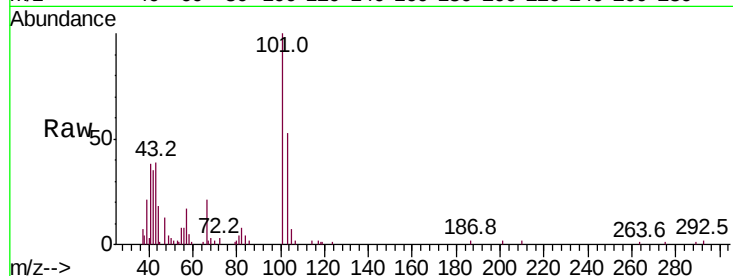
#11
 Trichlorofluoromethane
 Concen: 0.163 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036719.D
 Acq: 7 Apr 2021 7:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tot Ion	Ratio	Lower	Upper
101	100		
103	52.9	52.5	78.7

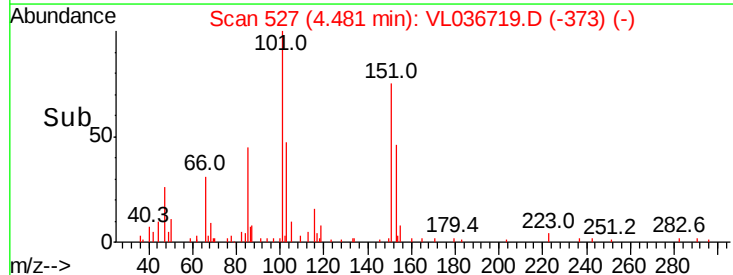
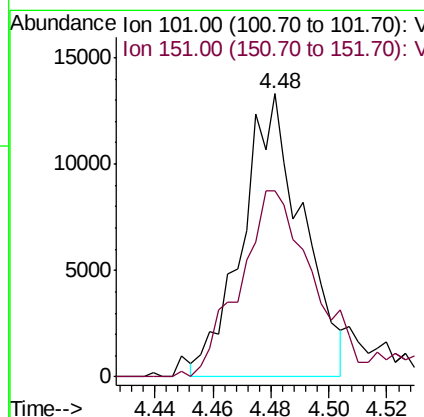
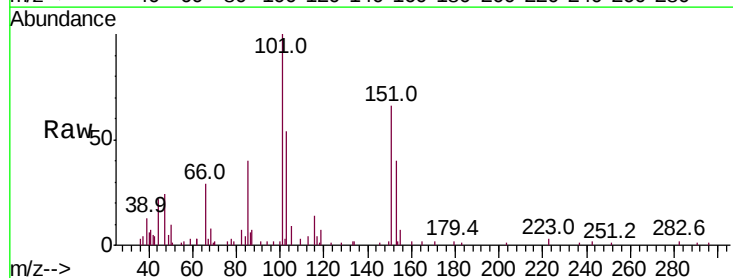
Manual Integrations
 APPROVED

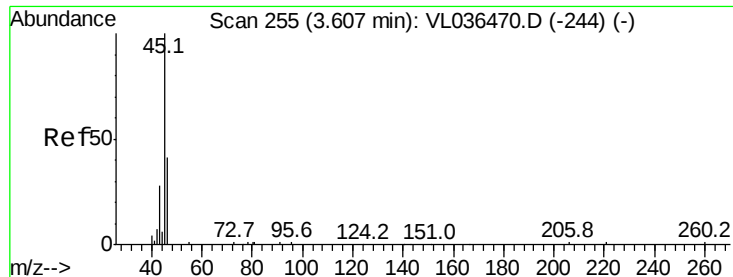
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 4/12/2021 11:11:58 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.148 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL036719.D
 Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Lower	Upper
101	100		
151	87.8	60.9	91.3





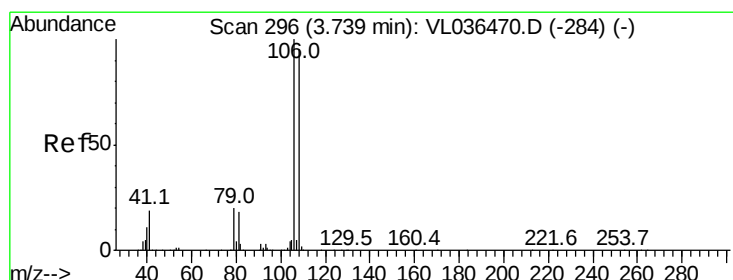
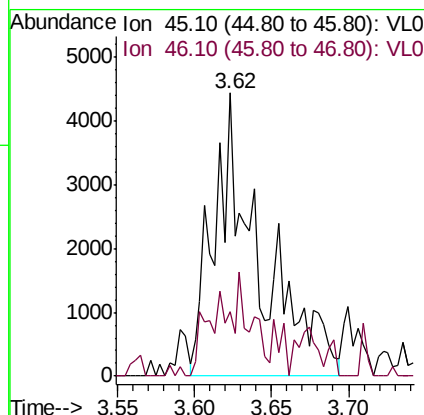
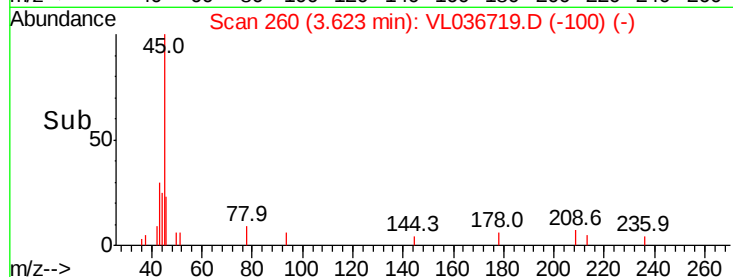
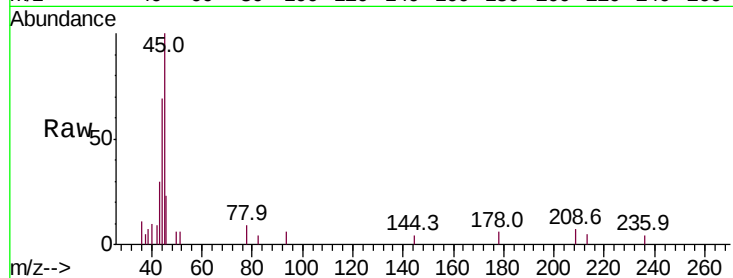
#13
Ethanol
Concen: 1.048 ppbv m
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion: 45 Resp: 9054
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#

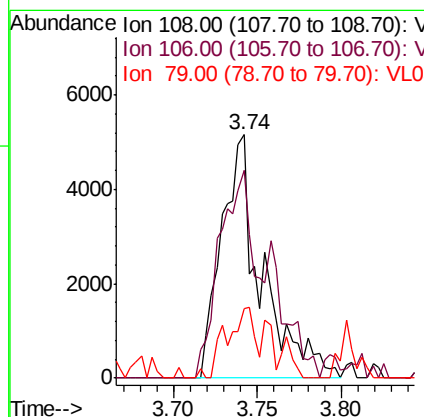
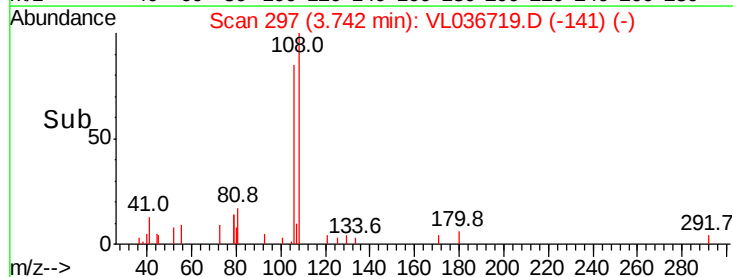
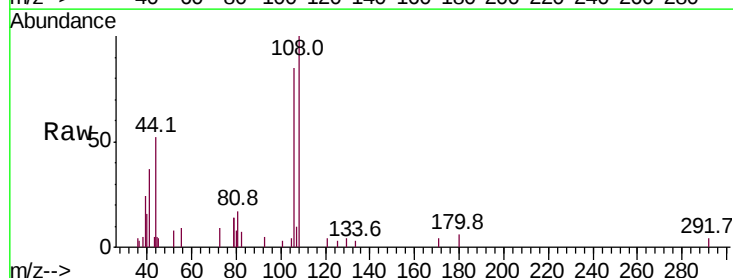
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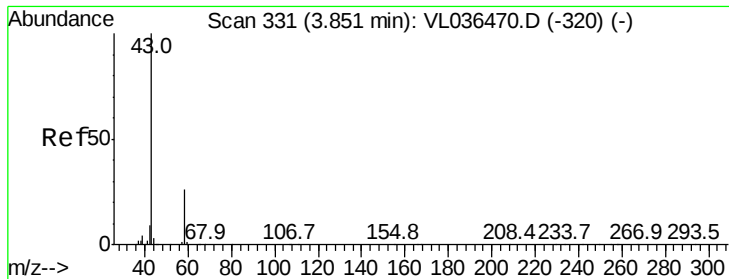
MMDadoda
4/12/2021 11:11:58 AM



#14
Bromoethene
Concen: 0.158 ppbv m
RT: 3.74 min Scan# 297
Delta R.T. 0.00 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion: 108 Resp: 8476
Ion Ratio Lower Upper
108 100
106 109.4 89.0 133.6
79 30.9 16.6 25.0#





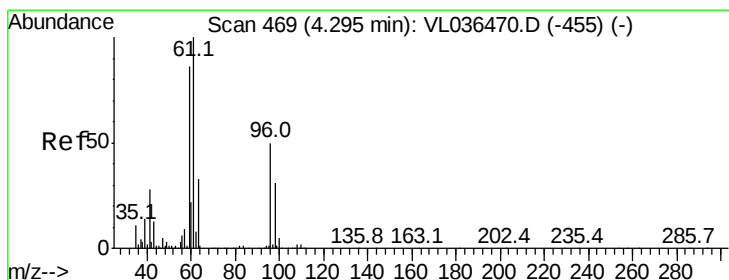
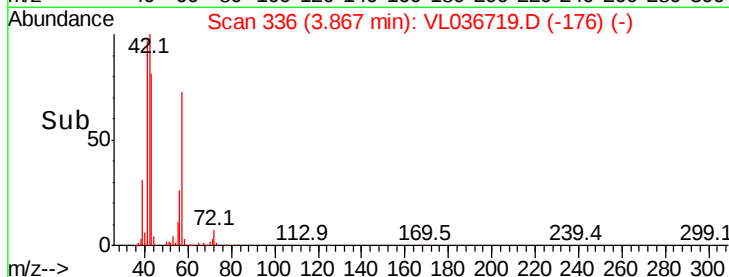
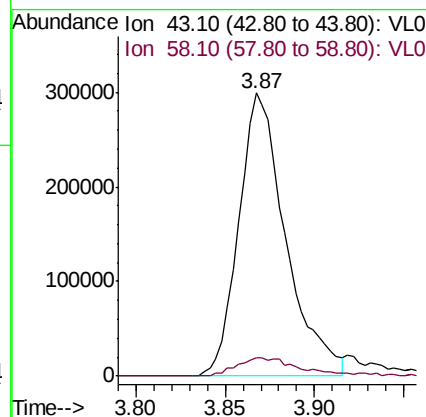
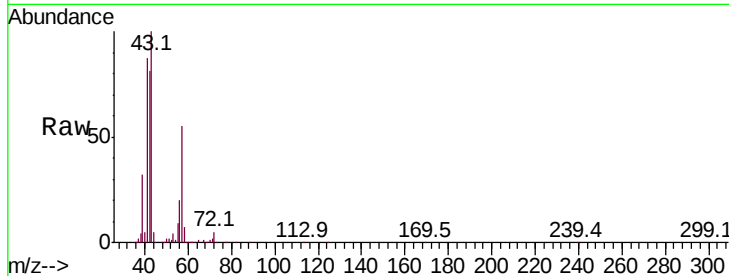
#15
Acetone
Concen: 4.549 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.02 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tot Ion: 43 Resp: 545259
Ion Ratio Lower Upper
43 100
58 9.6 21.2 31.8#

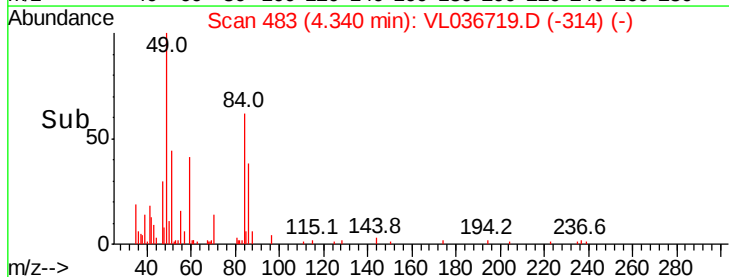
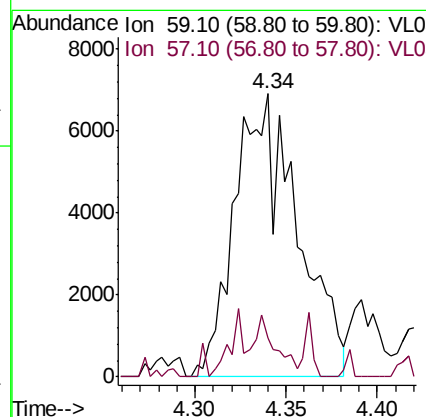
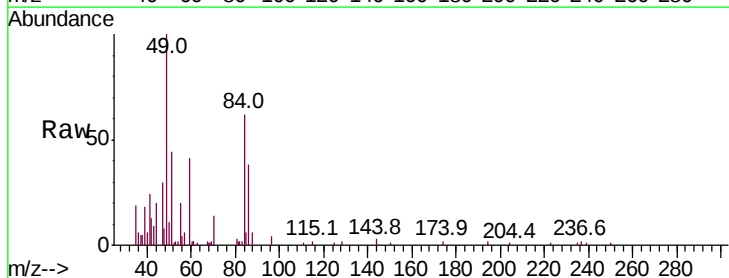
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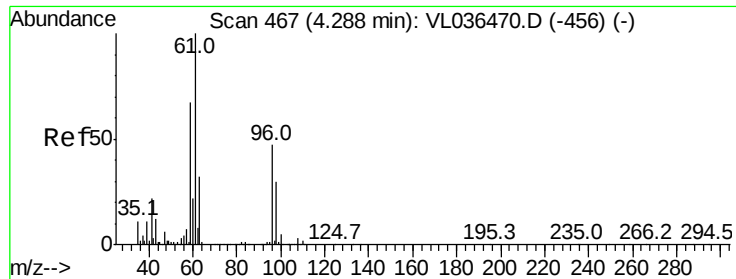
MMDadoda
4/12/2021 11:11:58 AM



#17
tert-Butyl alcohol
Concen: 0.159 ppbv m
RT: 4.34 min Scan# 483
Delta R.T. 0.04 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion: 59 Resp: 16551
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#18

1,1-Dichloroethene

Concen: 0.156 ppbv m

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

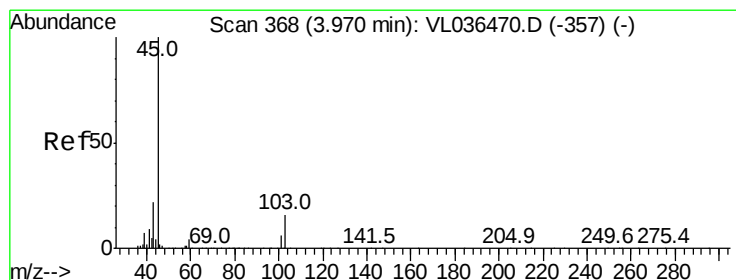
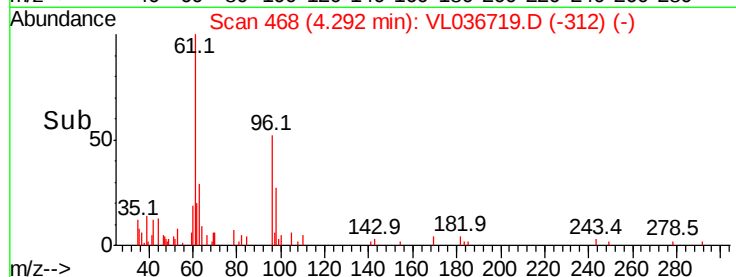
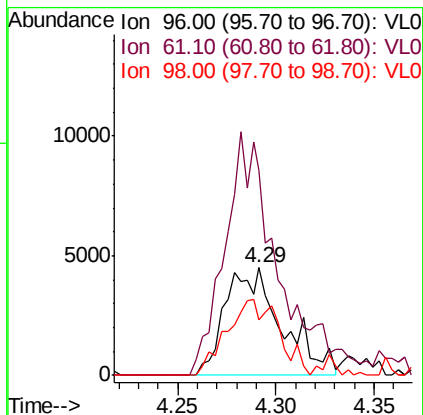
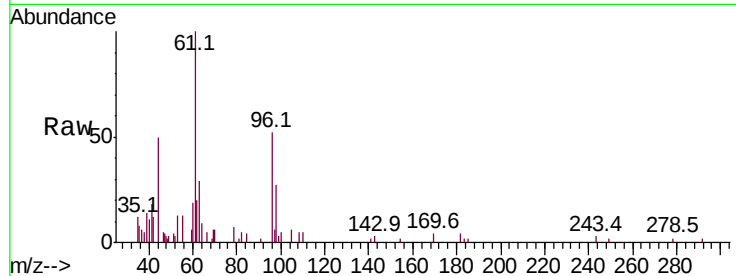
ClientSampleId :

VIBLK

Tot Ion:	96	Resp:	8993
Ion	Ratio	Lower	Upper
96	100		
61	190.6	168.6	253.0
98	52.2	50.8	76.2

Manual Integrations
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4/12/2021 11:11:58 AM



#19

Isopropyl Alcohol

Concen: 0.277 ppbv m

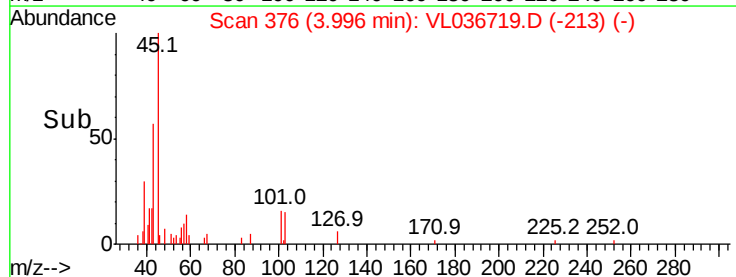
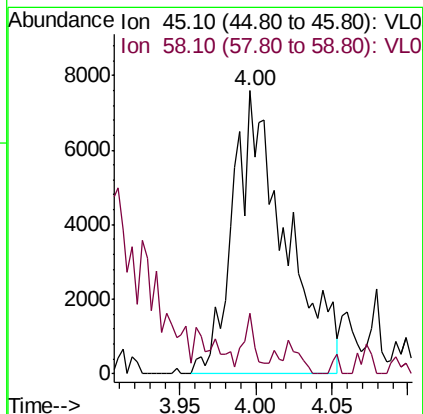
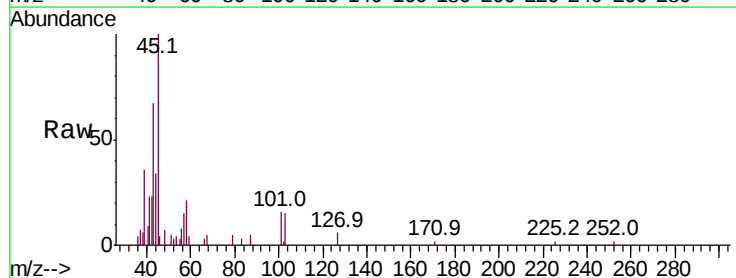
RT: 4.00 min Scan# 376

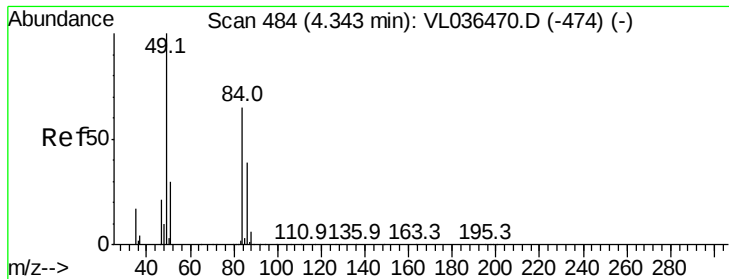
Delta R.T. 0.03 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Tgt Ion:	45	Resp:	18247
Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.9	4.3#





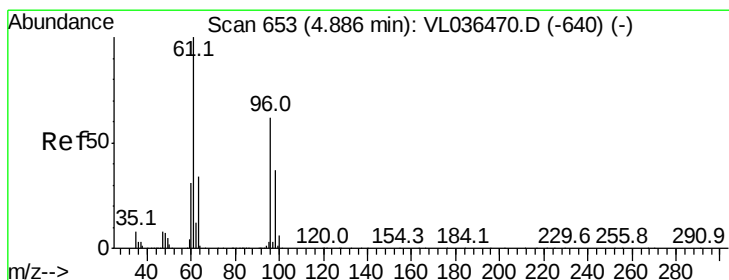
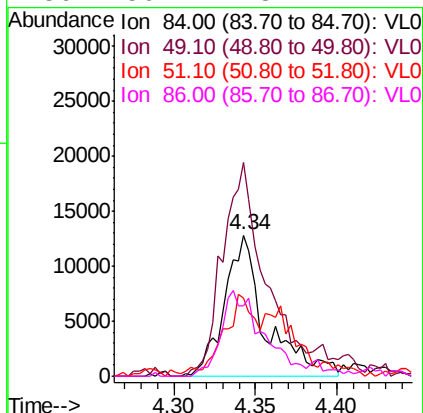
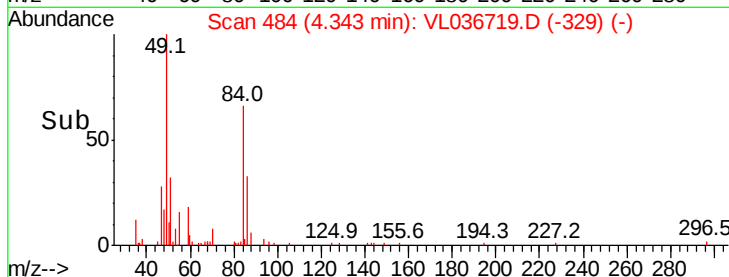
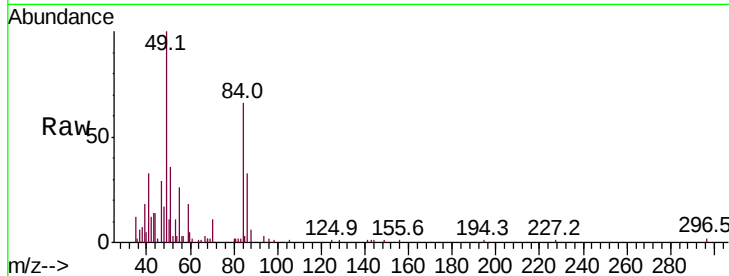
#20
Methvlene Chloride
Concen: 0.401 ppbv m
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion:	84	Resp:	22484
Ion	Ratio	Lower	Upper
84	100		
49	151.0	122.9	184.3
51	54.9	36.9	55.3
86	50.2	48.2	72.4

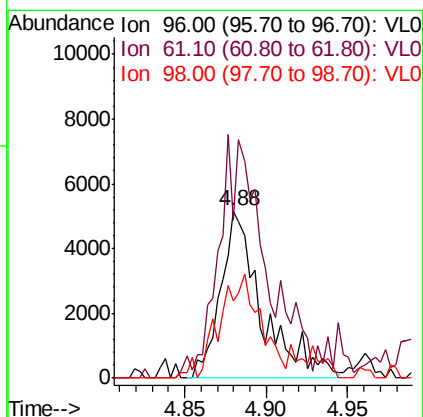
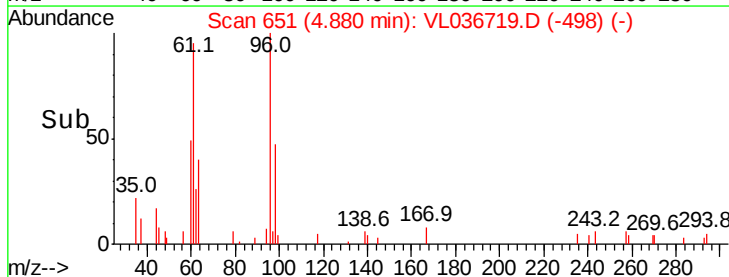
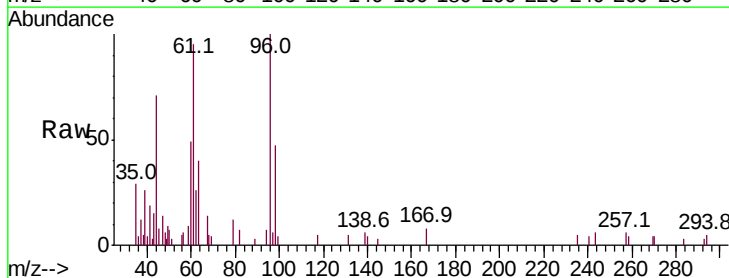
Manual Integrations
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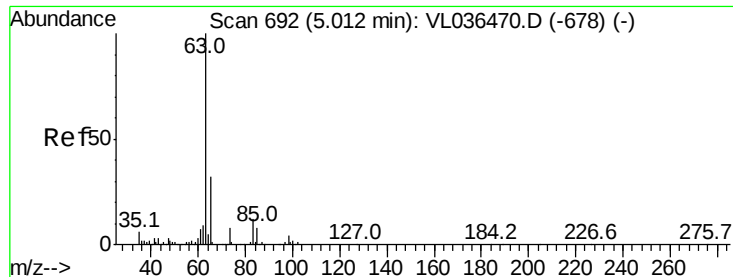
MMDadoda
4/12/2021 11:11:58 AM



#22
trans-1,2-Dichloroethene
Concen: 0.170 ppbv m
RT: 4.88 min Scan# 651
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion:	96	Resp:	9055
Ion	Ratio	Lower	Upper
96	100		
61	94.8	129.4	194.0#
98	46.6	48.2	72.4#





#24

1,1-Dichloroethane

Concen: 0.153 ppbv m

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

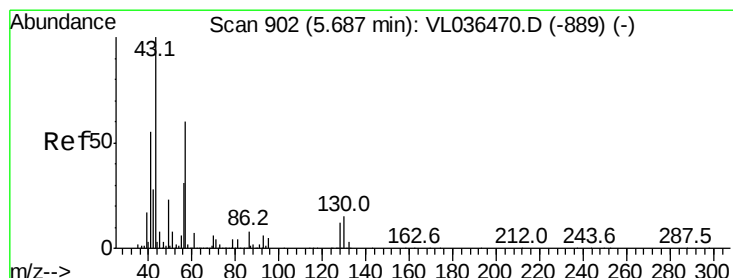
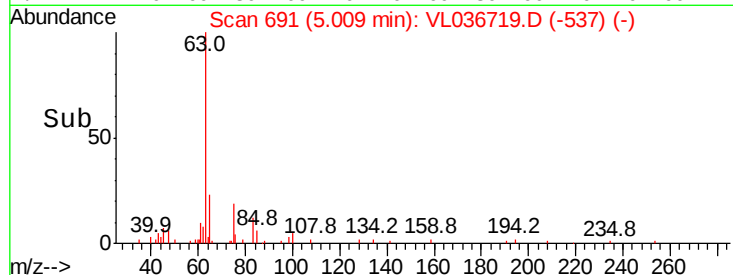
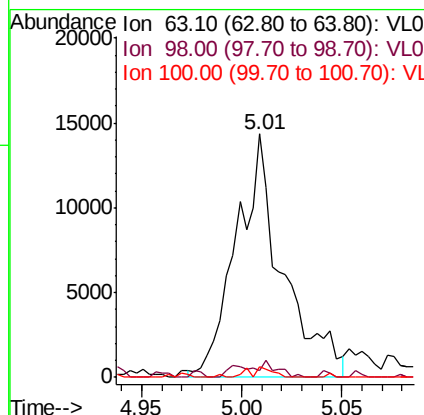
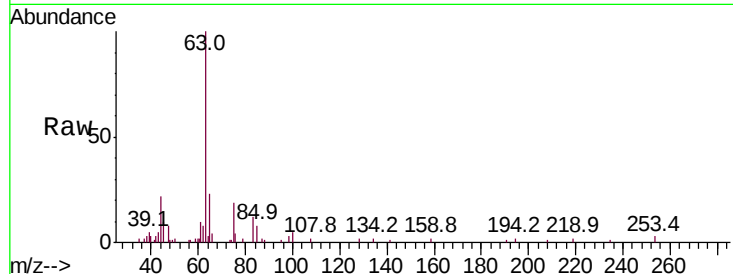
ClientSampleId :

VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
63	100	22893		
98	2.9		2.1	6.2
100	4.5		0.9	2.8#

Manual Integrations
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#26

Hexane

Concen: 0.776 ppbv

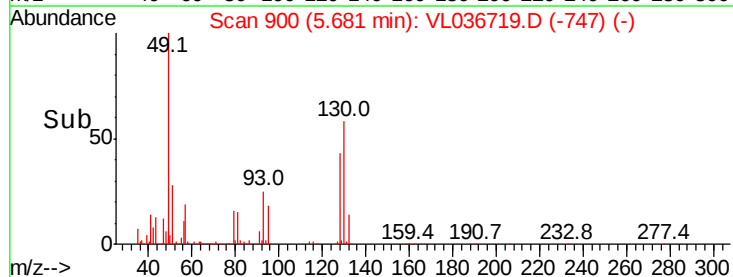
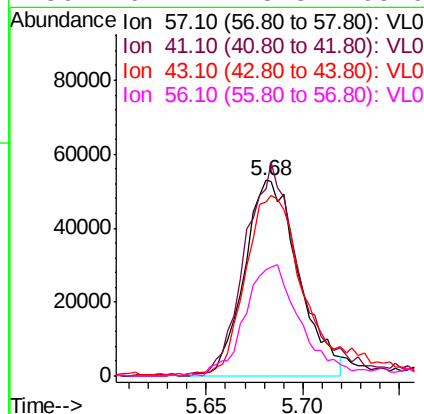
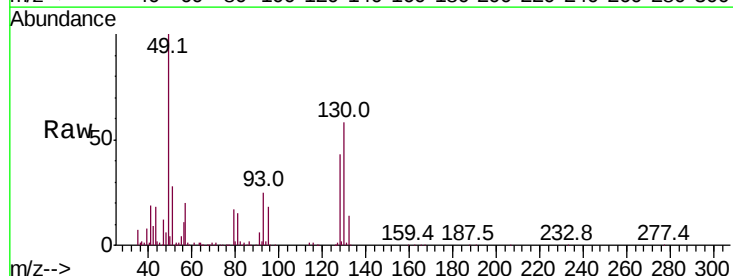
RT: 5.68 min Scan# 900

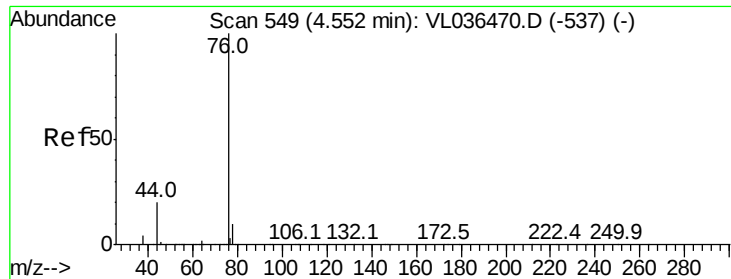
Delta R.T. -0.01 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	102672		
41	114.1		77.2	115.8
43	104.0		173.8	260.6#
56	61.7		43.8	65.6





#27

Carbon Disulfide

Concen: 0.107 ppbv m

RT: 4.54 min Scan# 546

Delta R.T. -0.01 min

Lab File: VL036719.D

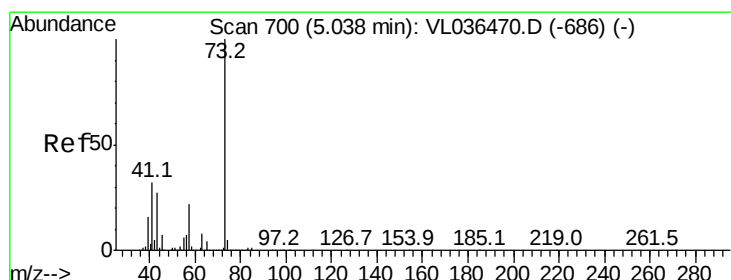
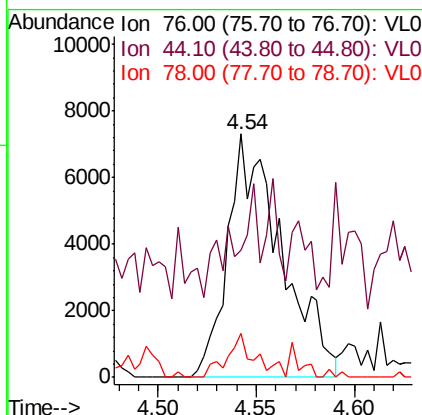
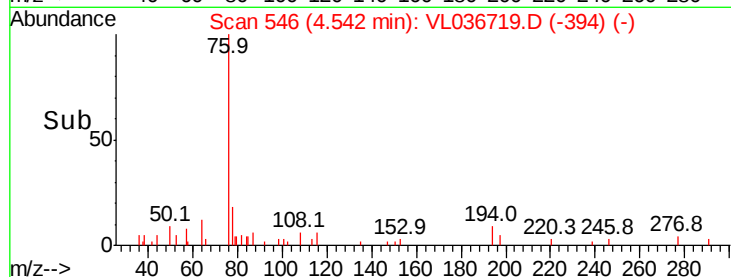
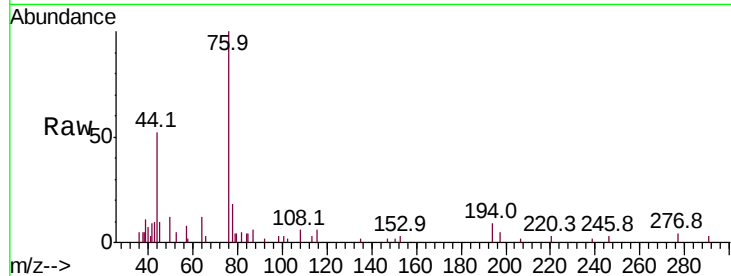
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion	Ratio	Lower	Upper
76	100		
44	0.0	17.5	26.3#
78	8.8	8.6	13.0

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#28

Methyl tert-Butyl Ether

Concen: 0.156 ppbv m

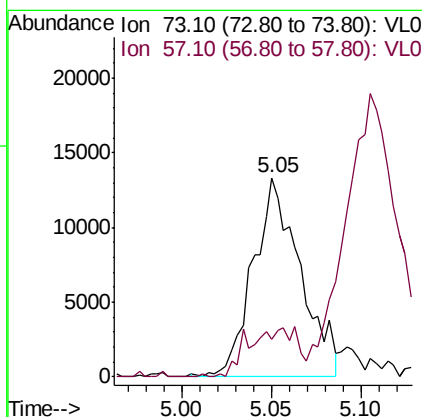
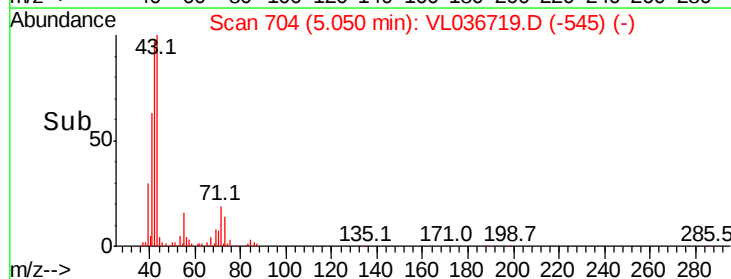
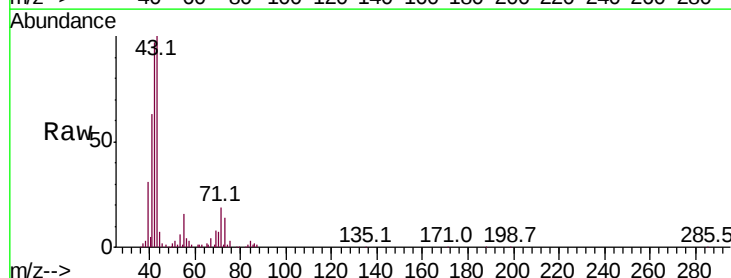
RT: 5.05 min Scan# 704

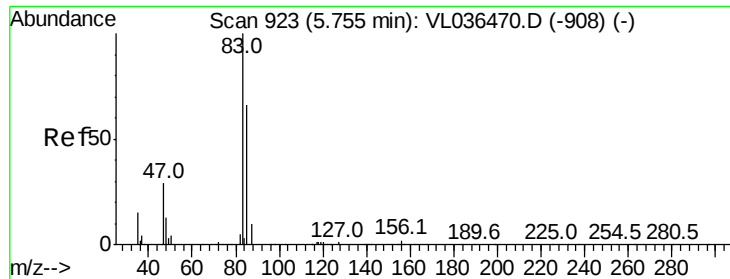
Delta R.T. 0.01 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Lower	Upper
73	100		
57	0.0	18.5	27.7#





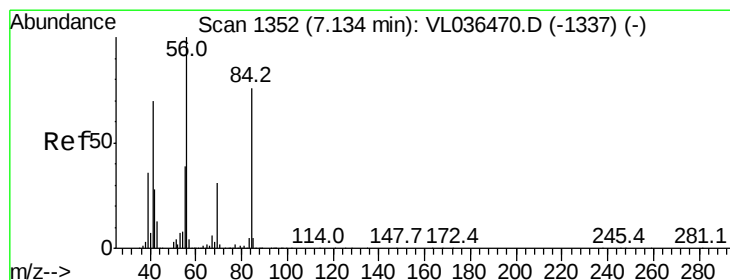
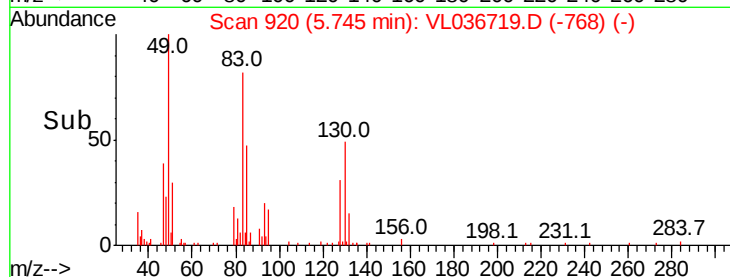
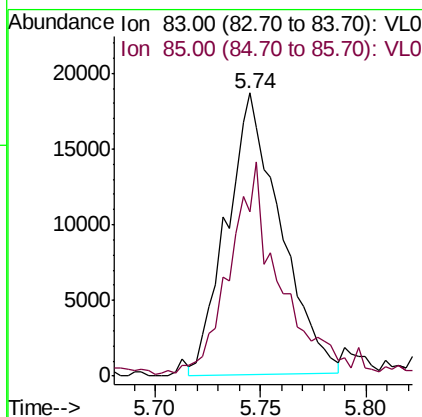
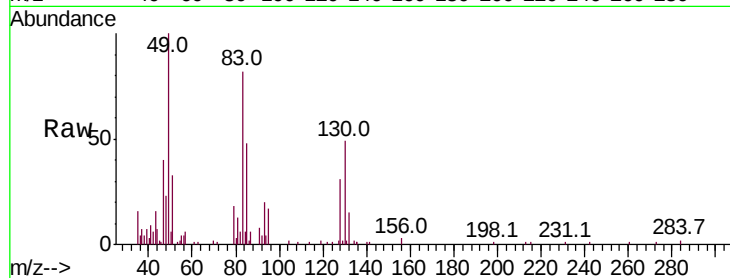
#29
Chloroform
Concen: 0.157 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion	83	Resp	33113
Ion Ratio	100	Lower	Upper
85	56.1	52.6	78.8

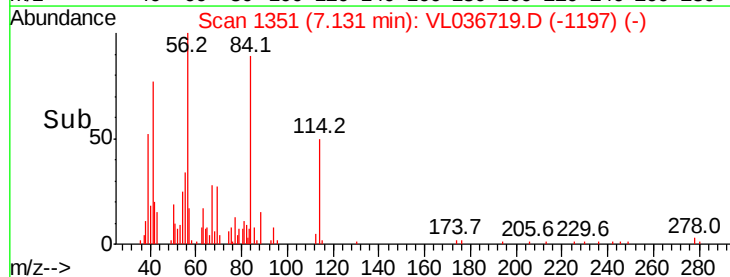
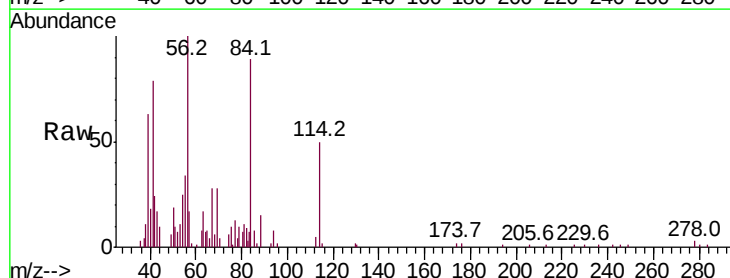
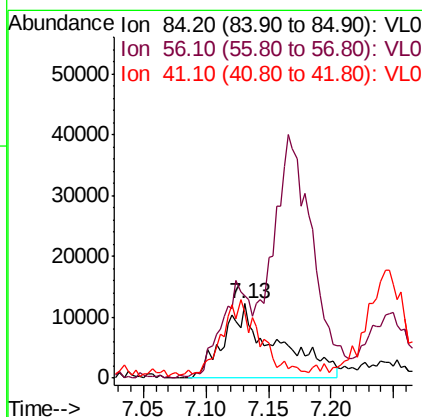
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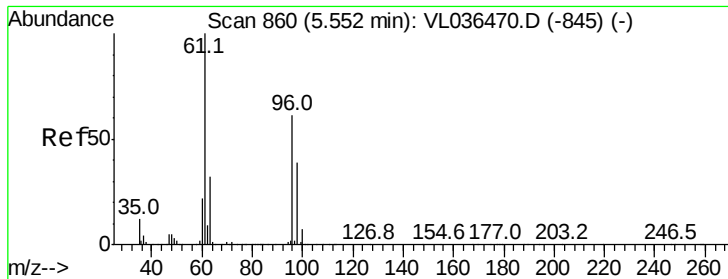
MMDadoda
4/12/2021 11:11:58 AM



#30
Cyclohexane
Concen: 0.336 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion	84	Resp	35990
Ion Ratio	100	Lower	Upper
56	0.0	114.6	171.8#
41	74.8	75.3	112.9#





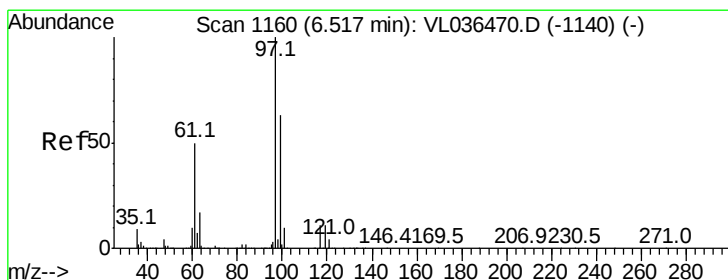
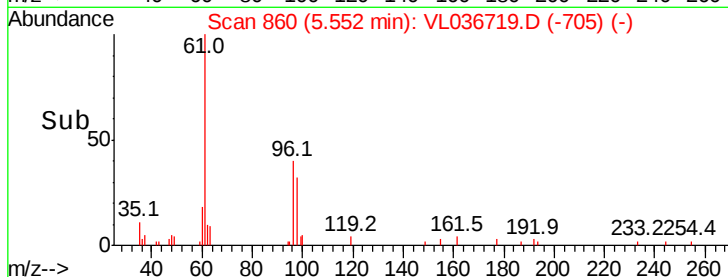
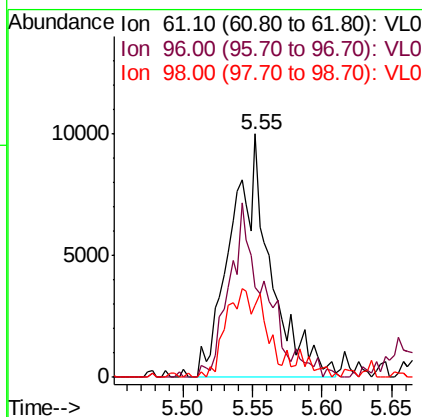
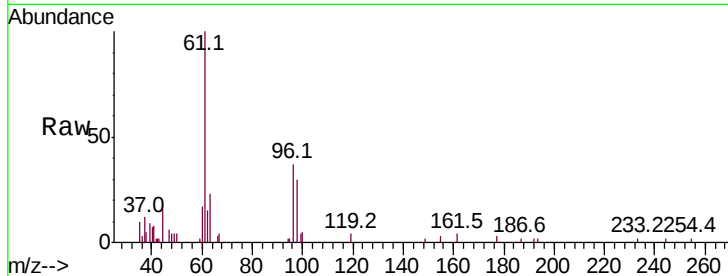
#31
 cis-1,2-Dichloroethene
 Concen: 0.154 ppbv m
 RT: 5.55 min Scan# 860
 Delta R.T. -0.00 min
 Lab File: VL036719.D
 Acq: 7 Apr 2021 7:39

Instrument :
 MSVOA_L
 ClientSampled :
 VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
61	100	19672		
96	36.9		48.7	73.1#
98	29.6		31.4	47.0#

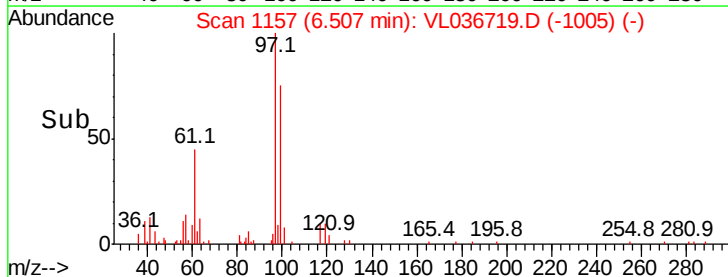
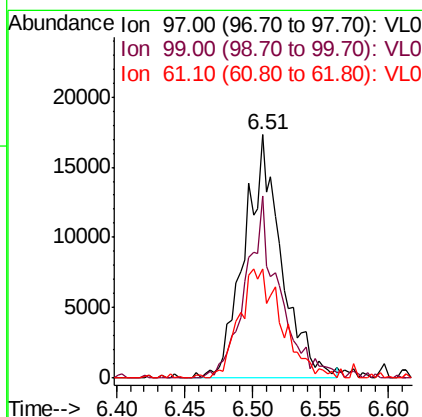
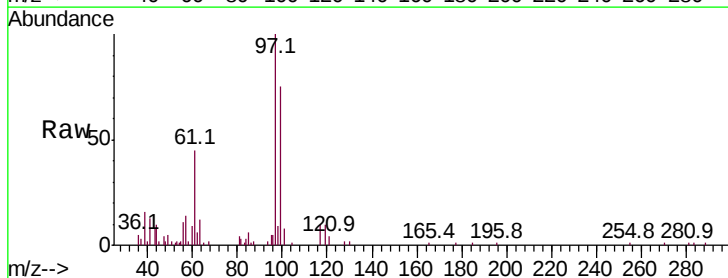
Manual Integrations
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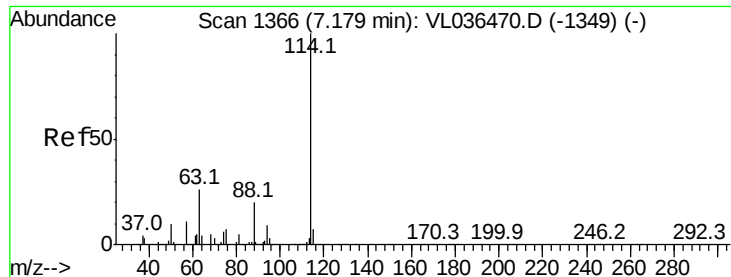
MMDadoda
 4/12/2021 11:11:58 AM



#32
 1,1,1-Trichloroethane
 Concen: 0.154 ppbv m
 RT: 6.51 min Scan# 1157
 Delta R.T. -0.01 min
 Lab File: VL036719.D
 Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	32764		
99	68.6		51.4	77.0
61	52.7		40.6	60.8





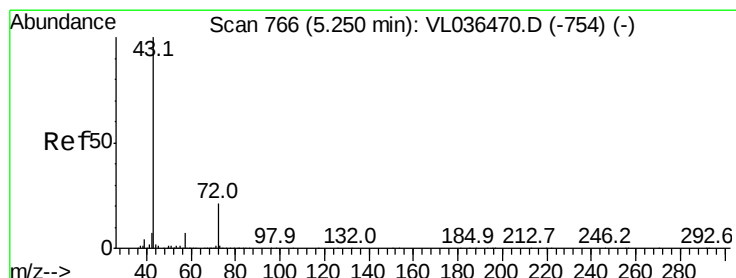
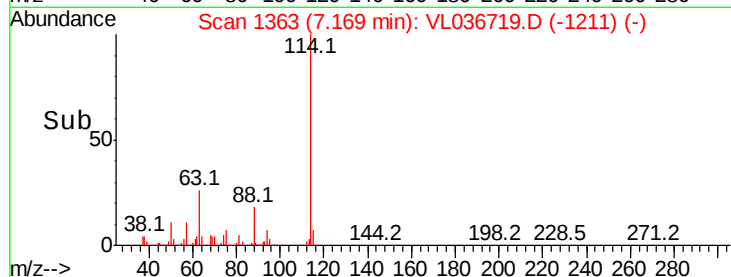
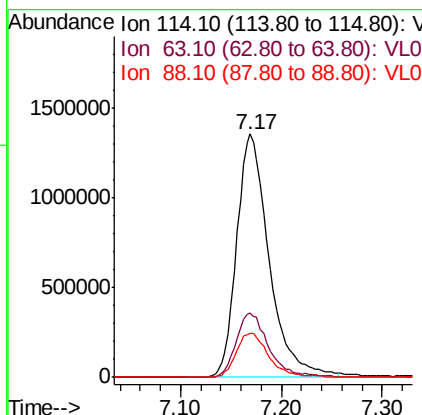
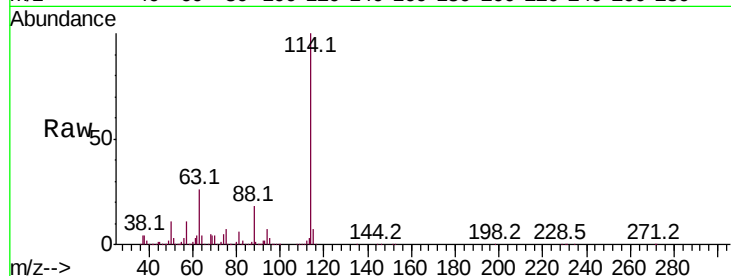
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.4	33.6
88	18.7	15.4	23.0

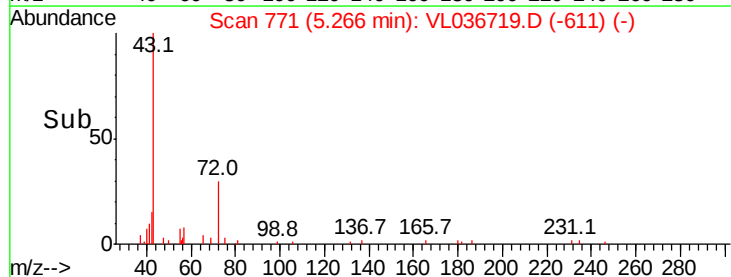
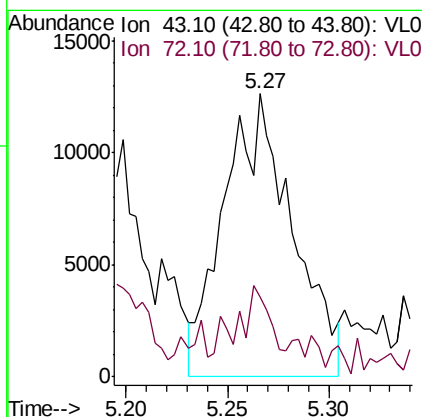
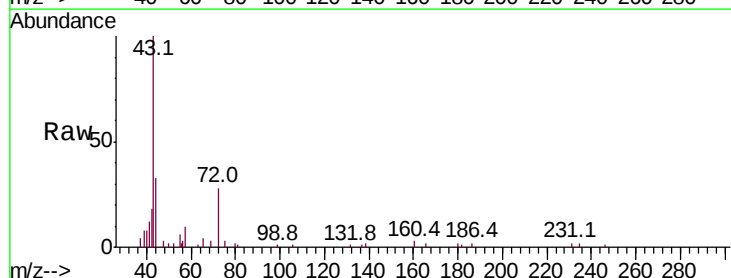
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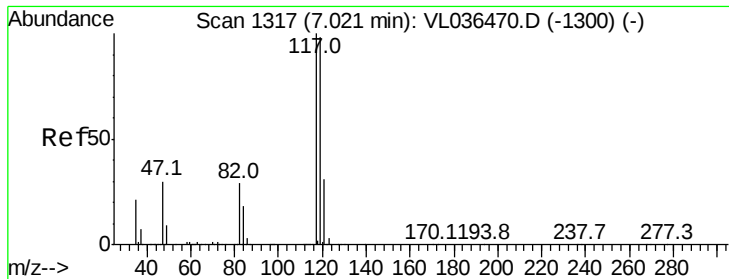
MMDadoda
4/12/2021 11:11:58 AM



#34
2-Butanone
Concen: 0.201 ppbv m
RT: 5.27 min Scan# 771
Delta R.T. 0.02 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.0	25.6#





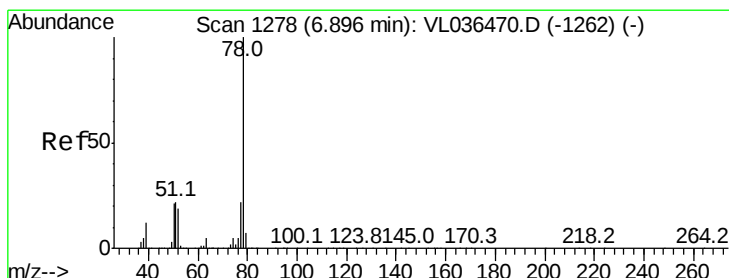
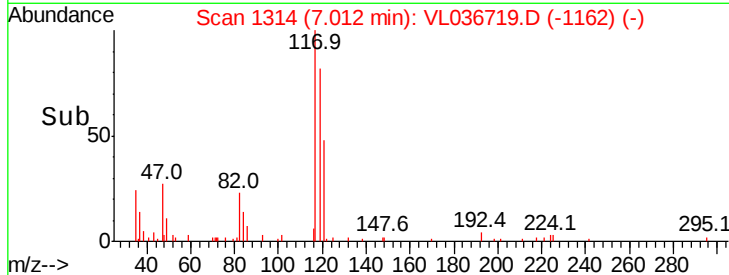
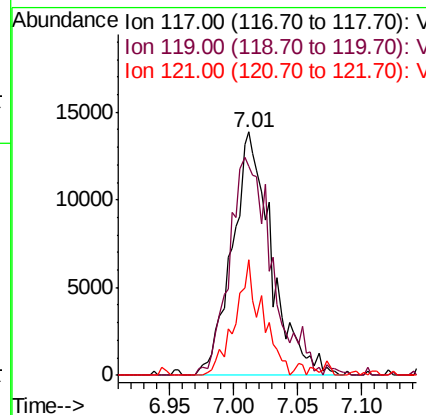
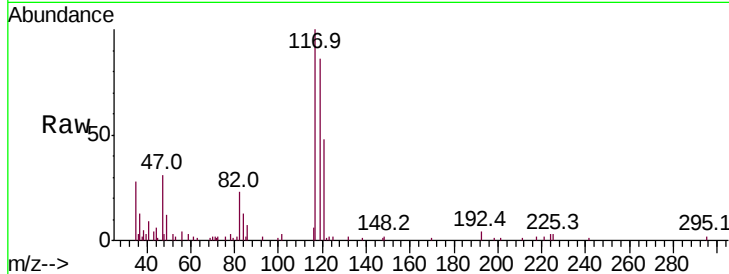
#35
Carbon Tetrachloride
Concen: 0.127 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
117	100	29506		
119	85.7	78.2	117.2	
121	47.7	24.5	36.7#	

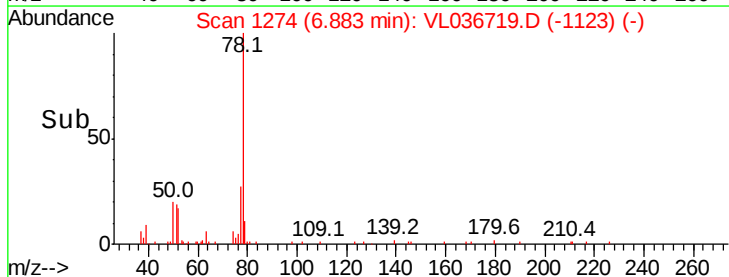
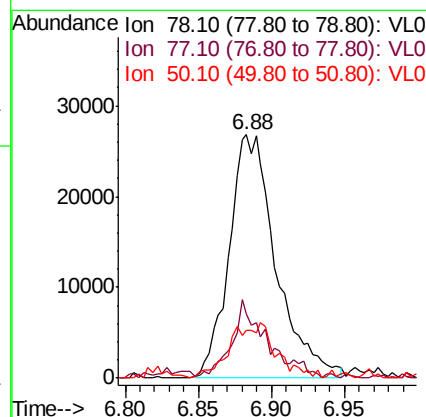
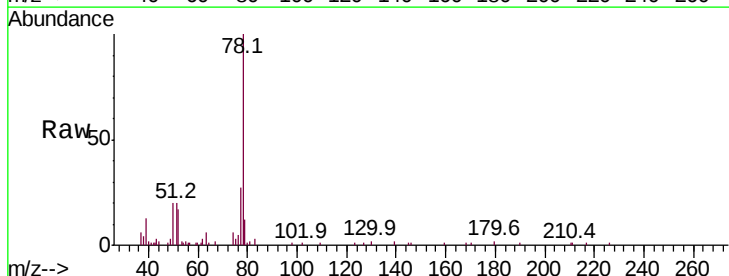
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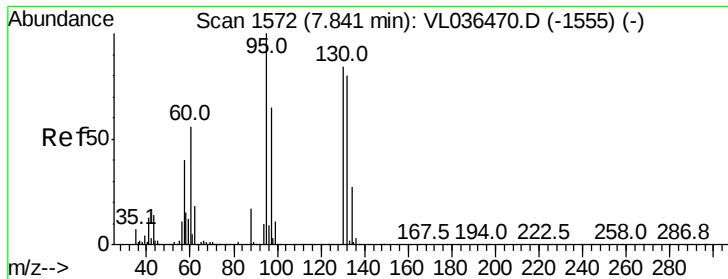
MMDadoda
4/12/2021 11:11:58 AM



#36
Benzene
Concen: 0.214 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	59714		
77	26.7	18.0	27.0	
50	19.6	16.5	24.7	





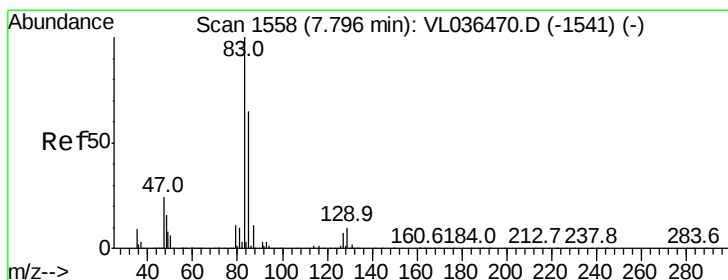
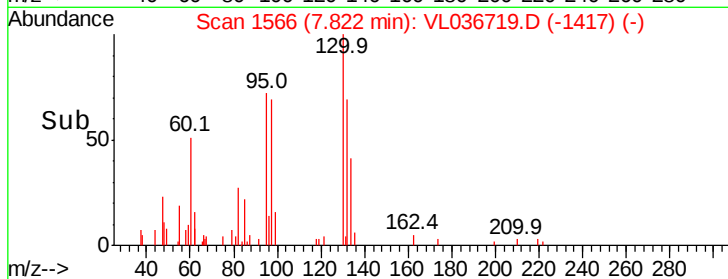
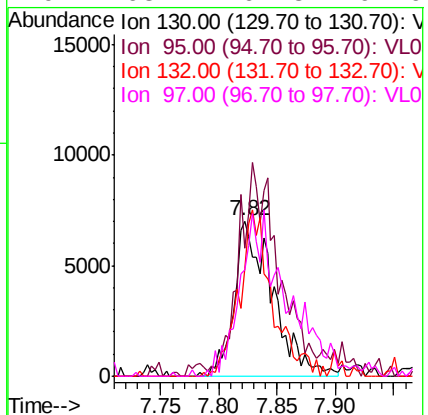
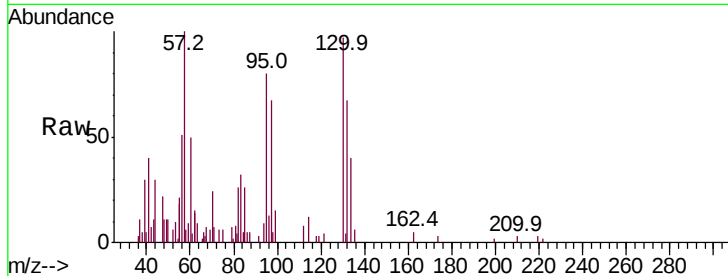
#38
 Trichloroethene
 Concen: 0.149 ppbv m
 RT: 7.82 min Scan# 1566
 Delta R.T. -0.02 min
 Lab File: VL036719.D
 Acq: 7 Apr 2021 7:39

Instrument :
 MSVOA_L
 ClientSampled :
 VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
130	100	16164		
95	82.5	95.7	143.5#	
132	68.8	76.2	114.4#	
97	68.7	61.8	92.6	

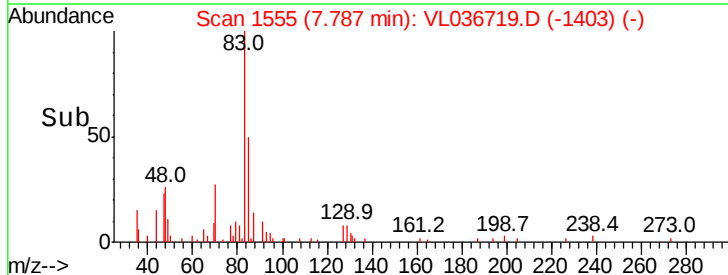
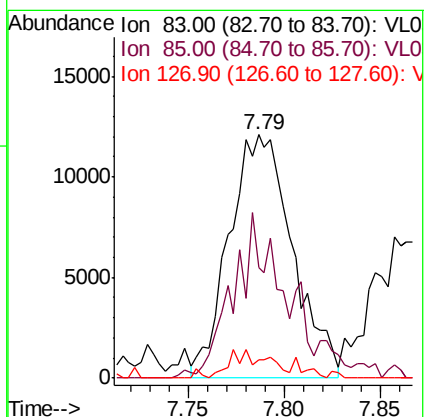
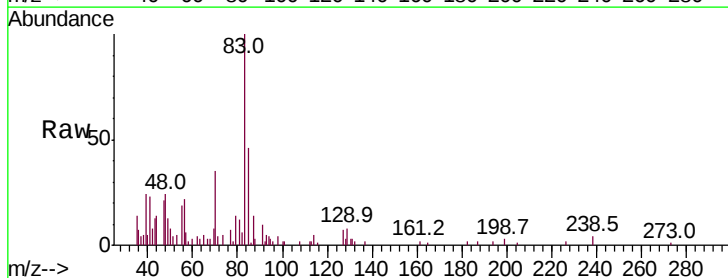
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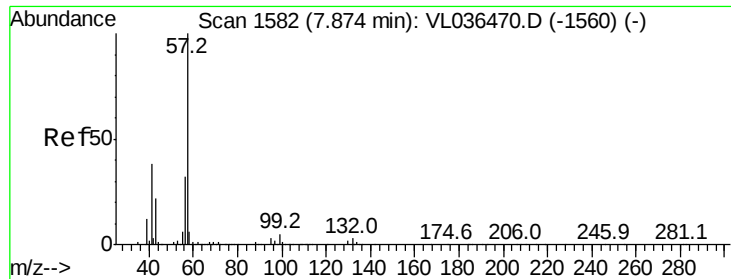
MMDadoda
 4/12/2021 11:11:58 AM



#42
 Bromodichloromethane
 Concen: 0.125 ppbv m
 RT: 7.79 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: VL036719.D
 Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	27803		
85	45.6	51.8	77.6#	
127	7.5	5.8	8.8	





#44

2,2,4-Trimethylpentane

Concen: 2.122 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

ClientSampled :

VIBLK

Tot Ion: 57 Resp: 1041050

Ion Ratio Lower Upper

57 100

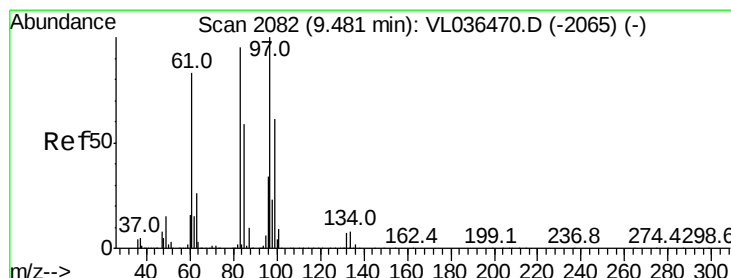
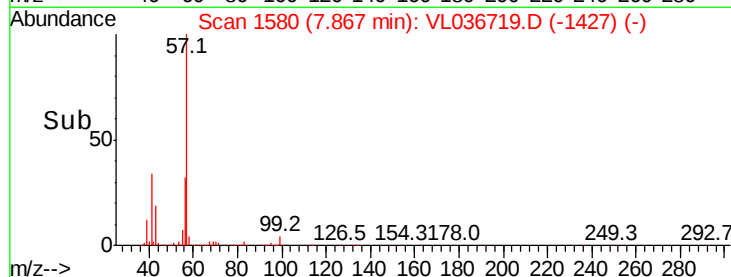
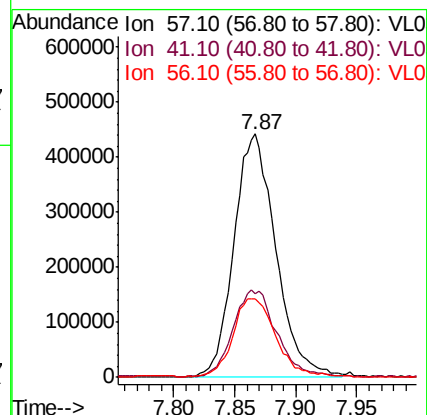
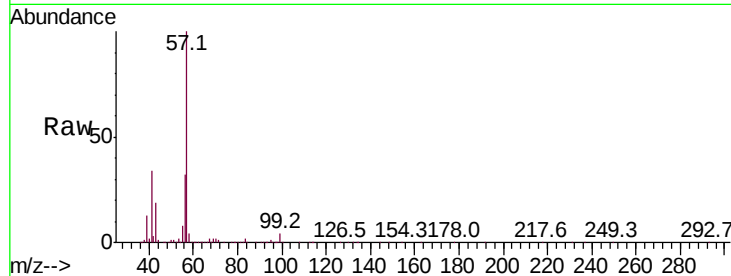
41 37.8 28.8 43.2

56 33.9 26.1 39.1

Manual Integrations
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#47

1,1,2-Trichloroethane

Concen: 0.151 ppbv m

RT: 9.47 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Tgt Ion: 97 Resp: 17333

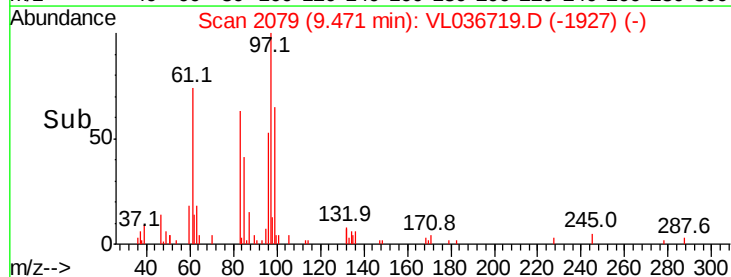
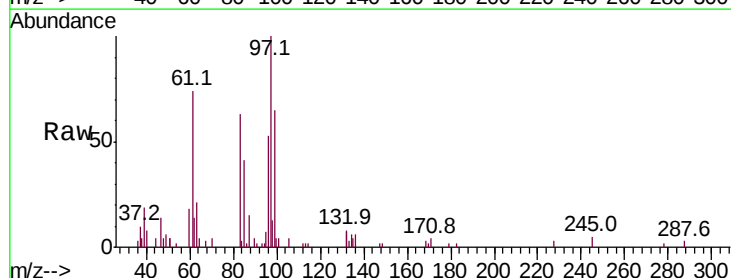
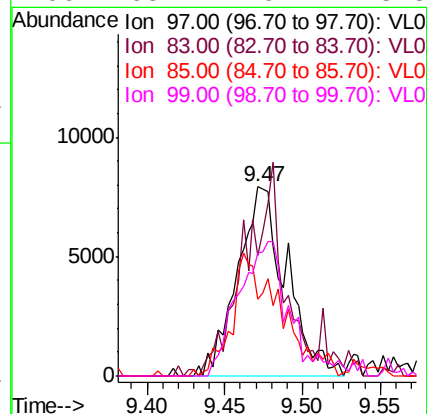
Ion Ratio Lower Upper

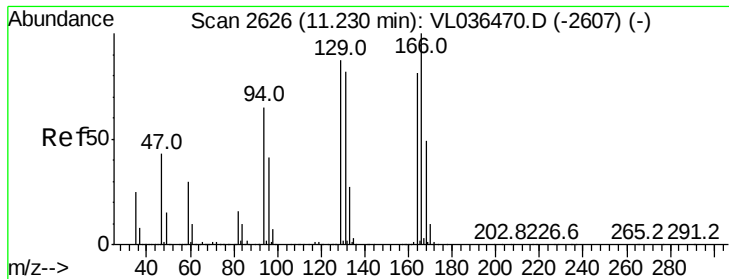
97 100

83 63.3 75.8 113.8#

85 40.9 47.1 70.7#

99 65.2 49.2 73.8





#52

Tetrachloroethene

Concen: 0.157 ppbv m

RT: 11.21 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

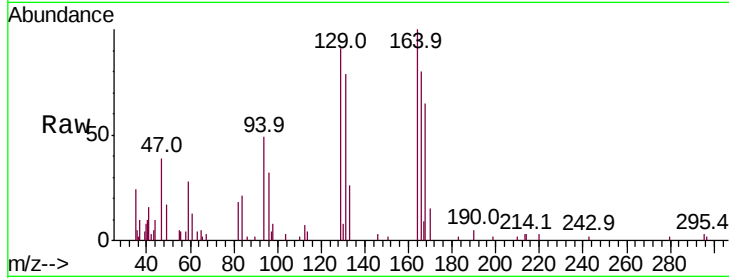
ClientSampleId :

VIBLK

Tot Ion:	164	Resp:	16117
Ion Ratio	Lower	Upper	
164	100		
166	79.6	98.3	147.5#
129	91.3	85.8	128.8
131	79.1	80.9	121.3#

Manual Integrations
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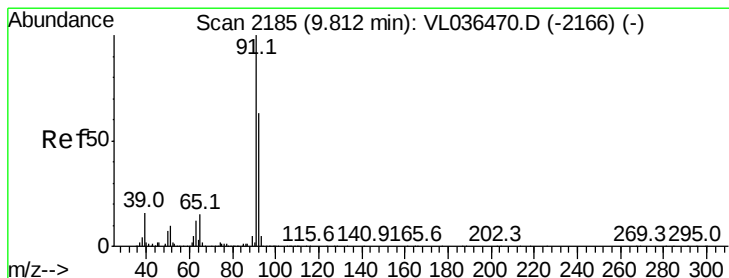
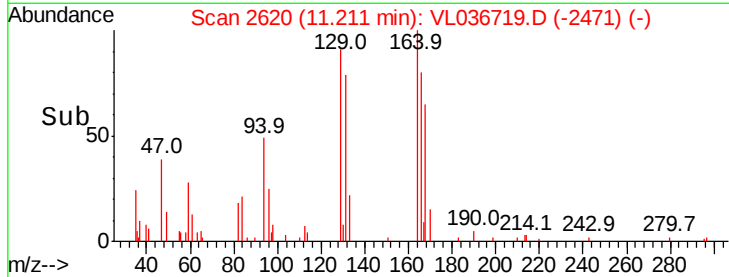
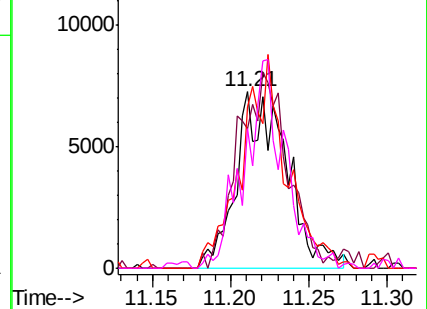


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.158 ppbv m

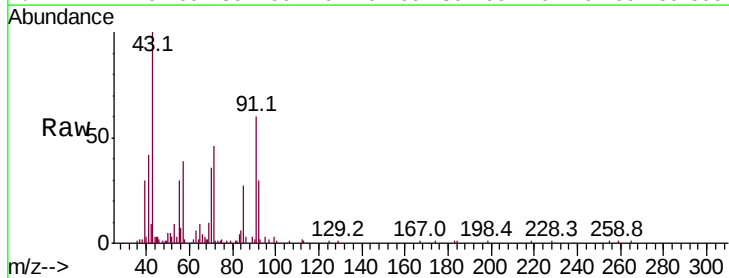
RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036719.D

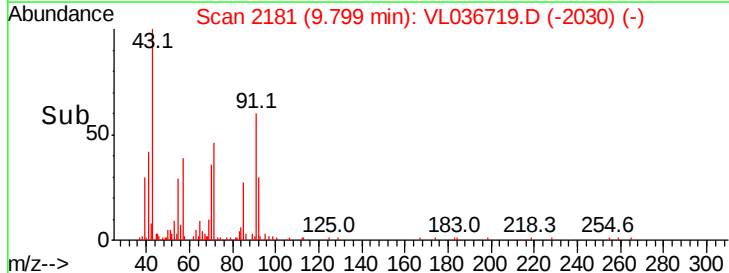
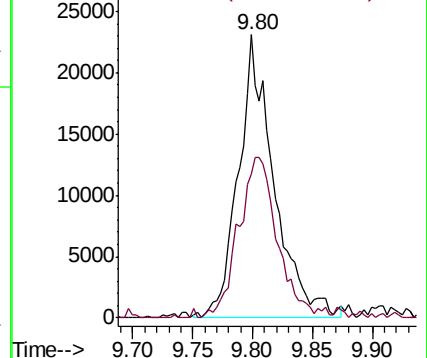
Acq: 7 Apr 2021 7:39

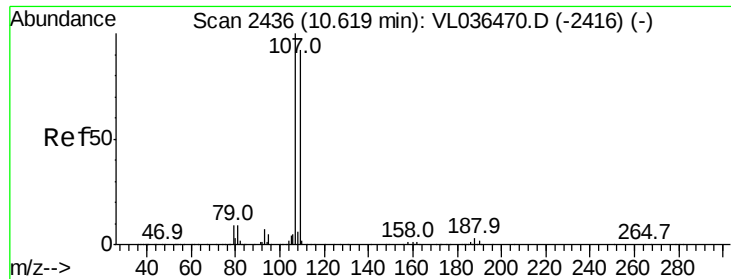
Tgt Ion:	91	Resp:	46957
Ion Ratio	Lower	Upper	
91	100		
92	0.0	48.8	73.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





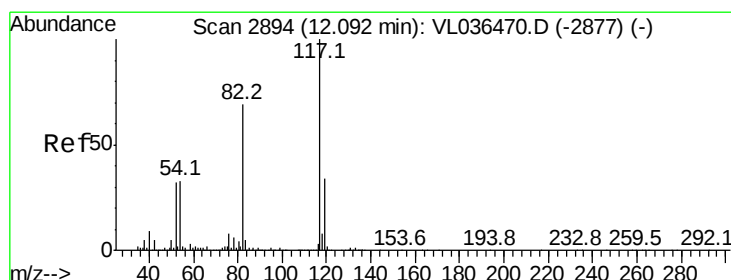
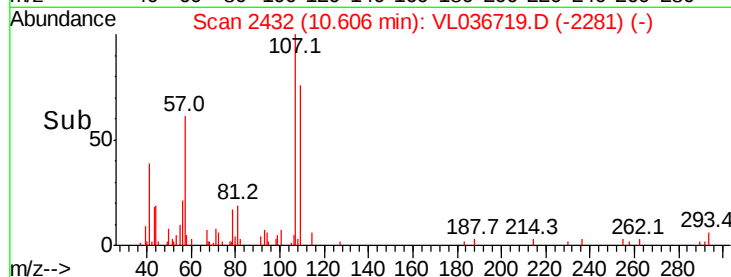
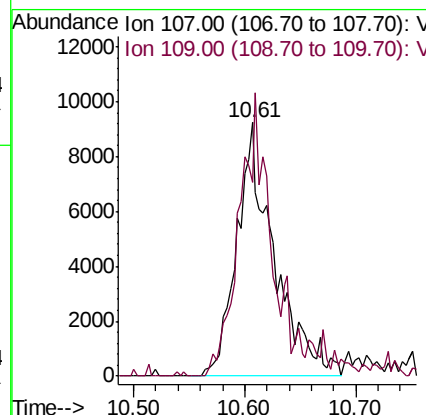
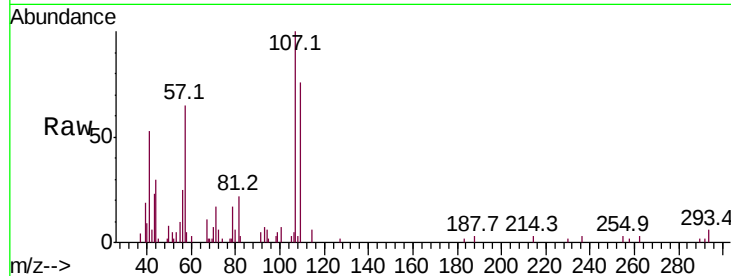
#54
1,2-Dibromoethane
Concen: 0.134 ppbv m
RT: 10.61 min Scan# 2432
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion	Ratio	Lower	Upper
107	100		
109	76.4	73.9	110.9

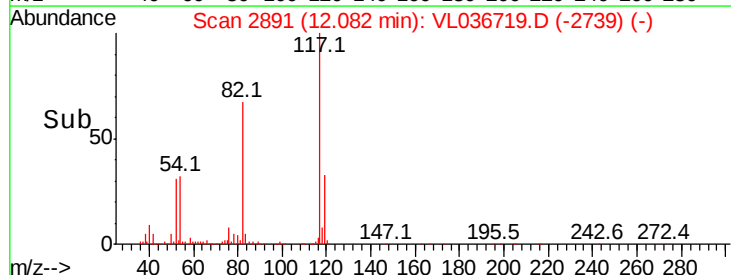
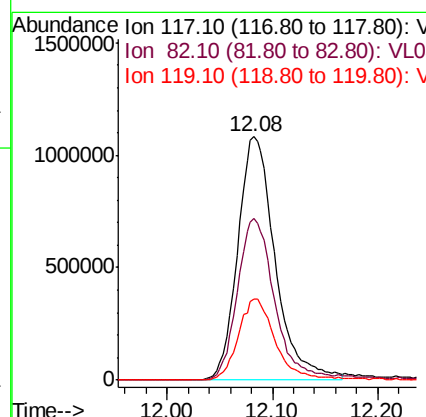
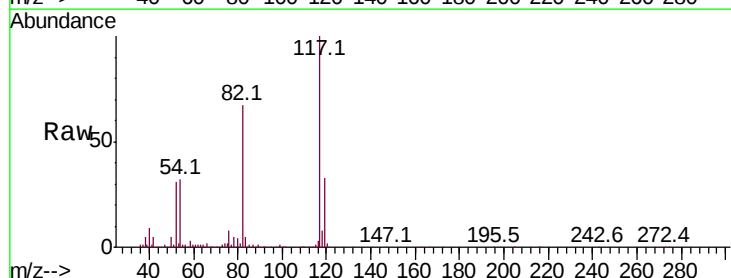
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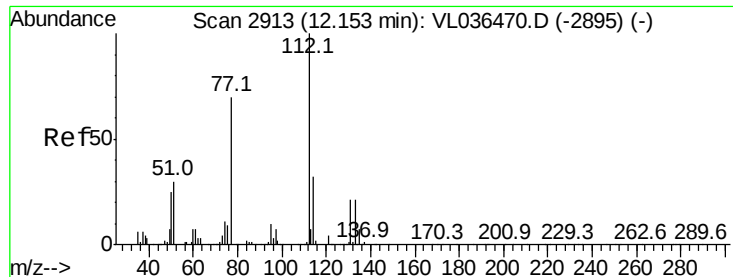
MMDadoda
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.6	57.4	86.0
119	33.7	47.4	71.0#





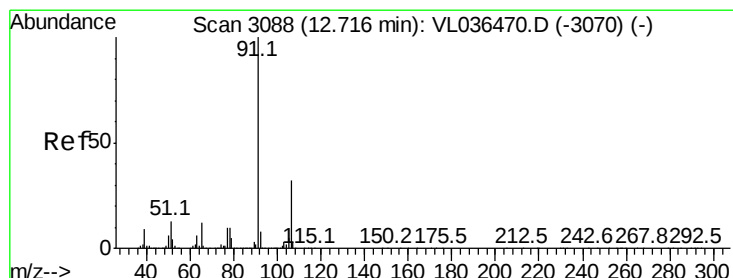
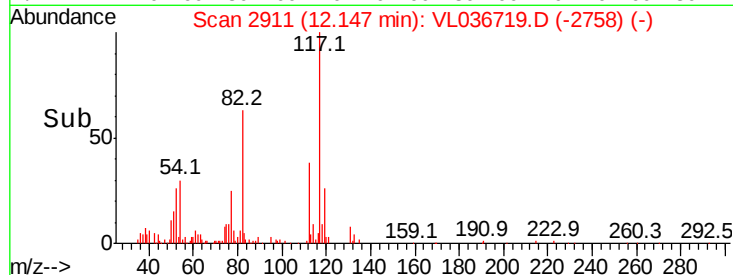
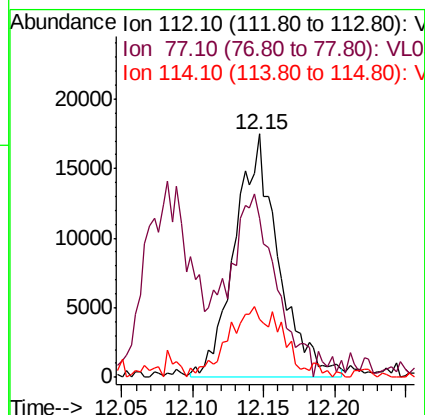
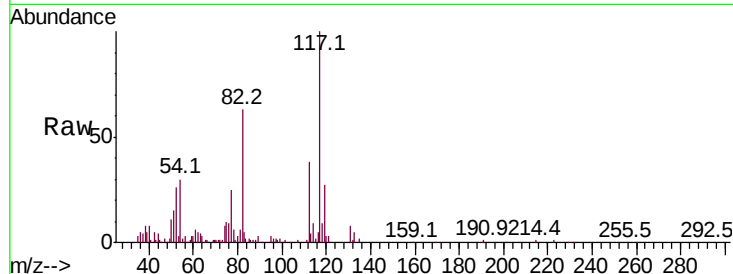
#57
Chlorobenzene
Concen: 0.164 ppbv m
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tot Ion	Ratio	Lower	Upper
112	100		
77	65.5	56.0	84.0
114	23.9	29.0	35.4#

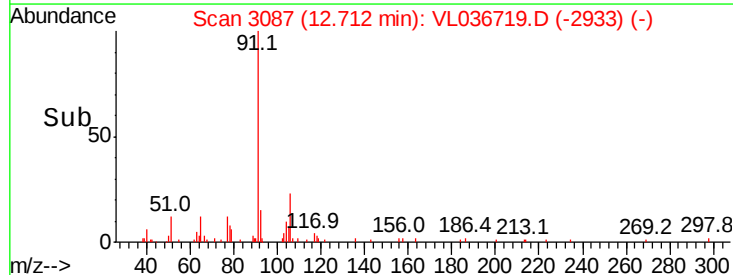
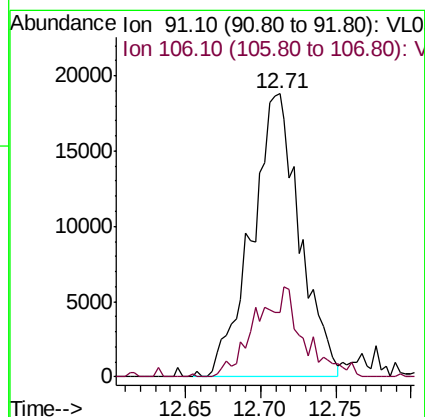
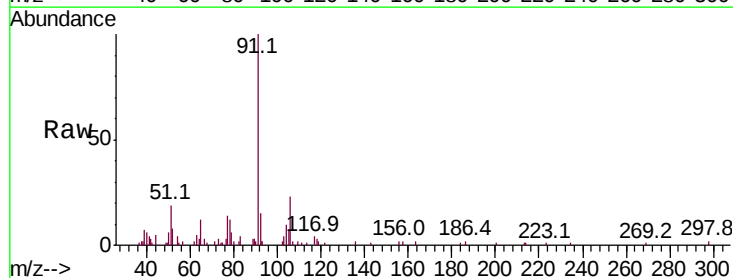
Manual Integrations
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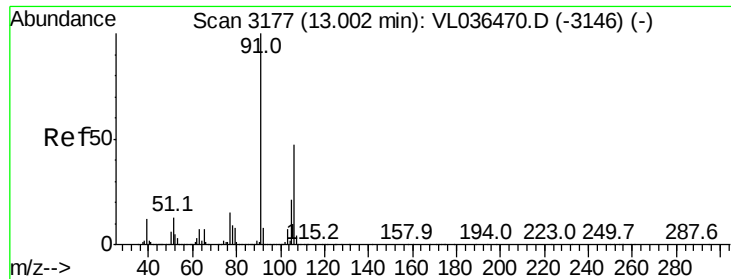
MMDadoda
4/12/2021 11:11:58 AM



#58
Ethyl Benzene
Concen: 0.107 ppbv m
RT: 12.71 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Lower	Upper
91	100		
106	22.7	25.3	37.9#





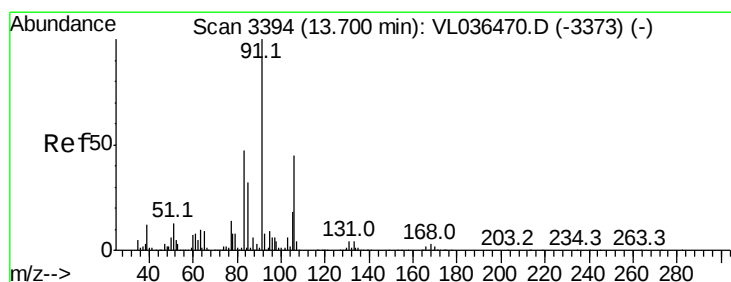
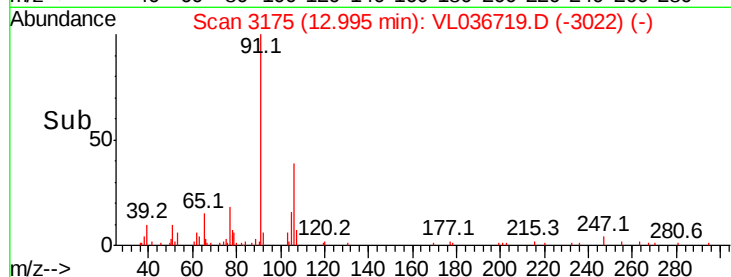
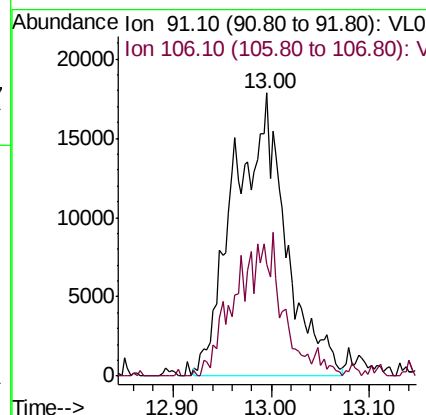
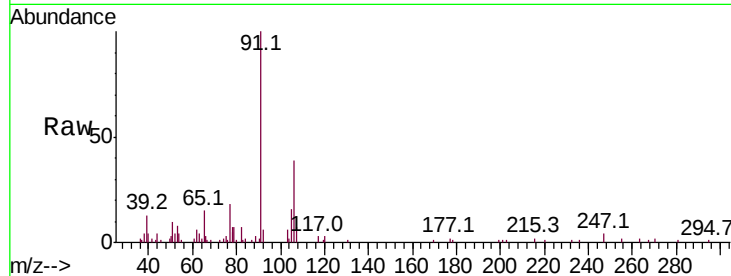
#59
m/p-Xylene
Concen: 0.194 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tot Ion: 91 Resp: 65576
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

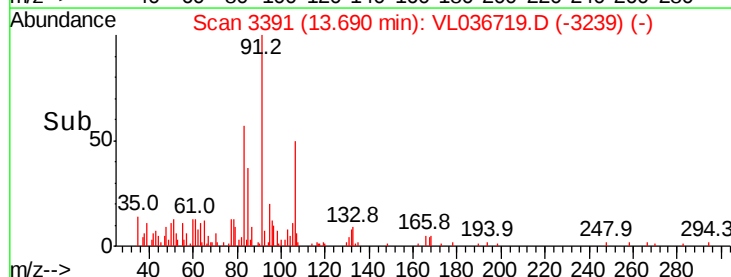
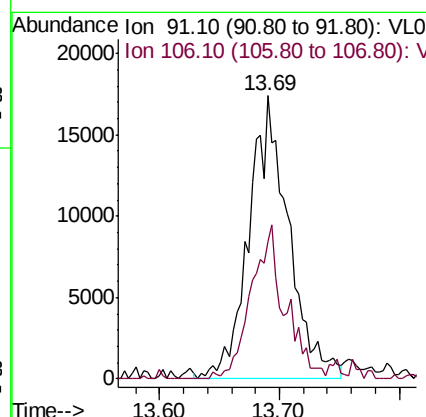
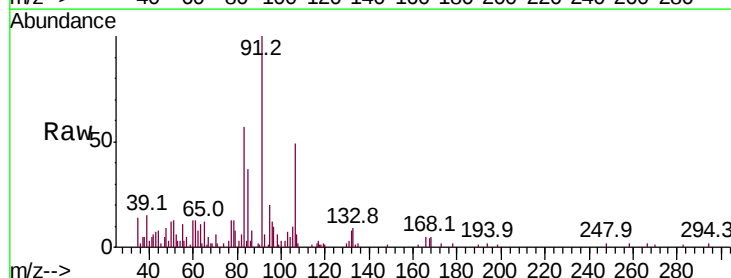
Manual Integrations
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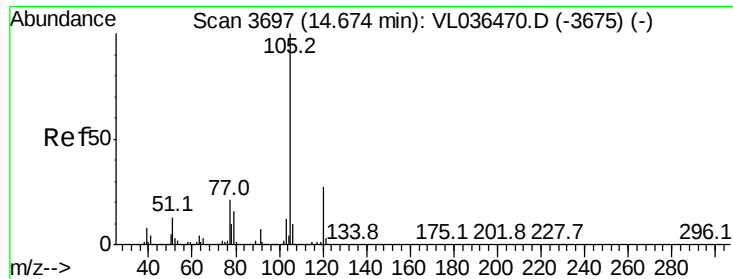
MMDadoda
4/12/2021 11:11:58 AM



#60
o-Xylene
Concen: 0.122 ppbv m
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion: 91 Resp: 40094
Ion Ratio Lower Upper
91 100
106 46.3 22.3 66.9





#62

Isopropylbenzene

Concen: 0.122 ppbv m

RT: 14.67 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tot Ion:105 Resp: 53986

Ion Ratio Lower Upper

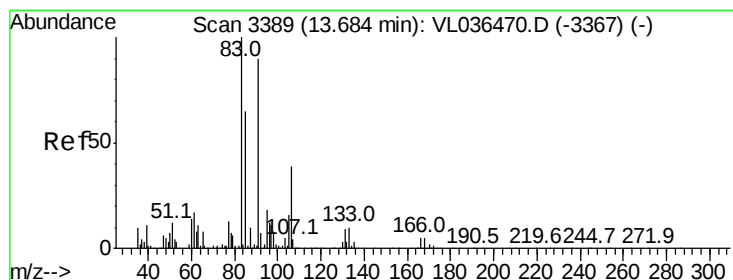
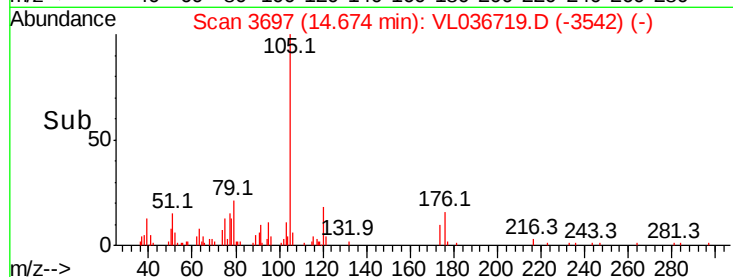
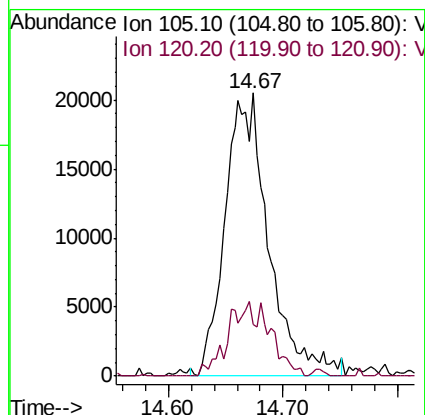
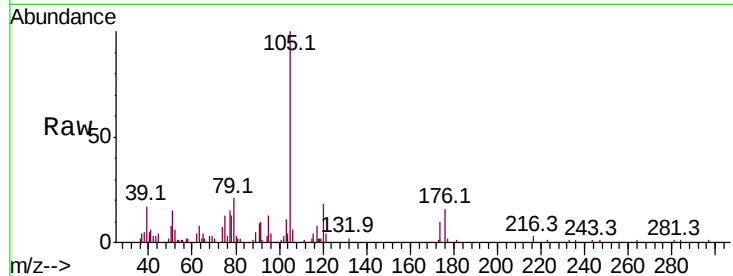
105 100

120 0.0 20.6 31.0#

Manual Integrations
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4/12/2021 11:11:58 AM



#63

1,1,2,2-Tetrachloroethane

Concen: 0.144 ppbv m

RT: 13.68 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VL036719.D

Acq: 7 Apr 2021 7:39

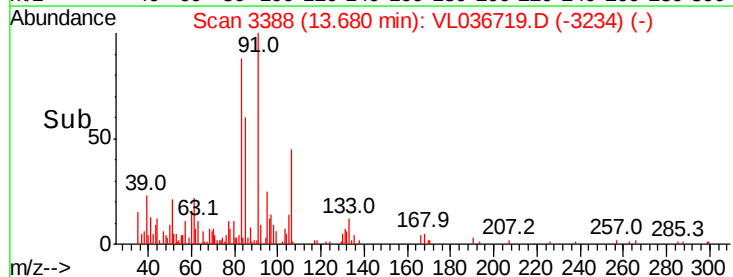
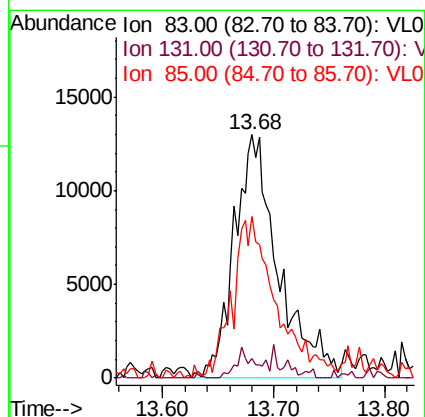
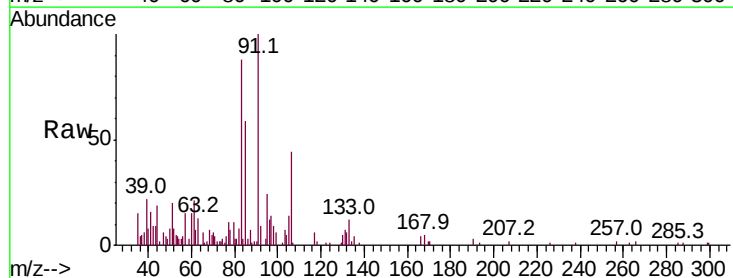
Tgt Ion: 83 Resp: 35878

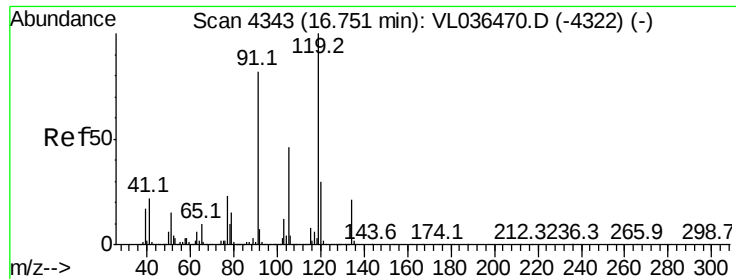
Ion Ratio Lower Upper

83 100

131 4.2 4.7 14.0#

85 70.0 33.1 99.3





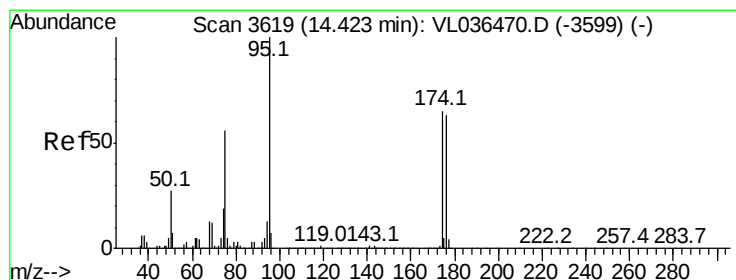
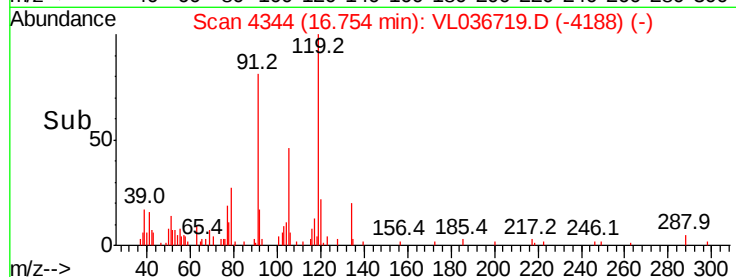
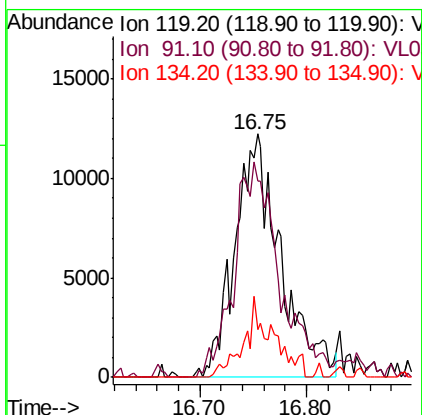
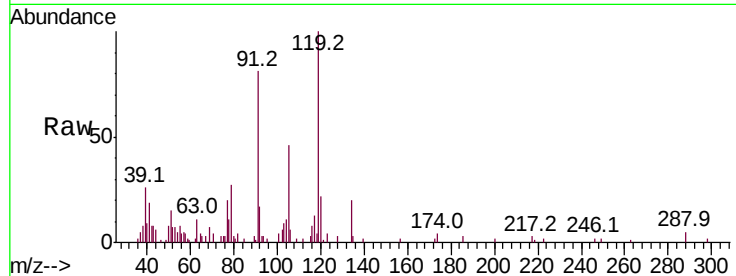
#65
tert-Butylbenzene
Concen: 0.095 ppbv m
RT: 16.75 min Scan# 4344
Delta R.T. 0.00 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Instrument :
MSVOA_L
ClientSampled :
VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
119	100	36518		
91	0.0	67.5	101.3#	
134	0.0	15.8	23.8#	

Manual Integrations
APPROVED

MMDadoda
4/12/2021 11:11:58 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.884 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL036719.D
Acq: 7 Apr 2021 7:39

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	2102814		
174	62.9	51.0	76.6	
175	4.6	3.9	5.9	

