

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036661.D
 Acq On : 3 Apr 2021 1:29
 Operator : SY/AP
 Sample : M1853-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-01DL

Manual Integrations
 APPROVED

apatel
 4/5/2021 1:14:19 PM

Quant Time: Apr 03 07:25:42 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 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	5.64	49	1309116	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3398286	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3066224	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2503140	10.24	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	9348m	0.120	ppbv	
13) Ethanol	3.59	45	241641	26.024	ppbv	92
15) Acetone	3.83	43	376857	2.925	ppbv	98
17) tert-Butyl alcohol	4.29	59	312817	2.789	ppbv	99
19) Isopropyl Alcohol	3.96	45	385306	5.436	ppbv	100
20) Methylene Chloride	4.32	84	264522	4.385	ppbv	93
26) Hexane	5.66	57	215255	1.514	ppbv #	45
34) 2-Butanone	5.23	43	34921m	0.211	ppbv	
41) Tetrahydrofuran	6.02	42	18411m	0.241	ppbv	
51) 2-Hexanone	10.14	43	31024m	0.256	ppbv	
52) Tetrachloroethene	11.19	164	3820m	0.033	ppbv	
58) Ethyl Benzene	12.68	91	53239m	0.119	ppbv	
59) m/p-Xylene	12.94	91	330601m	0.850	ppbv	
60) o-Xylene	13.67	91	162534	0.432	ppbv	98
67) sec-Butylbenzene	17.27	105	85262m	0.137	ppbv	
69) p-Isopropyltoluene	17.63	119	61511	0.127	ppbv	98
70) n-Butylbenzene	18.54	91	120677m	0.240	ppbv	
72) 4-Ethyltoluene	15.82	105	69868m	0.169	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	126251	0.328	ppbv	94
74) 1,2,4-Trimethylbenzene	16.74	105	379724	0.922	ppbv #	68

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

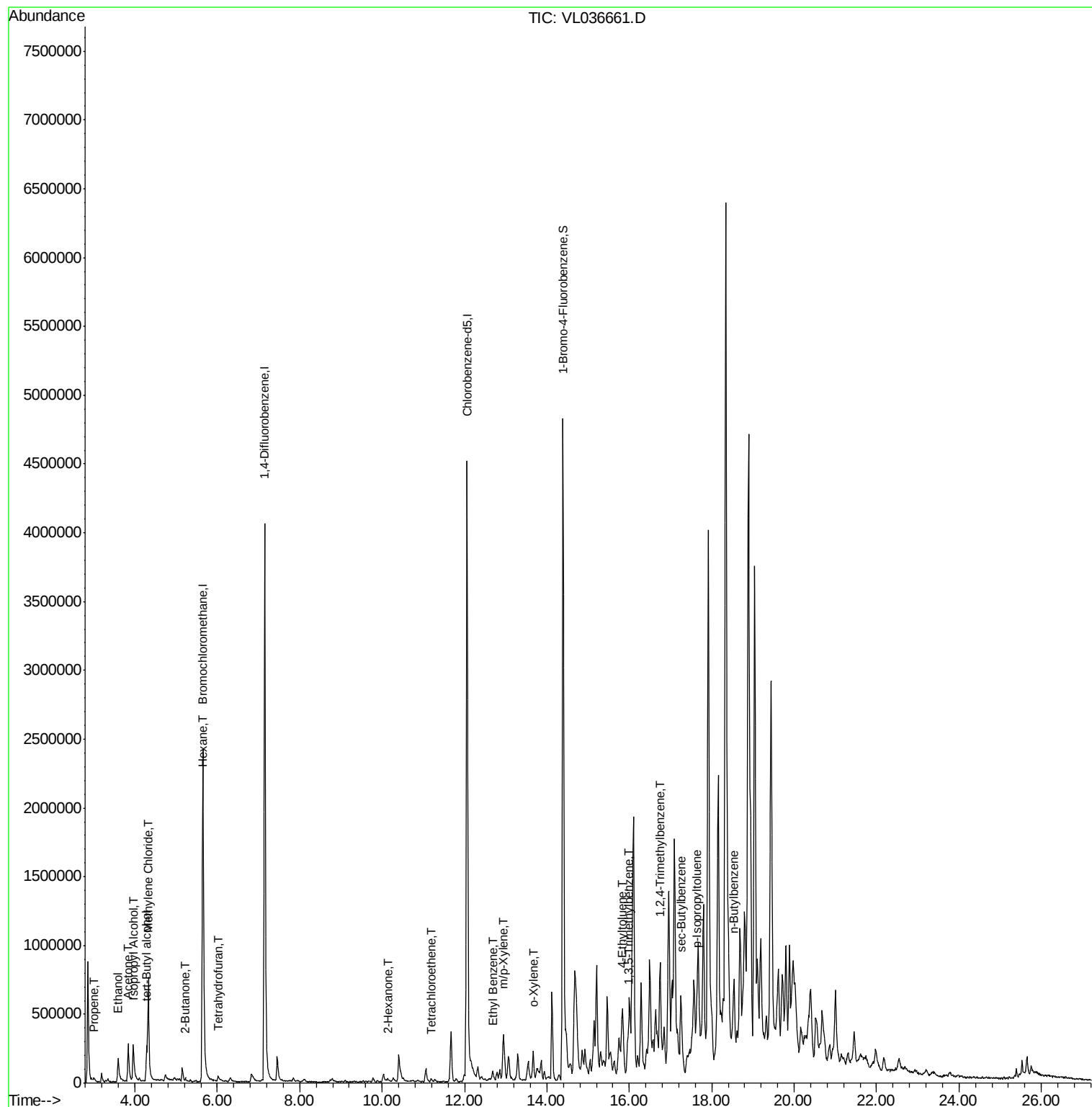
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040221\
Data File : VL036661.D
Acq On : 3 Apr 2021 1:29
Operator : SY/AP
Sample : M1853-01DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-01DL

Manual Integrations
APPROVED

apatel
4/5/2021 1:14:19 PM

Quant Time: Apr 03 07:25:42 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: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-01DL

Tot Ion: 49 Resp: 1309116

Ion Ratio Lower Upper

49 100

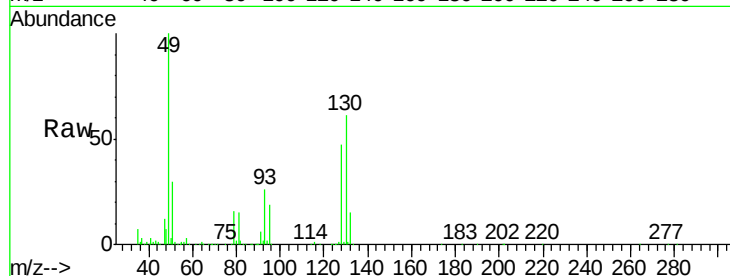
128 49.2 23.5 70.6

130 63.1 29.1 87.4

Manual Integrations
APPROVED

apatel

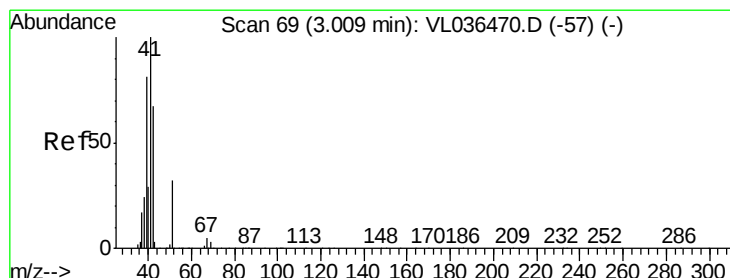
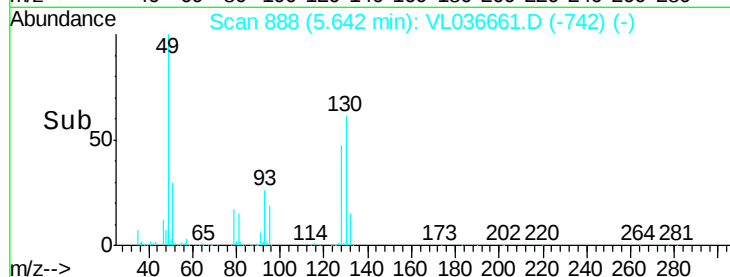
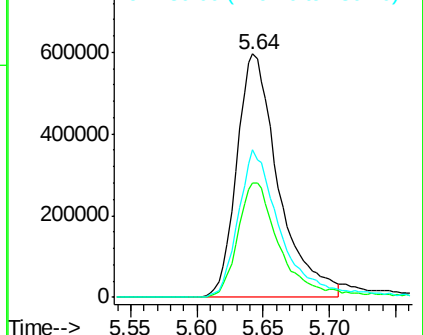
4/5/2021 1:14:19 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.120 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036661.D

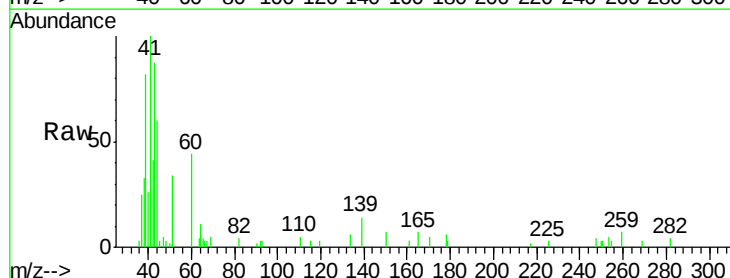
Acq: 3 Apr 2021 1:29

Tgt Ion: 41 Resp: 9348

Ion Ratio Lower Upper

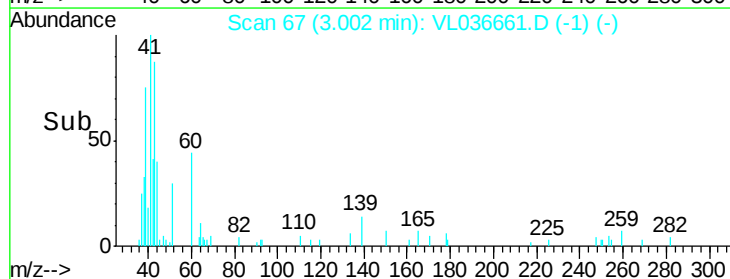
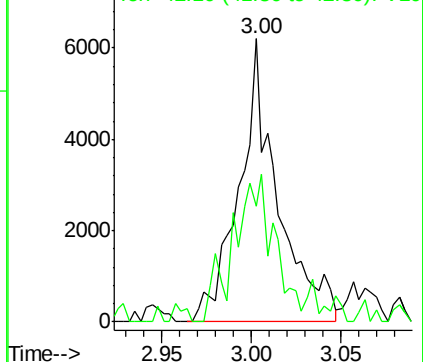
41 100

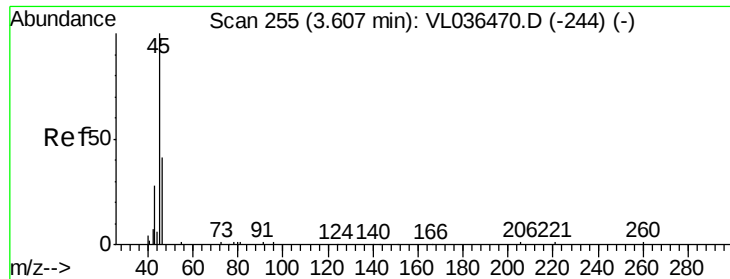
42 13.2 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 26.024 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-01DL

Tot Ion: 45 Resp: 241641

Ion Ratio Lower Upper

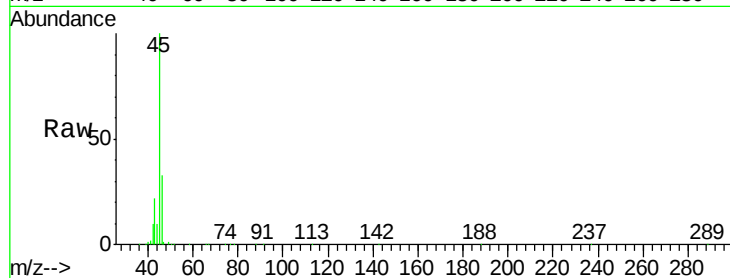
45 100

46 36.1 16.6 66.2

Manual Integrations
APPROVED

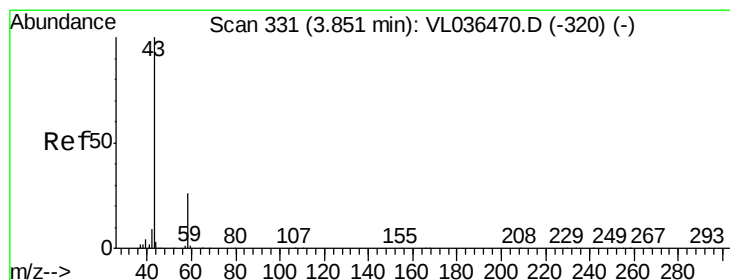
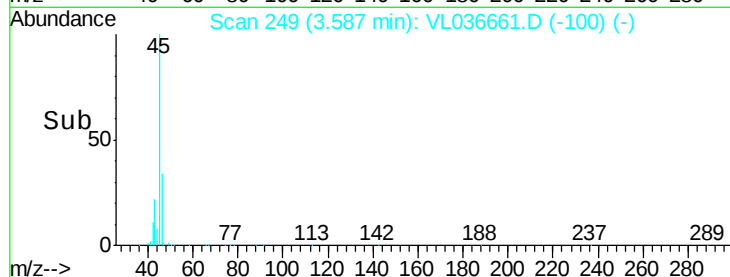
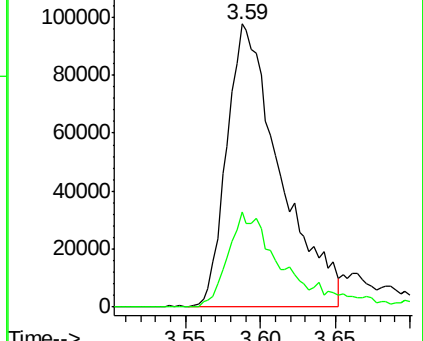
apatel

4/5/2021 1:14:19 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 2.925 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL036661.D

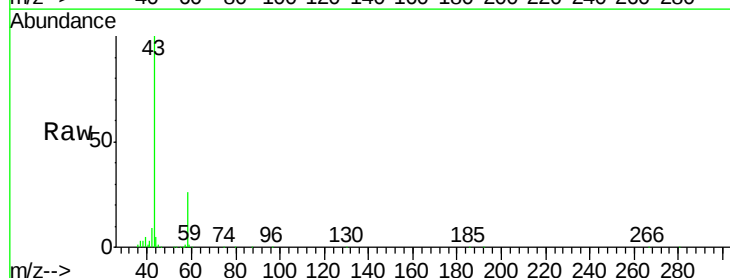
Acq: 3 Apr 2021 1:29

Tgt Ion: 43 Resp: 376857

Ion Ratio Lower Upper

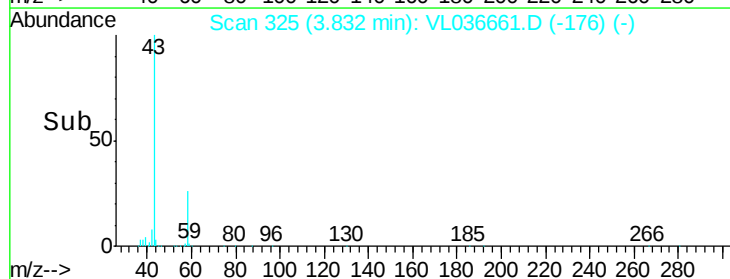
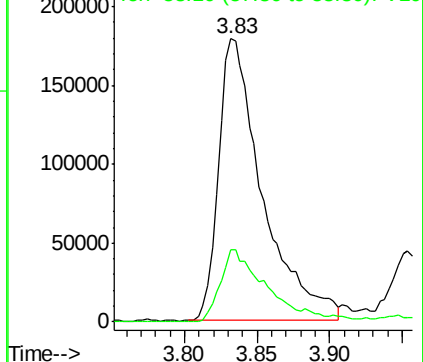
43 100

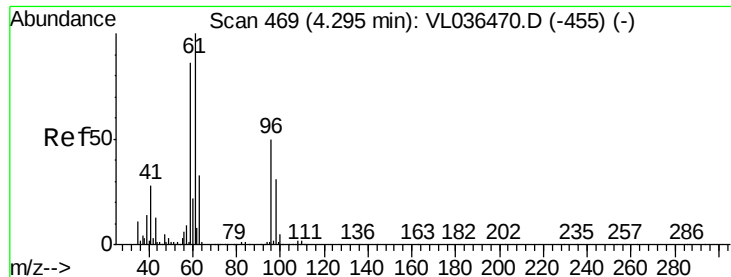
58 27.7 21.2 31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#17

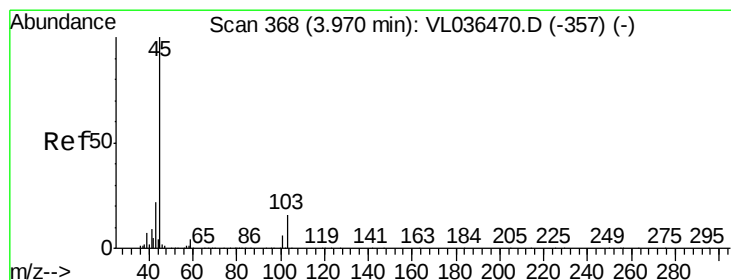
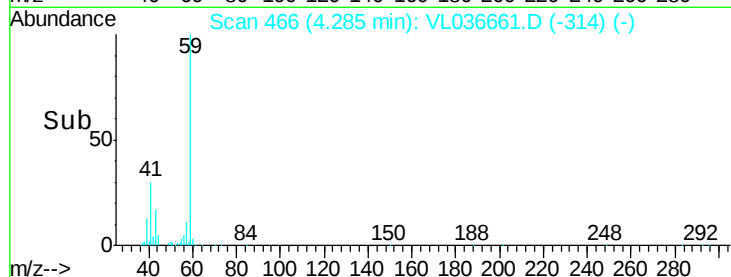
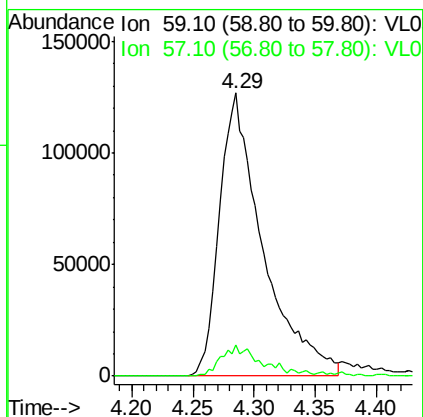
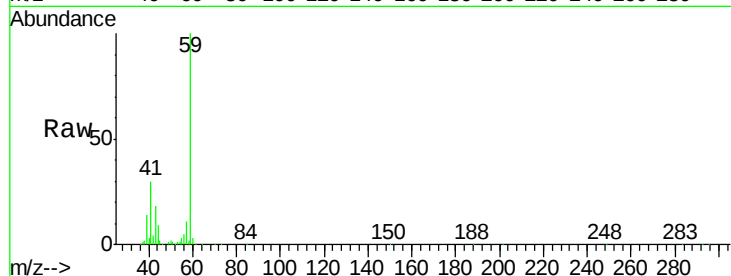
tert-Butyl alcohol
 Concen: 2.789 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. -0.01 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-01DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	12.8

Manual Integrations
 APPROVED

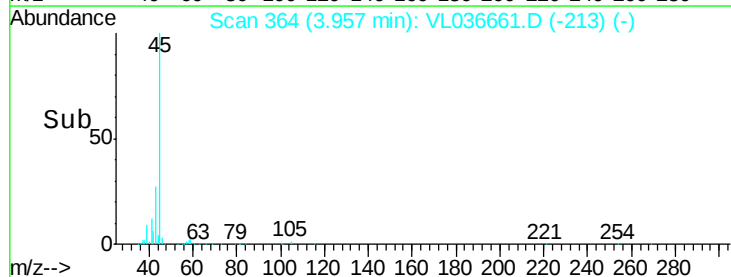
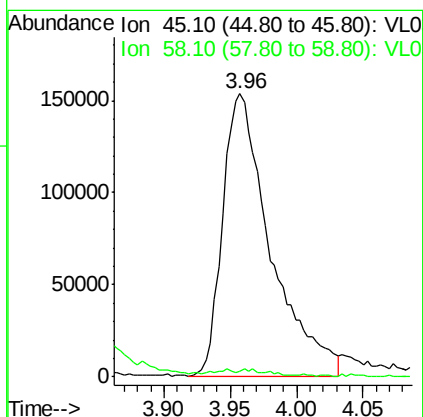
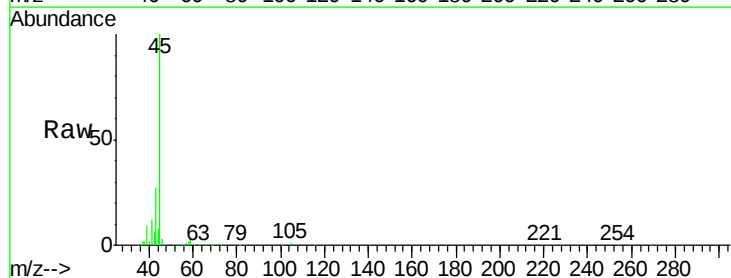
apatel
 4/5/2021 1:14:19 PM

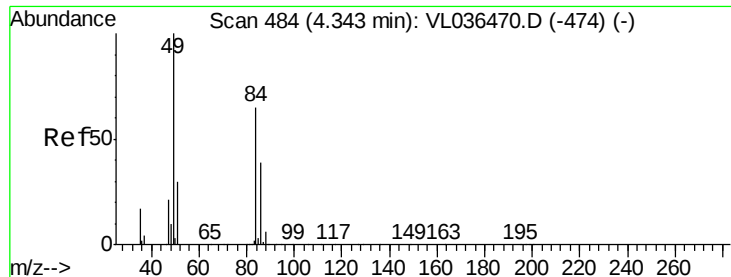


#19

Isopropyl Alcohol
 Concen: 5.436 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.01 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Tgt Ion	Ratio	Lower	Upper
45	100		
58	3.7	2.9	4.3





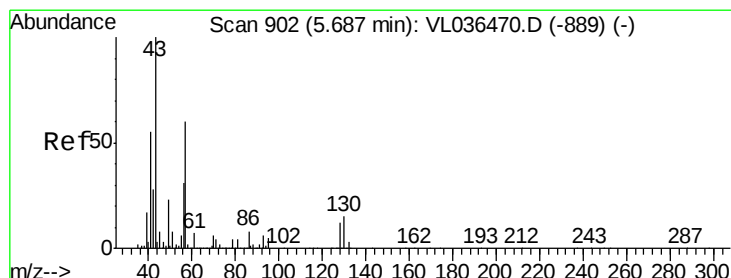
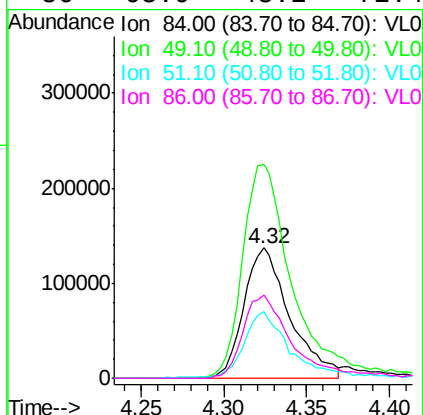
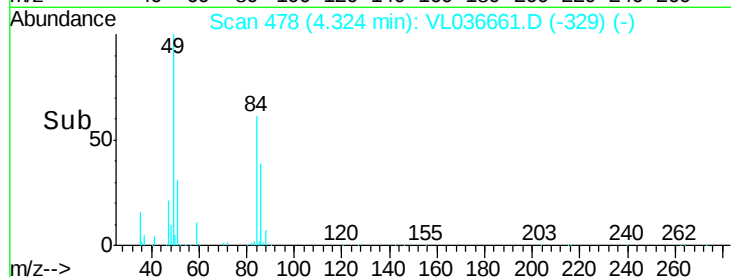
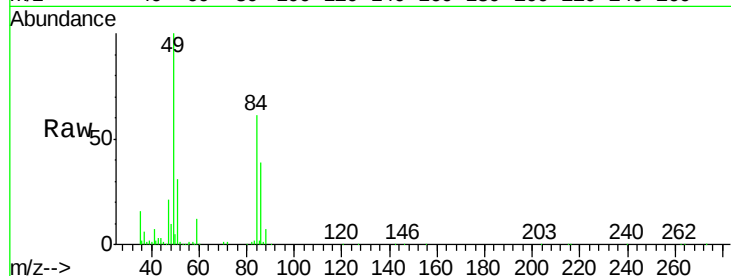
#20
Methvlene Chloride
Concen: 4.385 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-01DL

Tot Ion	84	Resp	264522
Ion	Ratio	Lower	Upper
84	100		
49	163.6	122.9	184.3
51	50.2	36.9	55.3
86	63.9	48.2	72.4

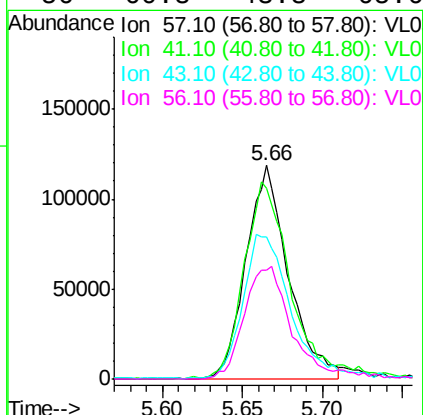
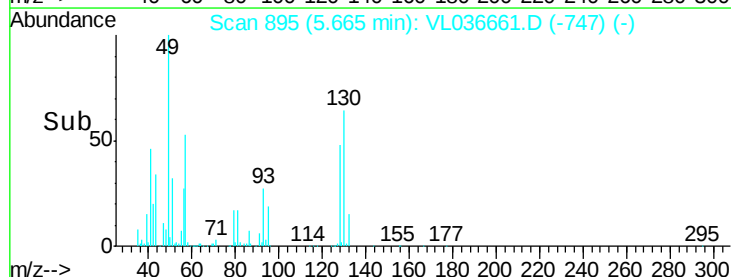
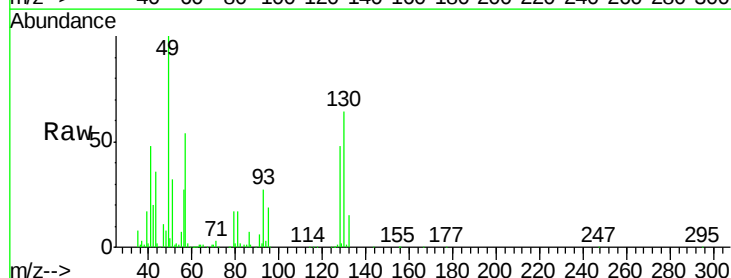
Manual Integrations
APPROVED

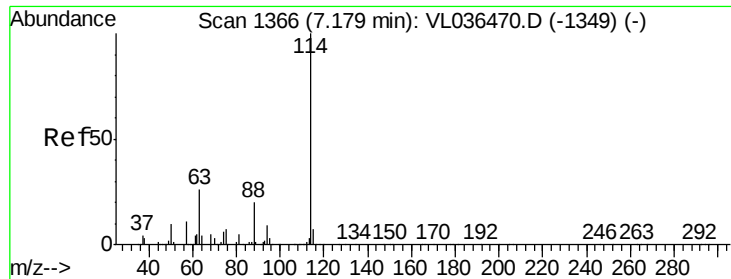
apatel
4/5/2021 1:14:19 PM



#26
Hexane
Concen: 1.514 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion	57	Resp	215255
Ion	Ratio	Lower	Upper
57	100		
41	105.2	77.2	115.8
43	77.8	173.8	260.6
56	60.8	43.8	65.6





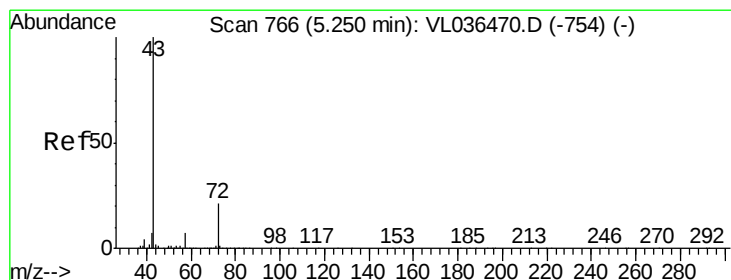
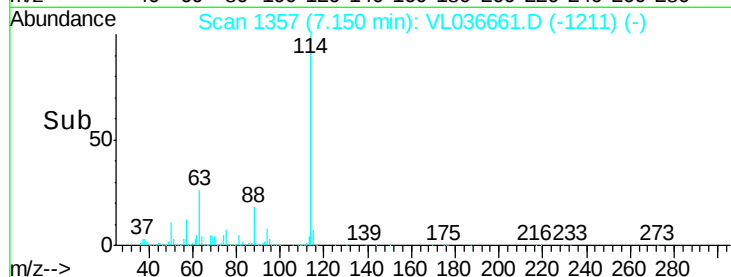
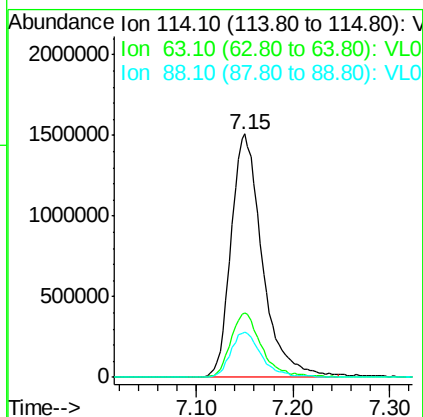
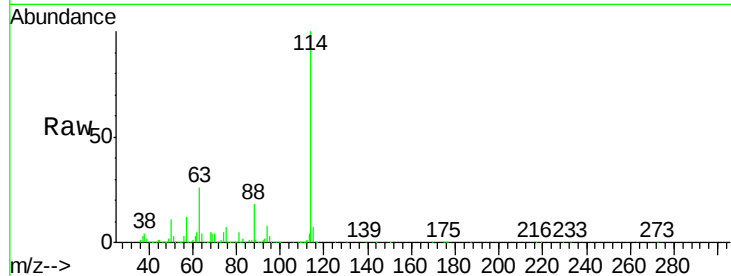
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-01DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.4	33.6
88	18.6	15.4	23.0

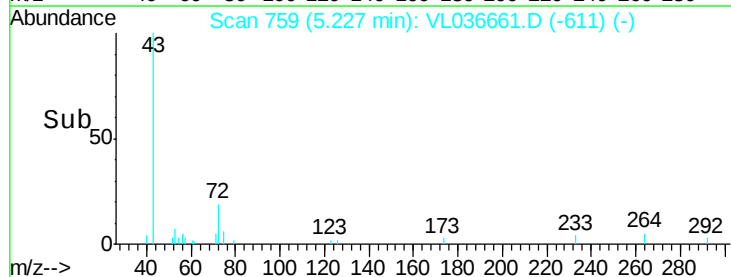
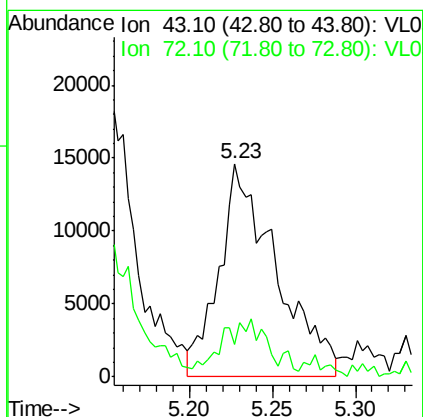
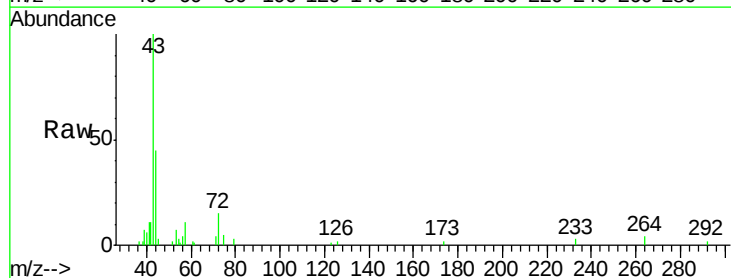
Manual Integrations
 APPROVED

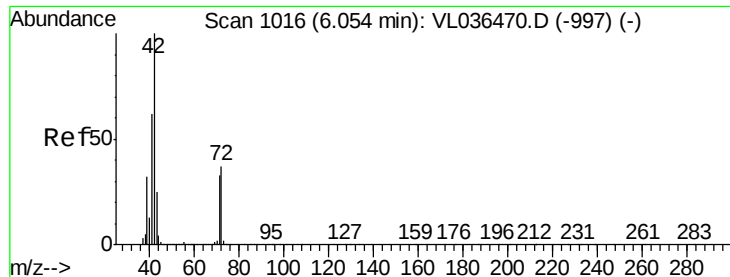
apatel
 4/5/2021 1:14:19 PM



#34
 2-Butanone
 Concen: 0.211 ppbv m
 RT: 5.23 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	17.0	25.6





#41

Tetrahydrofuran

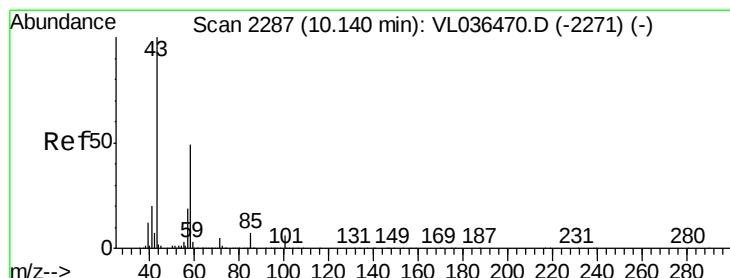
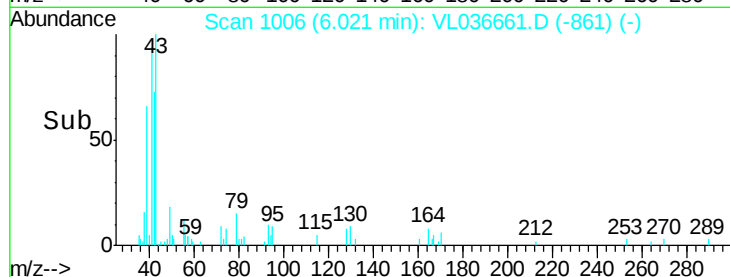
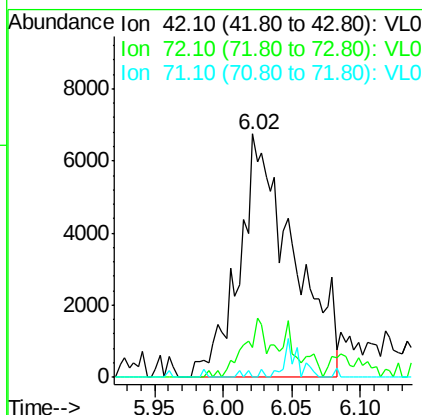
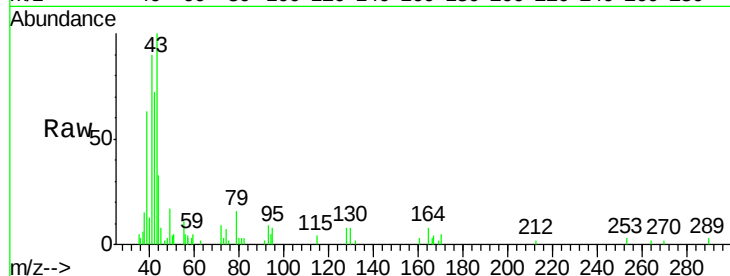
Concen: 0.241 ppbv m
RT: 6.02 min Scan# 1006
Delta R.T. -0.03 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-01DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	18.1	27.6	41.4#
71	0.0	27.0	40.4#

Manual Integrations
APPROVED

apatel
4/5/2021 1:14:19 PM

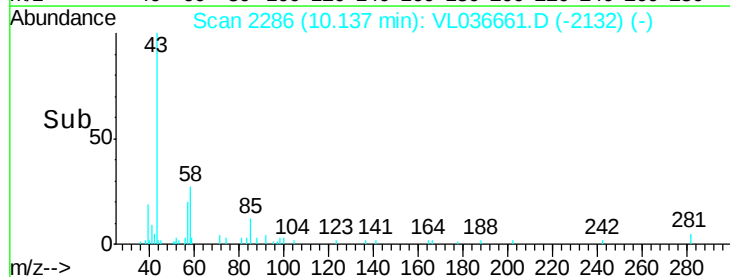
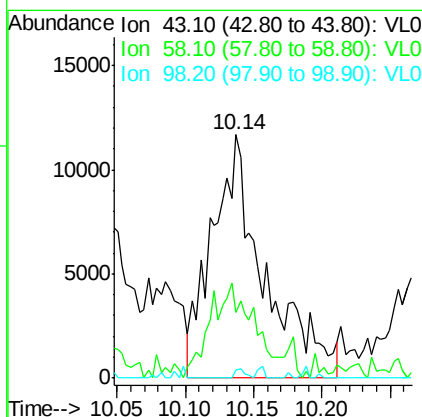
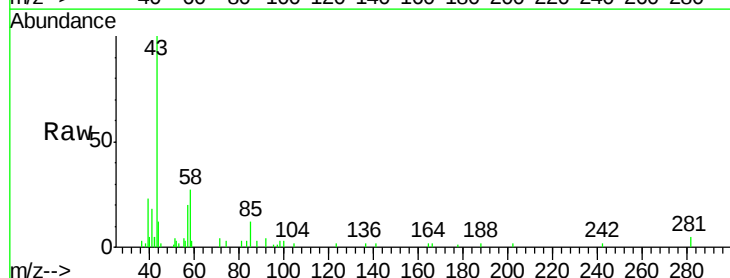


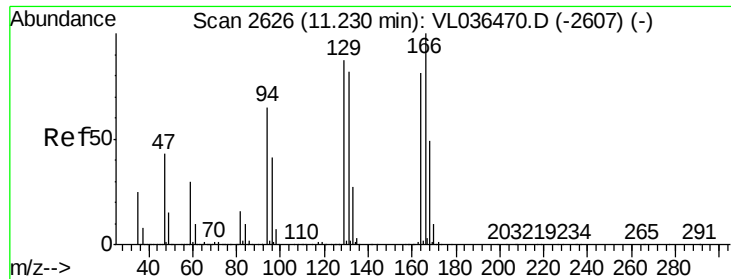
#51

2-Hexanone

Concen: 0.256 ppbv m
RT: 10.14 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.7	56.5#
98	0.8	0.2	0.2#





#52

Tetrachloroethene

Concen: 0.033 ppbv m

RT: 11.19 min Scan# 2615

Delta R.T. -0.04 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-01DL

Tot Ion:164 Resp: 3820

Ion Ratio Lower Upper

164 100

166 205.7 98.3 147.5#

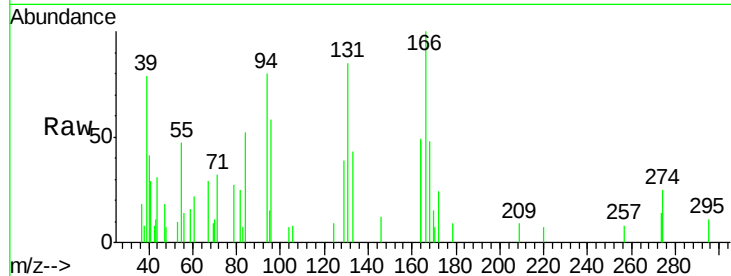
129 81.2 85.8 128.8#

131 175.7 80.9 121.3#

Manual Integrations
APPROVED

apatel

4/5/2021 1:14:19 PM

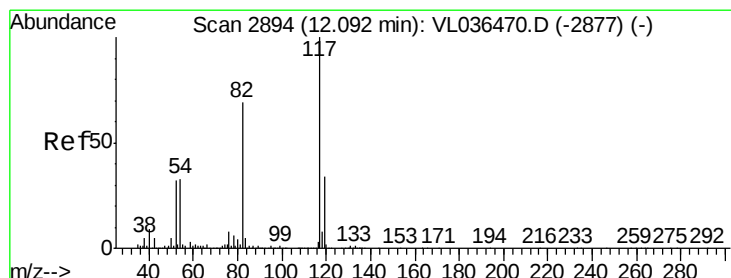
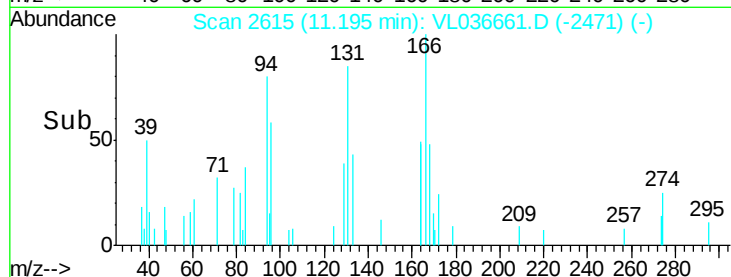
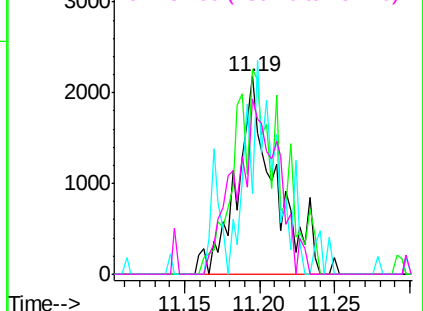


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Tgt Ion:117 Resp: 3066224

Ion Ratio Lower Upper

117 100

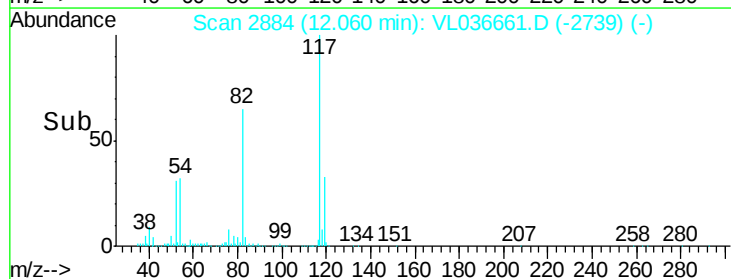
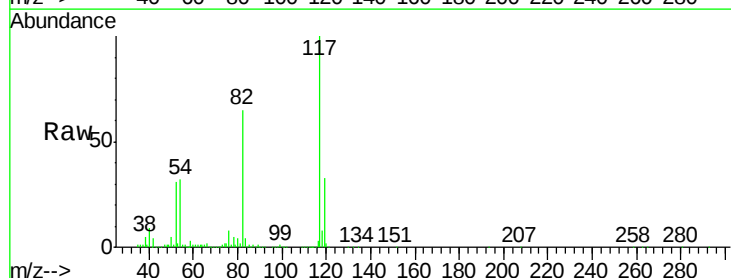
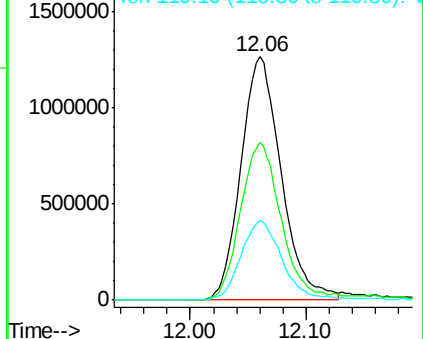
82 68.1 57.4 86.0

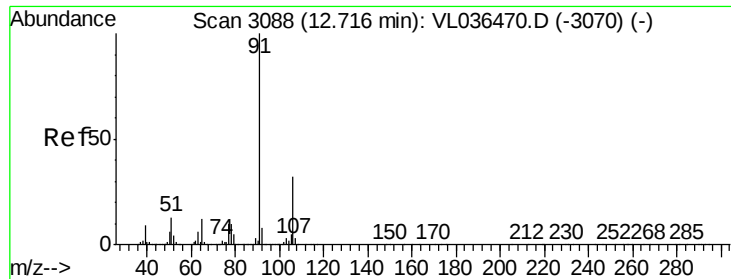
119 34.4 47.4 71.0#

Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.119 ppbv m

RT: 12.68 min Scan# 3078

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-01DL

Tot Ion: 91 Resp: 53239

Ion Ratio Lower Upper

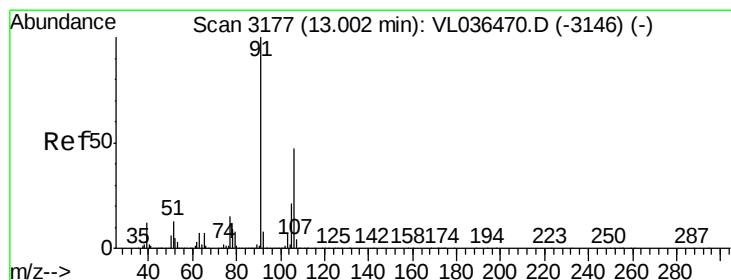
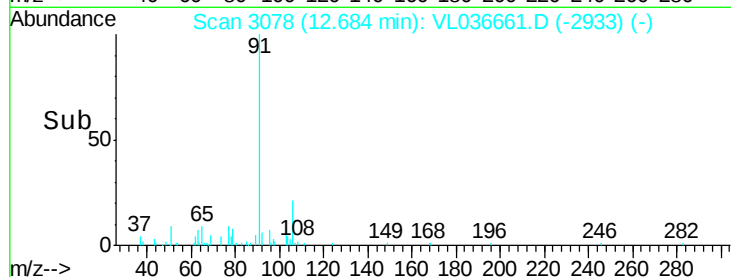
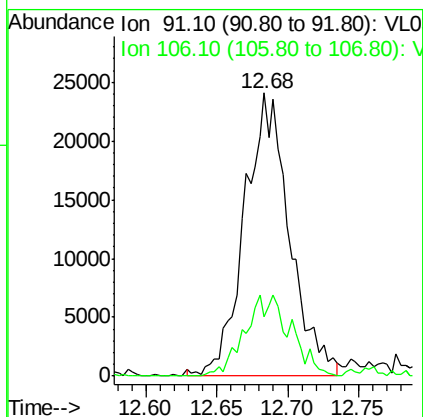
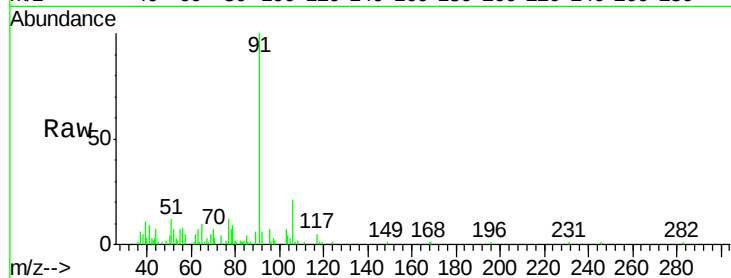
91 100

106 21.2 25.3 37.9#

Manual Integrations
APPROVED

apatel

4/5/2021 1:14:19 PM



#59

m/p-Xylene

Concen: 0.850 ppbv m

RT: 12.94 min Scan# 3157

Delta R.T. -0.06 min

Lab File: VL036661.D

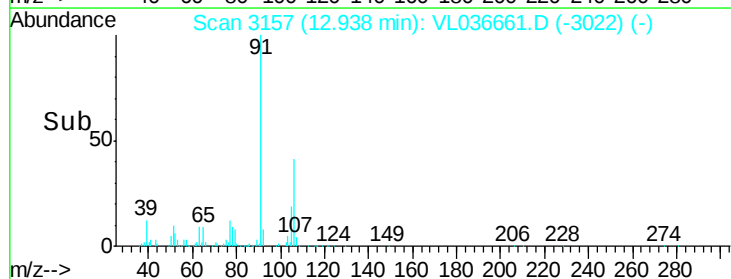
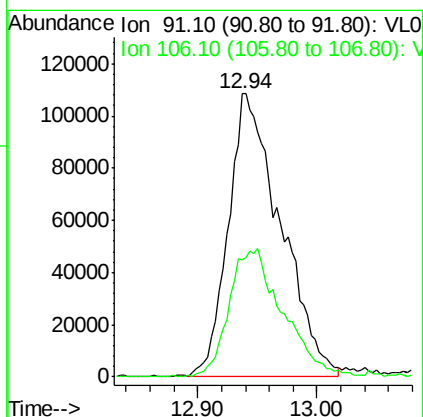
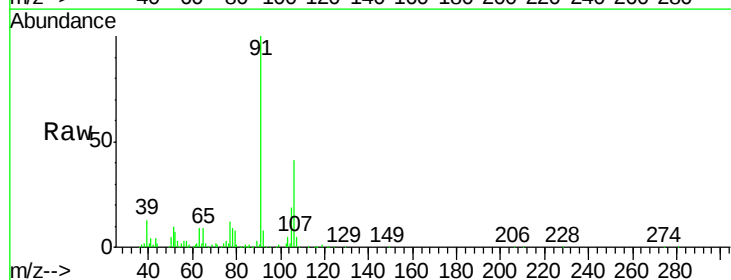
Acq: 3 Apr 2021 1:29

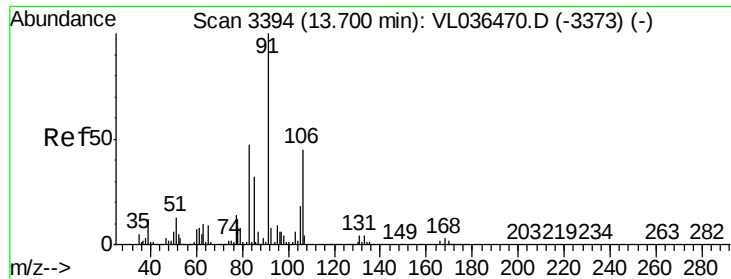
Tgt Ion: 91 Resp: 330601

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#





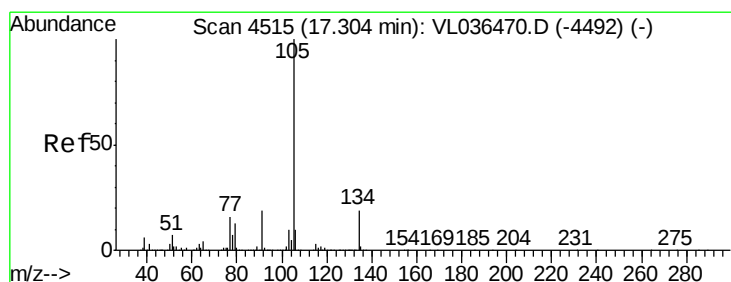
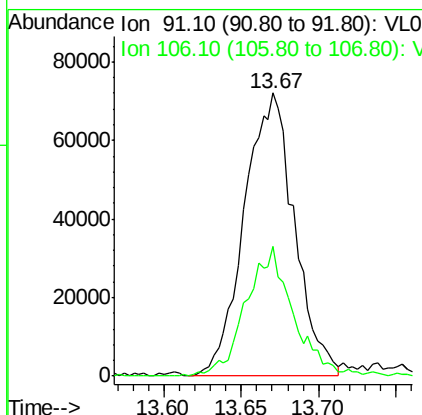
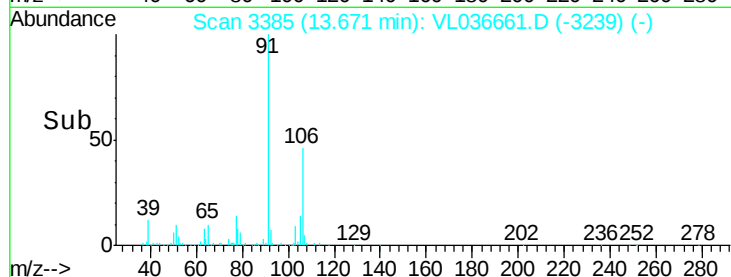
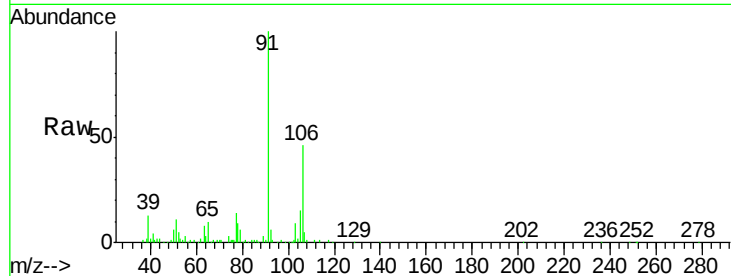
#60
o-Xylene
Concen: 0.432 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.03 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-01DL

Tot Ion: 91 Resp: 162534
Ion Ratio Lower Upper
91 100
106 43.5 22.3 66.9

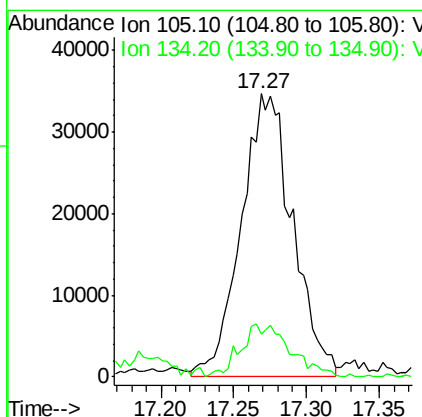
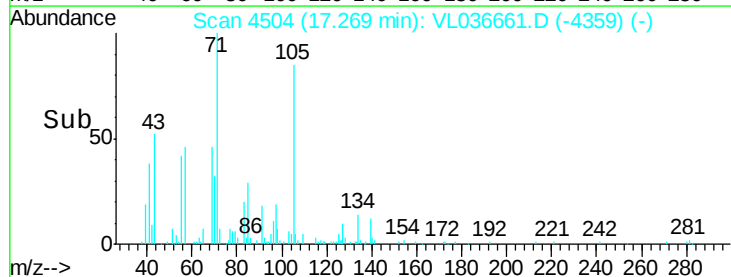
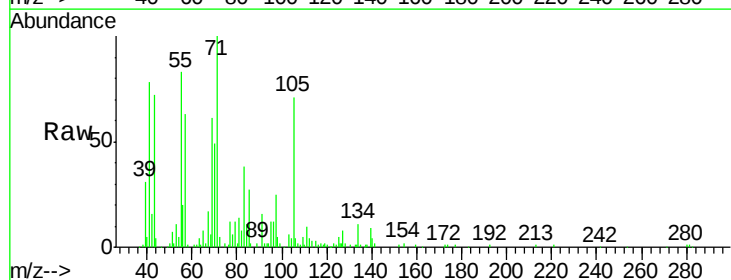
Manual Integrations
APPROVED

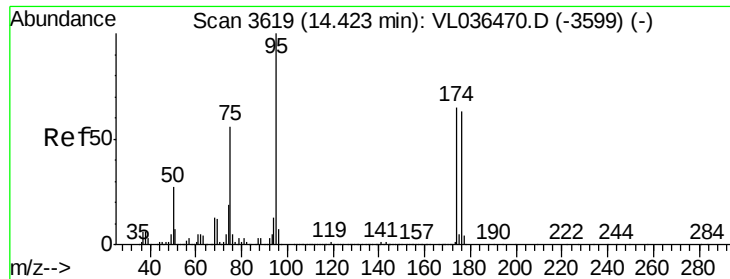
apatel
4/5/2021 1:14:19 PM



#67
sec-Butylbenzene
Concen: 0.137 ppbv m
RT: 17.27 min Scan# 4504
Delta R.T. -0.04 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion: 105 Resp: 85262
Ion Ratio Lower Upper
105 100
134 18.0 14.7 22.1





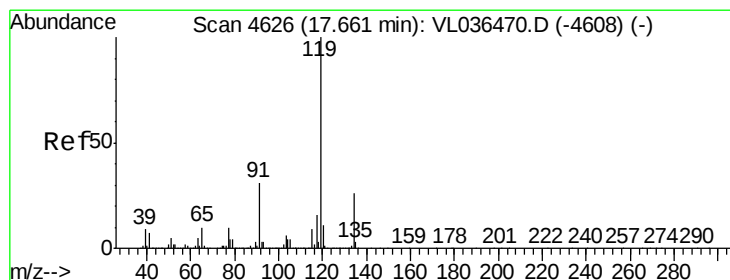
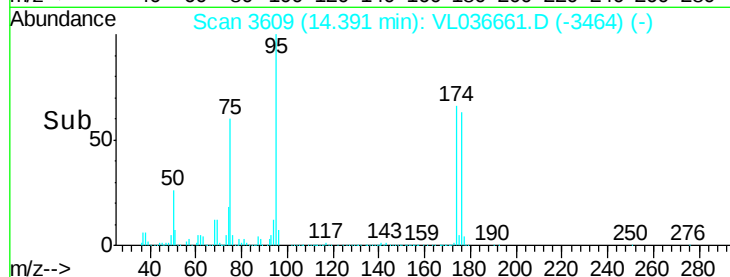
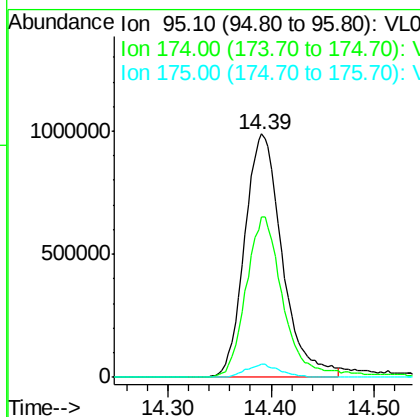
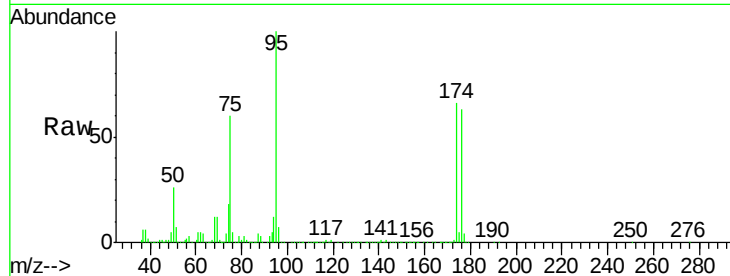
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.243 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T. -0.03 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-01DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	67.7	51.0	76.6
175	5.1	3.9	5.9

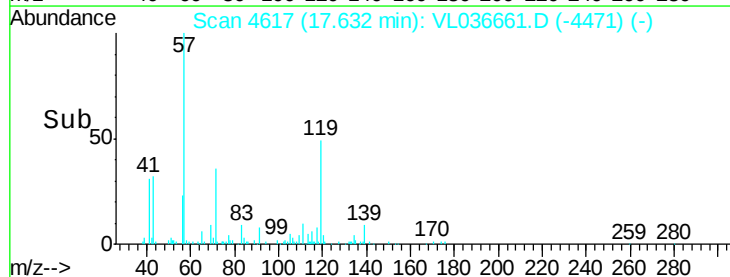
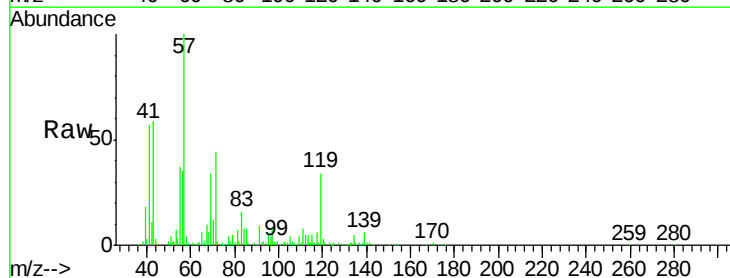
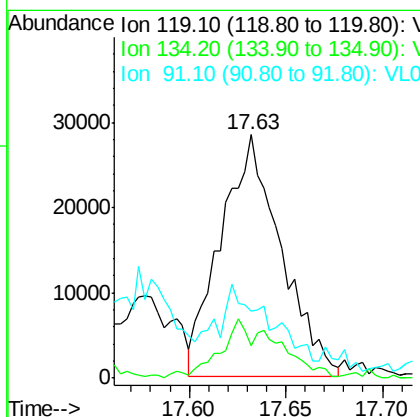
Manual Integrations
 APPROVED

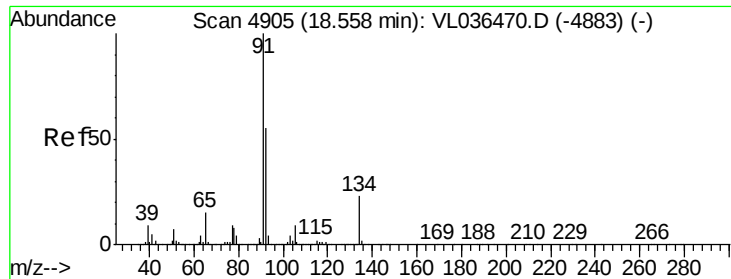
apatel
 4/5/2021 1:14:19 PM



#69
 p-Isopropyltoluene
 Concen: 0.127 ppbv
 RT: 17.63 min Scan# 4617
 Delta R.T. -0.03 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.2	20.6	30.8
91	31.4	25.0	37.6





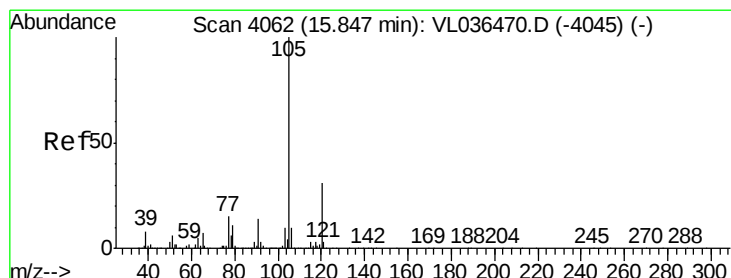
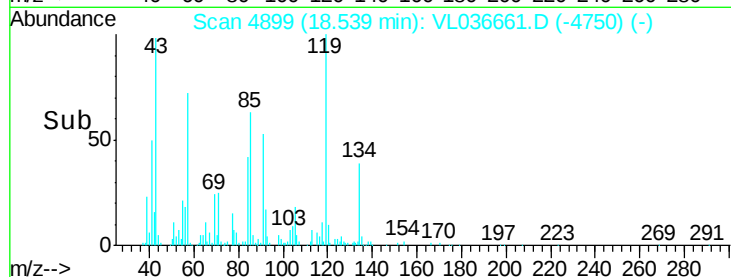
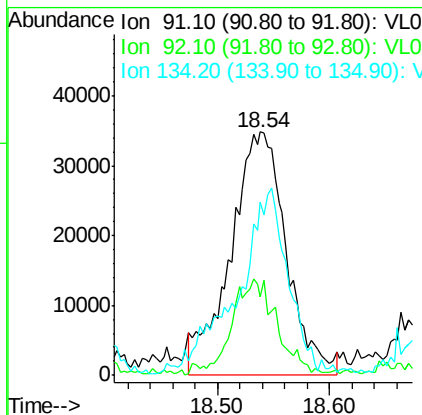
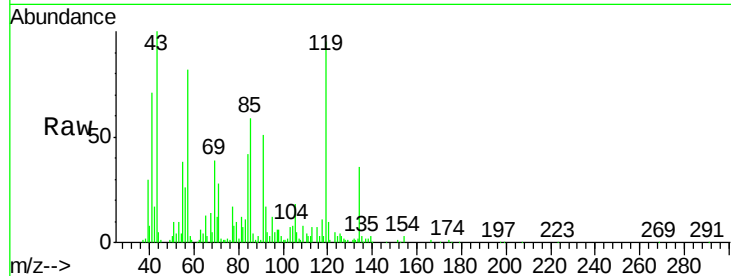
#70
n-Butylbenzene
Concen: 0.240 ppbv m
RT: 18.54 min Scan# 4899
Delta R.T. -0.02 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-01DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.8	65.8#
134	0.0	18.0	27.0#

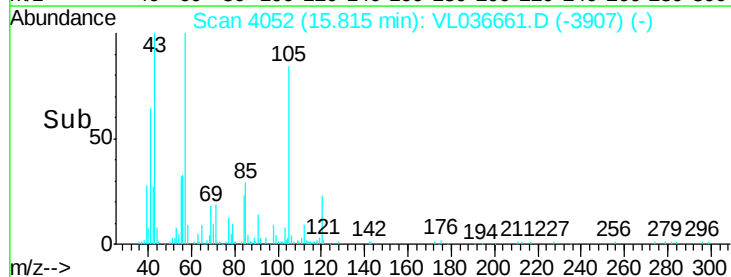
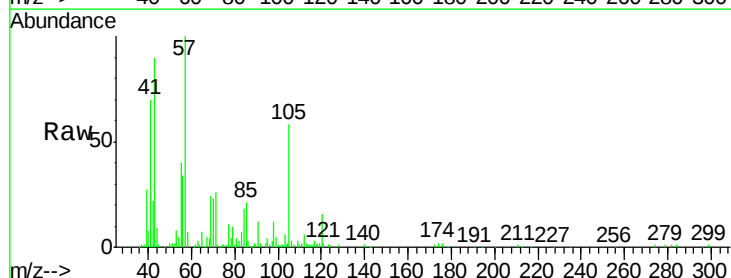
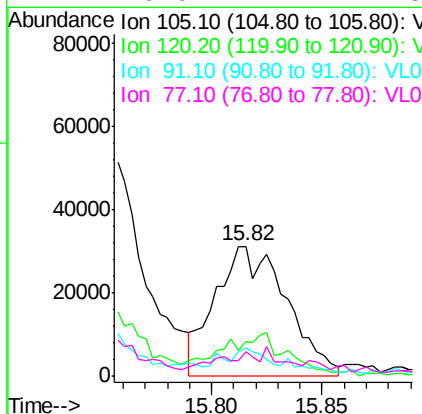
Manual Integrations
APPROVED

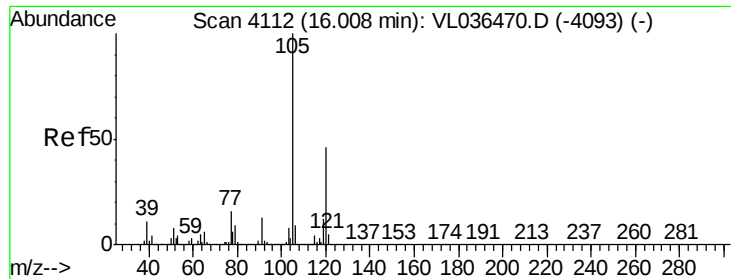
apatel
4/5/2021 1:14:19 PM



#72
4-Ethyltoluene
Concen: 0.169 ppbv m
RT: 15.82 min Scan# 4052
Delta R.T. -0.03 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.0	36.0#
91	16.7	11.0	16.4#
77	0.0	11.7	17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.328 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-01DL

Tot Ion:105 Resp: 126251

Ion Ratio Lower Upper

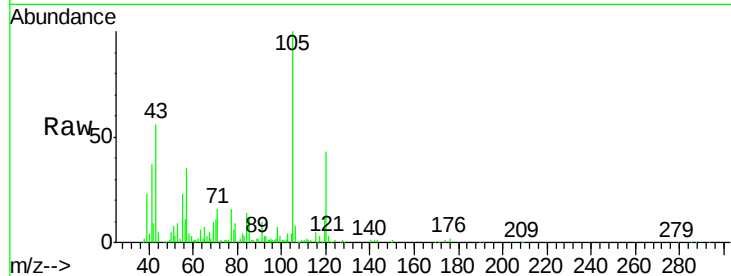
105 100

120 41.6 36.6 54.8

Manual Integrations
APPROVED

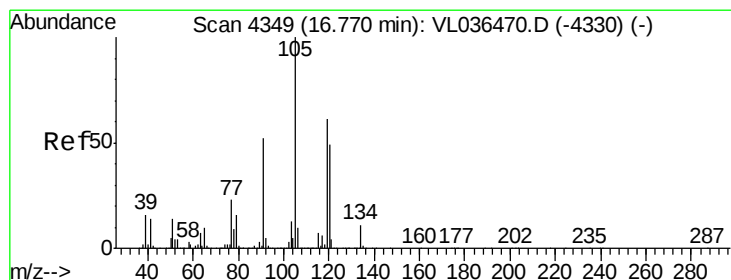
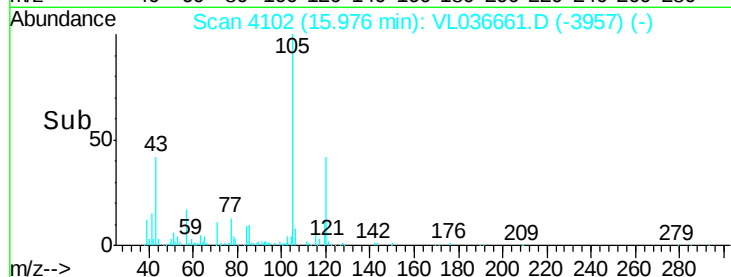
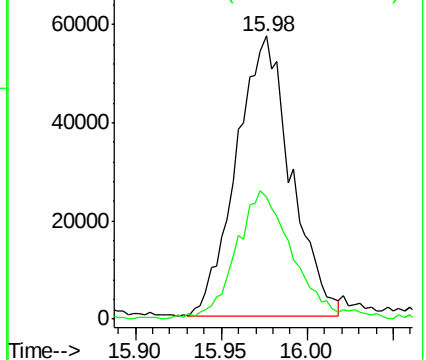
apatel

4/5/2021 1:14:19 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.922 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Tgt Ion:105 Resp: 379724

Ion Ratio Lower Upper

105 100

120 39.6 39.2 58.8

91 12.1 42.6 64.0#

77 17.3 18.6 28.0#

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

