

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037002.D
 Acq On : 19 May 2021 21:48
 Operator : SY/AP
 Sample : M2424-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-01DL

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:02:00 PM

Quant Time: May 22 22:20:35 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1188360	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3597249	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3329161	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2434222	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	96596	1.239	ppbv	91
10) Heptane	8.10	43	27167	0.140	ppbv #	81
11) Trichlorofluoromethane	3.93	101	56815	0.304	ppbv	94
13) Ethanol	3.60	45	115547m	11.109	ppbv	
15) Acetone	3.83	43	9050290	74.353	ppbv	98
17) tert-Butyl alcohol	4.29	59	138552m	1.243	ppbv	
19) Isopropyl Alcohol	3.97	45	104751m	1.601	ppbv	
20) Methylene Chloride	4.33	84	48020	0.736	ppbv	97
26) Hexane	5.66	57	90254	0.604	ppbv #	13
27) Carbon Disulfide	4.53	76	44493	0.295	ppbv #	75
34) 2-Butanone	5.23	43	359171	2.742	ppbv	95
36) Benzene	6.86	78	930511	3.003	ppbv	96
53) Toluene	9.78	91	493794	1.339	ppbv	98
59) m/p-Xylene	12.94	91	42067m	0.108	ppbv	

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

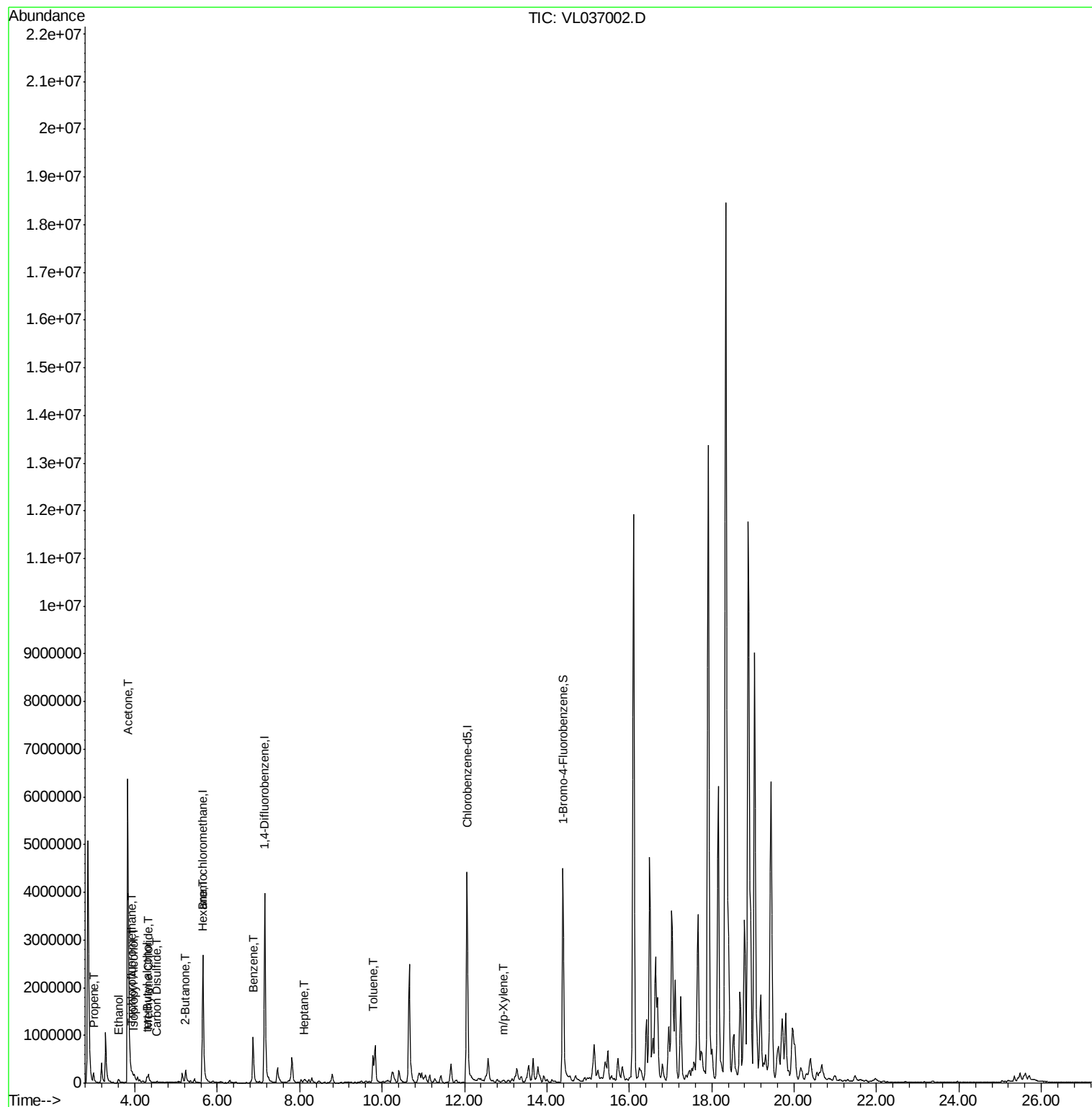
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051921\
Data File : VL037002.D
Acq On : 19 May 2021 21:48
Operator : SY/AP
Sample : M2424-04DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

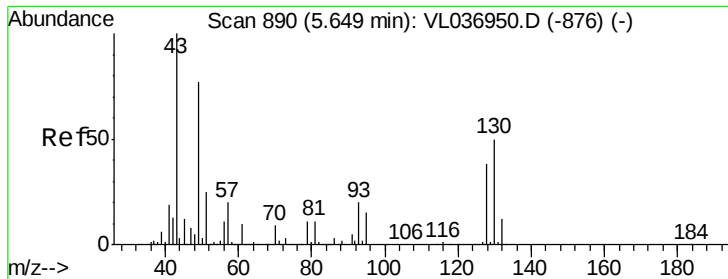
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

Manual Integrations
APPROVED

MMDadoda
5/24/2021 3:02:00 PM

Quant Time: May 22 22:20:35 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampled :

KSV-01DL

Tot Ion: 49 Resp: 1188360

Ion Ratio Lower Upper

49 100

128 54.0 26.9 80.7

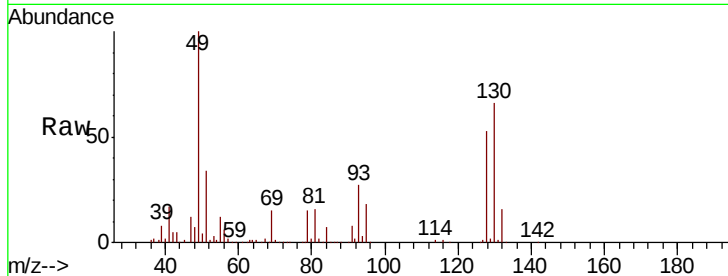
130 69.5 33.8 101.4

Manual Integrations

APPROVED

MMDadoda

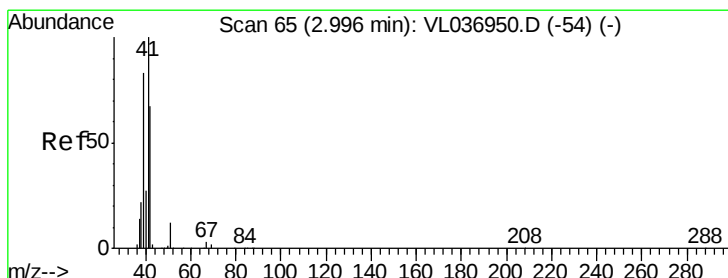
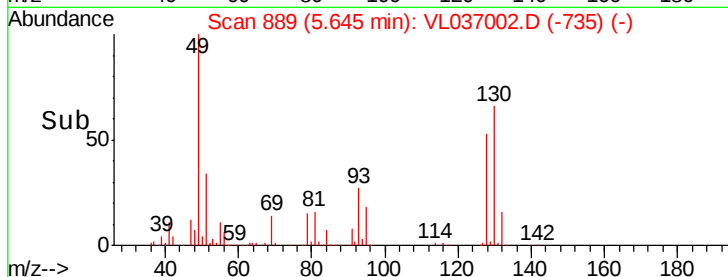
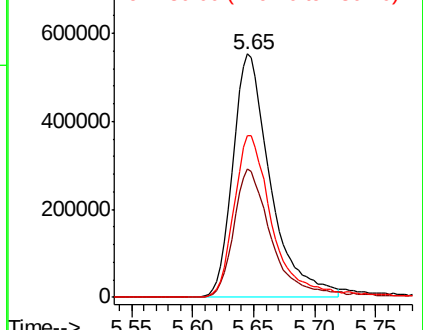
5/24/2021 3:02:00 PM



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: 1.239 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL037002.D

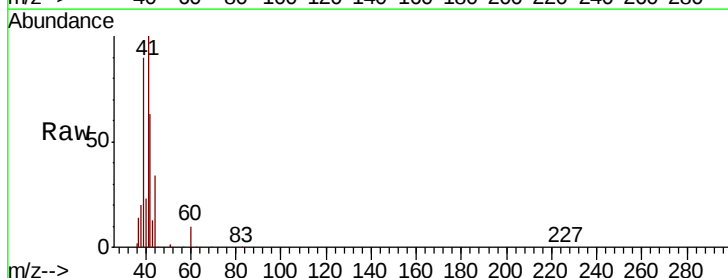
Acq: 19 May 2021 21:48

Tgt Ion: 41 Resp: 96596

Ion Ratio Lower Upper

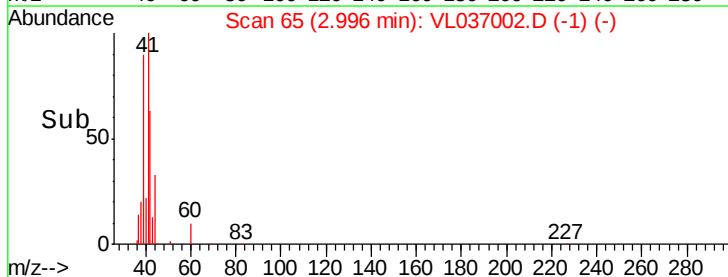
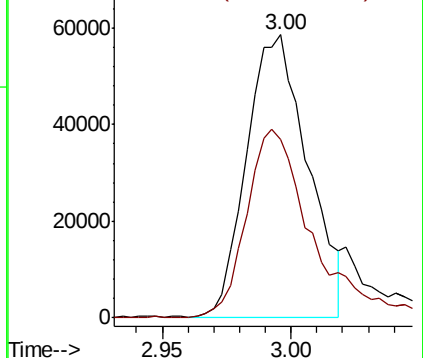
41 100

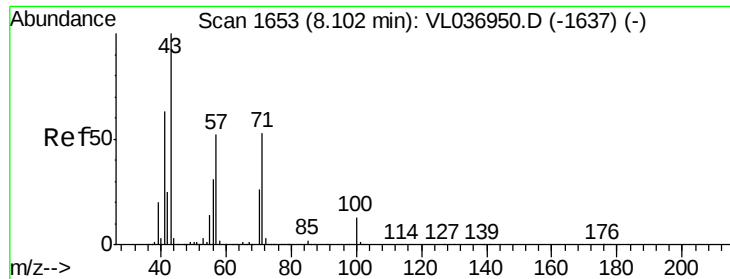
42 74.3 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.140 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DL

Tot Ion: 43 Resp: 27167

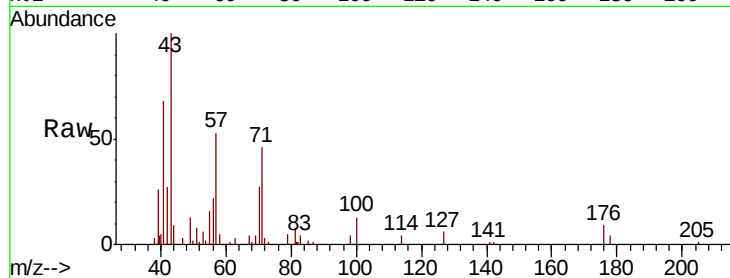
Ion Ratio Lower Upper

43 100

57 64.5 41.0 61.6#

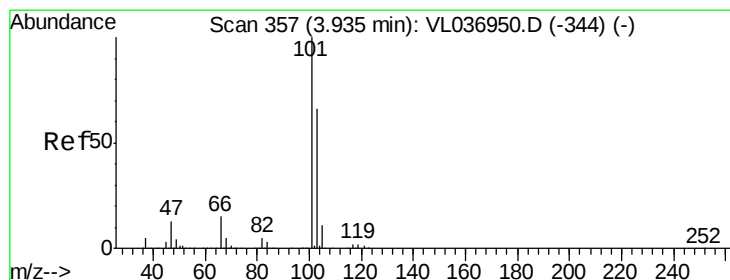
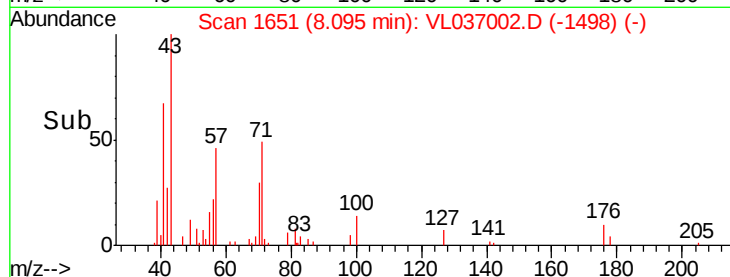
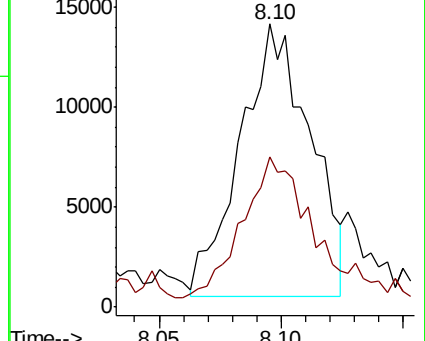
Manual Integrations
APPROVED

MMDadoda
5/24/2021 3:02:00 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.304 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.01 min

Lab File: VL037002.D

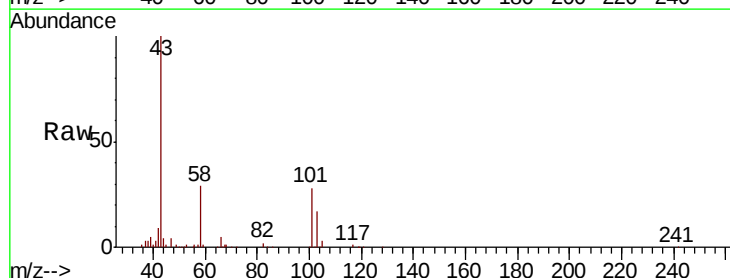
Acq: 19 May 2021 21:48

Tgt Ion:101 Resp: 56815

Ion Ratio Lower Upper

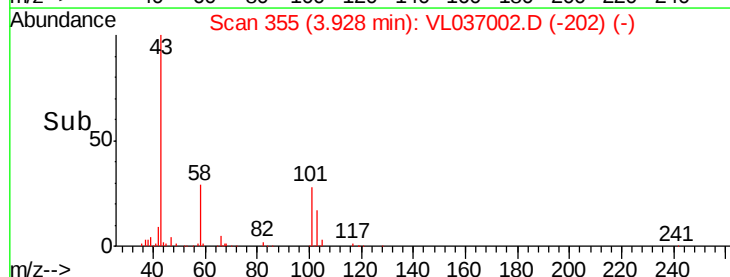
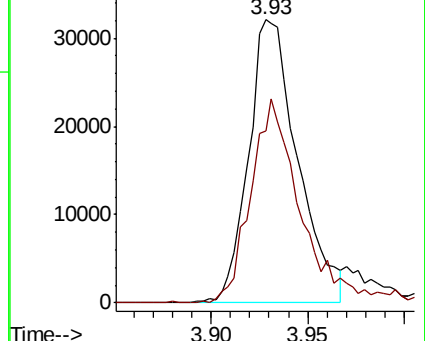
101 100

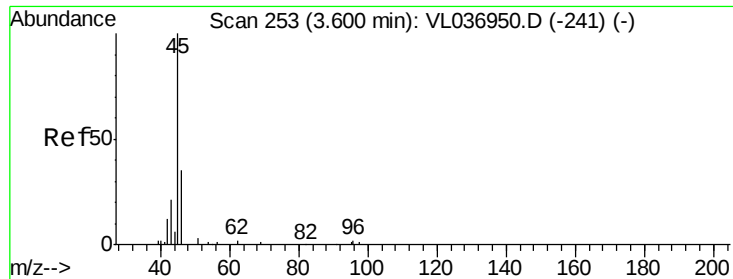
103 60.7 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





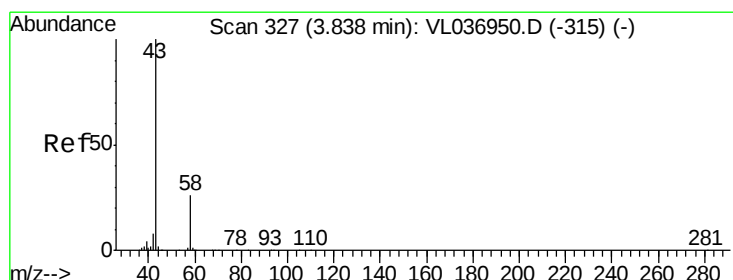
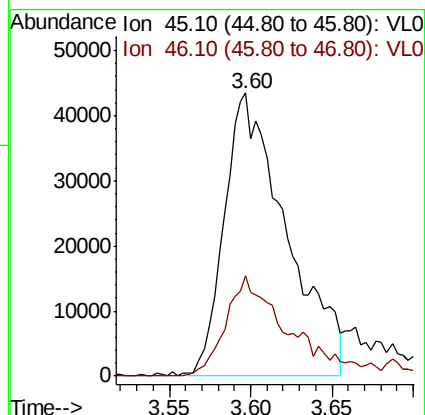
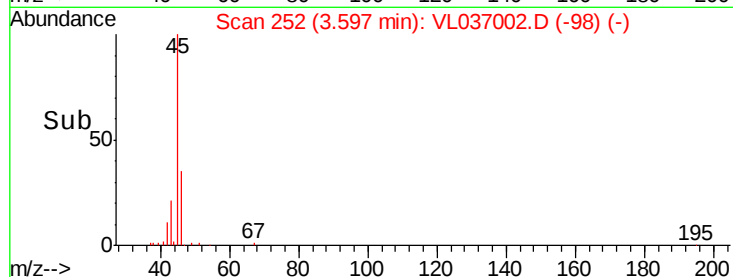
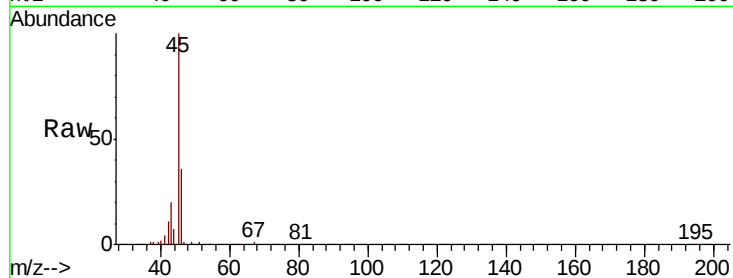
#13
Ethanol
Concen: 11.109 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

Tot Ion	45	46	Ratio	Lower	Upper
115547	100	34.9		16.3	65.3

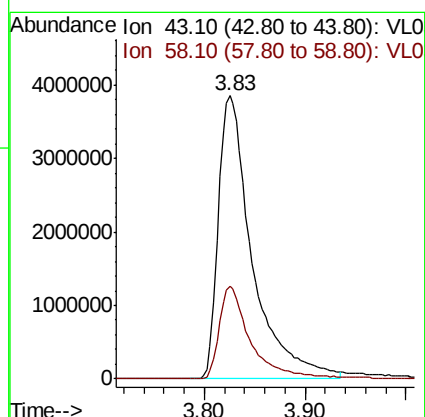
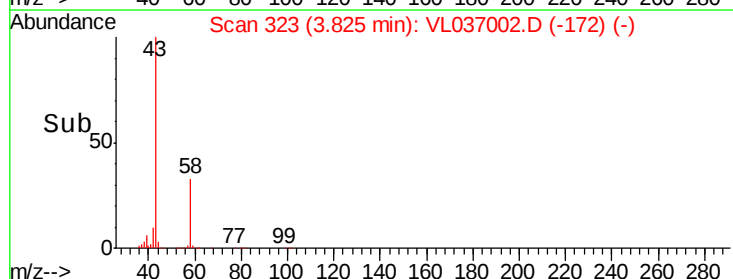
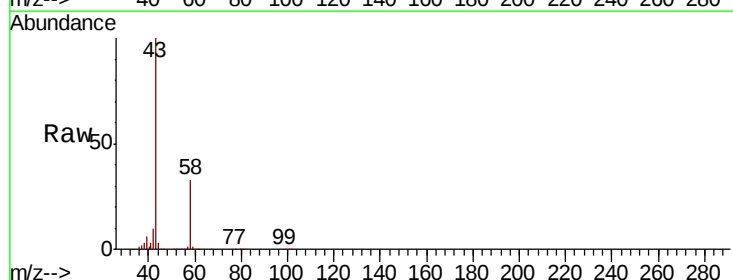
Manual Integrations
APPROVED

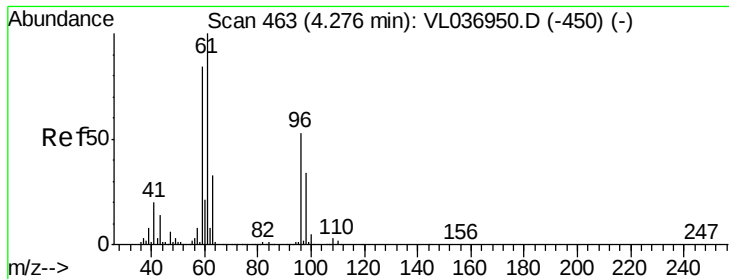
MMDadoda
5/24/2021 3:02:00 PM



#15
Acetone
Concen: 74.353 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.01 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Tgt Ion	43	58	Ratio	Lower	Upper
9050290	100	31.0		24.0	36.0





#17

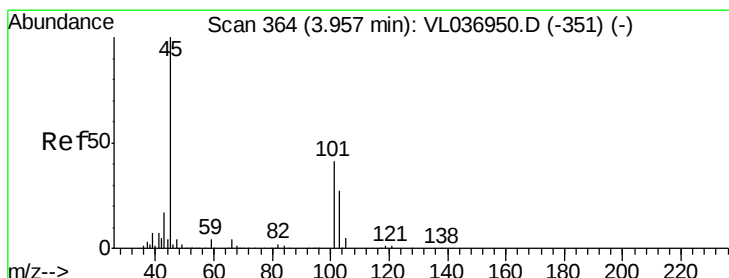
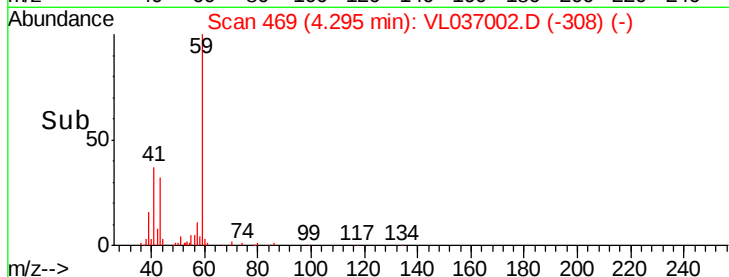
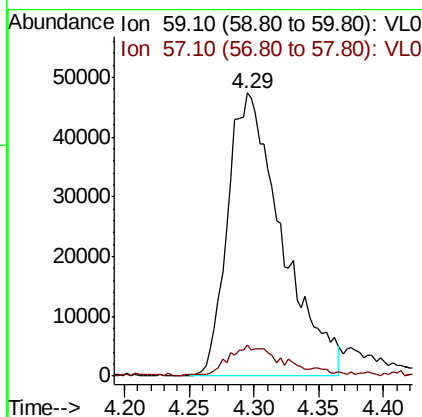
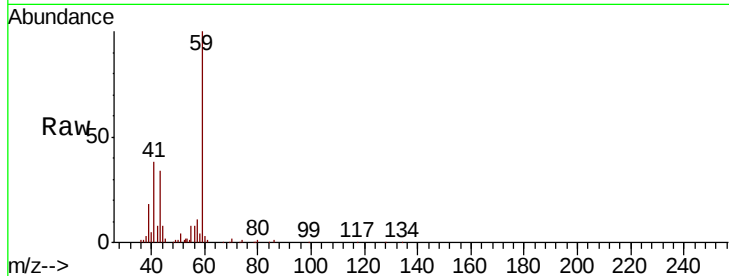
tert-Butyl alcohol
 Concen: 1.243 ppbv m
 RT: 4.29 min Scan# 469
 Delta R.T. 0.02 min
 Lab File: VL037002.D
 Acq: 19 May 2021 21:48

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-01DL

Tot Ion	59	Resp	138552
Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.3	12.5

Manual Integrations
 APPROVED

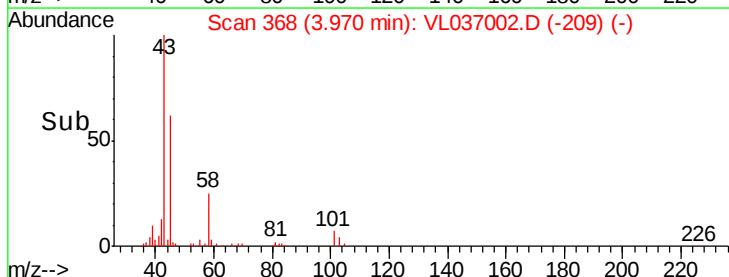
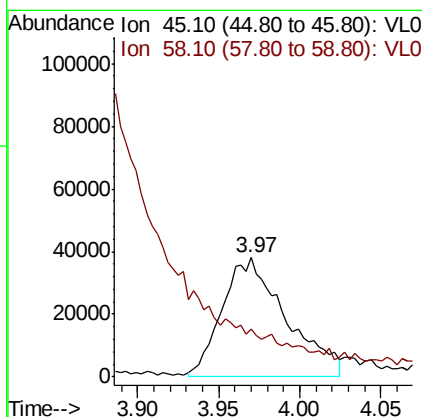
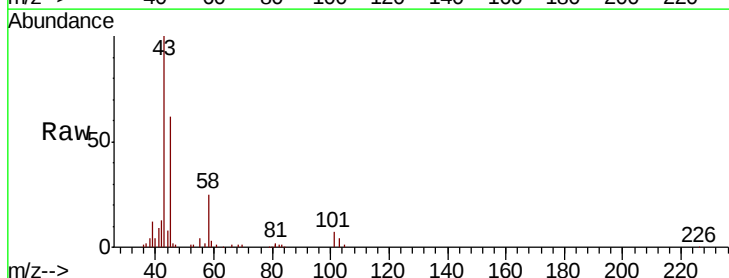
MMDadoda
 5/24/2021 3:02:00 PM

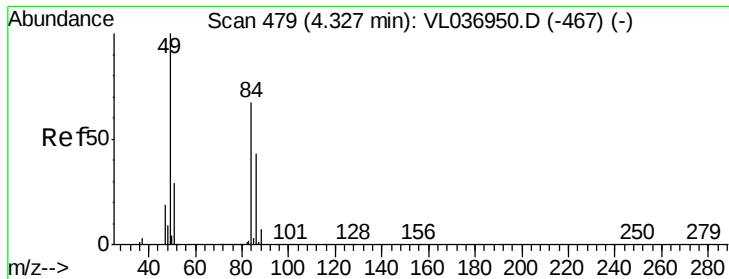


#19

Isopropyl Alcohol
 Concen: 1.601 ppbv m
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL037002.D
 Acq: 19 May 2021 21:48

Tgt Ion	45	Resp	104751
Ion	Ratio	Lower	Upper
45	100		
58	0.0	37.2	55.8#





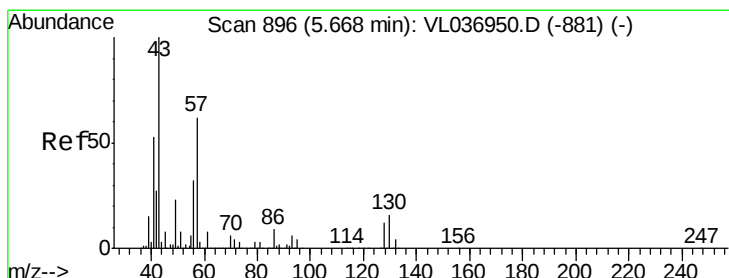
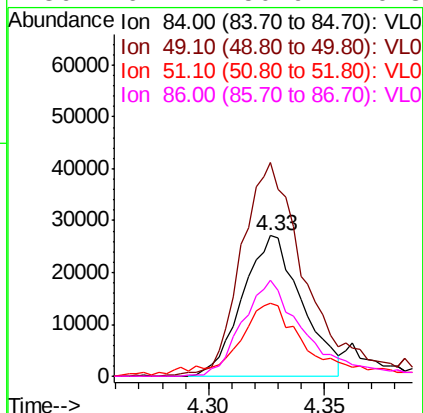
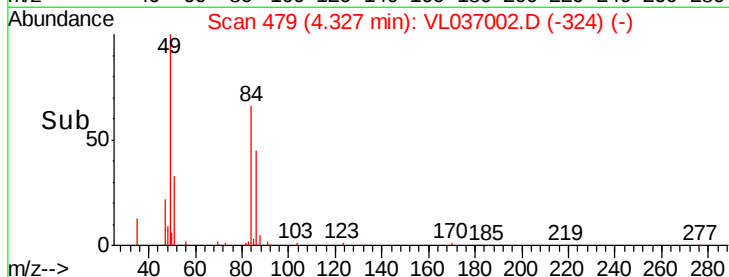
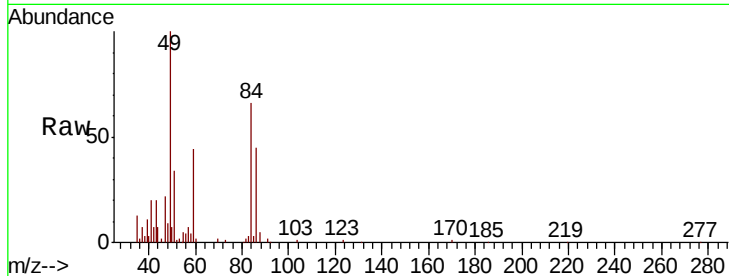
#20
Methvlene Chloride
Concen: 0.736 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

Tot Ion	84	Resp	48020
Ion	Ratio	Lower	Upper
84	100		
49	149.2	119.8	179.6
51	47.9	35.1	52.7
86	67.7	50.9	76.3

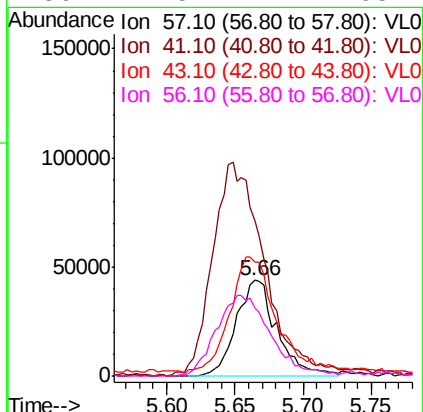
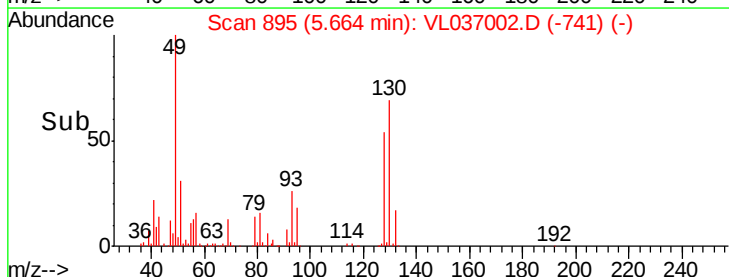
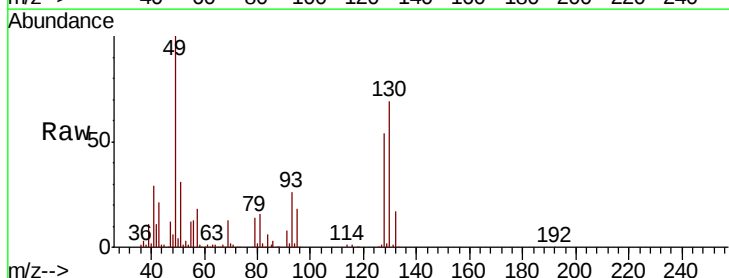
Manual Integrations
APPROVED

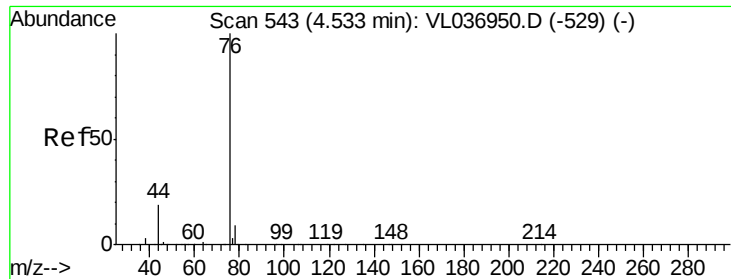
MMDadoda
5/24/2021 3:02:00 PM



#26
Hexane
Concen: 0.604 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Tgt Ion	57	Resp	90254
Ion	Ratio	Lower	Upper
57	100		
41	291.2	70.5	105.7#
43	157.2	165.8	248.8#
56	112.5	42.2	63.4#





#27

Carbon Disulfide

Concen: 0.295 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

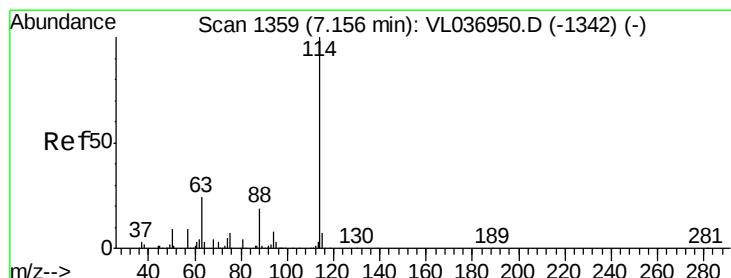
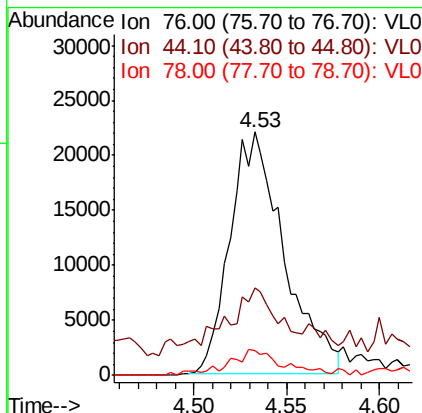
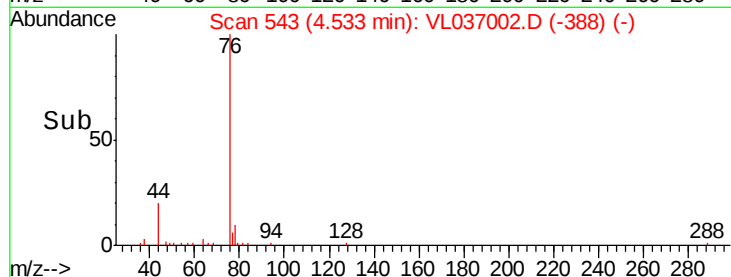
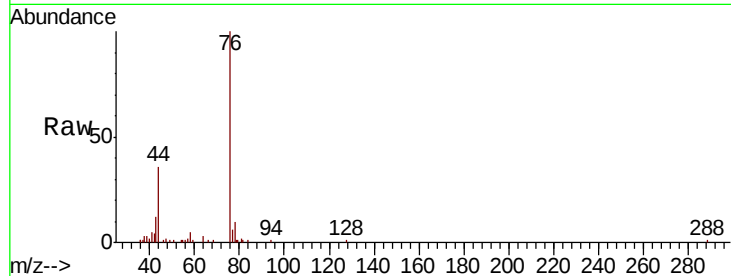
ClientSampleId :

KSV-01DL

Tot Ion:	76	Resp:	44493
Ion Ratio	Lower	Upper	
76	100		
44	35.3	15.5	23.3#
78	11.4	7.8	11.6

Manual Integrations
APPROVED

MMDadoda
5/24/2021 3:02:00 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

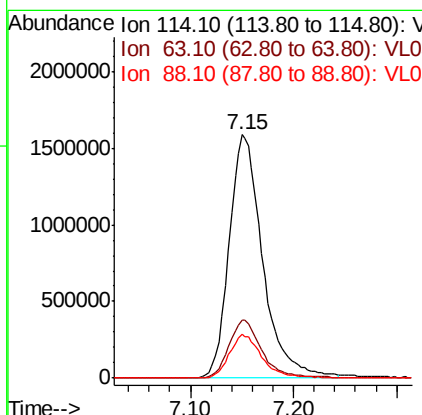
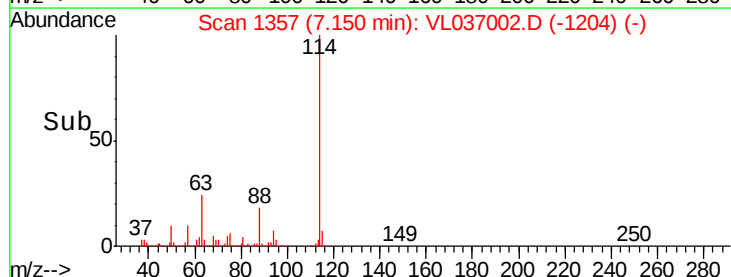
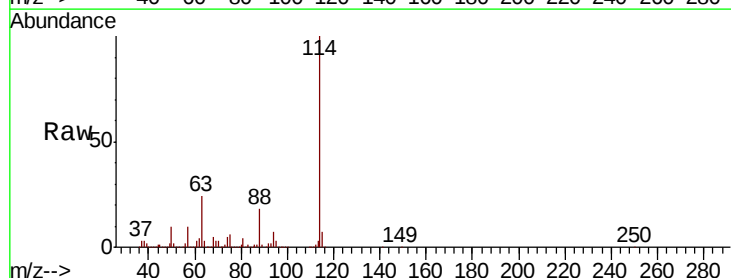
RT: 7.15 min Scan# 1357

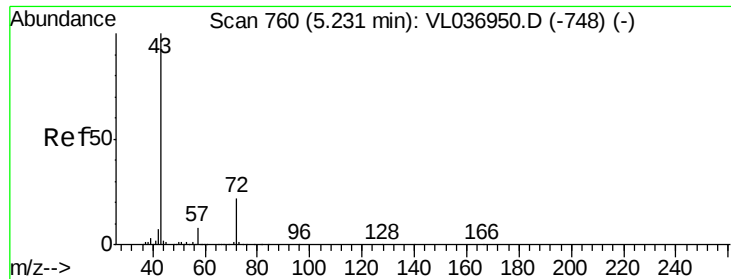
Delta R.T. -0.01 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Tgt Ion:	114	Resp:	3597249
Ion Ratio	Lower	Upper	
114	100		
63	23.8	19.6	29.4
88	17.7	14.6	21.8





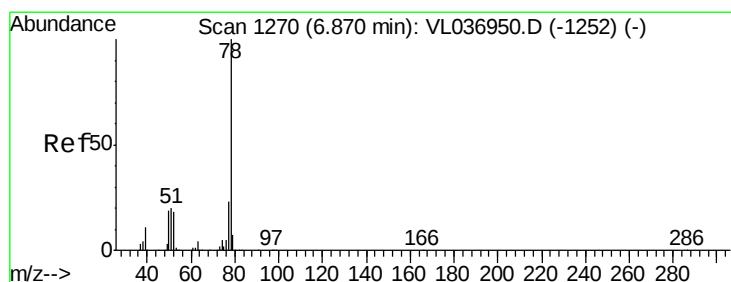
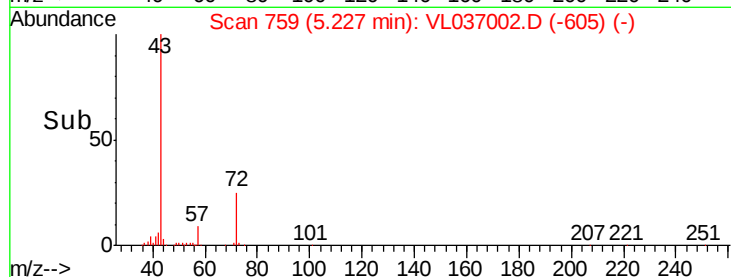
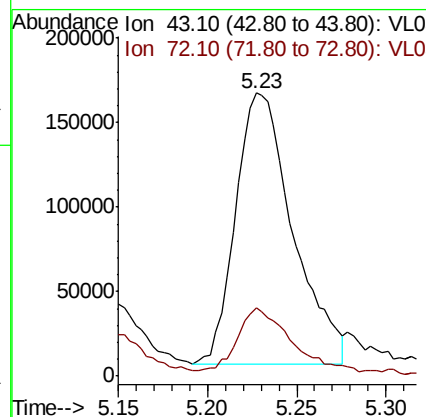
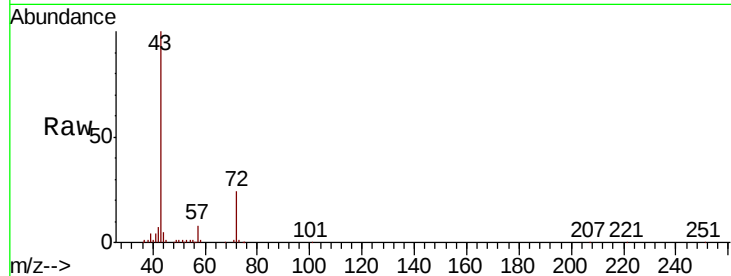
#34
2-Butanone
Concen: 2.742 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	26.3	19.0	28.4

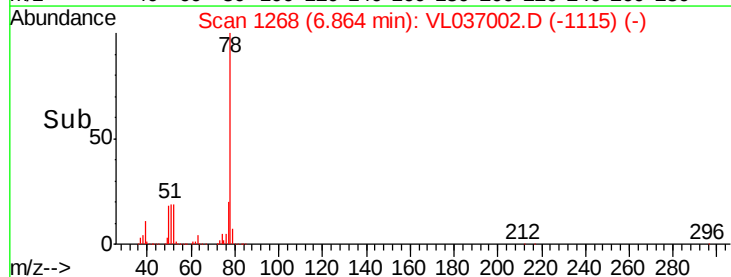
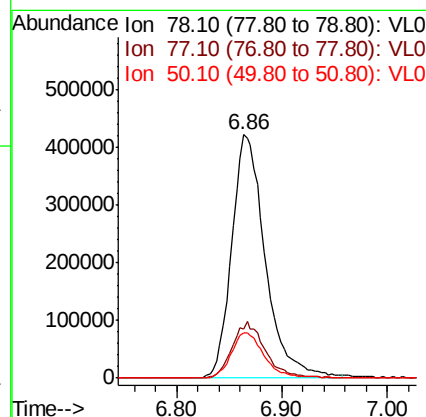
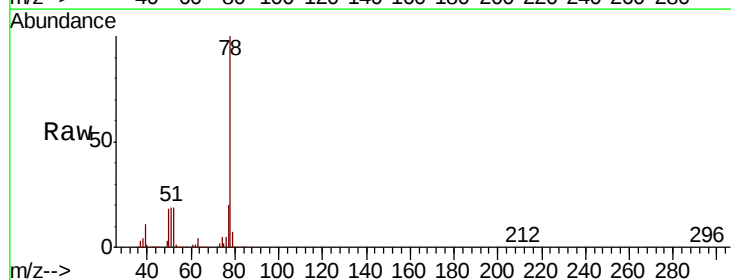
Manual Integrations
APPROVED

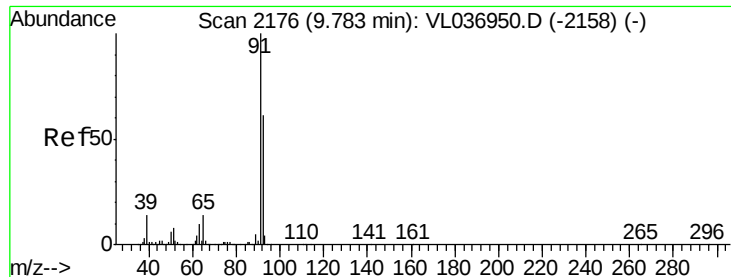
MMDadoda
5/24/2021 3:02:00 PM



#36
Benzene
Concen: 3.003 ppbv
RT: 6.86 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.2	18.6	28.0
50	18.3	15.0	22.4





#53

Toluene

Concen: 1.339 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DL

Tot Ion: 91 Resp: 493794

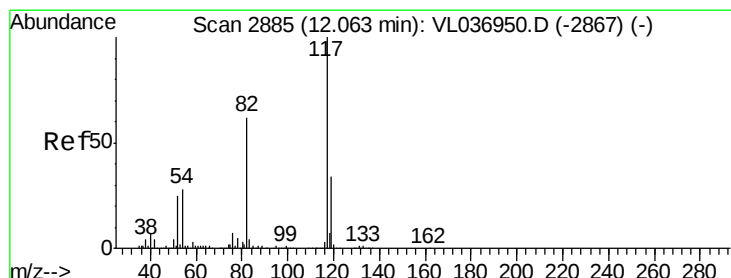
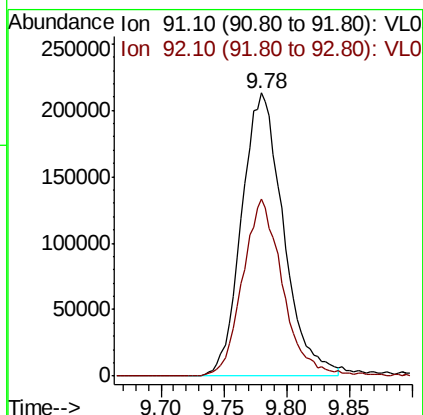
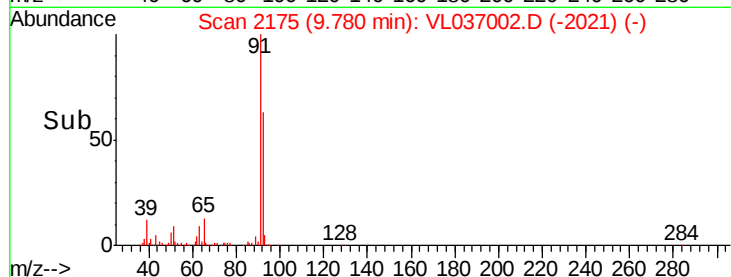
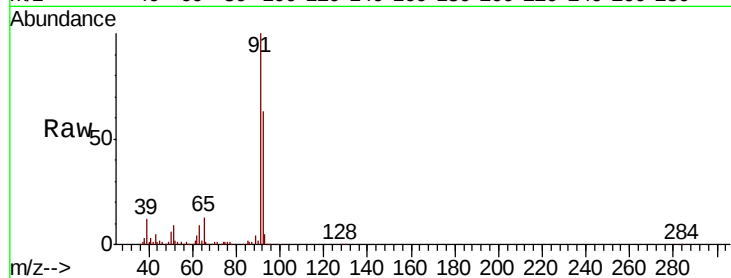
Ion Ratio Lower Upper

91 100

92 60.5 49.5 74.3

Manual Integrations
APPROVED

MMDadoda
5/24/2021 3:02:00 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

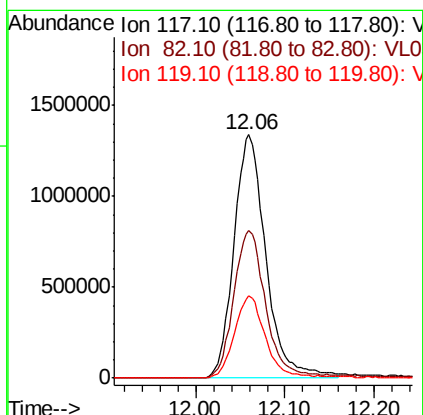
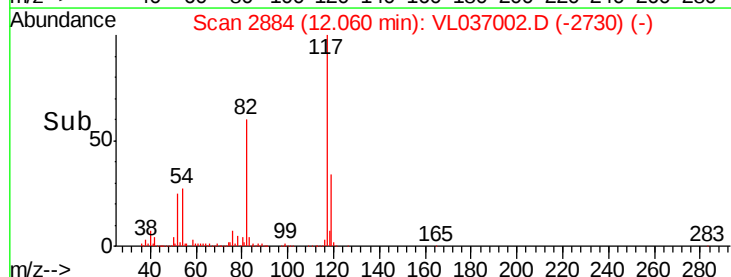
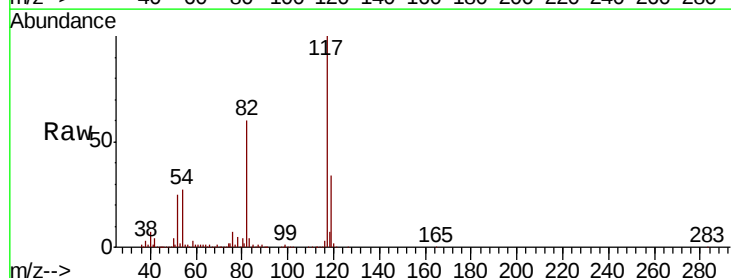
Tgt Ion: 117 Resp: 3329161

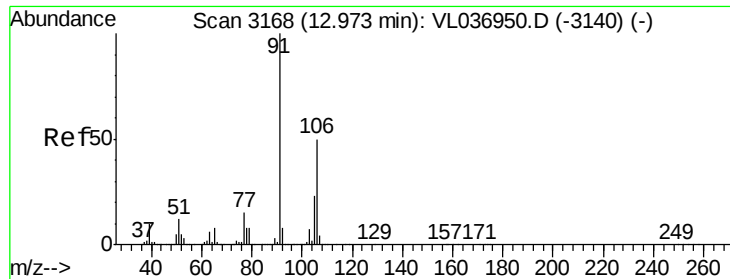
Ion Ratio Lower Upper

117 100

82 63.4 52.6 79.0

119 33.7 46.6 70.0#





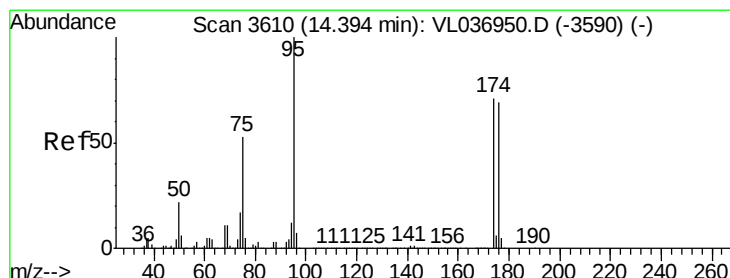
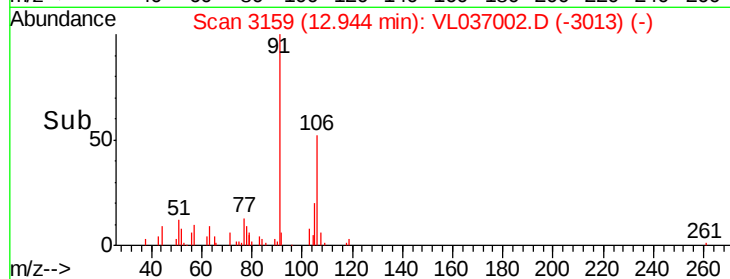
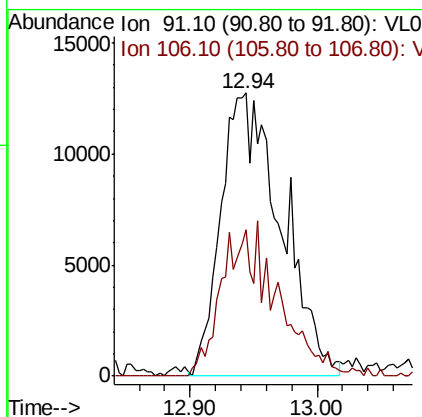
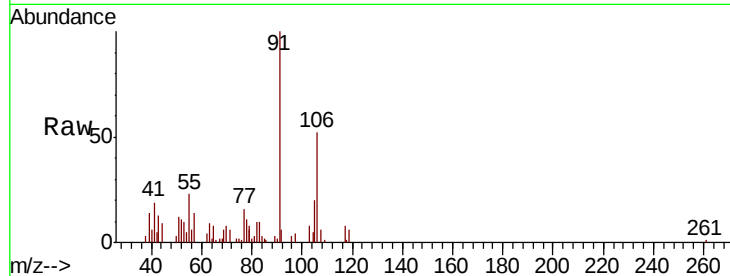
#59
m/p-Xylene
Concen: 0.108 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.03 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

Tot Ion: 91 Resp: 42067
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

Manual Integrations
APPROVED

MMDadoda
5/24/2021 3:02:00 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.733 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.01 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Tgt Ion: 95 Resp: 2434222
Ion Ratio Lower Upper
95 100
174 75.3 58.4 87.6
175 5.5 4.4 6.6

