

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035536.D
 Acq On : 3 Sep 2020 18:32
 Operator : SY/AP
 Sample : L3898-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Manual Integrations
 APPROVED

MMDadoda
 9/8/2020 4:20:10 PM

Quant Time: Sep 04 07:28:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1063328	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4515849	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4509791	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3286335	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	45476	1.003	ppbv #	66
11) Trichlorofluoromethane	3.97	101	40079	0.149	ppbv	98
13) Ethanol	3.62	45	171175	15.228	ppbv	97
15) Acetone	3.86	43	2038616	17.383	ppbv	99
17) tert-Butyl alcohol	4.33	59	32105m	0.225	ppbv	
19) Isopropyl Alcohol	3.99	45	56459	0.807	ppbv #	93
20) Methylene Chloride	4.36	84	48445	0.555	ppbv	97
26) Hexane	5.71	57	26185	0.223	ppbv #	74
34) 2-Butanone	5.28	43	36685	0.274	ppbv	99
53) Toluene	9.84	91	99355	0.270	ppbv	96
59) m/p-Xylene	13.00	91	59019m	0.152	ppbv	
79) Naphthalene	22.27	128	120317m	0.215	ppbv	

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

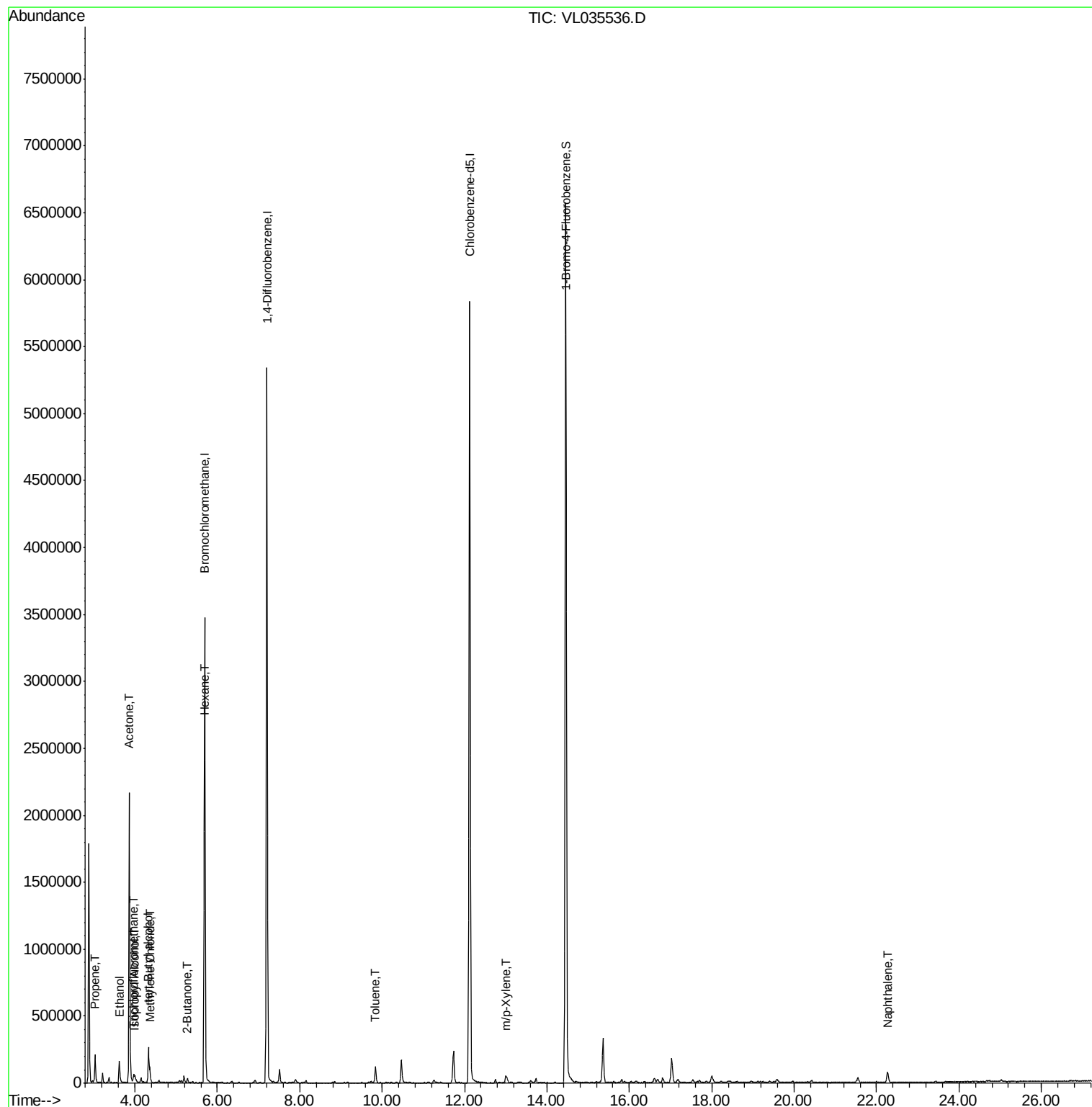
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090320\
Data File : VL035536.D
Acq On : 3 Sep 2020 18:32
Operator : SY/AP
Sample : L3898-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

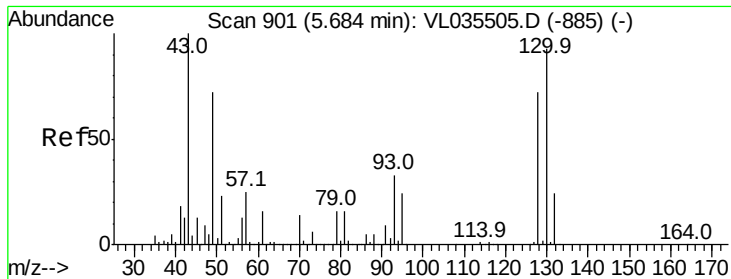
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Manual Integrations
APPROVED

MMDadoda
9/8/2020 4:20:10 PM

Quant Time: Sep 04 07:28:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tot Ion: 49 Resp: 1063328

Ion Ratio Lower Upper

49 100

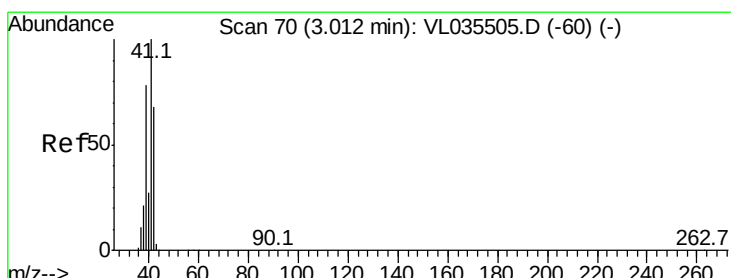
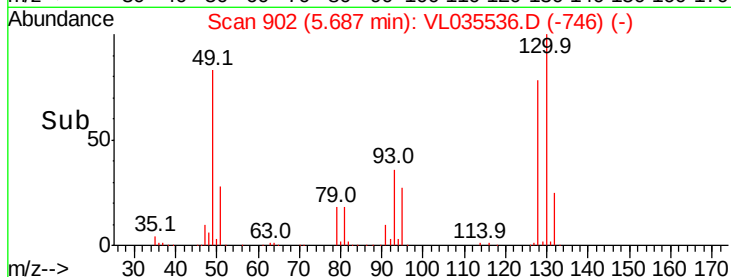
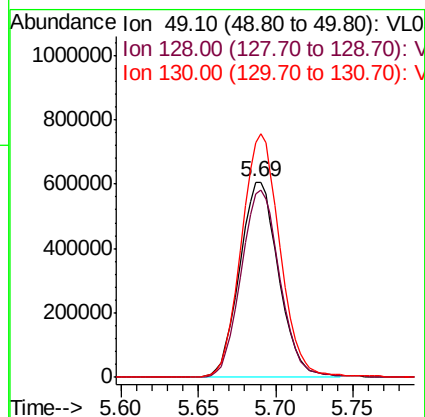
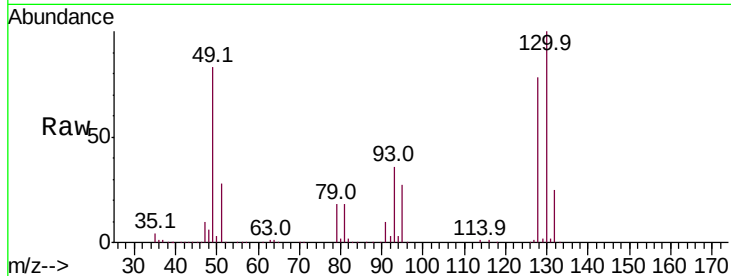
128 96.5 50.0 150.1

130 123.8 64.4 193.2

Manual Integrations
APPROVED

MMDadoda

9/8/2020 4:20:10 PM



#9

Propene

Concen: 1.003 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL035536.D

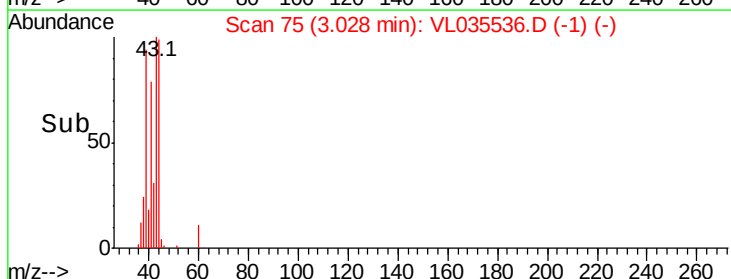
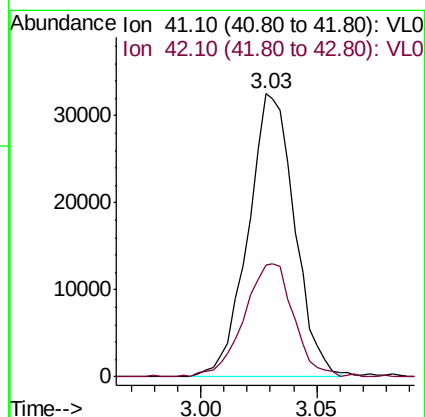
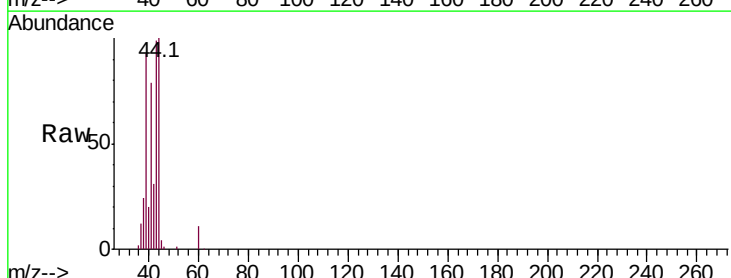
Acq: 3 Sep 2020 18:32

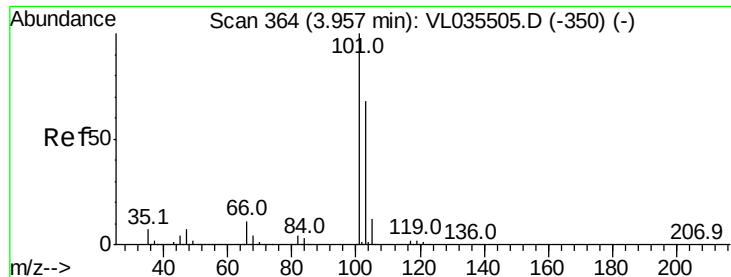
Tgt Ion: 41 Resp: 45476

Ion Ratio Lower Upper

41 100

42 42.8 56.3 84.5#





#11

Trichlorofluoromethane

Concen: 0.149 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion:101 Resp: 40079

Ion Ratio Lower Upper

101 100

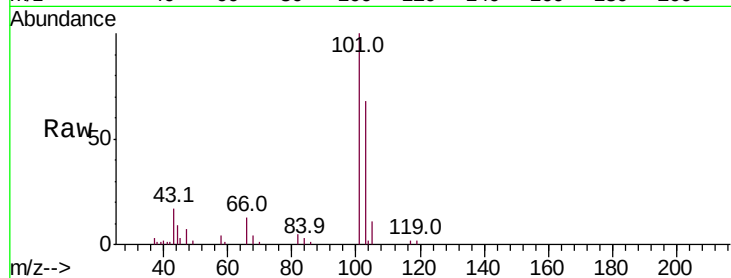
103 66.8 54.5 81.7

Manual Integrations

APPROVED

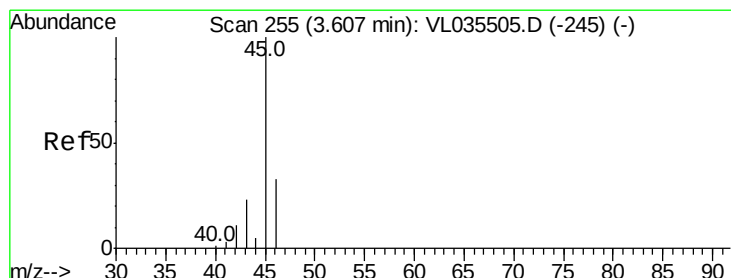
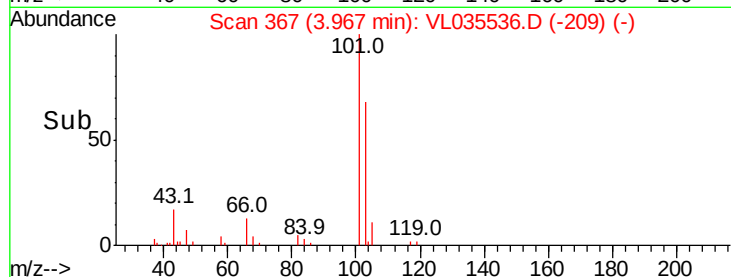
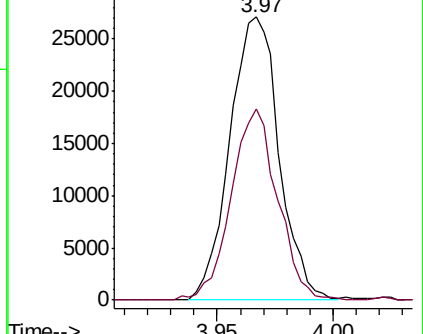
MMDadoda

9/8/2020 4:20:10 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 15.228 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035536.D

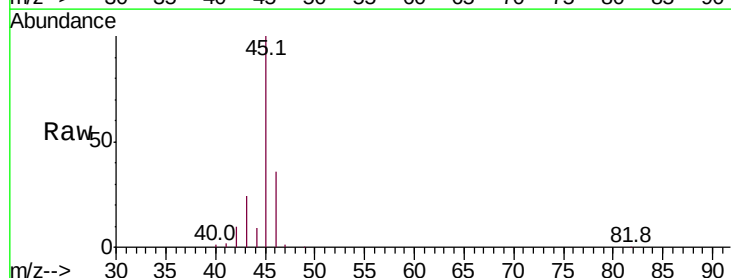
Acq: 3 Sep 2020 18:32

Tgt Ion: 45 Resp: 171175

Ion Ratio Lower Upper

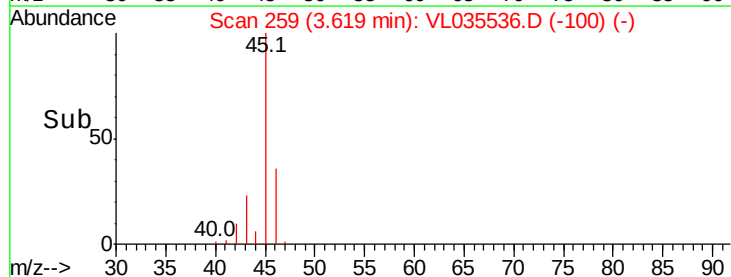
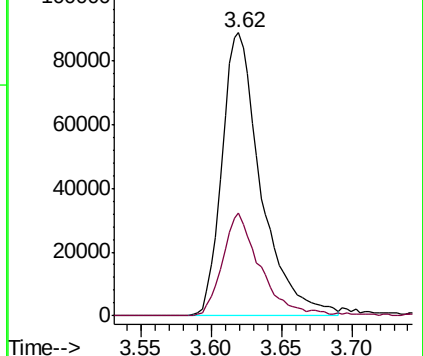
45 100

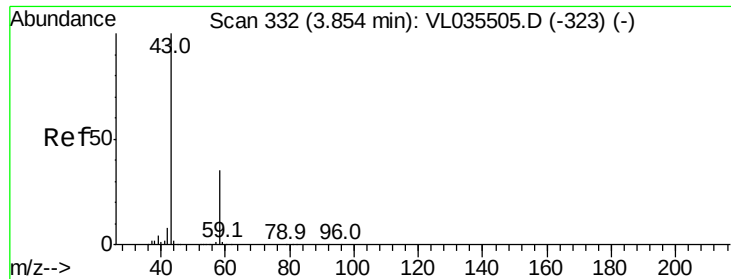
46 35.8 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 17.383 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 43 Resp: 2038616

Ion Ratio Lower Upper

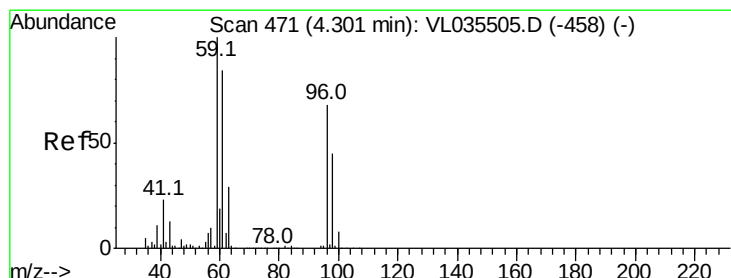
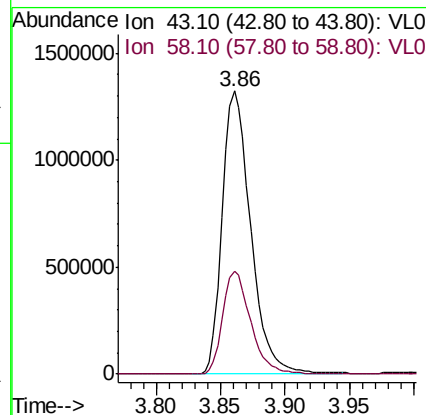
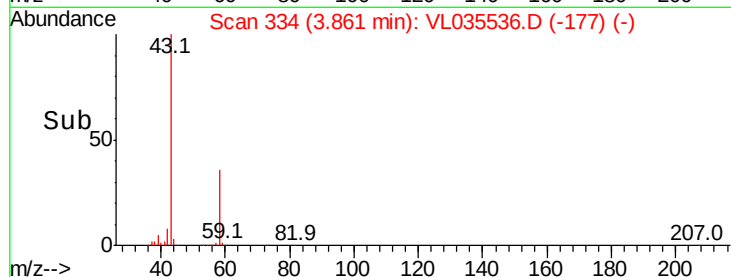
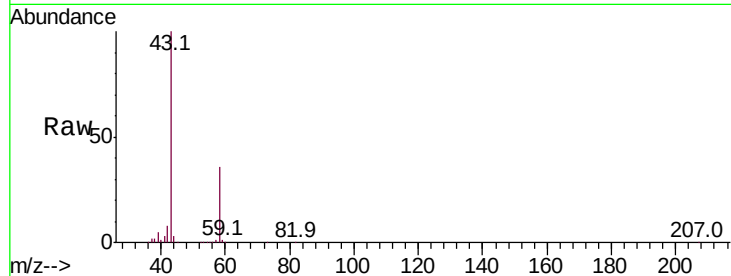
43 100

58 35.9 28.4 42.6

Manual Integrations
APPROVED

MMDadoda

9/8/2020 4:20:10 PM



#17

tert-Butyl alcohol

Concen: 0.225 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. 0.03 min

Lab File: VL035536.D

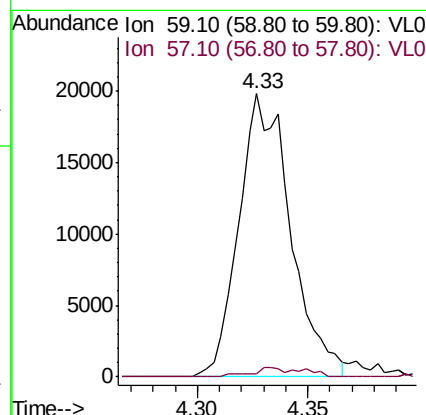
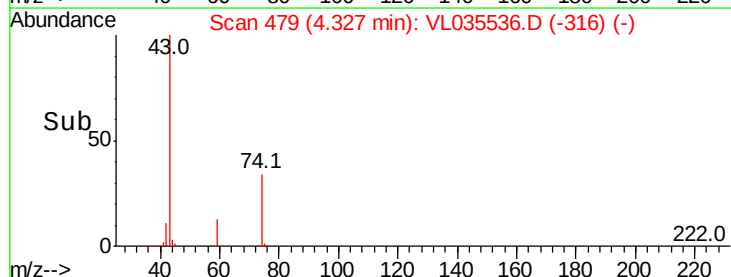
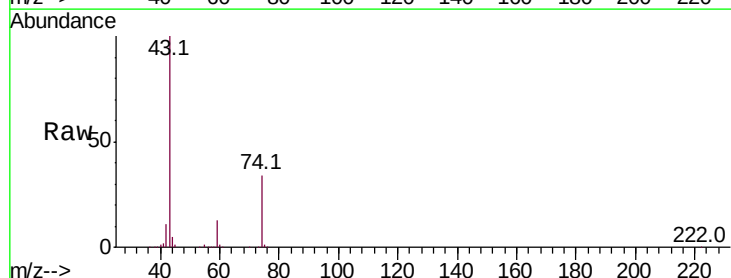
Acq: 3 Sep 2020 18:32

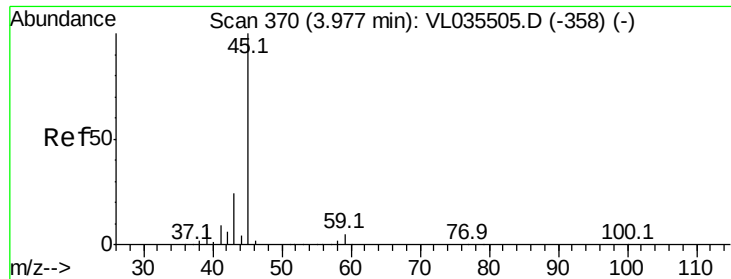
Tgt Ion: 59 Resp: 32105

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.807 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tot Ion: 45 Resp: 56459

Ion Ratio Lower Upper

45 100

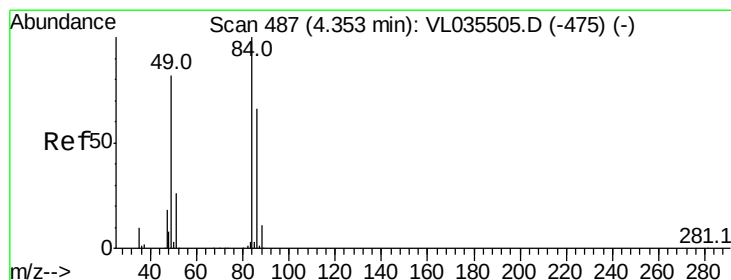
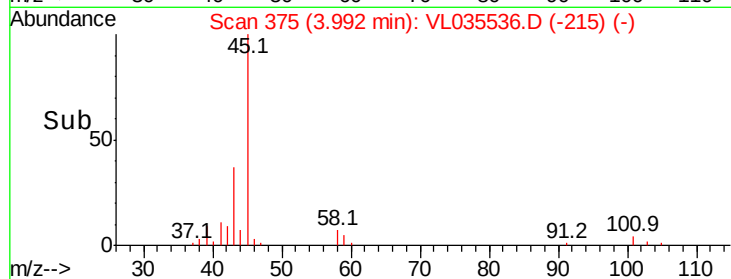
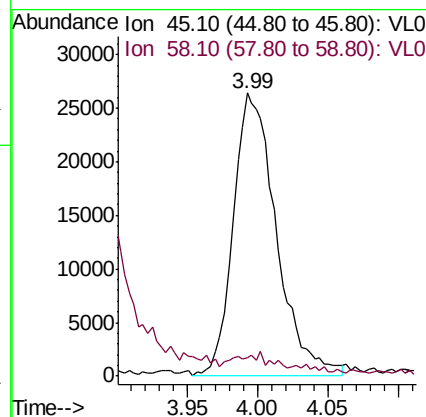
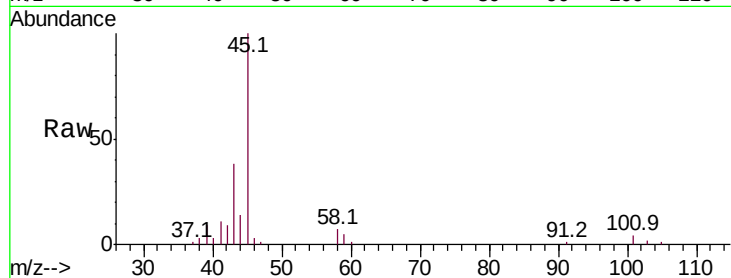
58 0.0 2.0 3.0#

Manual Integrations

APPROVED

MMDadoda

9/8/2020 4:20:10 PM



#20

Methylene Chloride

Concen: 0.555 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Tgt Ion: 84 Resp: 48445

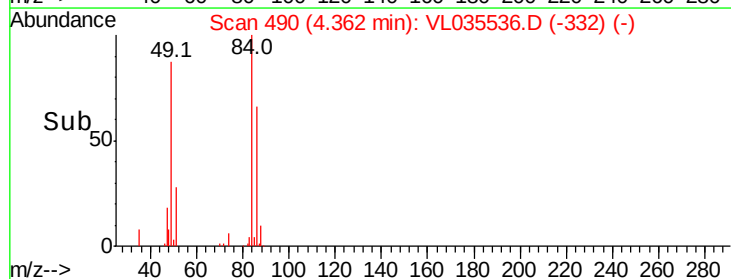
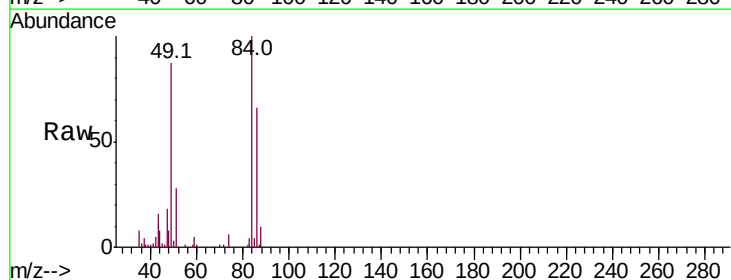
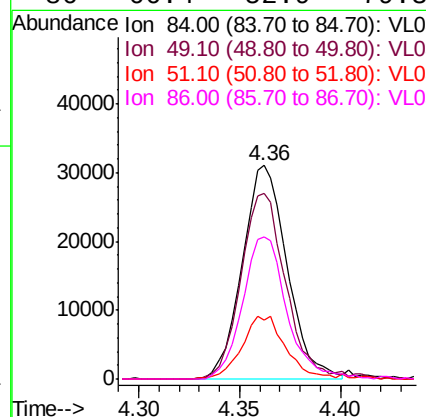
Ion Ratio Lower Upper

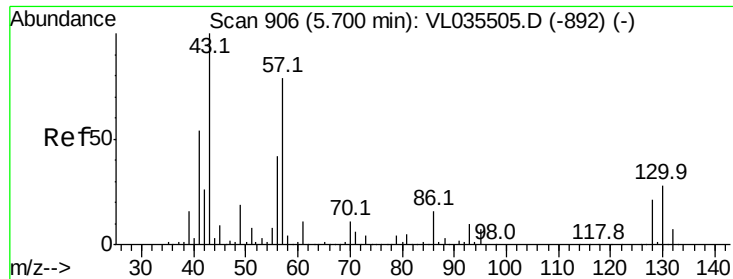
84 100

49 87.0 65.4 98.0

51 27.5 21.5 32.3

86 66.4 52.9 79.3





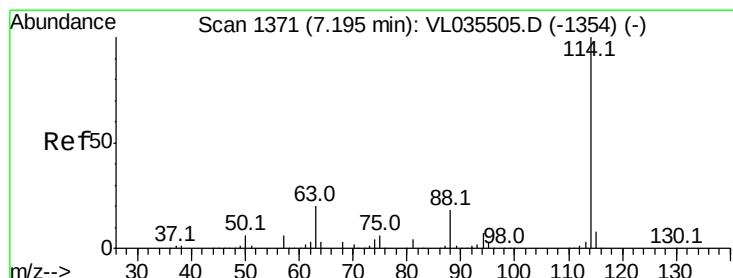
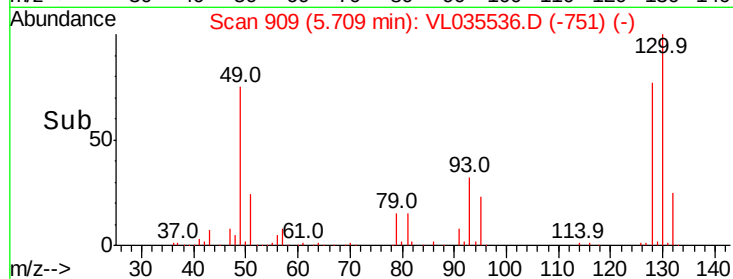
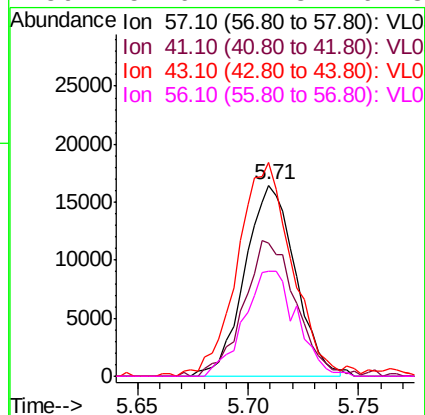
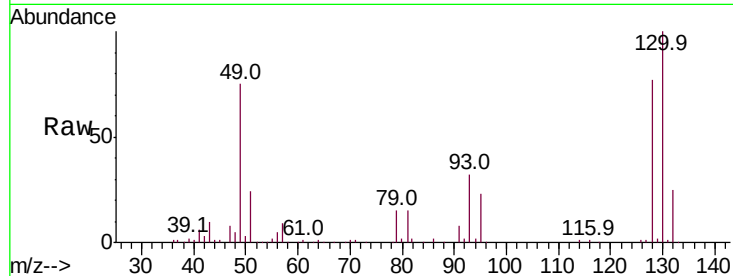
#26
Hexane
Concen: 0.223 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion: 57 Resp: 26185
Ion Ratio Lower Upper
57 100
41 74.4 55.9 83.9
43 121.5 141.8 212.8#
56 57.6 41.8 62.8

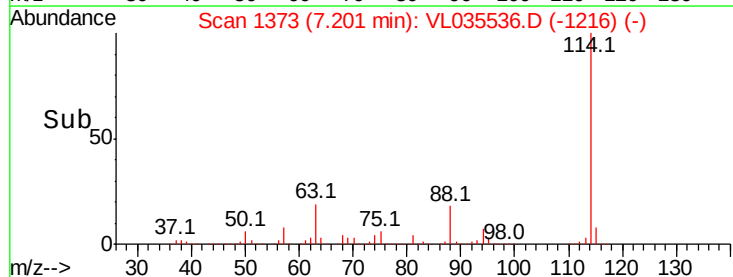
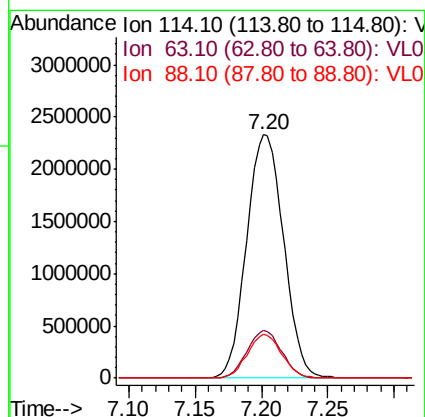
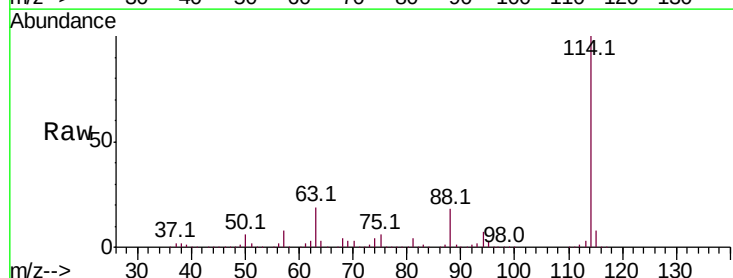
Manual Integrations
APPROVED

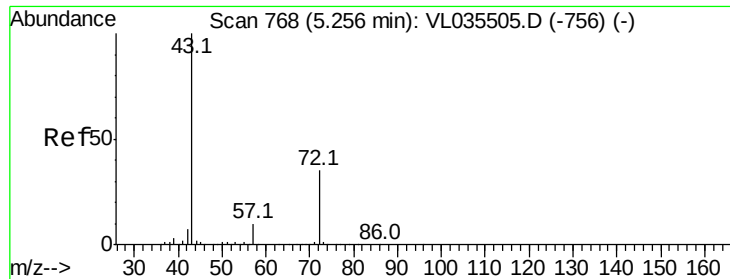
MMDadoda
9/8/2020 4:20:10 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1373
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Tgt Ion:114 Resp: 4515849
Ion Ratio Lower Upper
114 100
63 18.4 14.7 22.1
88 16.8 13.4 20.2





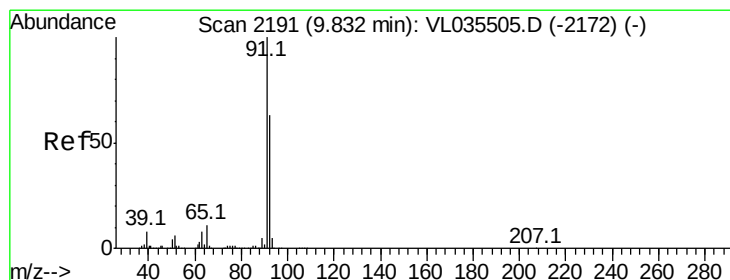
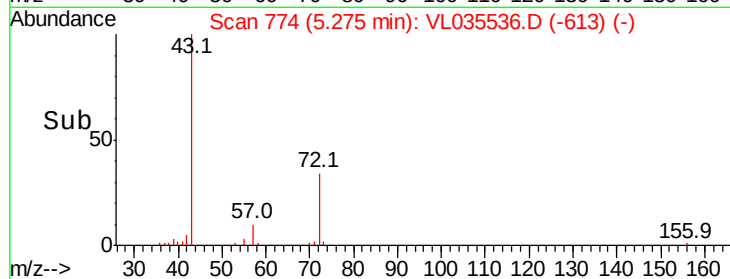
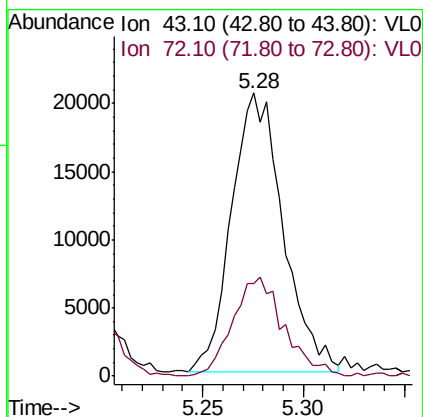
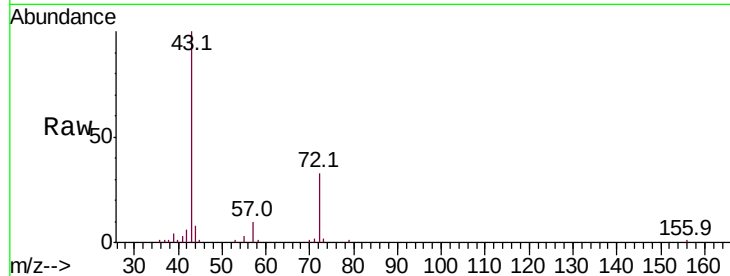
#34
2-Butanone
Concen: 0.274 ppbv
RT: 5.28 min Scan# 774
Delta R.T. 0.02 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tot Ion	43	Ratio	100	Resp	36685
Ion	43	100		Lower	Upper
	72	35.3		27.7	41.5

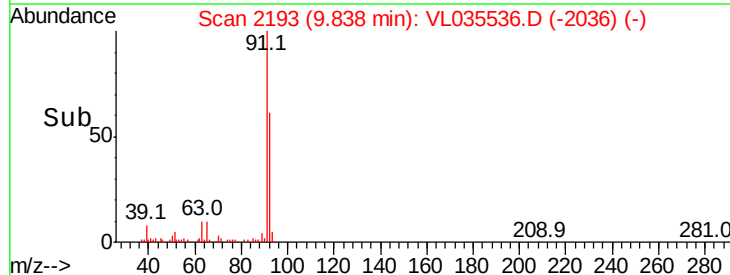
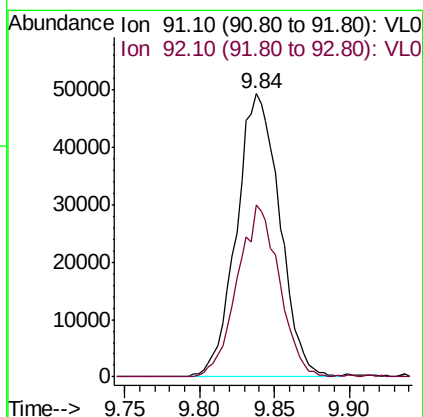
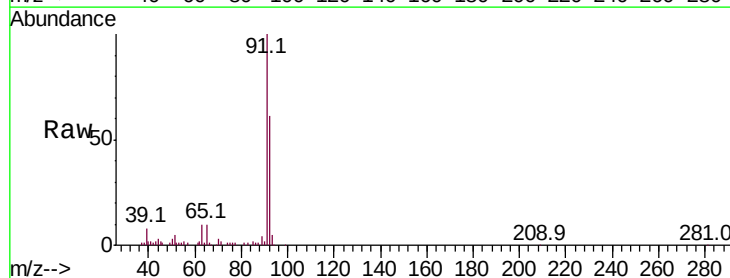
Manual Integrations
APPROVED

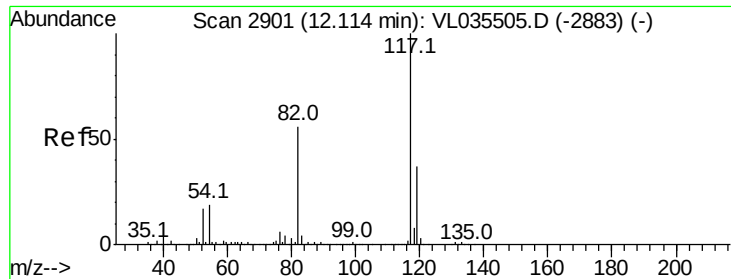
MMDadoda
9/8/2020 4:20:10 PM



#53
Toluene
Concen: 0.270 ppbv
RT: 9.84 min Scan# 2193
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Tgt Ion	91	Ratio	100	Resp	99355
Ion	91	100		Lower	Upper
	92	59.1		49.8	74.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tot Ion:117 Resp: 4509791

Ion Ratio Lower Upper

117 100

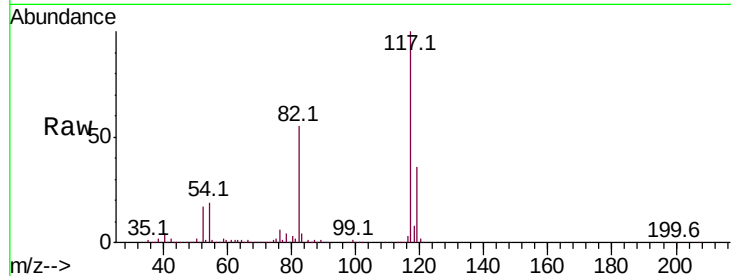
82 54.8 41.6 62.4

119 35.0 29.3 43.9

Manual Integrations
APPROVED

MMDadoda

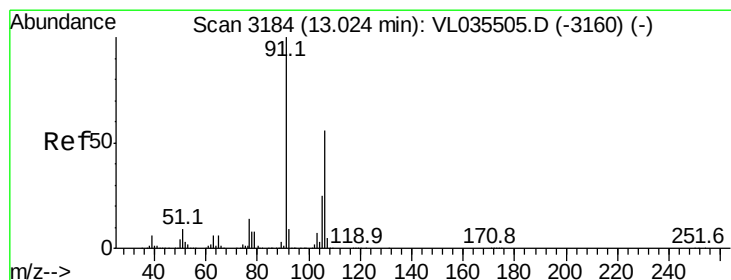
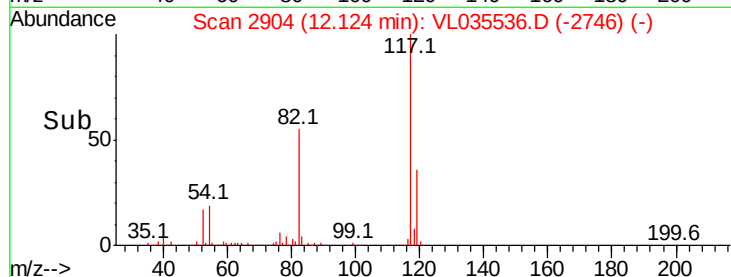
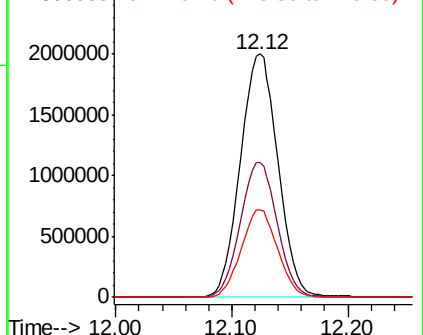
9/8/2020 4:20:10 PM



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



#59

m/p-Xylene

Concen: 0.152 ppbv m

RT: 13.00 min Scan# 3178

Delta R.T. -0.02 min

Lab File: VL035536.D

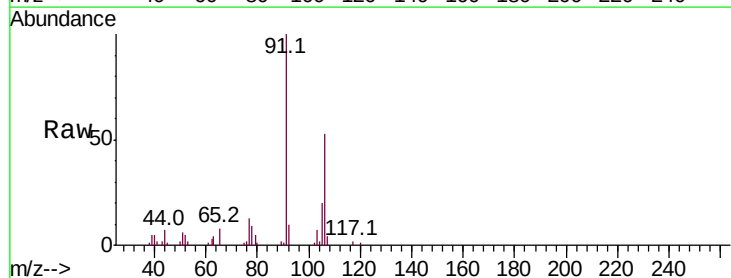
Acq: 3 Sep 2020 18:32

Tgt Ion: 91 Resp: 59019

Ion Ratio Lower Upper

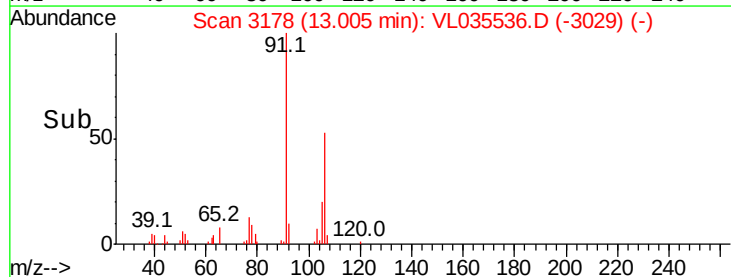
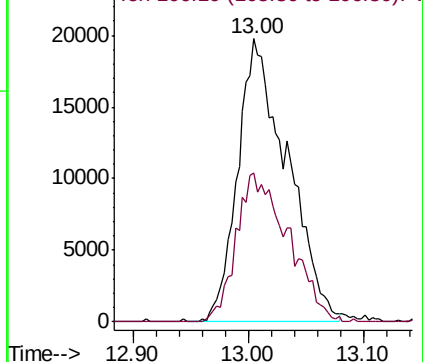
91 100

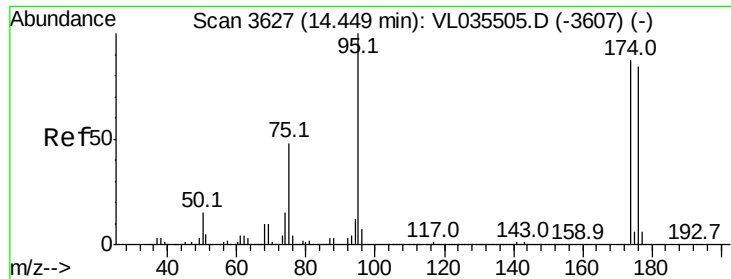
106 0.0 43.4 65.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





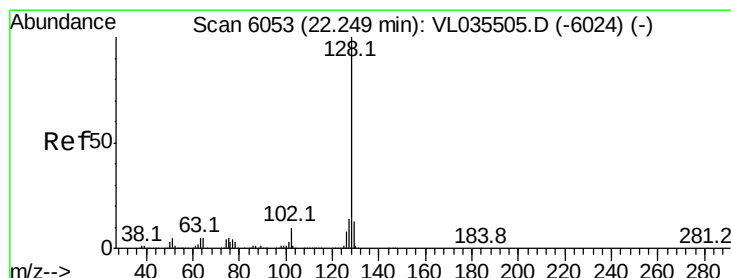
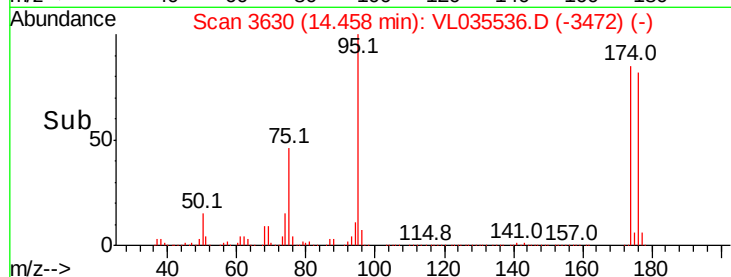
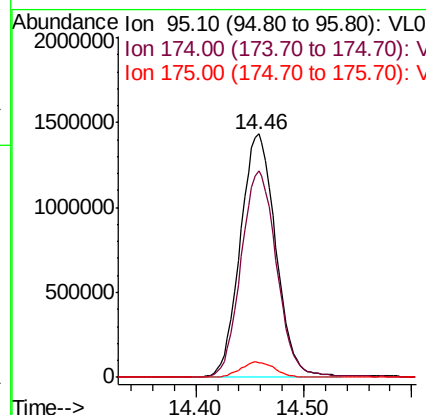
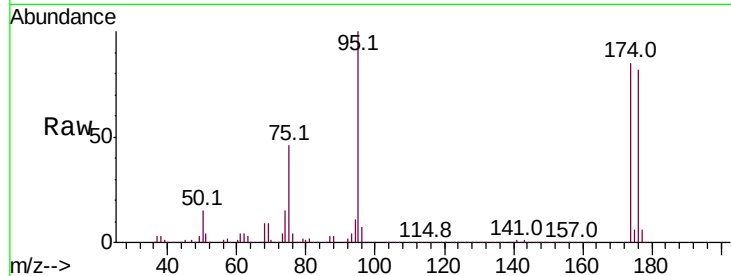
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.261 ppbv
 RT: 14.46 min Scan# 3630
 Delta R.T. 0.01 min
 Lab File: VL035536.D
 Acq: 3 Sep 2020 18:32

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	86.0	69.6	104.4
175	6.2	5.1	7.7

Manual Integrations
 APPROVED

MMDadoda
 9/8/2020 4:20:10 PM



#79
 Naphthalene
 Concen: 0.215 ppbv m
 RT: 22.27 min Scan# 6060
 Delta R.T. 0.02 min
 Lab File: VL035536.D
 Acq: 3 Sep 2020 18:32

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	11.4	17.2
129	11.1	10.5	15.7

