

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037087.D
 Acq On : 2 Jun 2021 2:13
 Operator : SY/AP
 Sample : M2548-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 03:04:52 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 12:00:15 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	1463171	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4416932	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3979653	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2914558	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

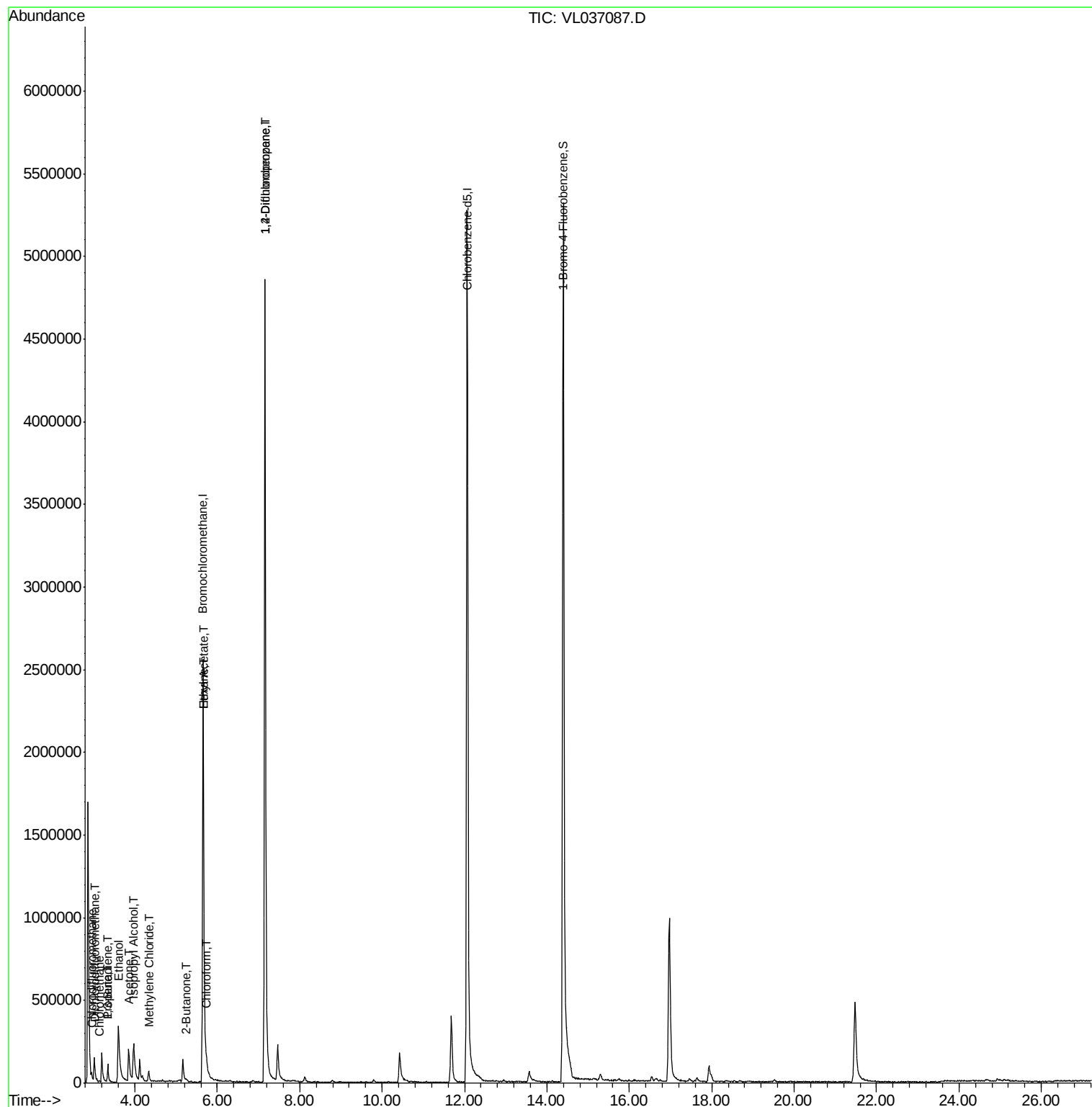
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	11820	0.048 ppbv	91
3) Chlorodifluoromethane	2.95	51	37415	0.140 ppbv #	69
4) Chloromethane	3.13	50	5828	0.064 ppbv #	79
9) Propene	3.34	41	26504	0.276 ppbv	86
13) Ethanol	3.60	45	596575	46.582 ppbv	94
15) Acetone	3.85	43	259361	1.731 ppbv #	87
16) 1,3-Butadiene	3.35	39	14441	0.155 ppbv #	13
19) Isopropyl Alcohol	3.97	45	356863	4.430 ppbv #	40
20) Methylene Chloride	4.33	84	24490	0.305 ppbv	94
25) Ethyl Acetate	5.67	43	11088	0.031 ppbv #	79
26) Hexane	5.67	57	6536	0.036 ppbv #	32
29) Chloroform	5.74	83	21205	0.082 ppbv	98
34) 2-Butanone	5.24	43	9489	0.059 ppbv #	9
39) 1,2-Dichloropropane	7.15	63	1038352	7.085 ppbv #	27

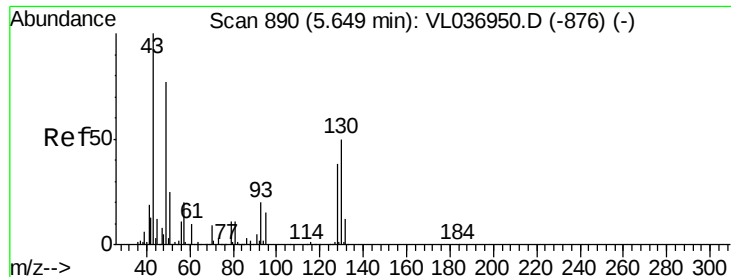
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Instrument :

MSVOA_L

ClientSampleId :

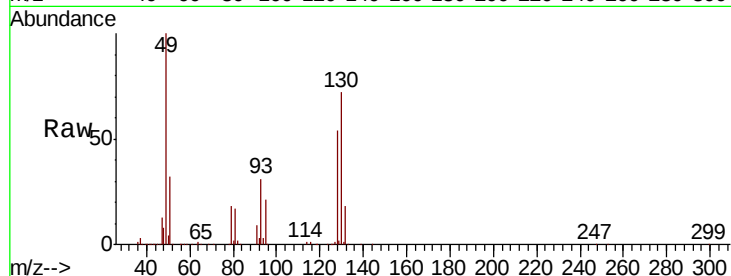
Tot Ion: 49 Resp: 1463171

Ion Ratio Lower Upper

49 100

128 58.2 26.9 80.7

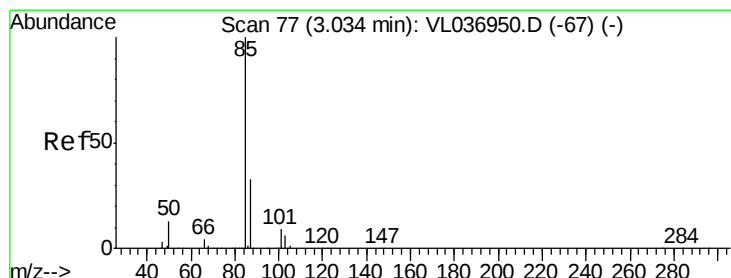
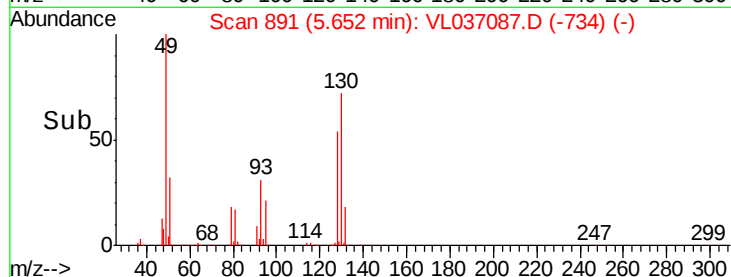
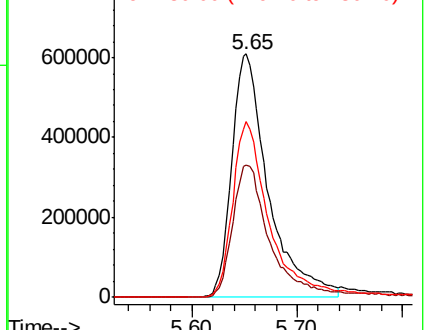
130 75.6 33.8 101.4



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



#2

Dichlorodifluoromethane

Concen: 0.048 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL037087.D

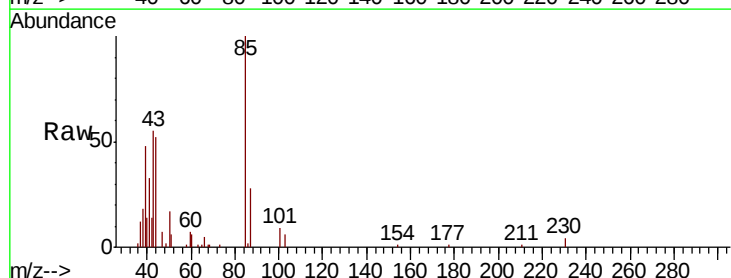
Acq: 2 Jun 2021 2:13

Tgt Ion: 85 Resp: 11820

Ion Ratio Lower Upper

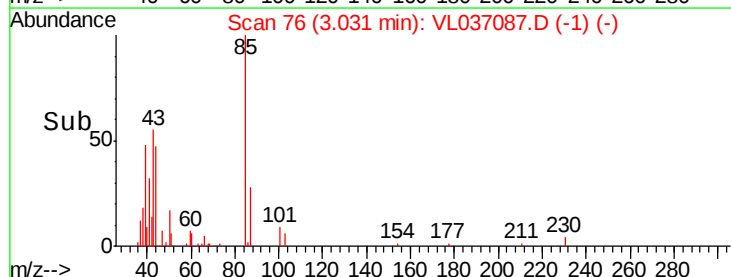
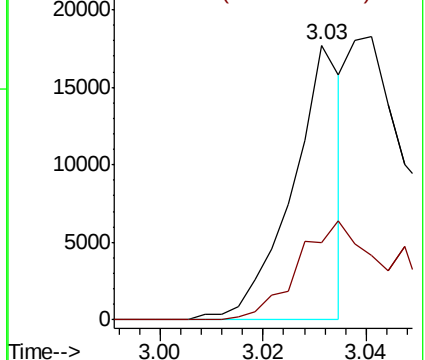
85 100

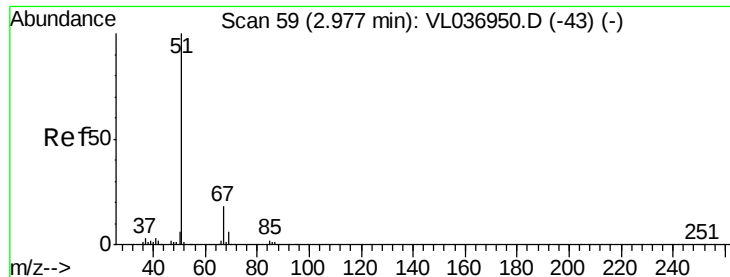
87 28.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.140 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.03 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Instrument :

MSVOA_L

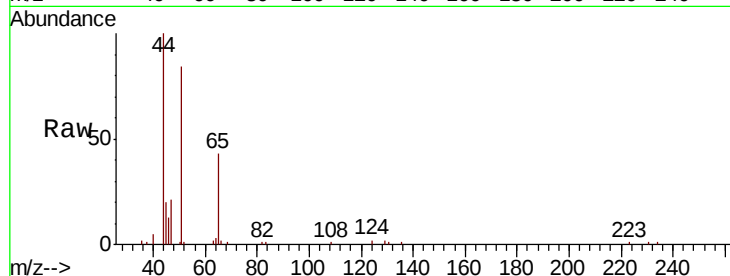
ClientSampleId :

Tot Ion: 51 Resp: 37415

Ion Ratio Lower Upper

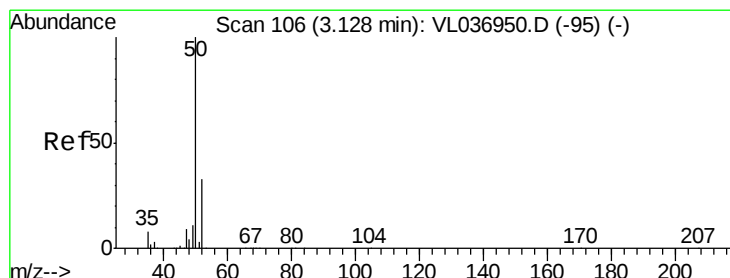
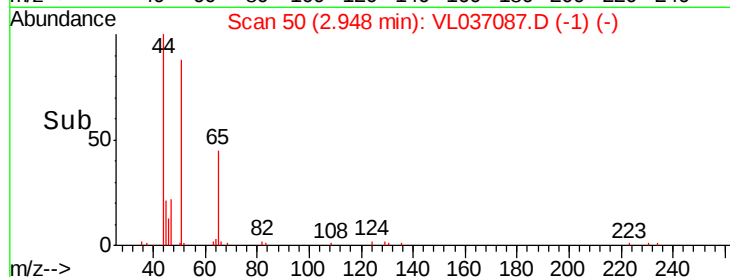
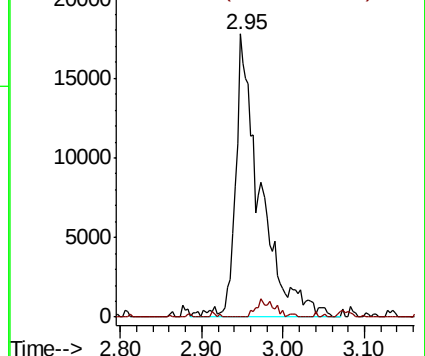
51 100

67 4.5 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.064 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037087.D

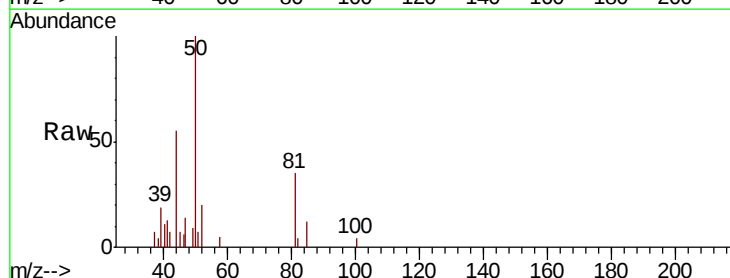
Acq: 2 Jun 2021 2:13

Tgt Ion: 50 Resp: 5828

Ion Ratio Lower Upper

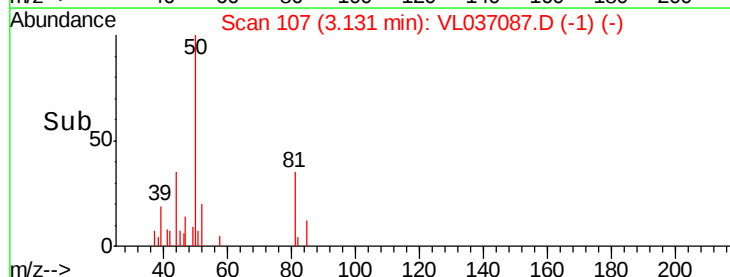
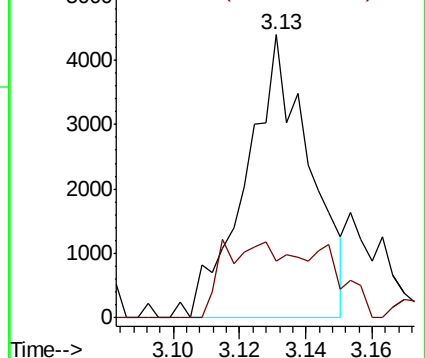
50 100

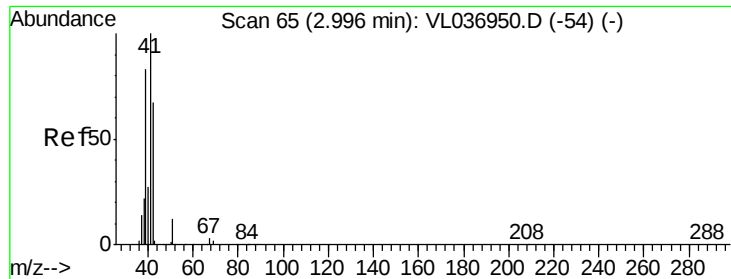
52 21.0 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.276 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.35 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Instrument :

MSVOA_L

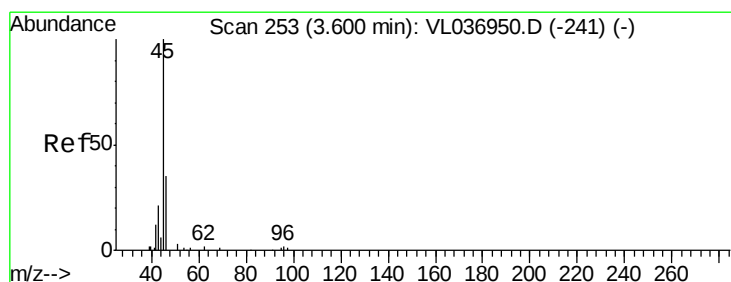
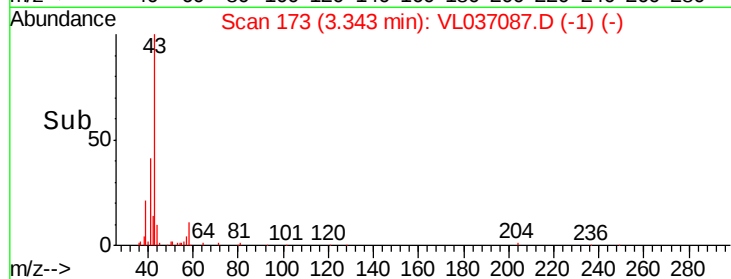
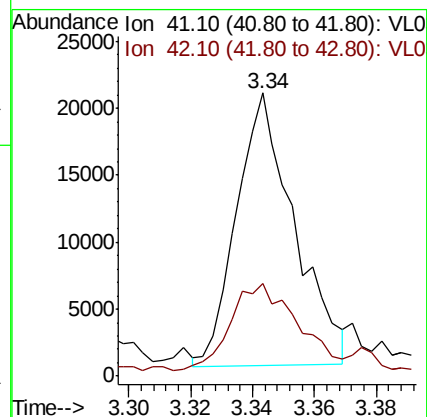
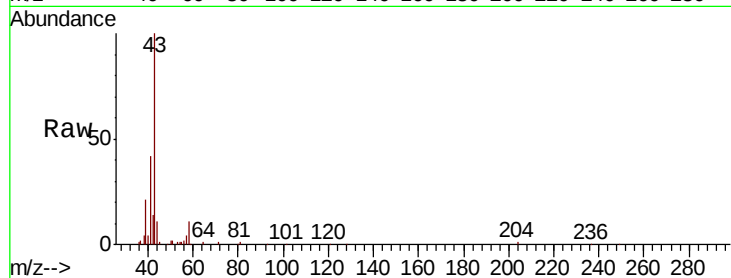
ClientSampleId :

Tot Ion: 41 Resp: 26504

Ion Ratio Lower Upper

41 100

42 56.4 53.9 80.9



#13

Ethanol

Concen: 46.582 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037087.D

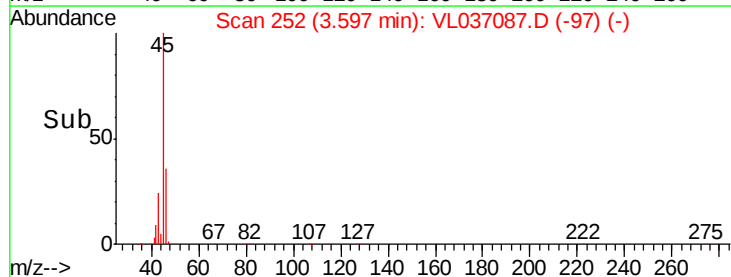
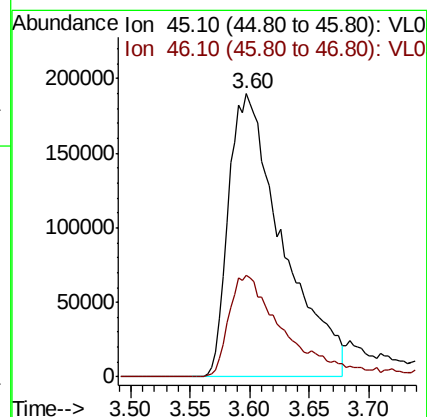
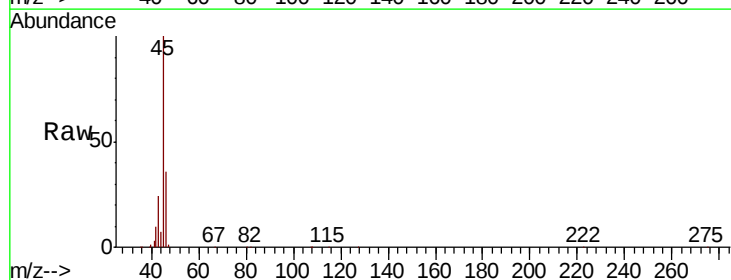
Acq: 2 Jun 2021 2:13

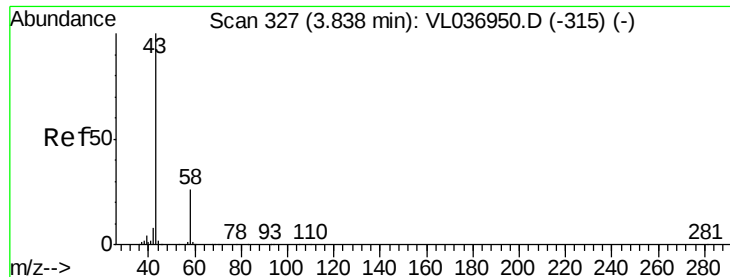
Tgt Ion: 45 Resp: 596575

Ion Ratio Lower Upper

45 100

46 36.9 16.3 65.3





#15

Acetone

Concen: 1.731 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Instrument :

MSVOA_L

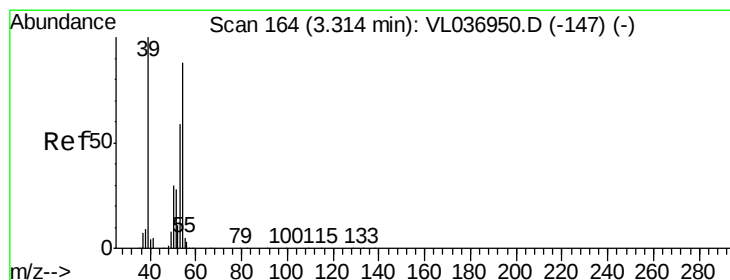
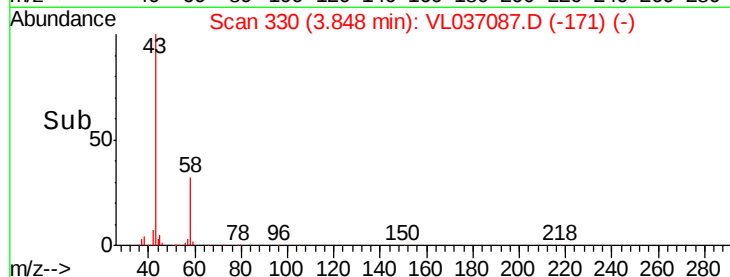
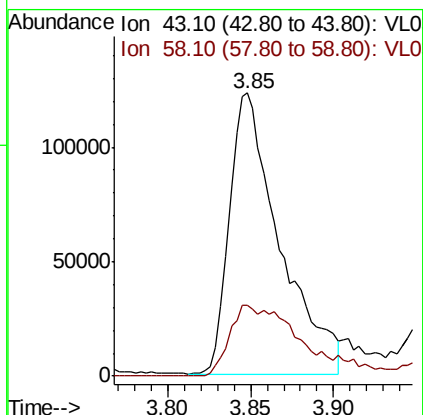
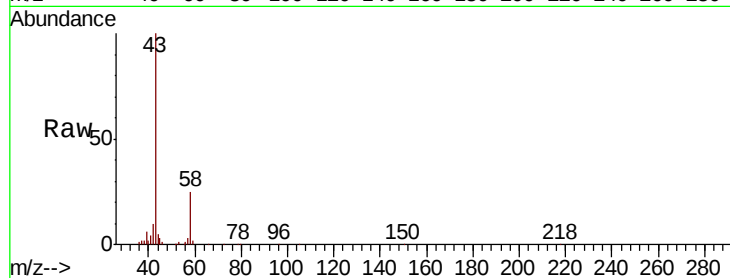
ClientSampleId :

Tot Ion: 43 Resp: 259361

Ion Ratio Lower Upper

43 100

58 37.1 24.0 36.0#



#16

1,3-Butadiene

Concen: 0.155 ppbv

RT: 3.35 min Scan# 174

Delta R.T. 0.03 min

Lab File: VL037087.D

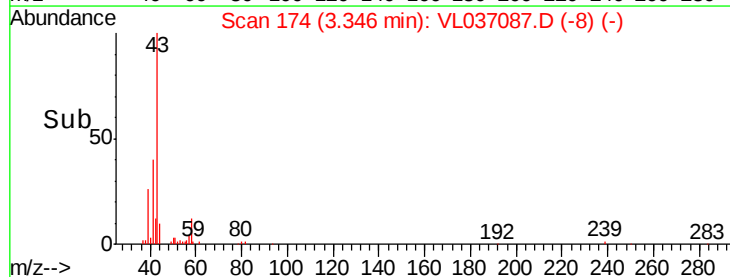
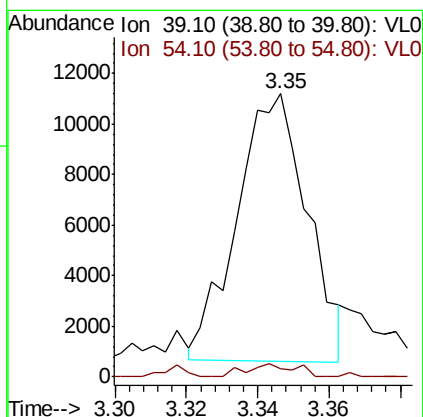
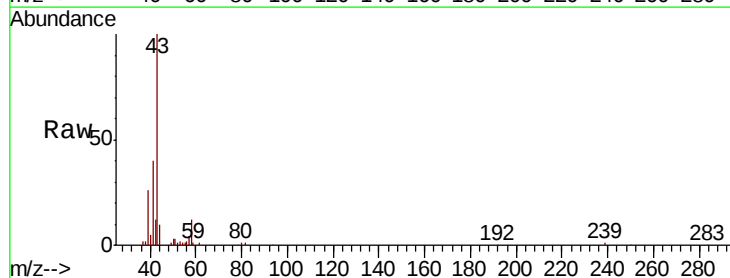
Acq: 2 Jun 2021 2:13

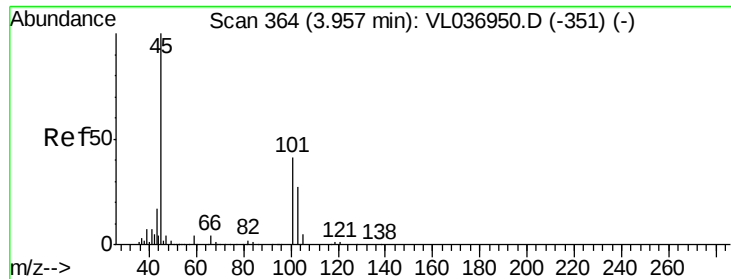
Tgt Ion: 39 Resp: 14441

Ion Ratio Lower Upper

39 100

54 2.9 63.2 94.8#



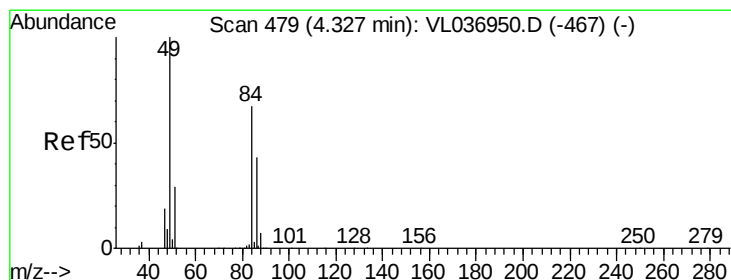
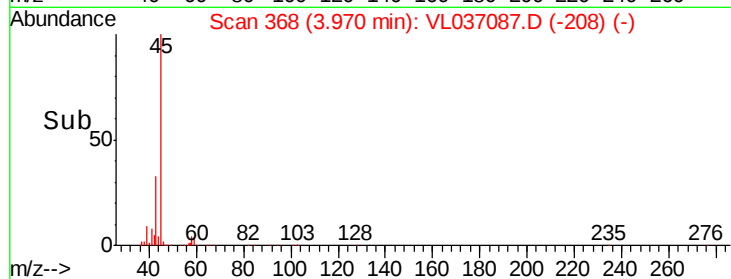
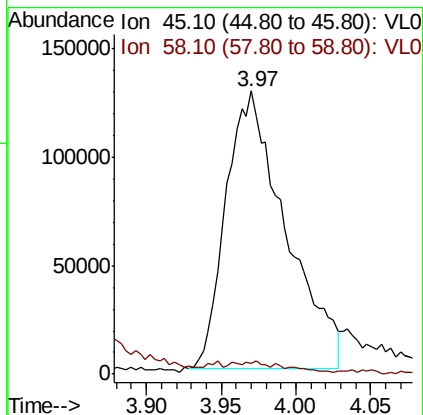
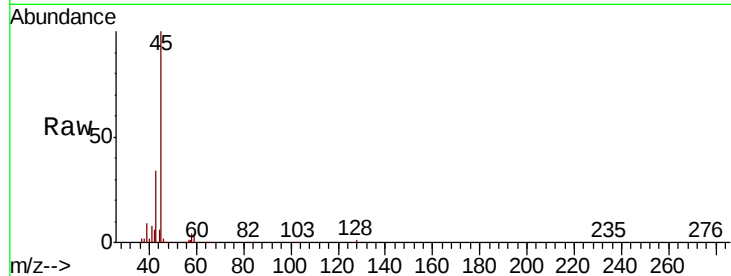


#19

Isopropyl Alcohol
 Concen: 4.430 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL037087.D
 Acq: 2 Jun 2021 2:13

Instrument :
 MSVOA_L
 ClientSampled :

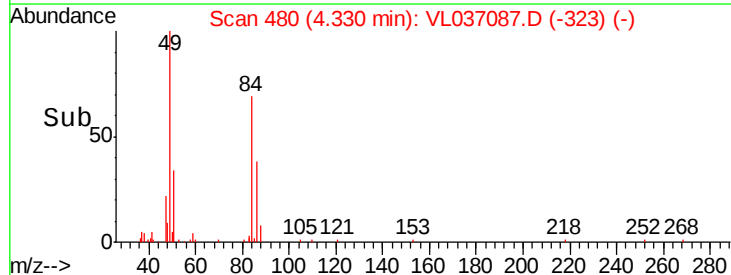
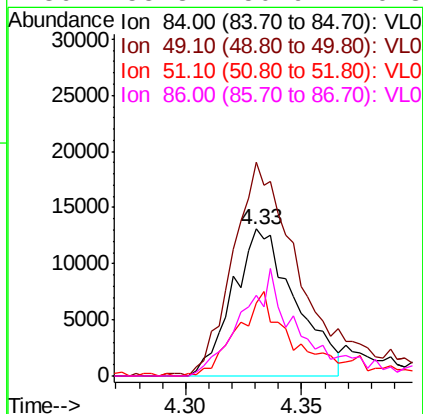
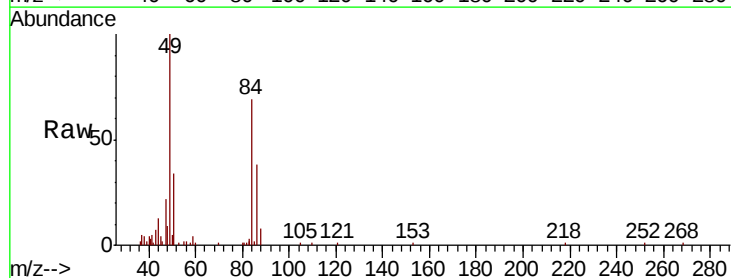
Tot Ion: 45 Resp: 356863
 Ion Ratio Lower Upper
 45 100
 58 6.3 37.2 55.8#

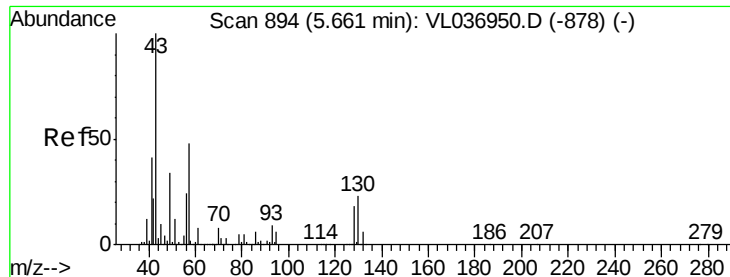


#20

Methylene Chloride
 Concen: 0.305 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL037087.D
 Acq: 2 Jun 2021 2:13

Tgt Ion: 84 Resp: 24490
 Ion Ratio Lower Upper
 84 100
 49 145.6 119.8 179.6
 51 48.1 35.1 52.7
 86 55.3 50.9 76.3





#25

Ethyl Acetate

Concen: 0.031 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 11088

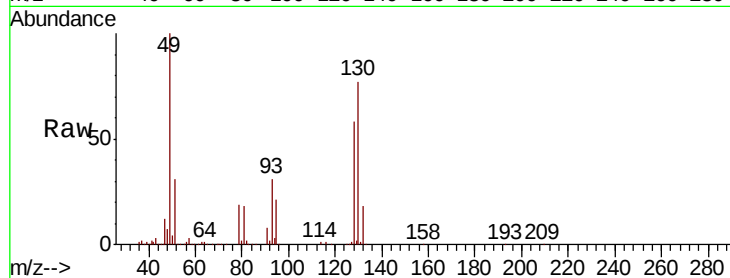
Ion Ratio Lower Upper

43 100

45 19.1 7.8 11.8#

61 3.8 7.8 11.8#

70 0.0 5.6 8.4#

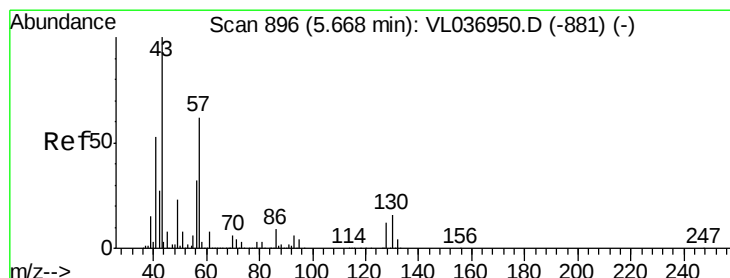
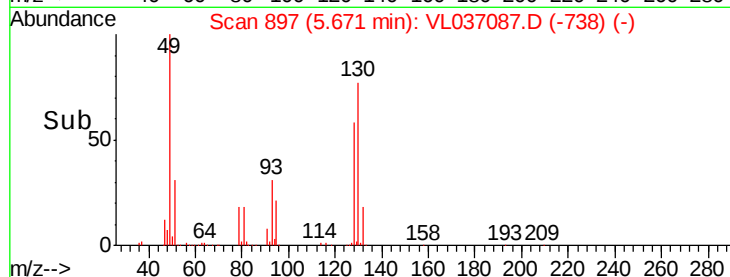
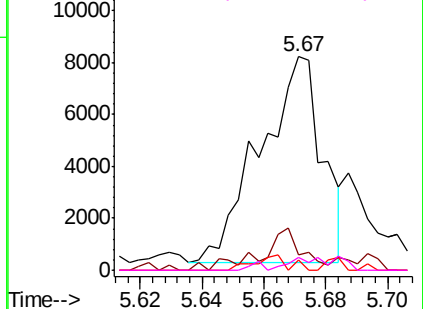


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.036 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Tgt Ion: 57 Resp: 6536

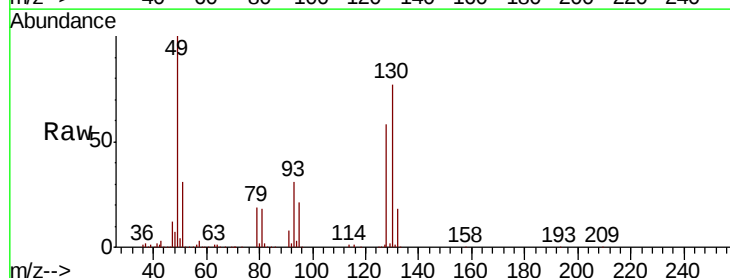
Ion Ratio Lower Upper

57 100

41 214.4 70.5 105.7#

43 259.1 165.8 248.8#

56 117.7 42.2 63.4#

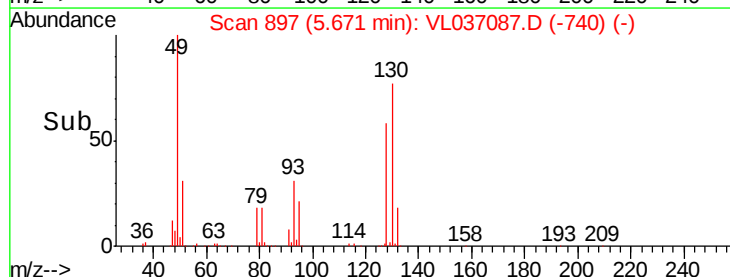
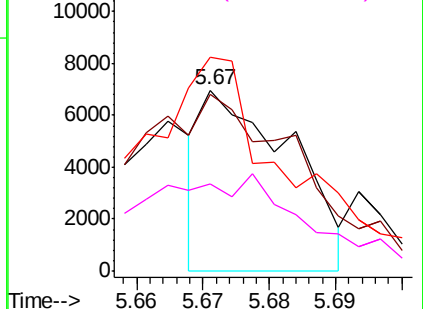


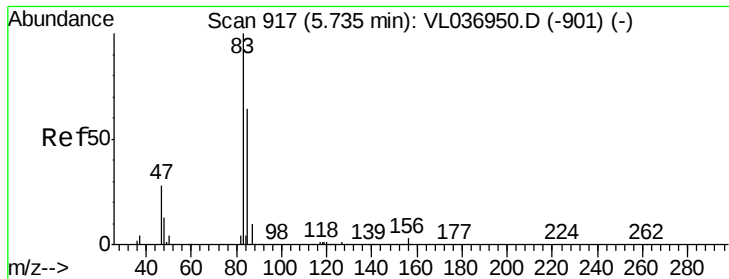
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#29

Chloroform

Concen: 0.082 ppbv

RT: 5.74 min Scan# 918

Delta R.T. 0.00 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Instrument :

MSVOA_L

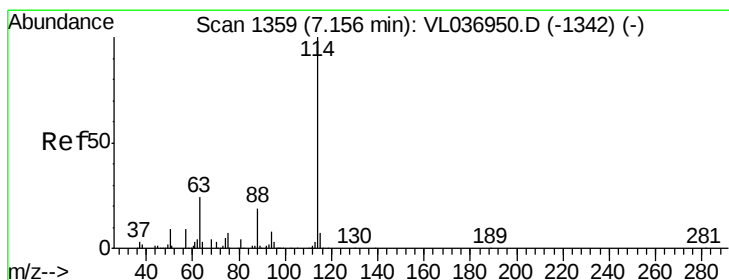
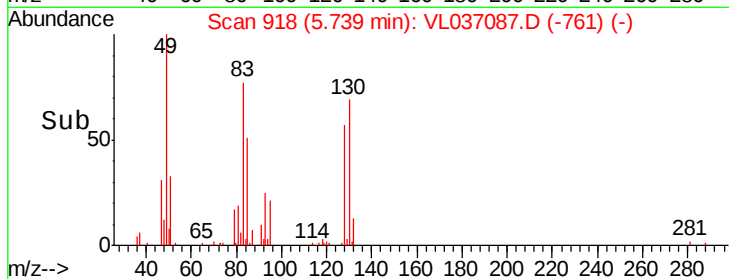
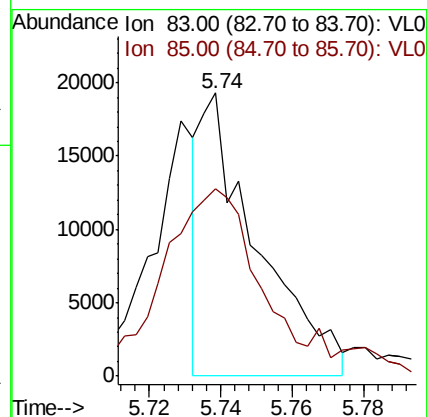
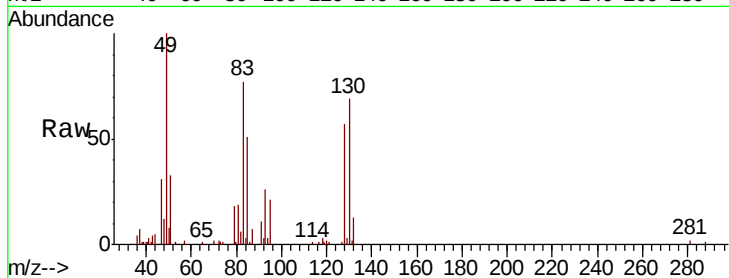
ClientSampleId :

Tot Ion: 83 Resp: 21205

Ion Ratio Lower Upper

83 100

85 62.1 51.1 76.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

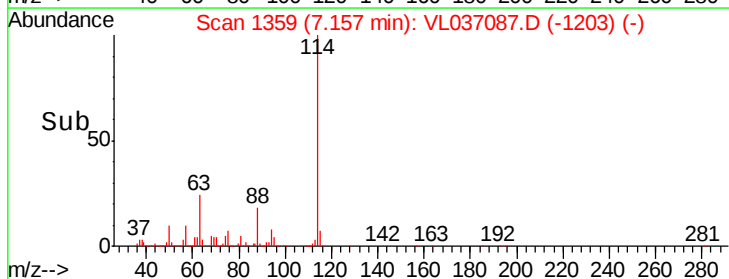
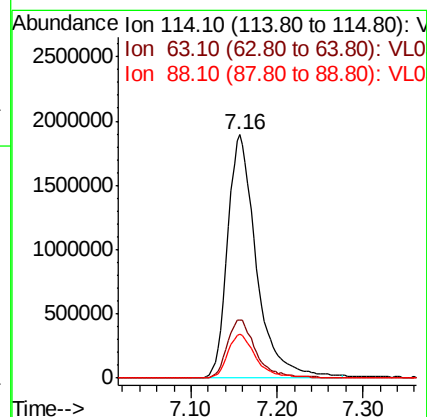
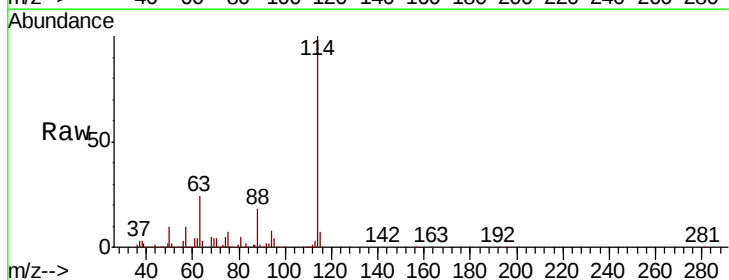
Tgt Ion: 114 Resp: 4416932

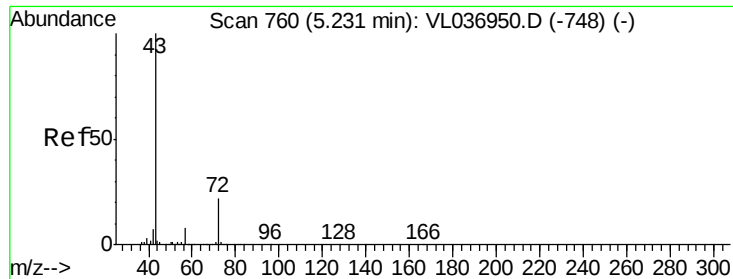
Ion Ratio Lower Upper

114 100

63 24.1 19.6 29.4

88 18.0 14.6 21.8

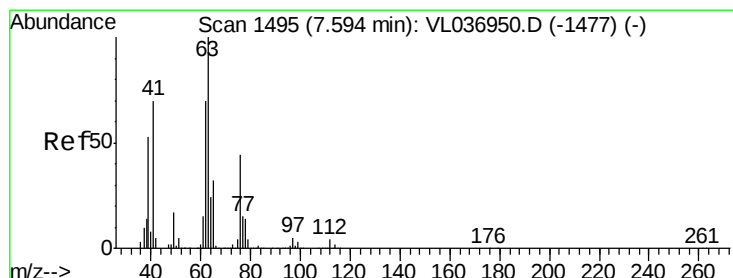
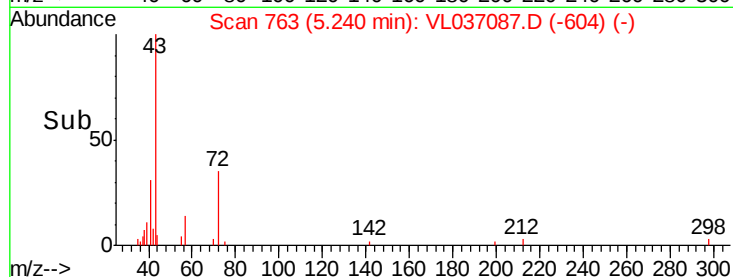
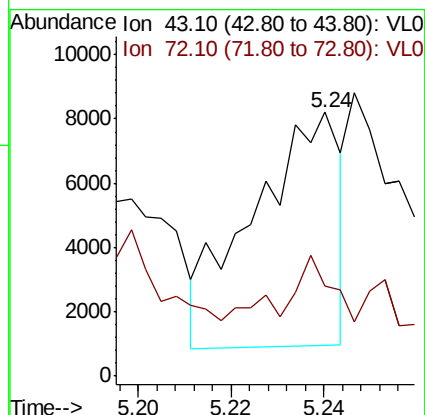
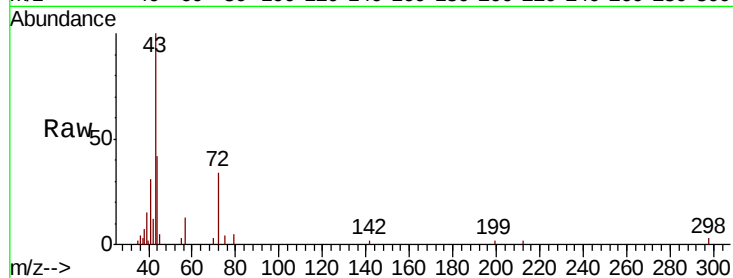




#34
2-Butanone
Concen: 0.059 ppbv
RT: 5.24 min Scan# 763
Delta R.T. 0.01 min
Lab File: VL037087.D
Acq: 2 Jun 2021 2:13

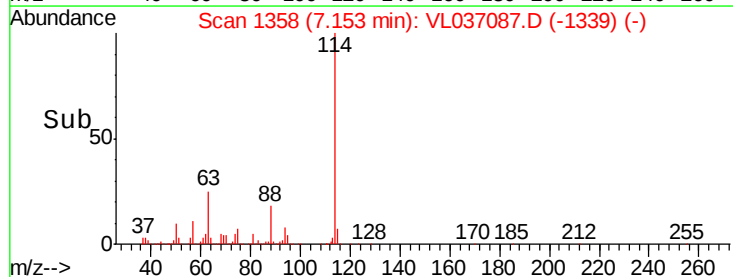
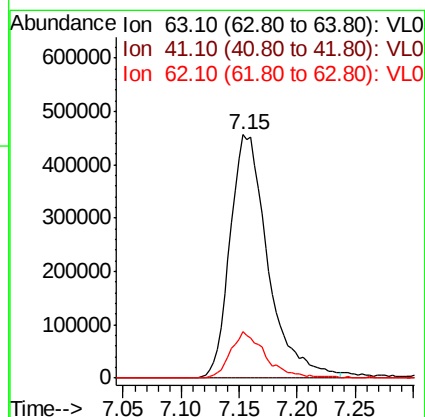
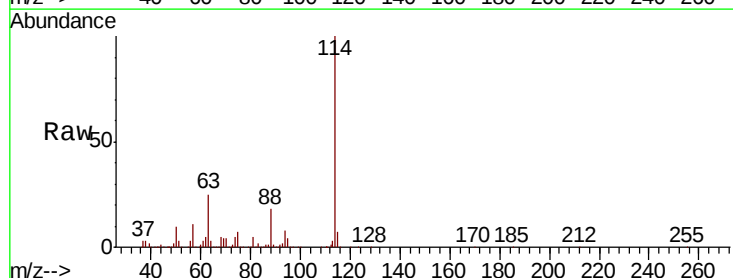
Instrument :
MSVOA_L
ClientSampled :

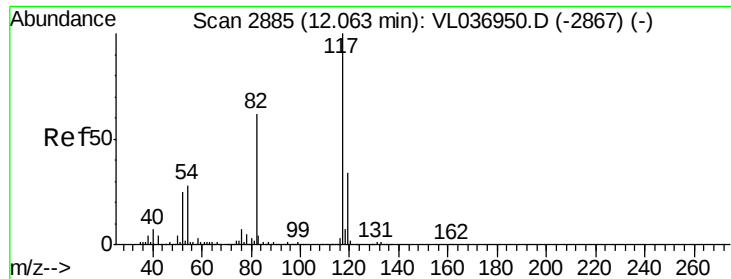
Tot Ion: 43 Resp: 9489
Ion Ratio Lower Upper
43 100
72 68.5 19.0 28.4#



#39
1,2-Dichloropropane
Concen: 7.085 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.44 min
Lab File: VL037087.D
Acq: 2 Jun 2021 2:13

Tgt Ion: 63 Resp: 1038352
Ion Ratio Lower Upper
63 100
41 0.0 55.7 83.5#
62 19.3 56.2 84.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

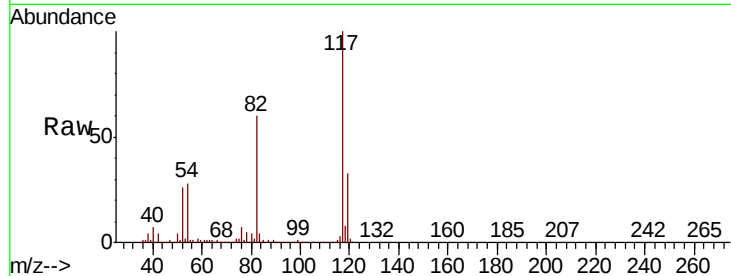
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:117 Resp: 3979653

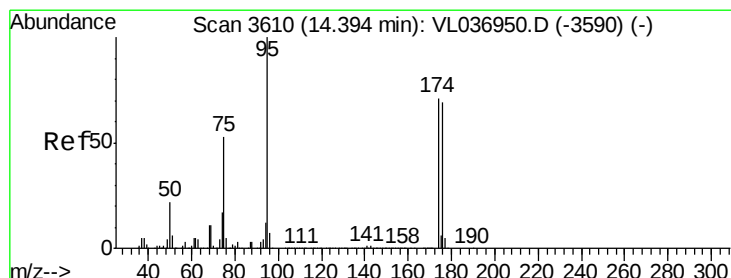
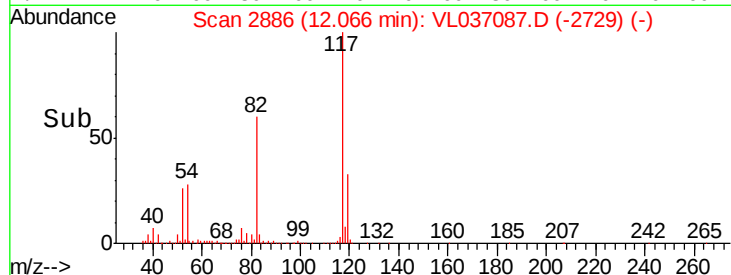
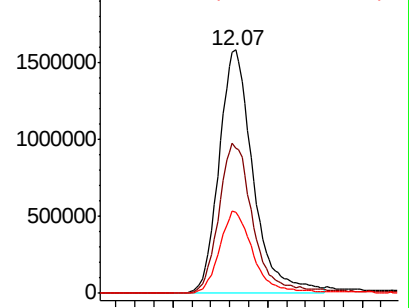
Ion	Ratio	Lower	Upper
117	100		
82	64.2	52.6	79.0
119	34.0	46.6	70.0#



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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.749 ppbv

RT: 14.40 min Scan# 3611

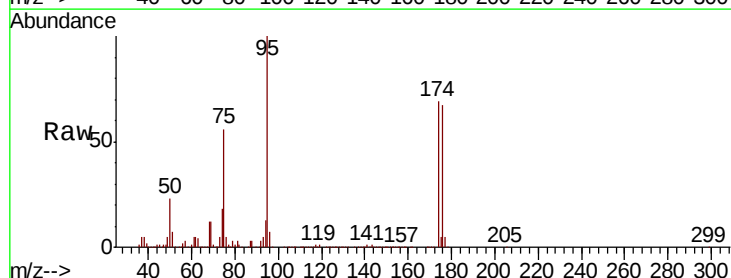
Delta R.T. 0.00 min

Lab File: VL037087.D

Acq: 2 Jun 2021 2:13

Tgt Ion: 95 Resp: 2914558

Ion	Ratio	Lower	Upper
95	100		
174	76.3	58.4	87.6
175	5.6	4.4	6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

