

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036333.D
 Acq On : 11 Feb 2021 1:13
 Operator : SY/AP
 Sample : M1343-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 06:13:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1693409	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3701105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3414861	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2760389	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

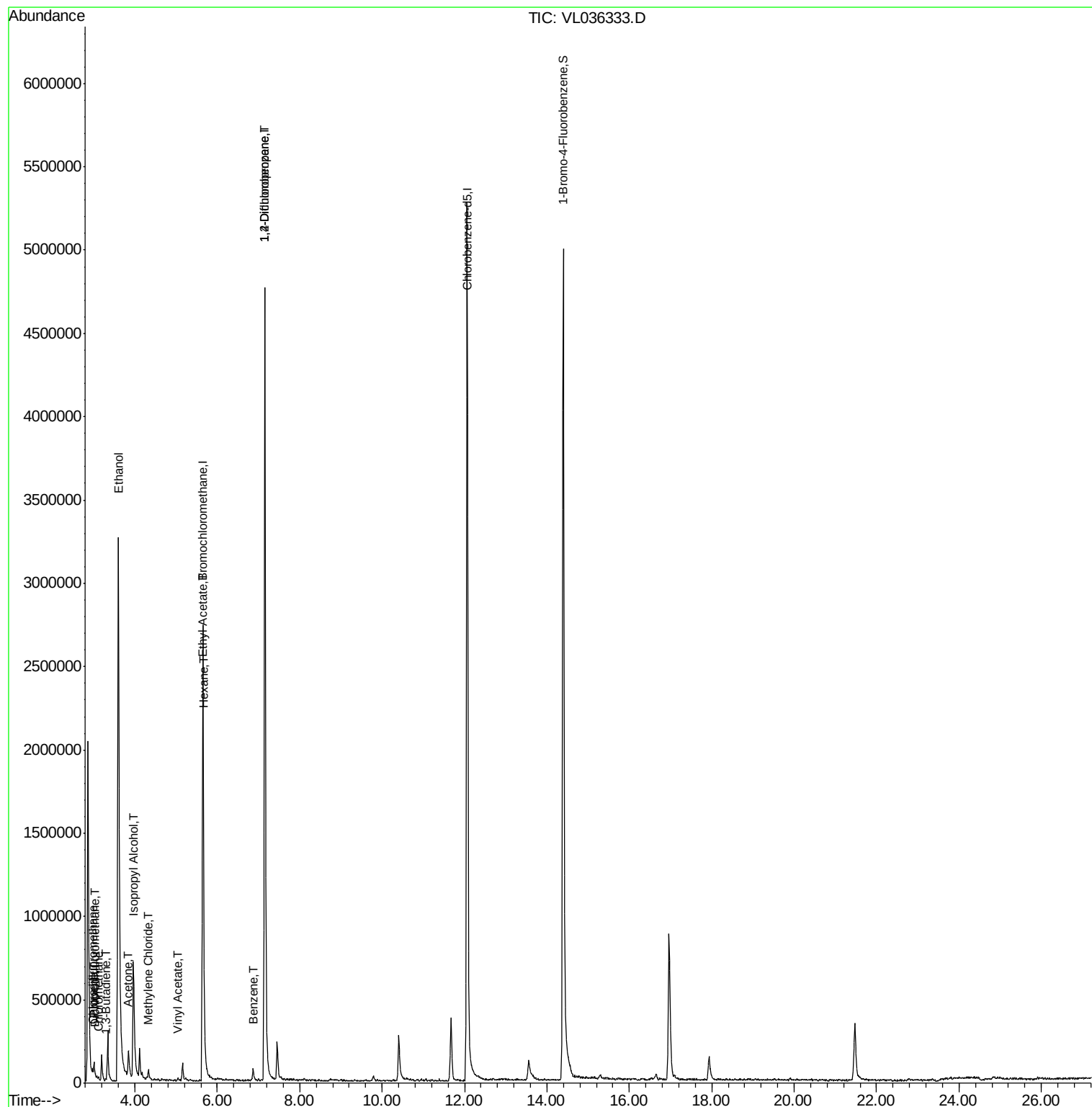
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	9060	0.036	ppbv	92
3) Chlorodifluoromethane	2.97	51	87693	0.417	ppbv #	86
4) Chloromethane	3.12	50	4294	0.042	ppbv #	1
9) Propene	3.00	41	16173	0.206	ppbv #	55
13) Ethanol	3.60	45	5270624	357.700	ppbv	91
15) Acetone	3.84	43	176113	0.851	ppbv #	79
16) 1,3-Butadiene	3.29	39	3609	0.036	ppbv #	9
19) Isopropyl Alcohol	3.96	45	1035514	9.029	ppbv	99
20) Methylene Chloride	4.32	84	7853	0.118	ppbv #	85
23) Vinyl Acetate	5.05	43	10134	0.042	ppbv #	88
25) Ethyl Acetate	5.66	43	38002	0.095	ppbv #	95
26) Hexane	5.67	57	12931	0.079	ppbv #	55
36) Benzene	6.86	78	23596	0.075	ppbv	97
39) 1,2-Dichloropropane	7.15	63	1071769	8.392	ppbv #	23

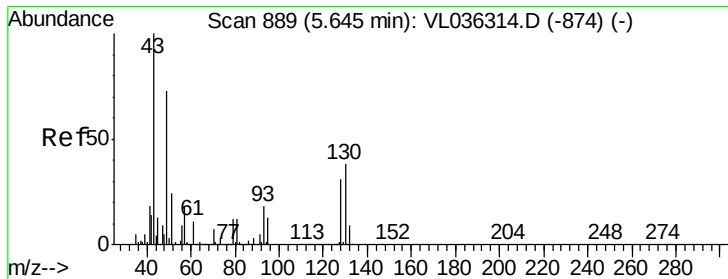
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 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: VL036333.D

Acq: 11 Feb 2021 1:13

Instrument :

MSVOA_L

ClientSampleId :

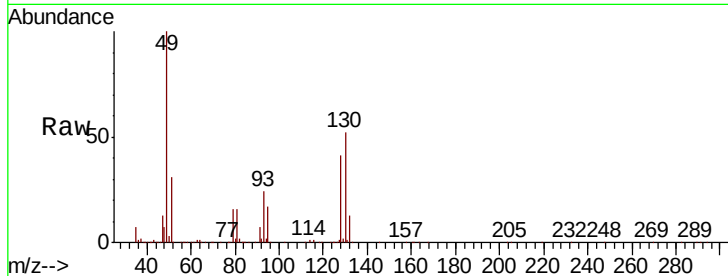
Tot Ion: 49 Resp: 1693409

Ion Ratio Lower Upper

49 100

128 42.8 20.8 62.5

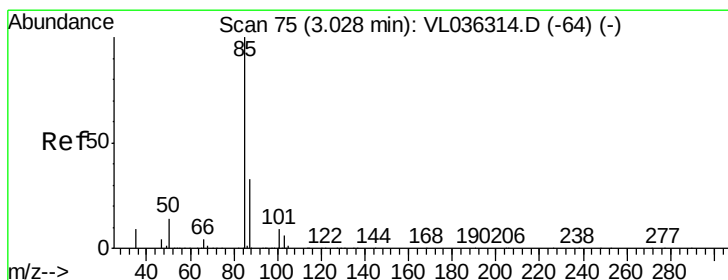
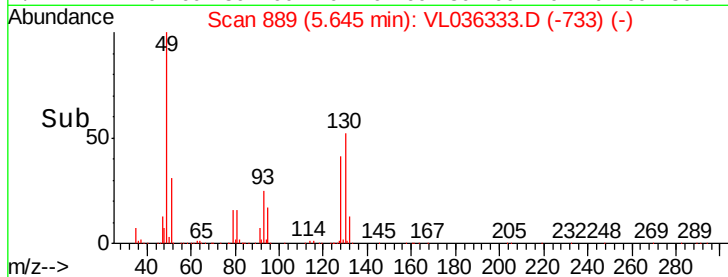
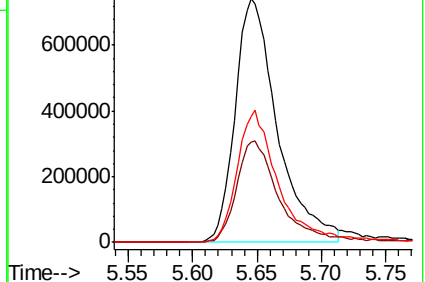
130 53.6 26.7 80.1



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: 0.036 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL036333.D

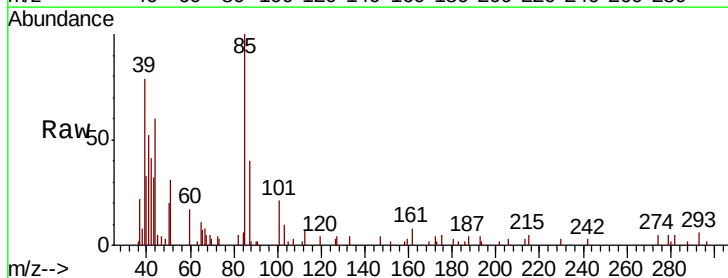
Acq: 11 Feb 2021 1:13

Tgt Ion: 85 Resp: 9060

Ion Ratio Lower Upper

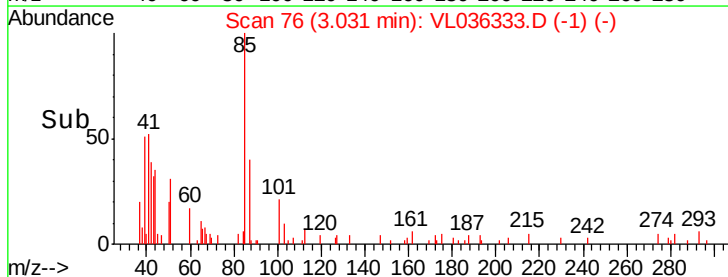
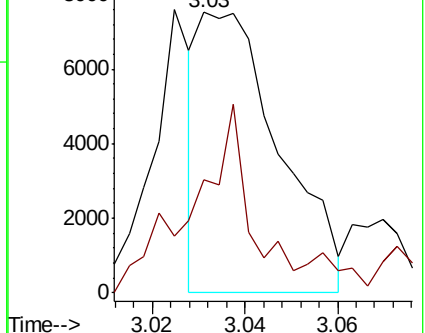
85 100

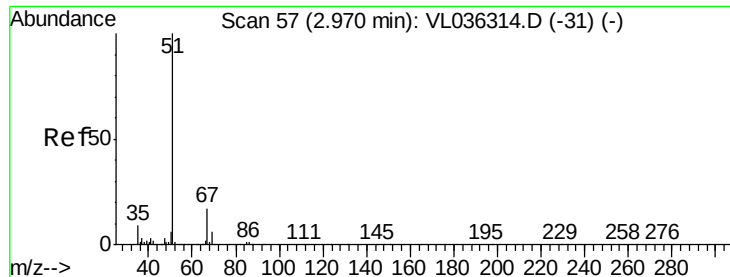
87 37.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.417 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

Instrument :

MSVOA_L

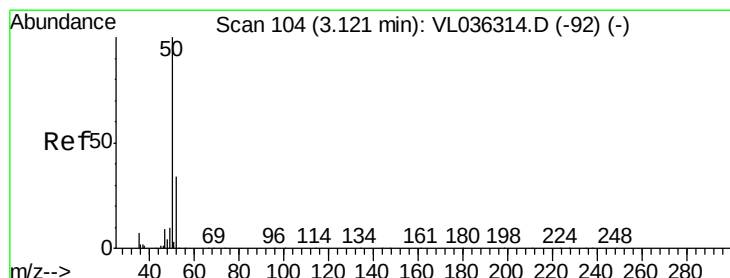
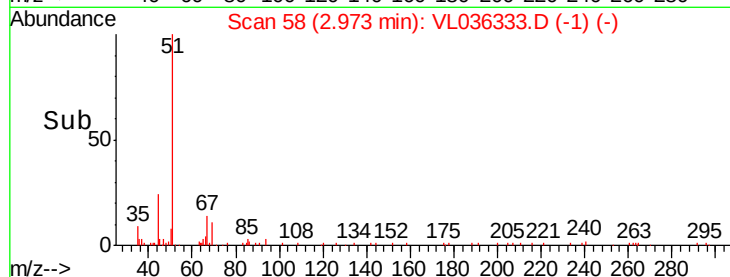
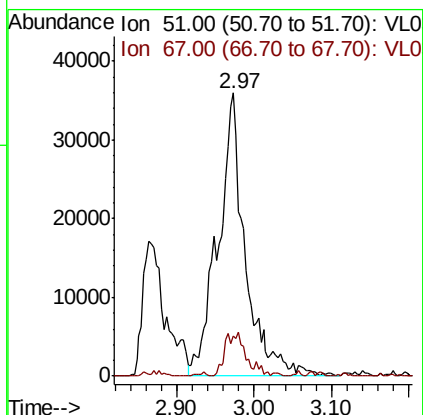
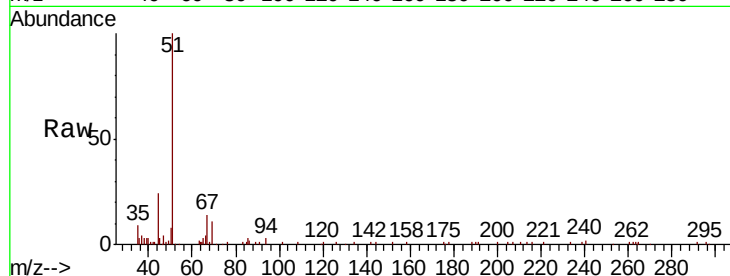
ClientSampleId :

Tot Ion: 51 Resp: 87693

Ion Ratio Lower Upper

51 100

67 12.1 14.7 22.1#



#4

Chloromethane

Concen: 0.042 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL036333.D

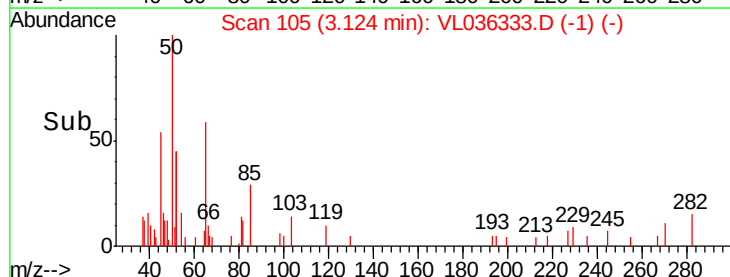
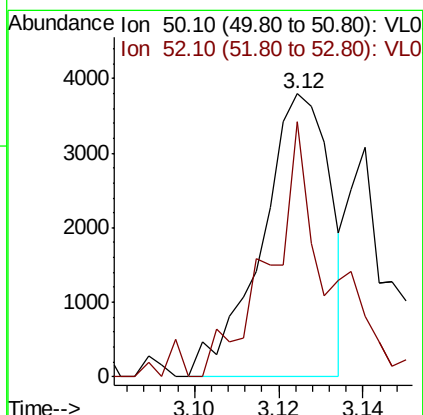
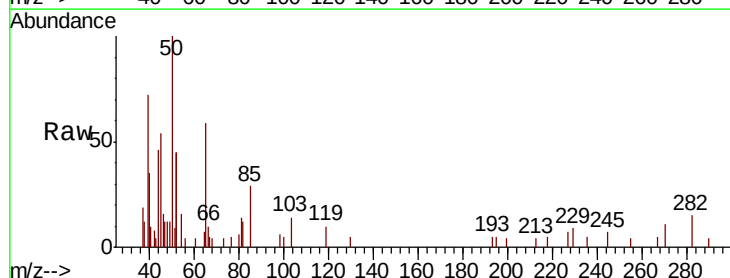
Acq: 11 Feb 2021 1:13

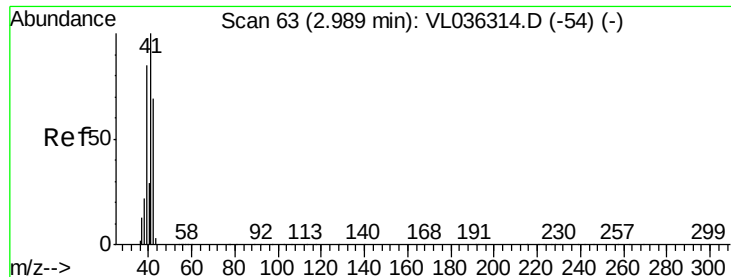
Tgt Ion: 50 Resp: 4294

Ion Ratio Lower Upper

50 100

52 90.1 27.0 40.4#





#9

Propene

Concen: 0.206 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

Instrument :

MSVOA_L

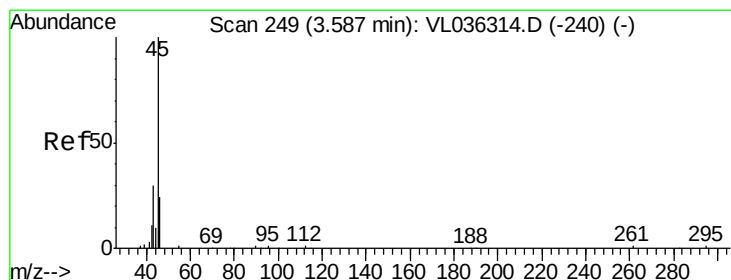
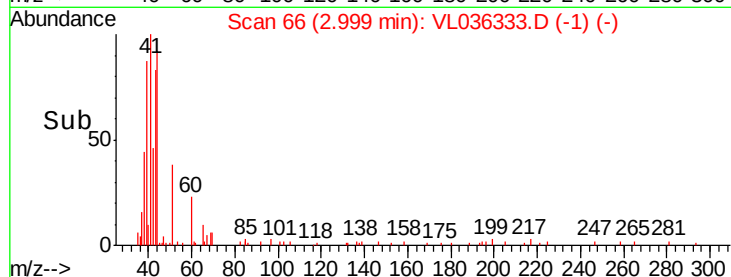
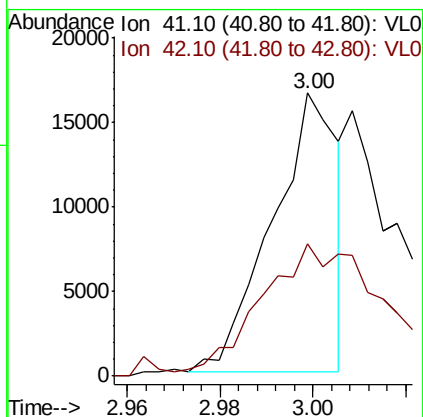
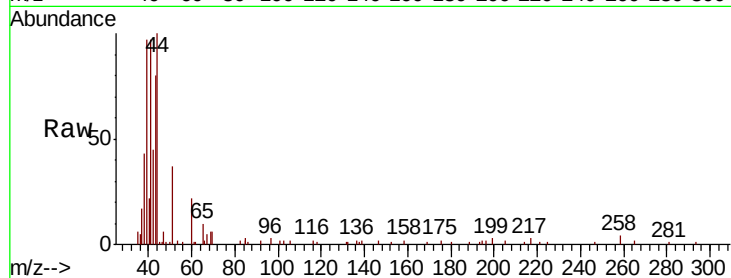
ClientSampleId :

Tot Ion: 41 Resp: 16173

Ion Ratio Lower Upper

41 100

42 107.2 56.2 84.2#



#13

Ethanol

Concen: 357.700 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.01 min

Lab File: VL036333.D

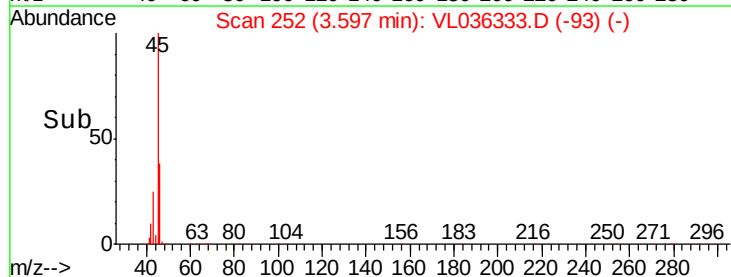
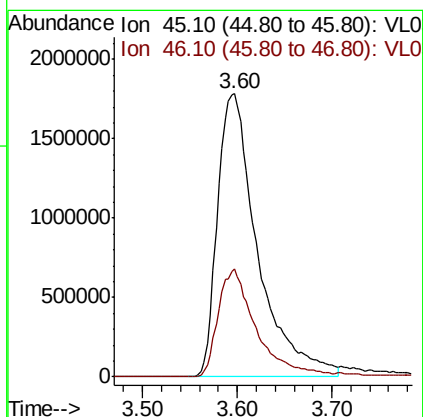
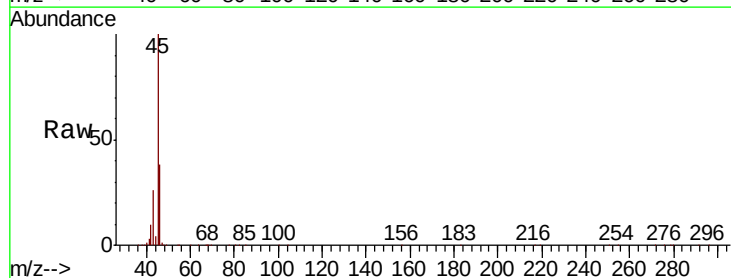
Acq: 11 Feb 2021 1:13

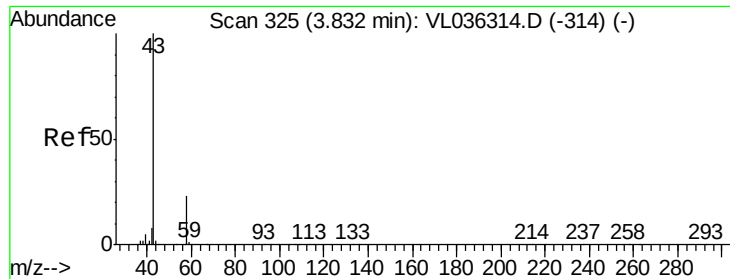
Tgt Ion: 45 Resp: 5270624

Ion Ratio Lower Upper

45 100

46 38.3 17.7 70.7

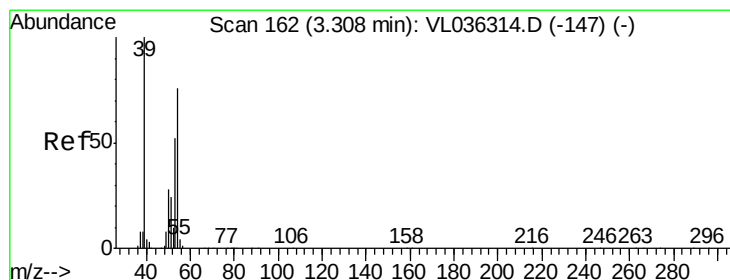
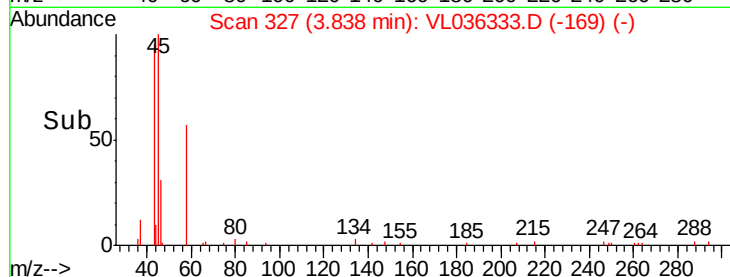
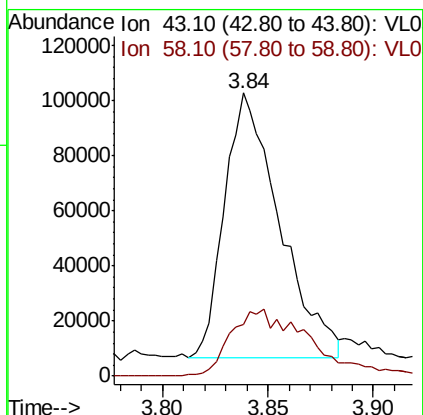
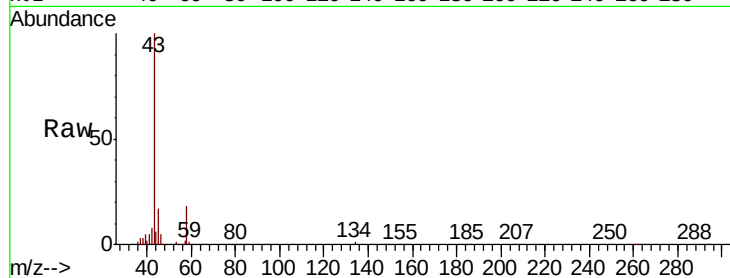




#15
Acetone
Concen: 0.851 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL036333.D
Acq: 11 Feb 2021 1:13

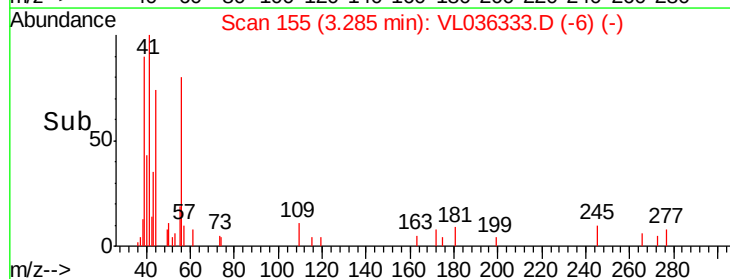
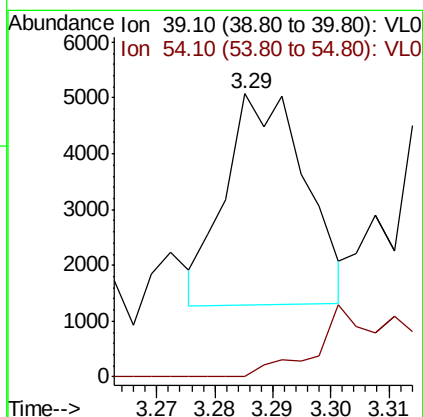
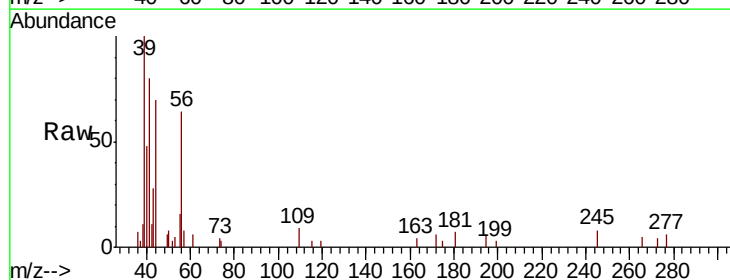
Instrument :
MSVOA_L
ClientSampled :

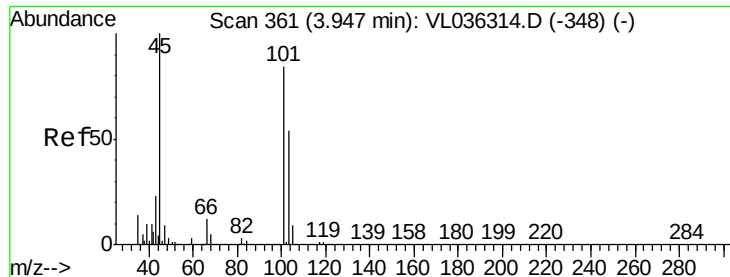
Tot Ion: 43 Resp: 176113
Ion Ratio Lower Upper
43 100
58 36.1 20.3 30.5#



#16
1,3-Butadiene
Concen: 0.036 ppbv
RT: 3.29 min Scan# 155
Delta R.T. -0.02 min
Lab File: VL036333.D
Acq: 11 Feb 2021 1:13

Tgt Ion: 39 Resp: 3609
Ion Ratio Lower Upper
39 100
54 0.0 64.4 96.6#





#19

Isopropyl Alcohol

Concen: 9.029 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

Instrument :

MSVOA_L

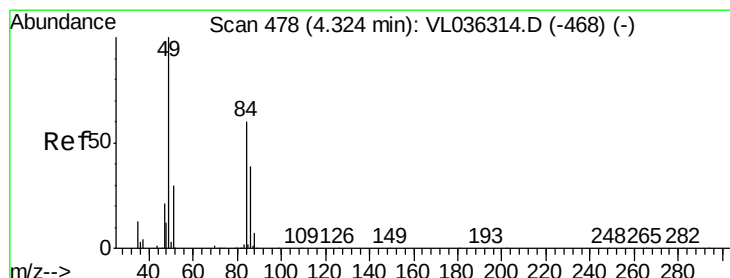
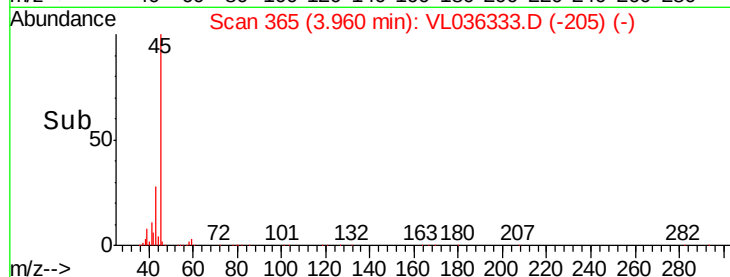
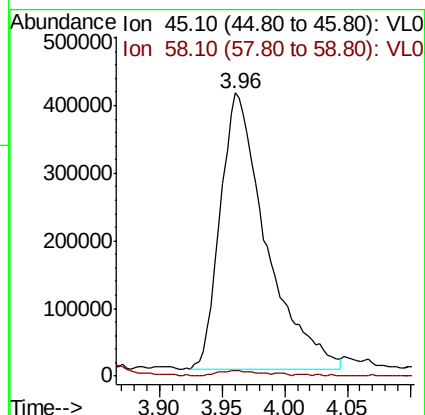
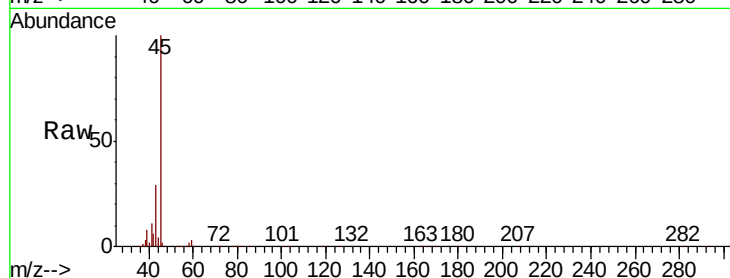
ClientSampleId :

Tot Ion: 45 Resp: 1035514

Ion Ratio Lower Upper

45 100

58 2.8 1.9 2.9



#20

Methylene Chloride

Concen: 0.118 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.00 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

Tgt Ion: 84 Resp: 7853

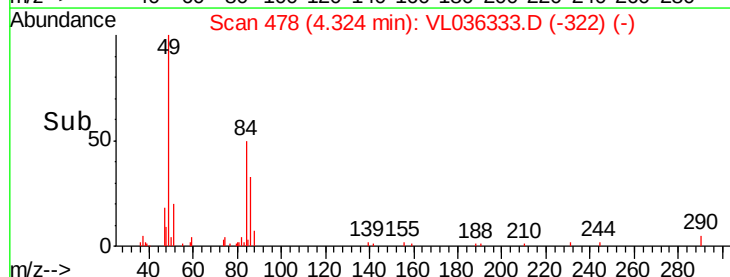
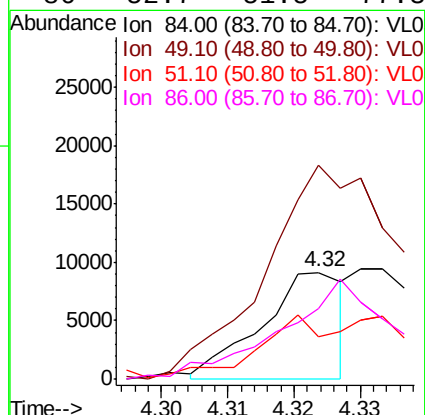
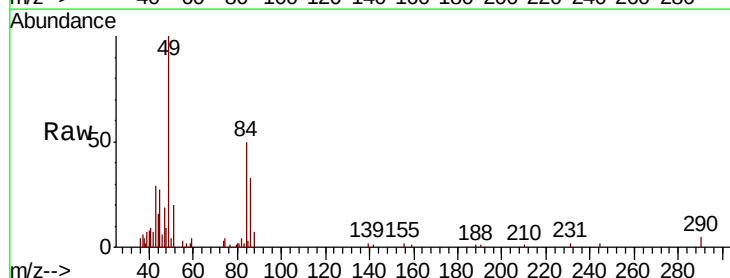
Ion Ratio Lower Upper

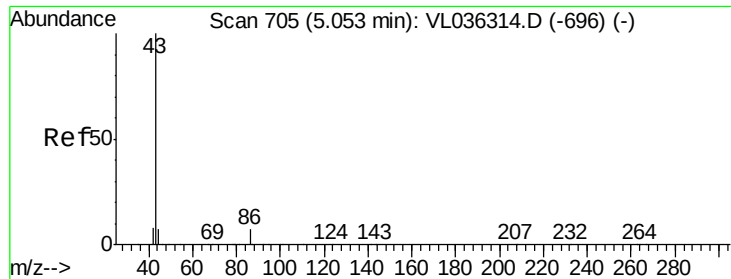
84 100

49 181.4 133.8 200.8

51 29.5 41.4 62.0#

86 52.7 51.5 77.3





#23

Vinyl Acetate

Concen: 0.042 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.00 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 43 Resp: 10134

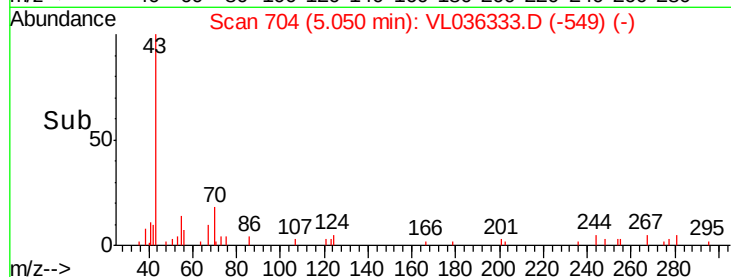
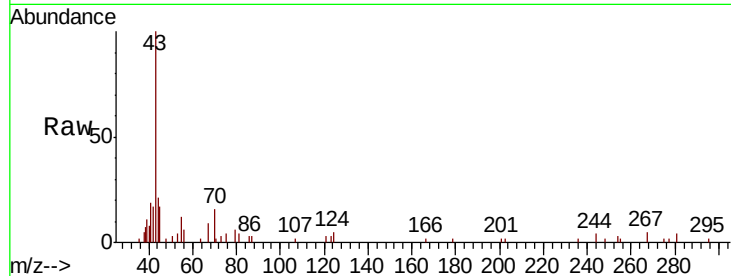
Ion Ratio Lower Upper

43 100

86 0.7 4.8 7.2#

42 11.5 7.4 11.0#

44 0.0 4.8 7.2#

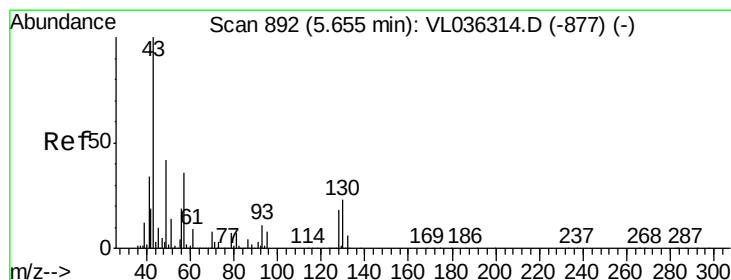
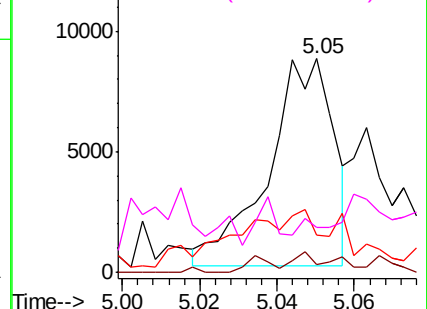


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.095 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.01 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

Tgt Ion: 43 Resp: 38002

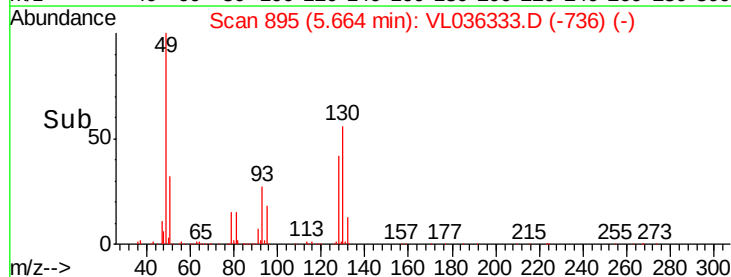
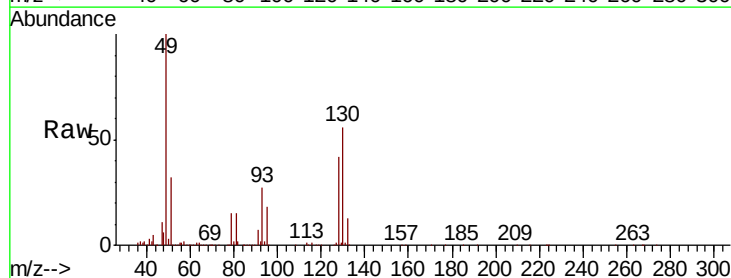
Ion Ratio Lower Upper

43 100

45 14.2 8.3 12.5#

61 9.4 7.3 10.9

70 6.9 5.4 8.0

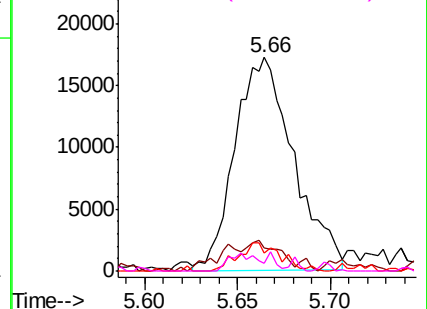


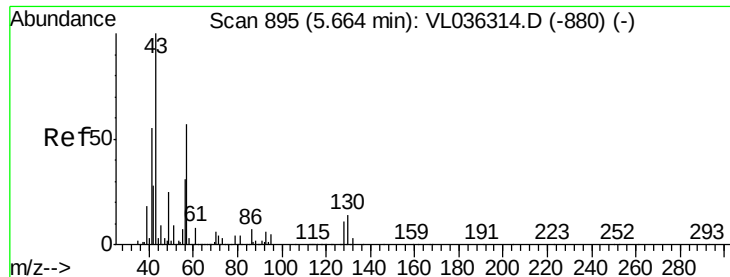
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

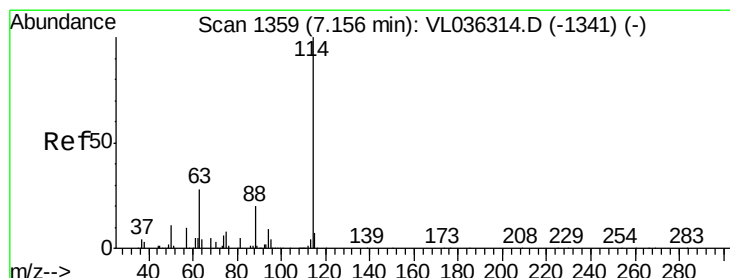
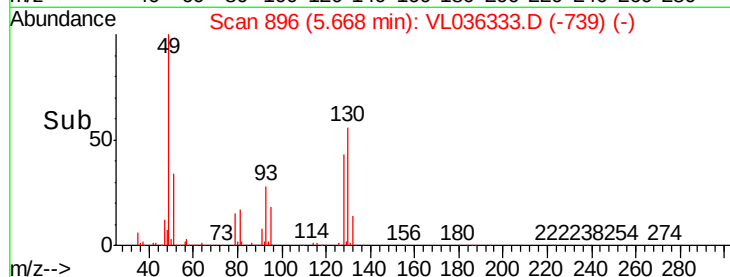
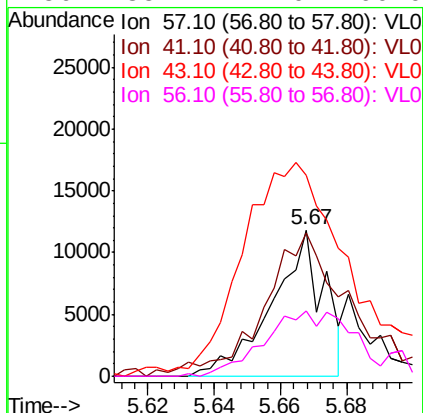
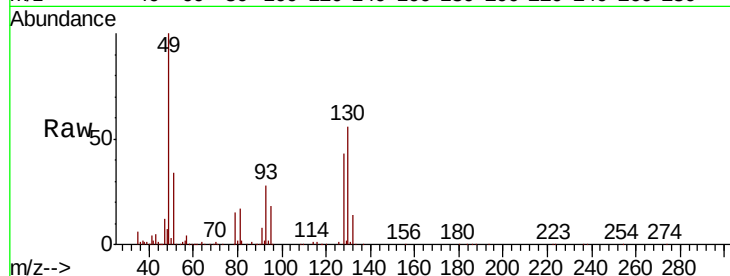




#26
Hexane
Concen: 0.079 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL036333.D
Acq: 11 Feb 2021 1:13

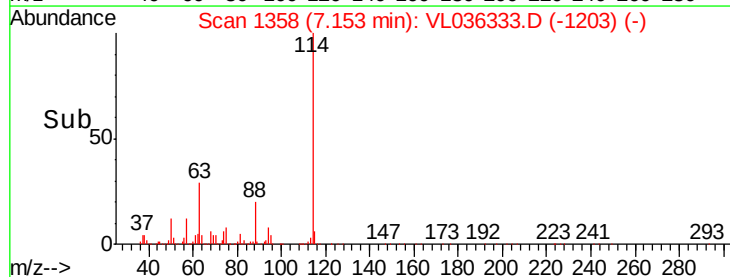
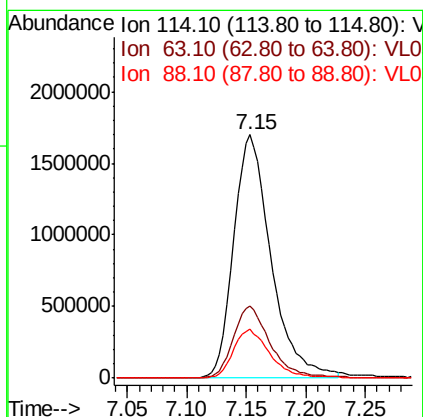
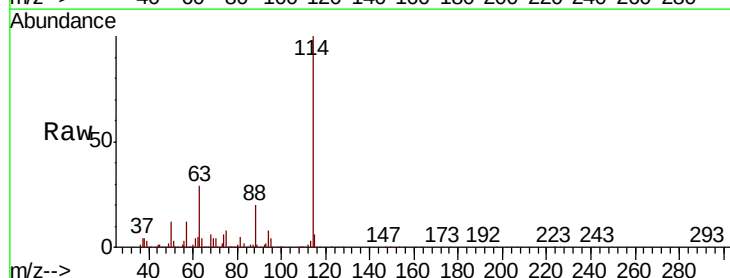
Instrument :
MSVOA_L
ClientSampleId :

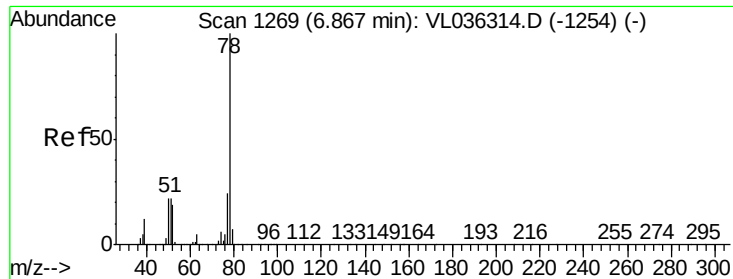
Tot Ion: 57 Resp: 12931
Ion Ratio Lower Upper
57 100
41 157.4 81.7 122.5#
43 322.2 199.1 298.7#
56 85.1 44.0 66.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VL036333.D
Acq: 11 Feb 2021 1:13

Tgt Ion: 114 Resp: 3701105
Ion Ratio Lower Upper
114 100
63 29.6 24.1 36.1
88 20.1 16.0 24.0





#36

Benzene

Concen: 0.075 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

Instrument :

MSVOA_L

ClientSampleId :

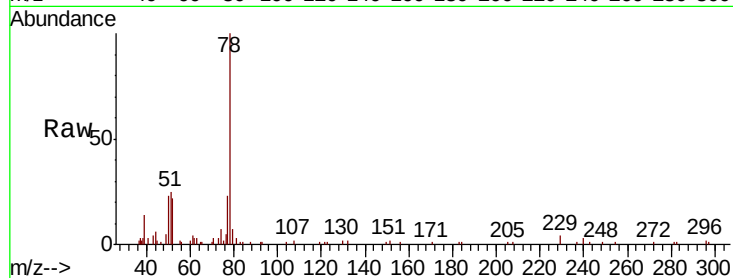
Tot Ion: 78 Resp: 23596

Ion Ratio Lower Upper

78 100

77 21.5 18.9 28.3

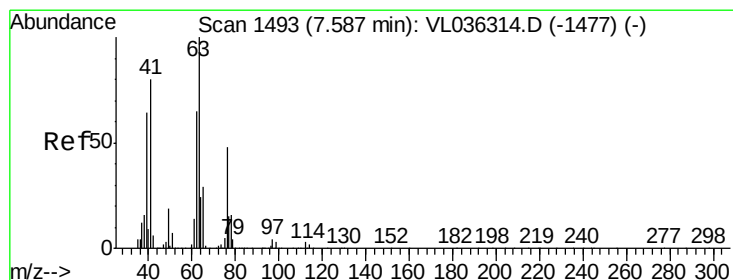
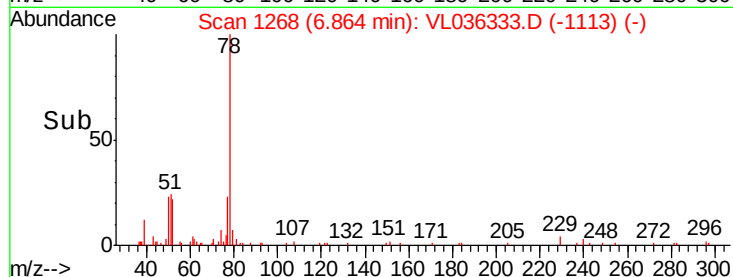
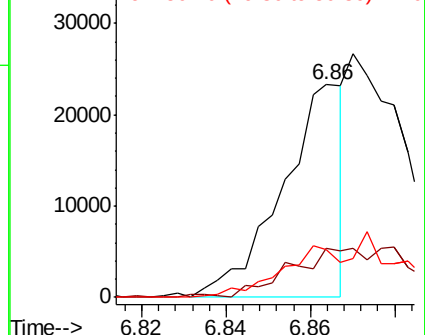
50 22.7 17.3 25.9



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.392 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.43 min

Lab File: VL036333.D

Acq: 11 Feb 2021 1:13

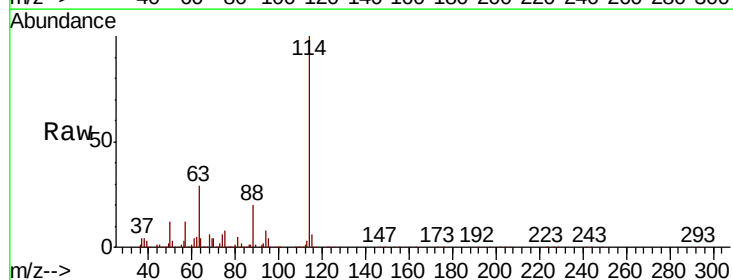
Tgt Ion: 63 Resp: 1071769

Ion Ratio Lower Upper

63 100

41 0.0 63.8 95.6#

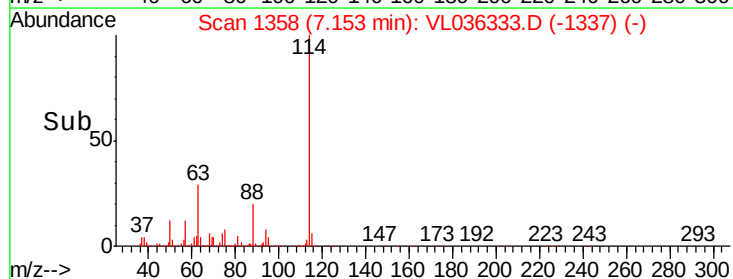
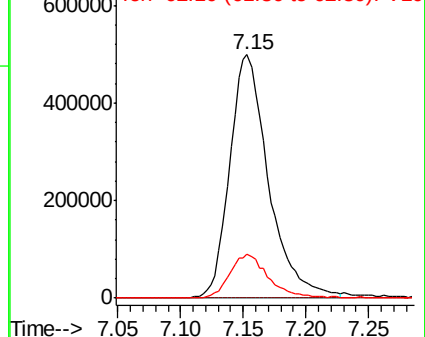
62 17.8 52.3 78.5#

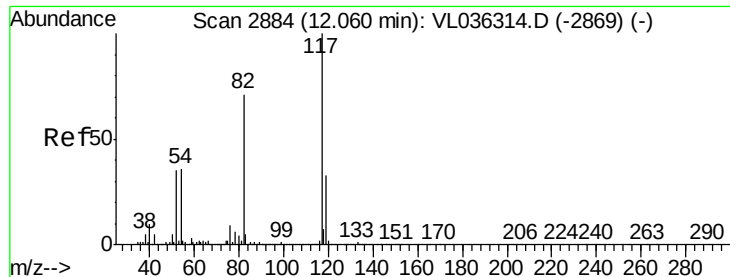


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

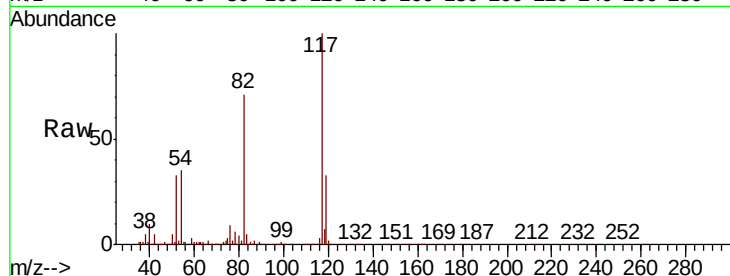




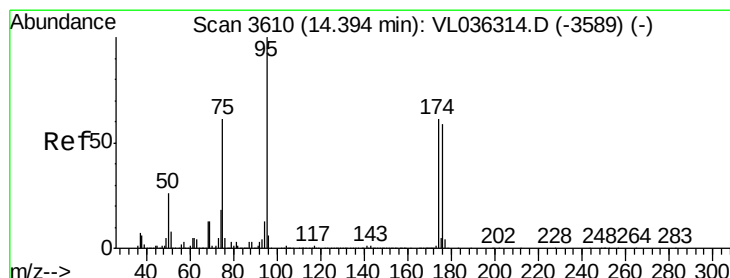
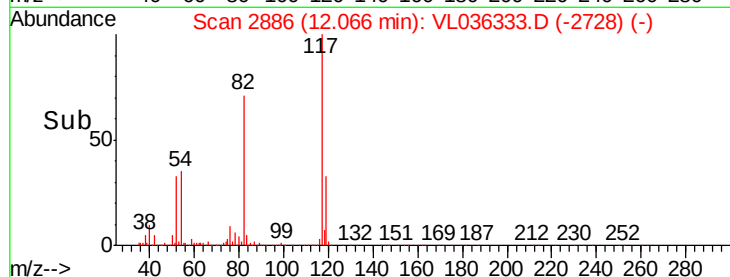
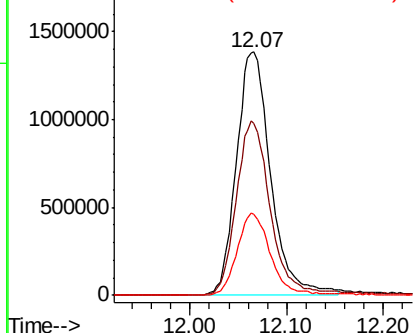
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.01 min
Lab File: VL036333.D
Acq: 11 Feb 2021 1:13

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3414861
Ion Ratio Lower Upper
117 100
82 72.8 59.1 88.7
119 33.6 46.3 69.5#

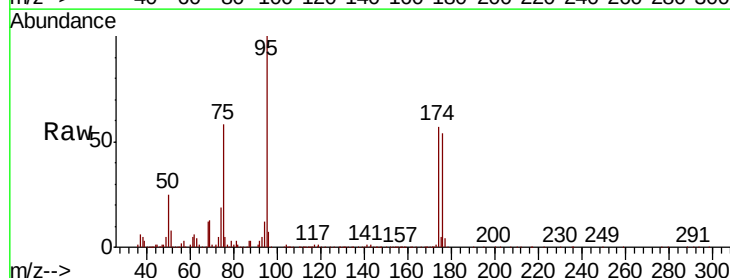


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.825 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.00 min
Lab File: VL036333.D
Acq: 11 Feb 2021 1:13

Tgt Ion: 95 Resp: 2760389
Ion Ratio Lower Upper
95 100
174 63.2 49.8 74.6
175 4.6 3.7 5.5



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

