

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\
 Data File : VL037135.D
 Acq On : 8 Jun 2021 16:59
 Operator : SY/AP
 Sample : M2614-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 09 01:20:21 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	5.66	49	1330413	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	3893949	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	3492630	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2630241	10.02	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

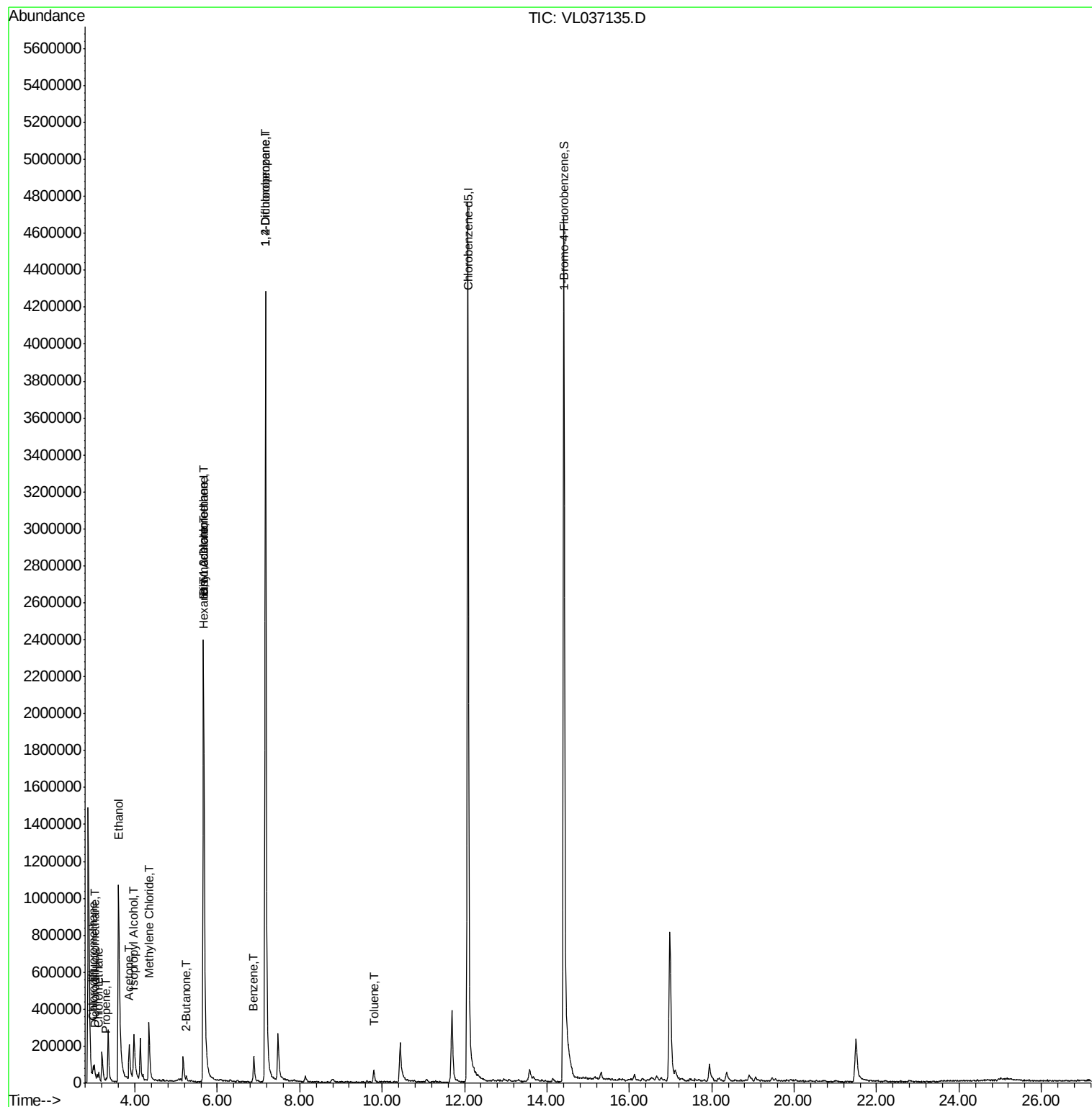
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	11950	0.053	ppbv #	87
3) Chlorodifluoromethane	2.99	51	101893	0.418	ppbv	95
4) Chloromethane	3.13	50	3120	0.038	ppbv #	14
9) Propene	3.30	41	2793	0.032	ppbv	91
13) Ethanol	3.60	45	1679532	144.229	ppbv	97
15) Acetone	3.86	43	230629	1.692	ppbv #	85
19) Isopropyl Alcohol	3.97	45	349288	4.768	ppbv #	38
20) Methylene Chloride	4.35	84	118591	1.624	ppbv	97
25) Ethyl Acetate	5.68	43	227516	0.695	ppbv #	94
26) Hexane	5.68	57	88446	0.529	ppbv #	66
31) cis-1,2-Dichloroethene	5.67	61	14095	0.094	ppbv #	21
34) 2-Butanone	5.25	43	14191	0.100	ppbv #	1
36) Benzene	6.88	78	125762	0.375	ppbv	97
39) 1,2-Dichloropropane	7.17	63	897651	6.947	ppbv #	26
53) Toluene	9.80	91	24508	0.061	ppbv #	9

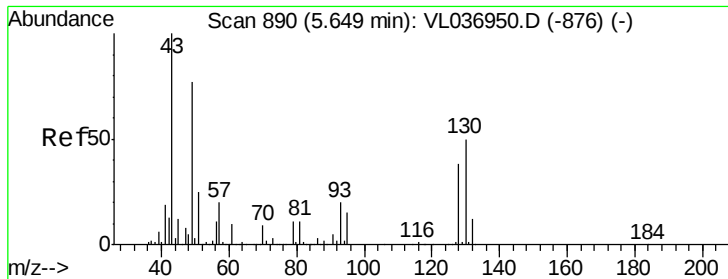
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.02 min

Lab File: VL037135.D

Acq: 8 Jun 2021 16:59

Instrument :
MSVOA_L
ClientSampleId :

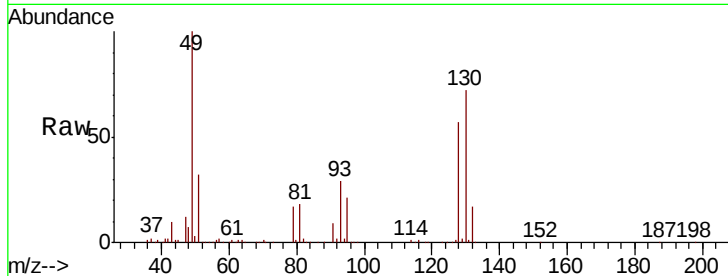
Tot Ion: 49 Resp: 1330413

Ion Ratio Lower Upper

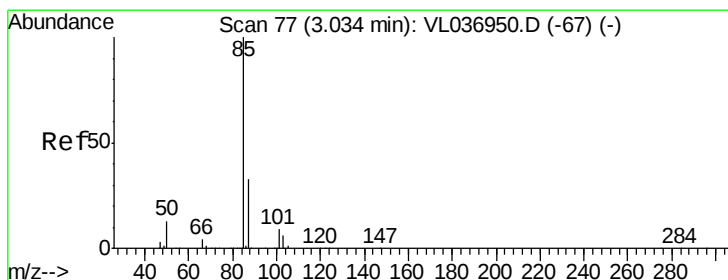
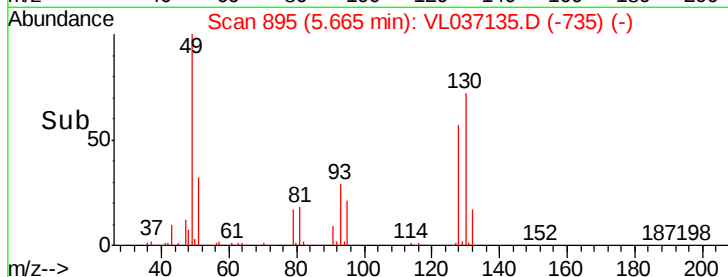
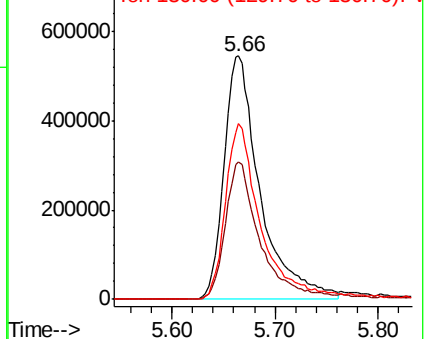
49 100

128 56.8 26.9 80.7

130 72.9 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: 0.053 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL037135.D

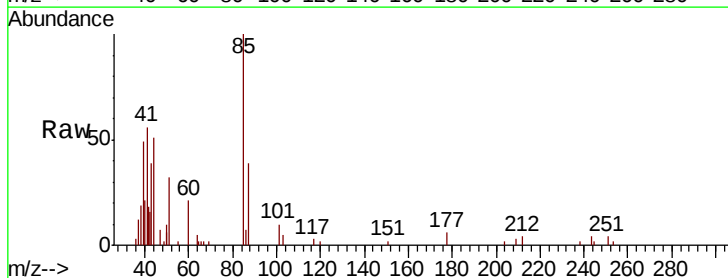
Acq: 8 Jun 2021 16:59

Tgt Ion: 85 Resp: 11950

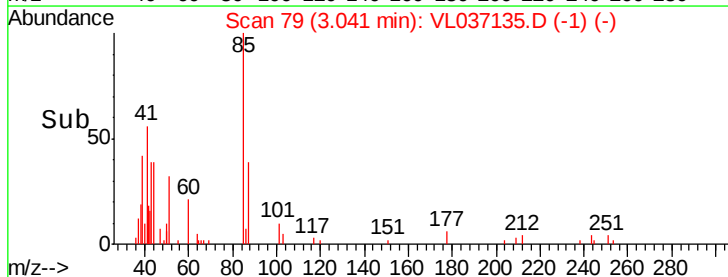
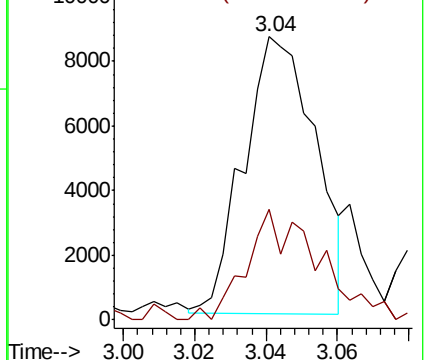
Ion Ratio Lower Upper

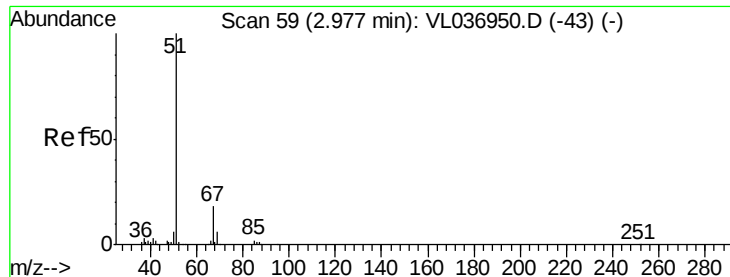
85 100

87 40.5 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: 0.418 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL037135.D

Acq: 8 Jun 2021 16:59

Instrument :

MSVOA_L

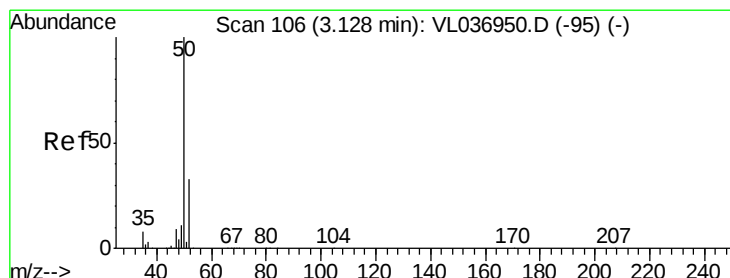
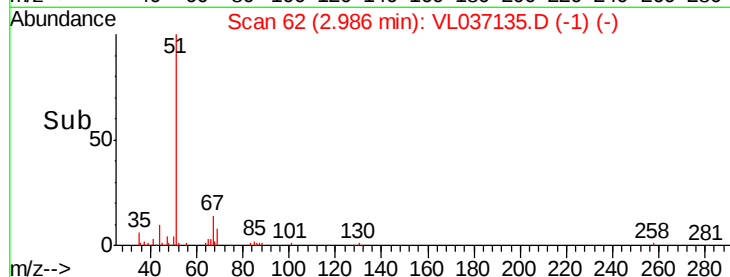
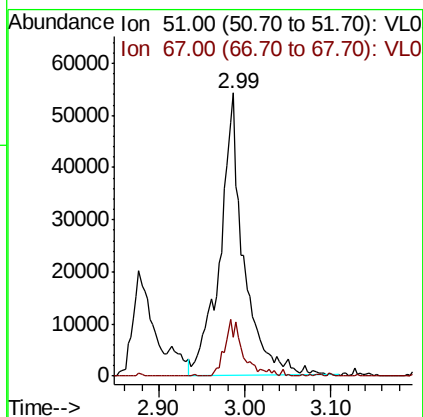
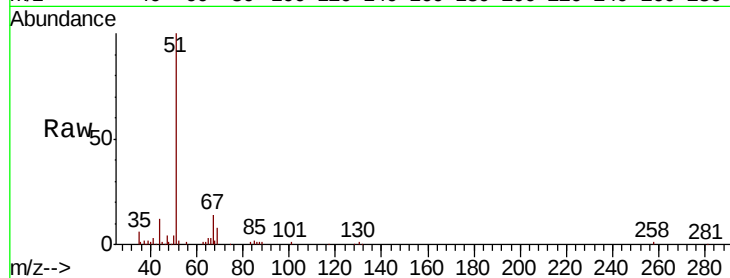
ClientSampleId :

Tot Ion: 51 Resp: 101893

Ion Ratio Lower Upper

51 100

67 16.0 14.6 21.8



#4

Chloromethane

Concen: 0.038 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037135.D

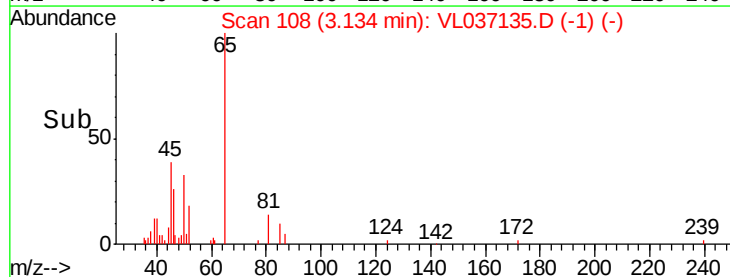
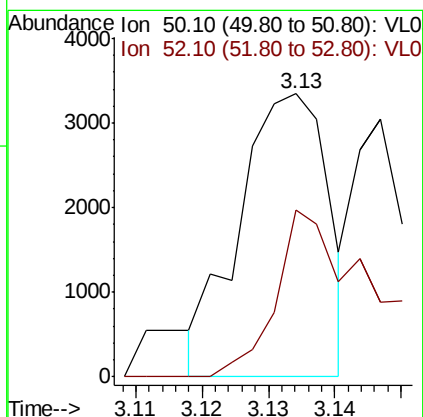
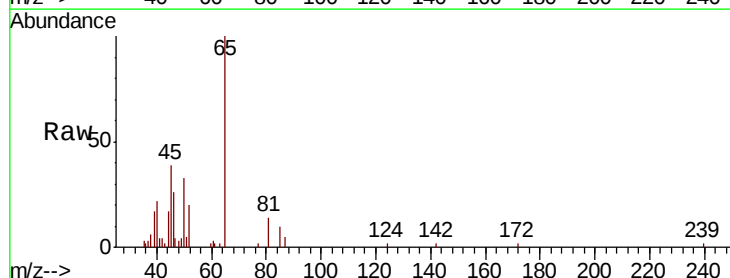
Acq: 8 Jun 2021 16:59

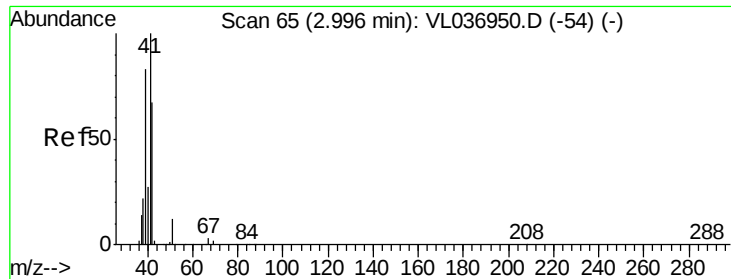
Tgt Ion: 50 Resp: 3120

Ion Ratio Lower Upper

50 100

52 80.8 26.1 39.1#





#9

Propene

Concen: 0.032 ppbv

RT: 3.30 min Scan# 160

Delta R.T. 0.31 min

Lab File: VL037135.D

Acq: 8 Jun 2021 16:59

Instrument :

MSVOA_L

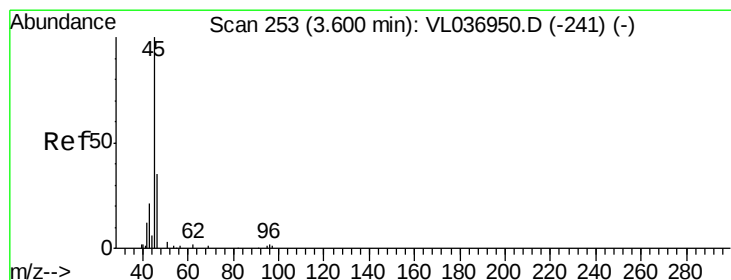
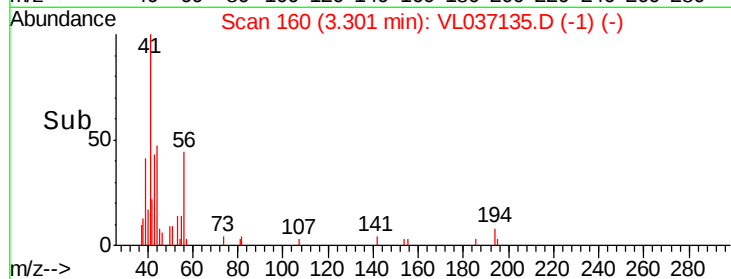
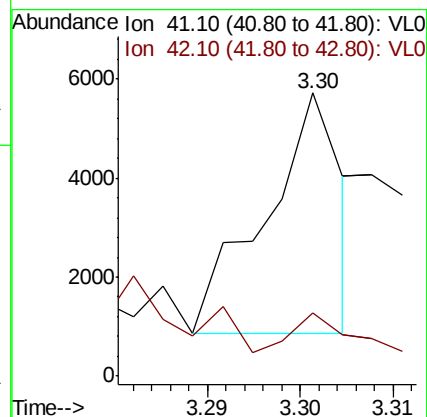
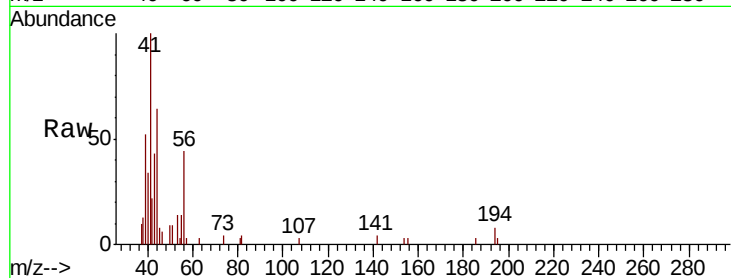
ClientSampleId :

Tot Ion: 41 Resp: 2793

Ion Ratio Lower Upper

41 100

42 74.6 53.9 80.9



#13

Ethanol

Concen: 144.229 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL037135.D

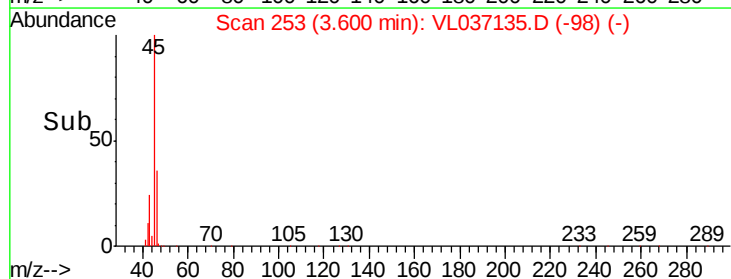
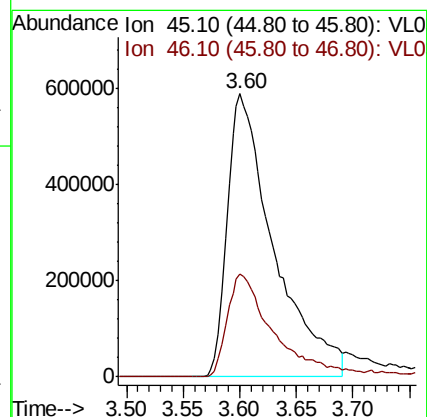
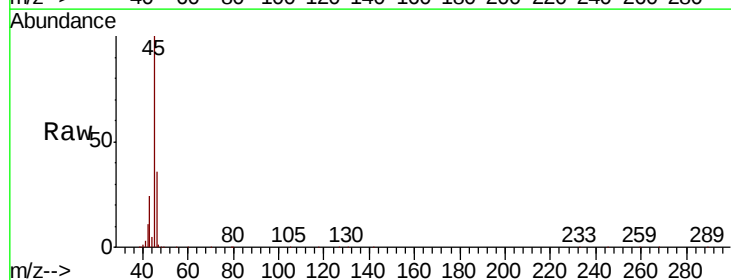
Acq: 8 Jun 2021 16:59

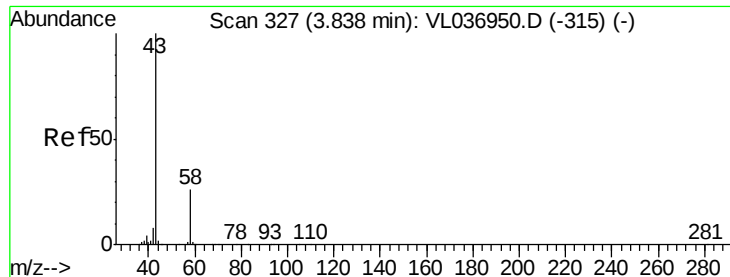
Tgt Ion: 45 Resp: 1679532

Ion Ratio Lower Upper

45 100

46 38.9 16.3 65.3





#15

Acetone

Concen: 1.692 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL037135.D

Acq: 8 Jun 2021 16:59

Instrument :

MSVOA_L

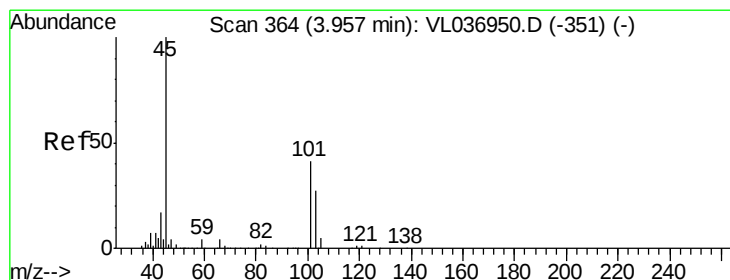
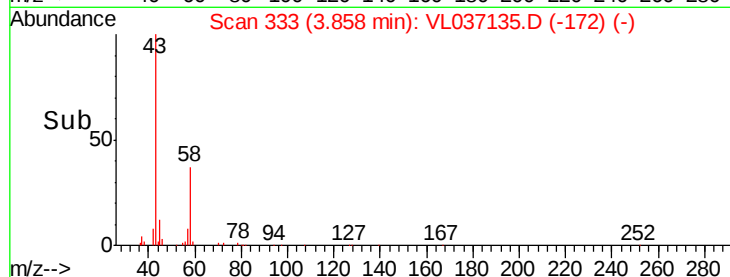
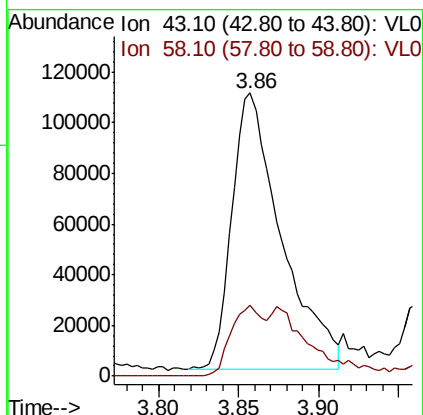
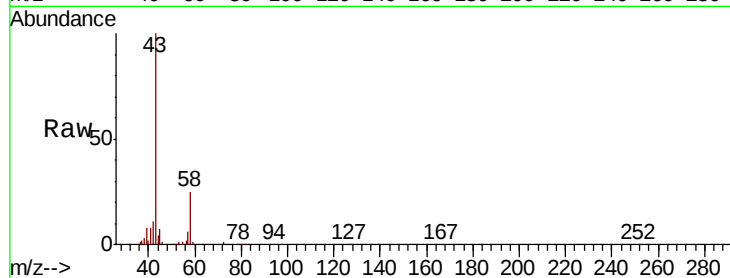
ClientSampleId :

Tot Ion: 43 Resp: 230629

Ion Ratio Lower Upper

43 100

58 38.2 24.0 36.0#



#19

Isopropyl Alcohol

Concen: 4.768 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL037135.D

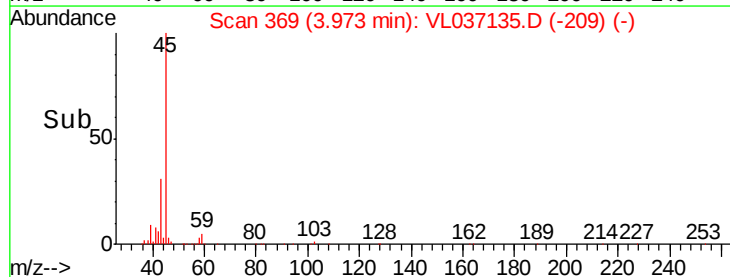
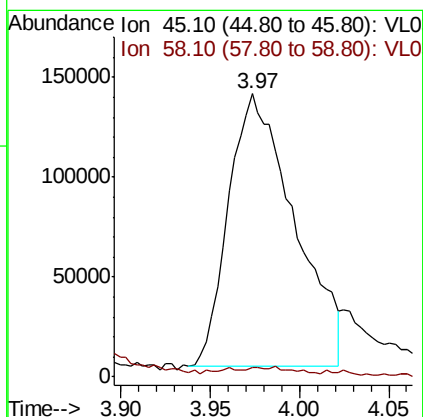
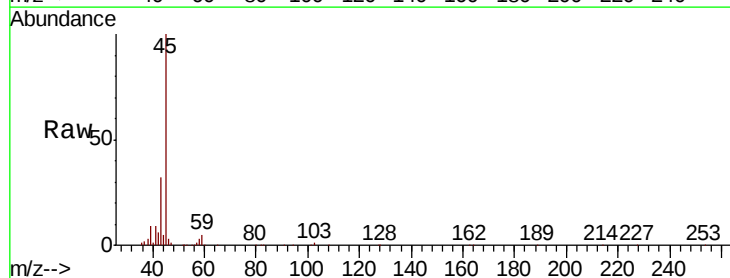
Acq: 8 Jun 2021 16:59

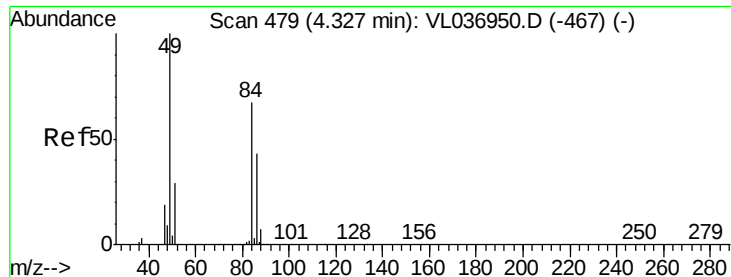
Tgt Ion: 45 Resp: 349288

Ion Ratio Lower Upper

45 100

58 5.4 37.2 55.8#

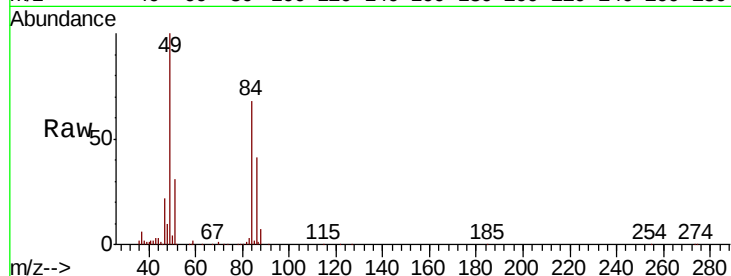




#20
Methylene Chloride
Concen: 1.624 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.02 min
Lab File: VL037135.D
Acq: 8 Jun 2021 16:59

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	118591
Ion	Ratio	Lower	Upper
84	100		
49	146.5	119.8	179.6
51	45.1	35.1	52.7
86	60.8	50.9	76.3



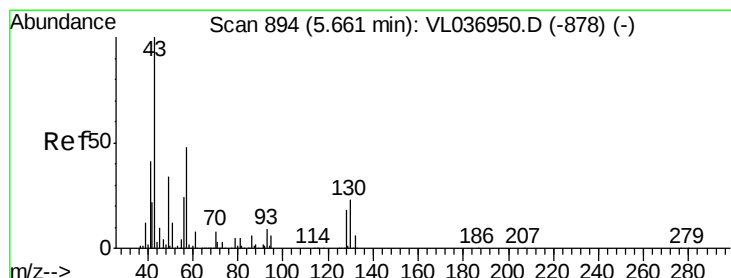
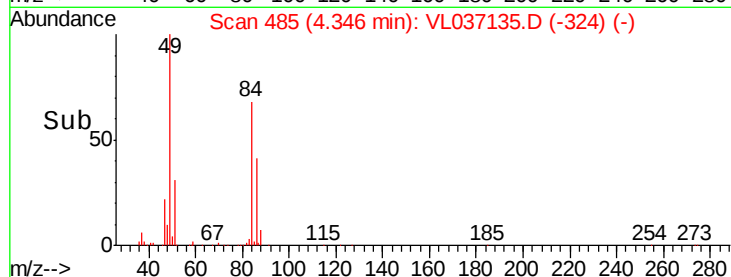
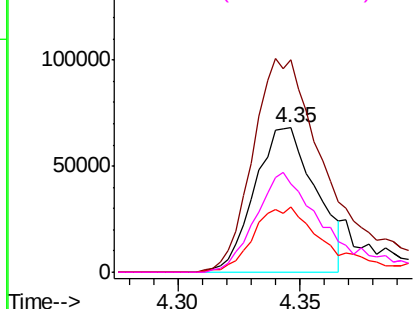
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

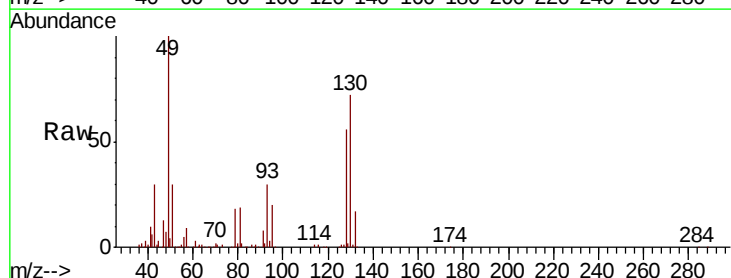
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 0.695 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.02 min
Lab File: VL037135.D
Acq: 8 Jun 2021 16:59

Tgt Ion:	43	Resp:	227516
Ion	Ratio	Lower	Upper
43	100		
45	12.5	7.8	11.8#
61	11.6	7.8	11.8
70	9.1	5.6	8.4#



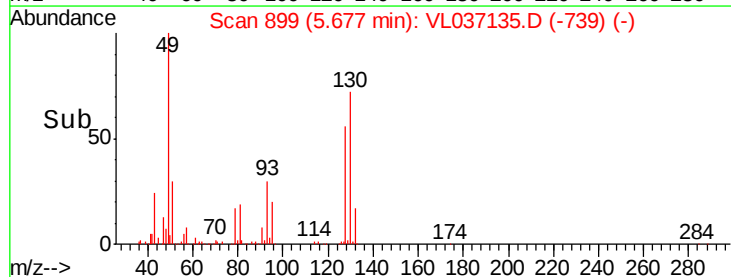
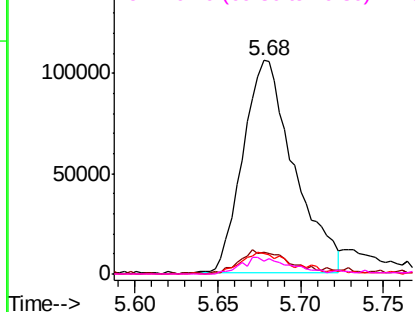
Abundance

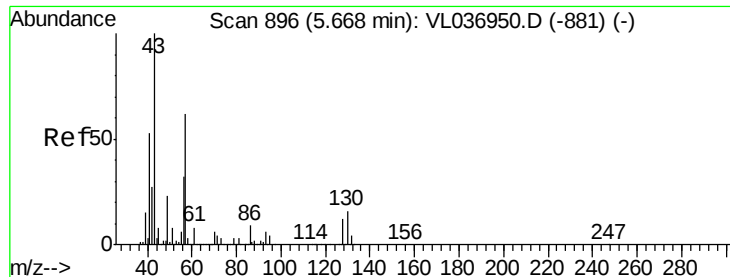
Ion 43.10 (42.80 to 43.80): VL0

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

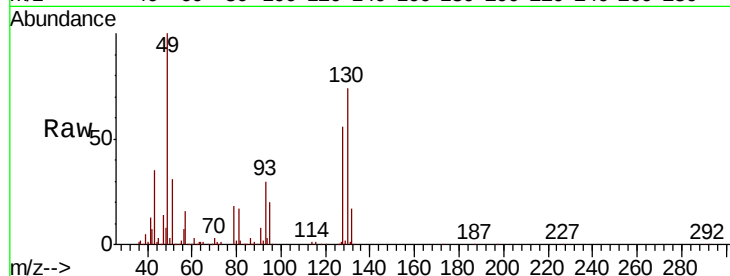




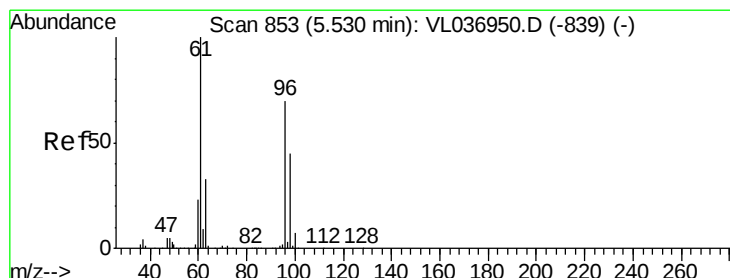
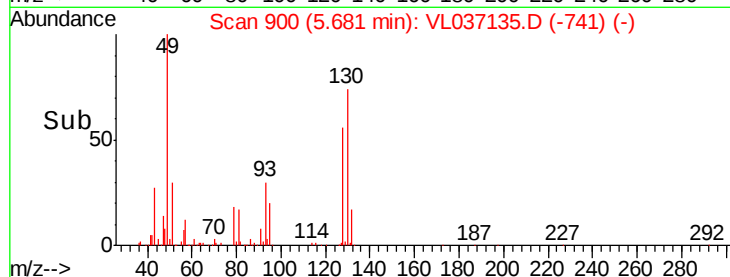
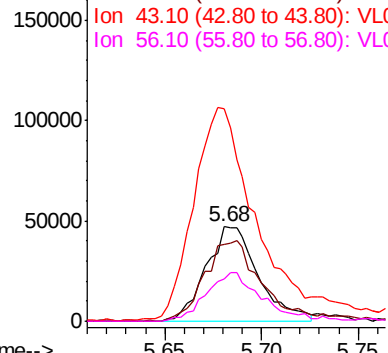
#26
Hexane
Concen: 0.529 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL037135.D
Acq: 8 Jun 2021 16:59

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 88446
Ion Ratio Lower Upper
57 100
41 97.8 70.5 105.7
43 285.6 165.8 248.8#
56 57.6 42.2 63.4

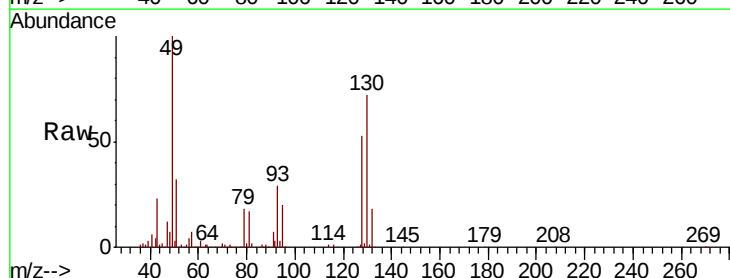


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

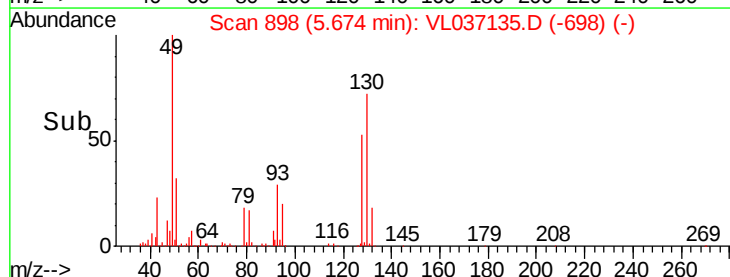
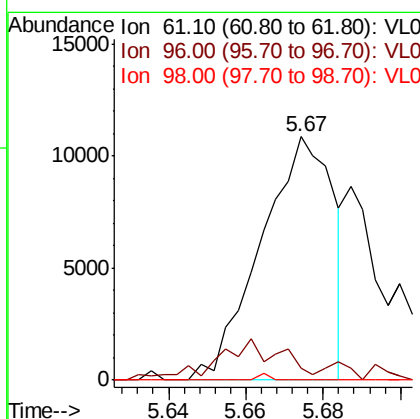


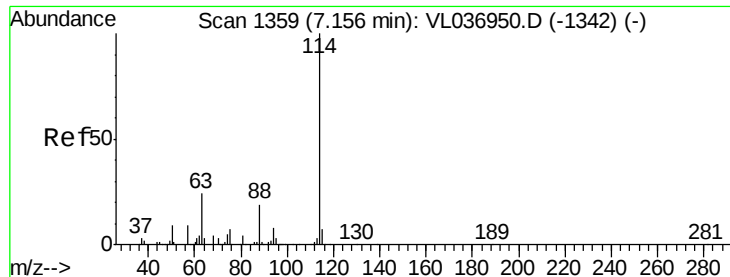
#31
cis-1,2-Dichloroethene
Concen: 0.094 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.14 min
Lab File: VL037135.D
Acq: 8 Jun 2021 16:59

Tgt Ion: 61 Resp: 14095
Ion Ratio Lower Upper
61 100
96 0.0 55.9 83.9#
98 0.0 35.6 53.4#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

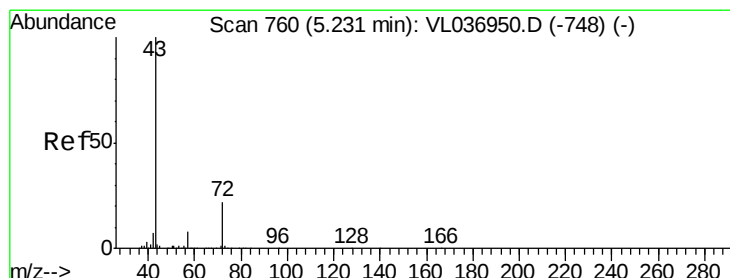
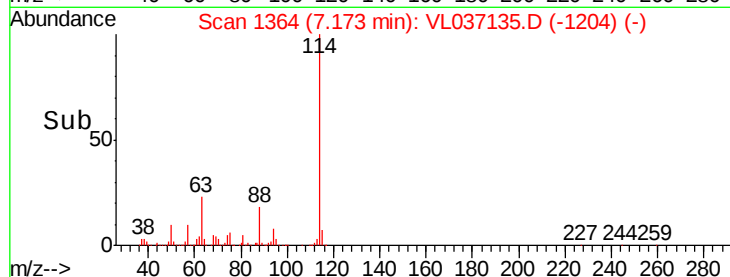
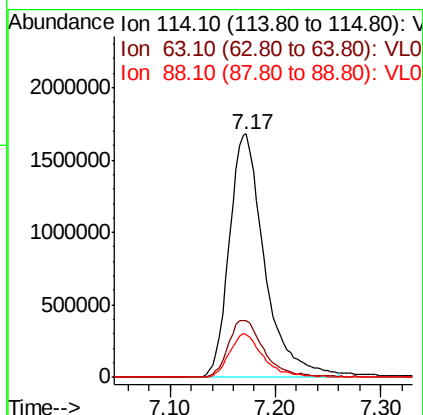
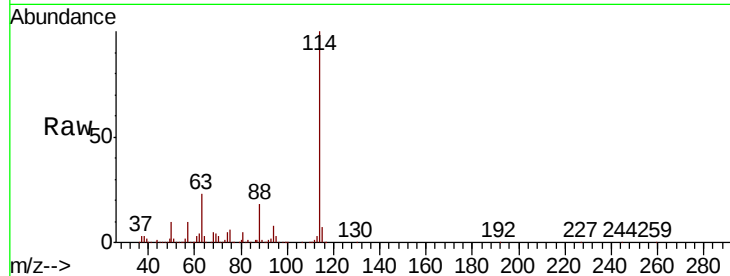




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.02 min
 Lab File: VL037135.D
 Acq: 8 Jun 2021 16:59

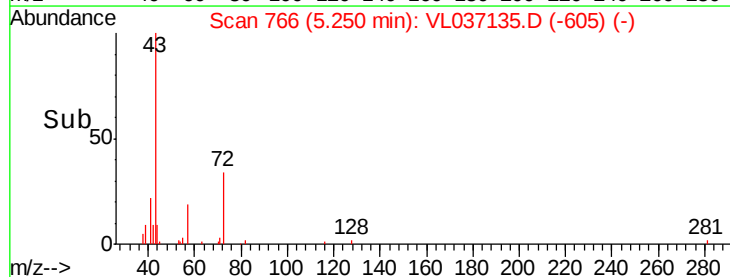
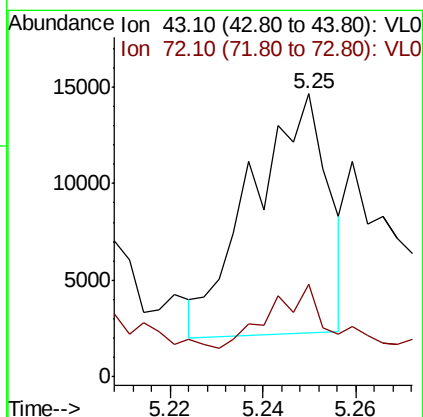
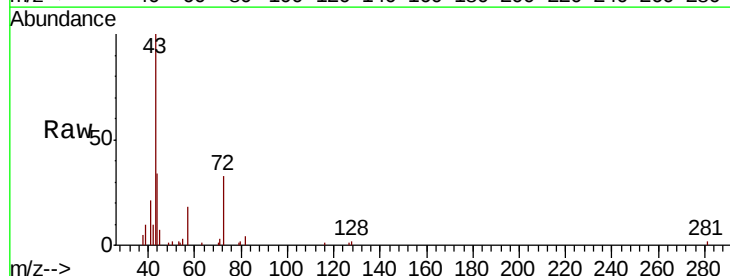
Instrument :
 MSVOA_L
 ClientSampleId :

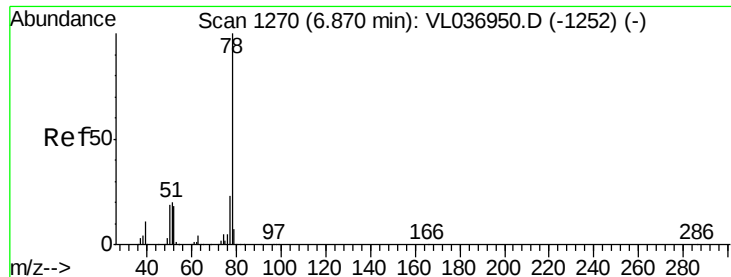
Tot Ion:114 Resp: 3893949
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.6 29.4
 88 17.5 14.6 21.8



#34
 2-Butanone
 Concen: 0.100 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL037135.D
 Acq: 8 Jun 2021 16:59

Tgt Ion: 43 Resp: 14191
 Ion Ratio Lower Upper
 43 100
 72 72.9 19.0 28.4#

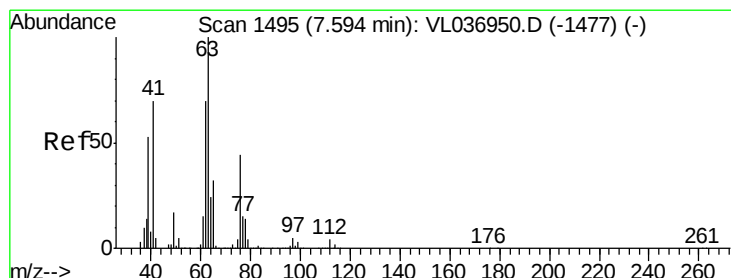
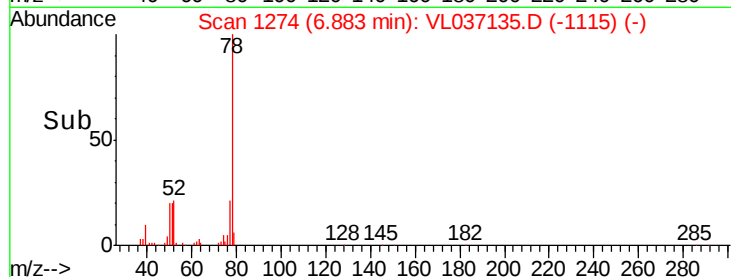
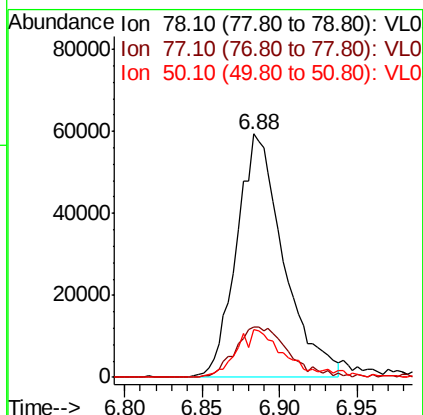
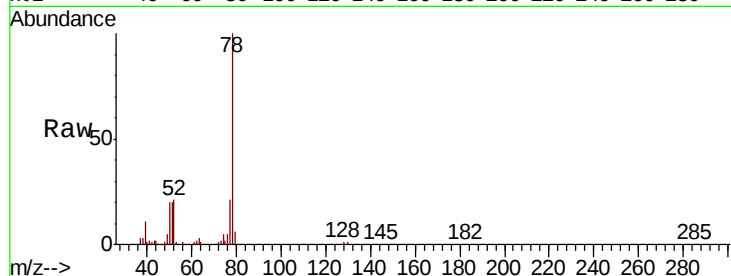




#36
Benzene
Concen: 0.375 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VL037135.D
Acq: 8 Jun 2021 16:59

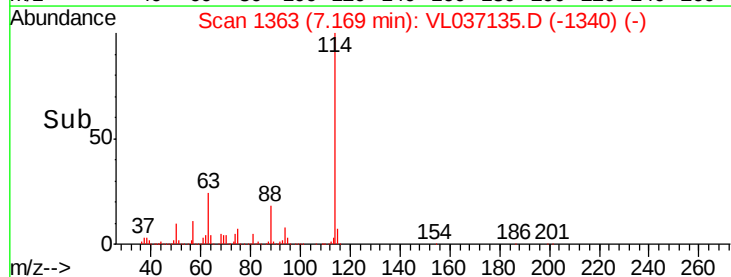
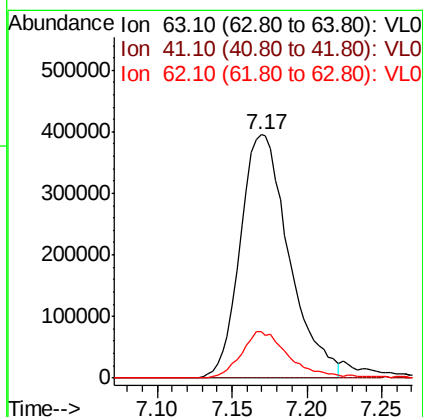
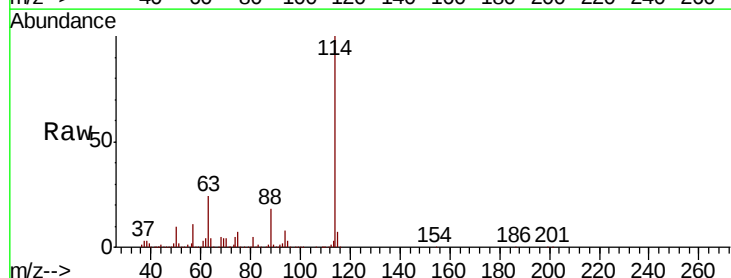
Instrument :
MSVOA_L
ClientSampleId :

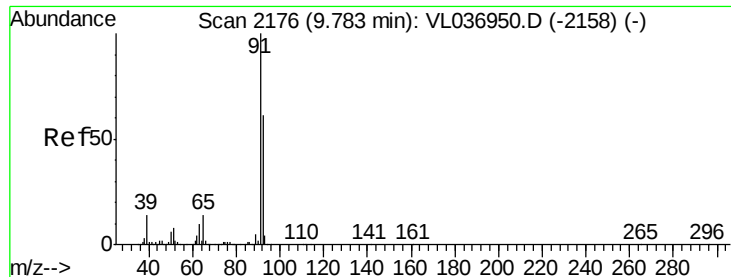
Tot Ion: 78 Resp: 125762
Ion Ratio Lower Upper
78 100
77 20.8 18.6 28.0
50 19.2 15.0 22.4



#39
1,2-Dichloropropane
Concen: 6.947 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.42 min
Lab File: VL037135.D
Acq: 8 Jun 2021 16:59

Tgt Ion: 63 Resp: 897651
Ion Ratio Lower Upper
63 100
41 0.0 55.7 83.5#
62 18.9 56.2 84.4#





#53

Toluene

Concen: 0.061 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.02 min

Lab File: VL037135.D

Acq: 8 Jun 2021 16:59

Instrument :

MSVOA_L

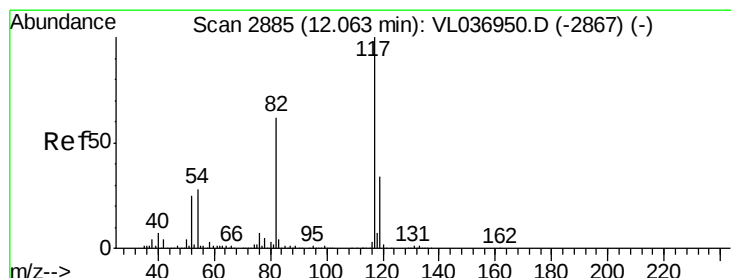
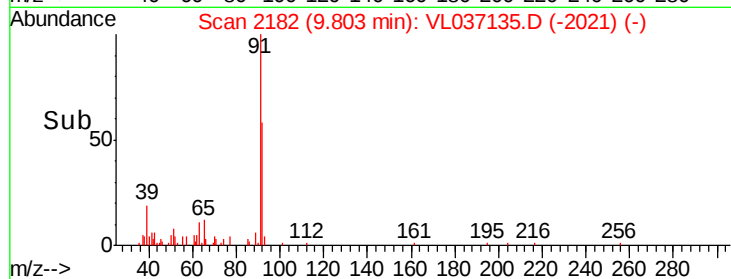
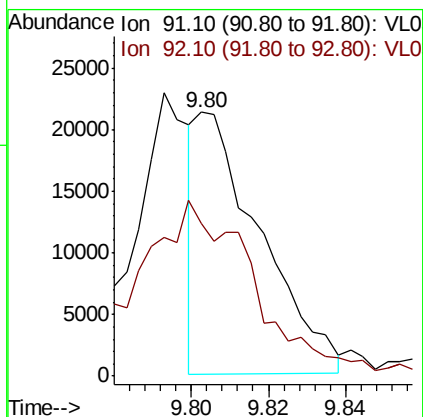
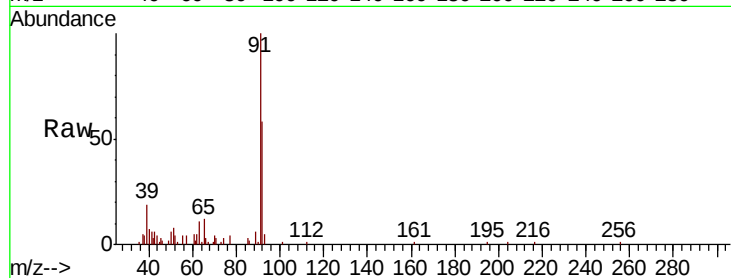
ClientSampleId :

Tot Ion: 91 Resp: 24508

Ion Ratio Lower Upper

91 100

92 131.6 49.5 74.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.02 min

Lab File: VL037135.D

Acq: 8 Jun 2021 16:59

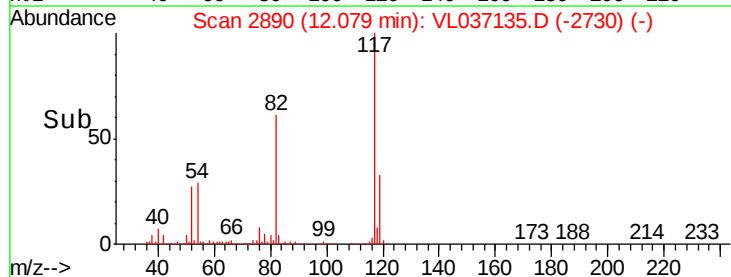
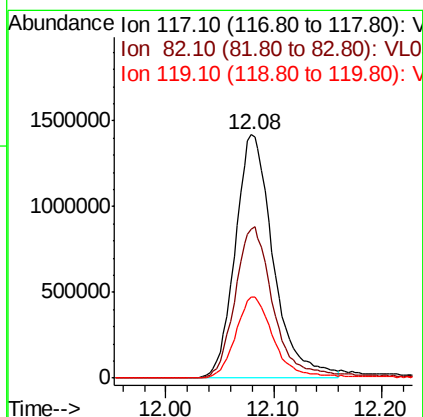
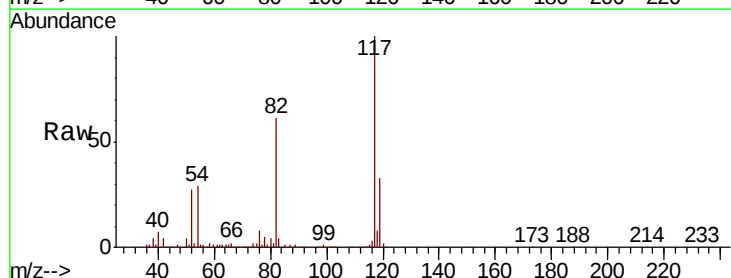
Tgt Ion: 117 Resp: 3492630

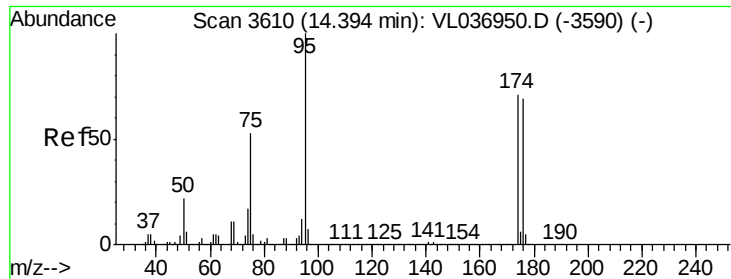
Ion Ratio Lower Upper

117 100

82 63.5 52.6 79.0

119 34.5 46.6 70.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.025 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.02 min

Lab File: VL037135.D

Acq: 8 Jun 2021 16:59

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2630241

Ion Ratio Lower Upper

95 100

174 73.8 58.4 87.6

175 5.2 4.4 6.6

