

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL036996.D
 Acq On : 19 May 2021 17:48
 Operator : SY/AP
 Sample : M2424-11DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KIA-01DL

Quant Time: May 20 06:31:02 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	1249046	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3696640	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3384044	10.00	ppbv	0.00

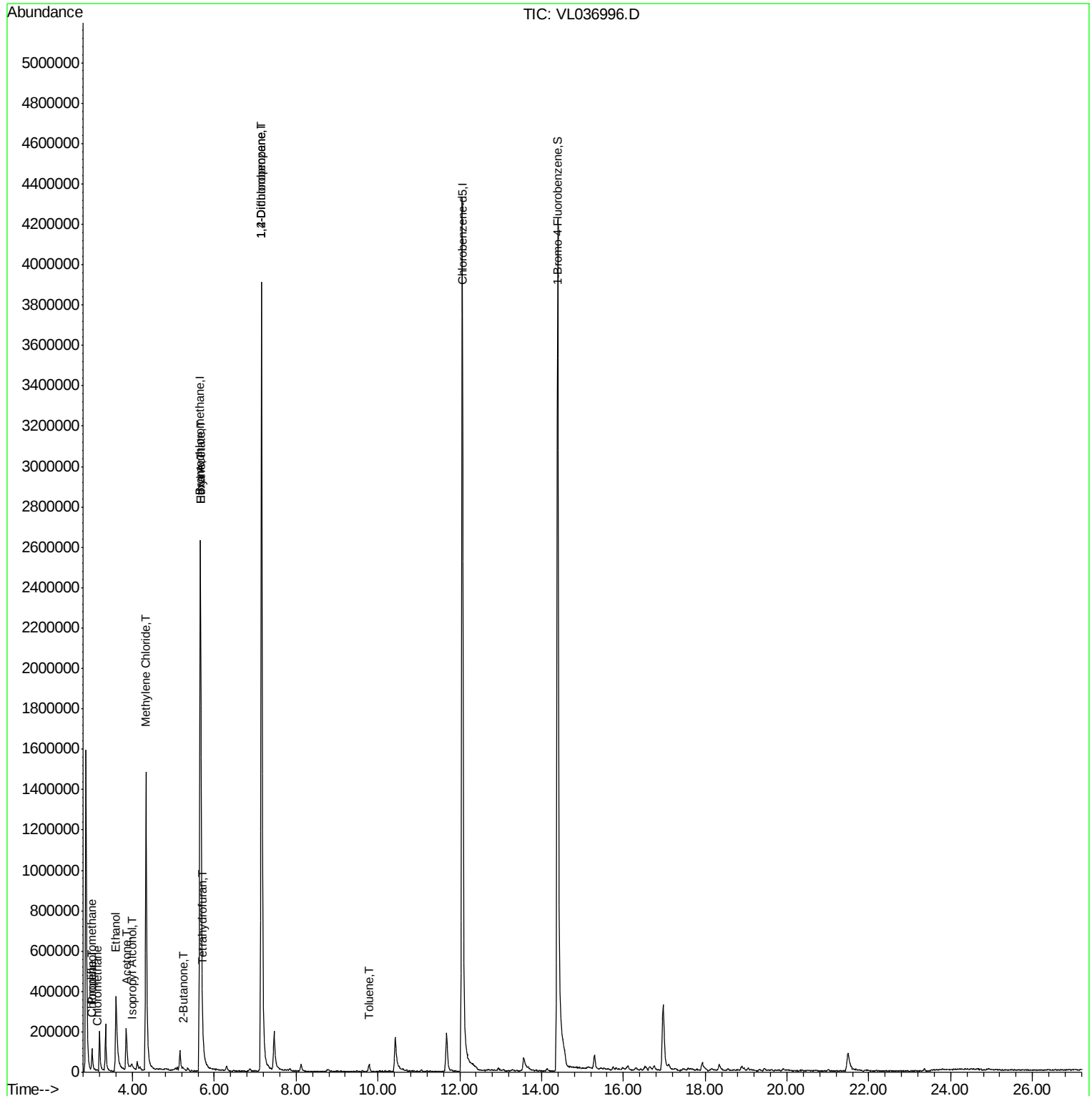
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2441953	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

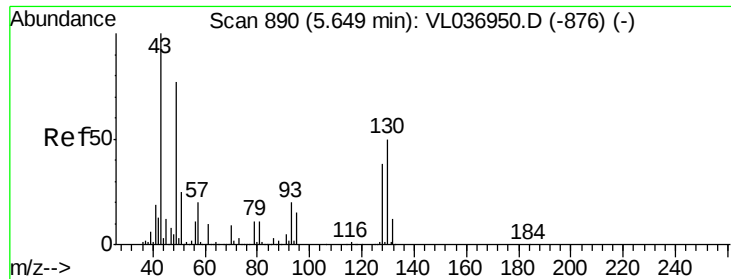
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	9497	0.042	ppbv #	89
4) Chloromethane	3.12	50	4835	0.062	ppbv	92
9) Propene	3.01	41	26102	0.319	ppbv	88
13) Ethanol	3.59	45	572546	52.370	ppbv	98
15) Acetone	3.84	43	270931	2.118	ppbv	92
19) Isopropyl Alcohol	3.98	45	10306	0.150	ppbv #	30
20) Methylene Chloride	4.33	84	665606	9.706	ppbv	98
25) Ethyl Acetate	5.67	43	421517	1.371	ppbv #	77
26) Hexane	5.67	57	608848	3.877	ppbv #	47
34) 2-Butanone	5.24	43	5181	0.038	ppbv #	1
39) 1,2-Dichloropropane	7.16	63	881197	7.184	ppbv #	25
41) Tetrahydrofuran	5.72	42	2794	0.036	ppbv #	36
53) Toluene	9.79	91	26592	0.070	ppbv	98

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL036996.D

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MSVOA_L

ClientSampleId :

KIA-01DL

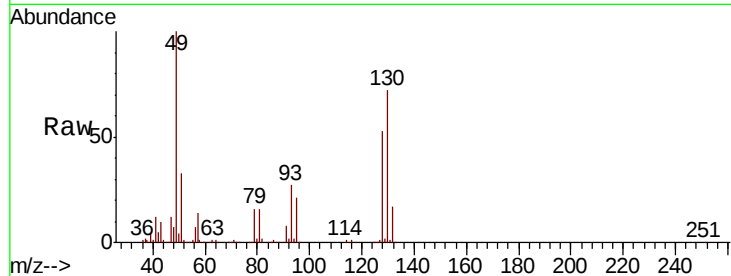
Tot Ion: 49 Resp: 1249046

Ion Ratio Lower Upper

49 100

128 56.1 26.9 80.7

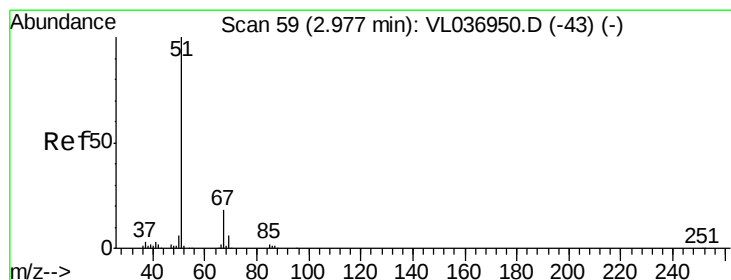
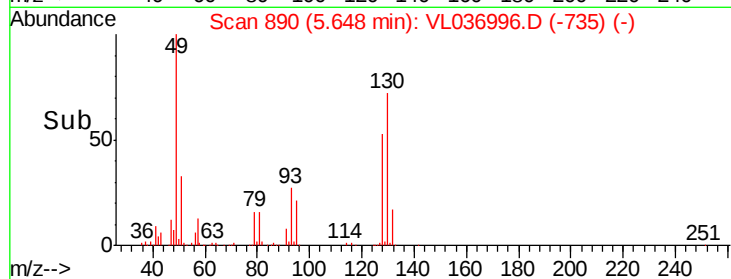
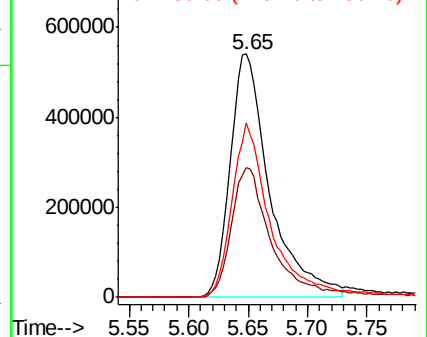
130 72.0 33.8 101.4



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



#3

Chlorodifluoromethane

Concen: 0.042 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL036996.D

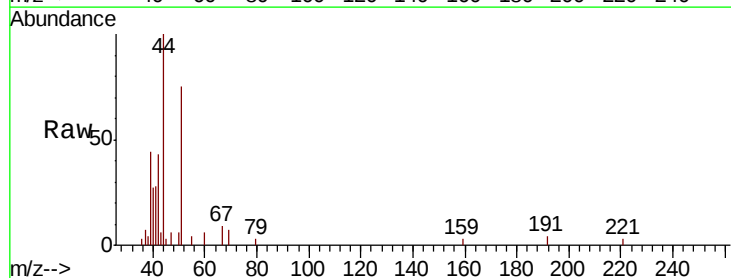
Acq: 19 May 2021 17:48

Tgt Ion: 51 Resp: 9497

Ion Ratio Lower Upper

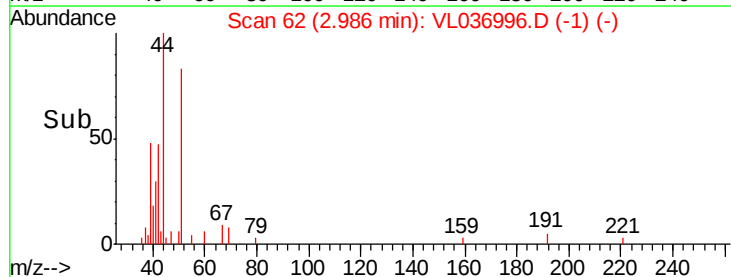
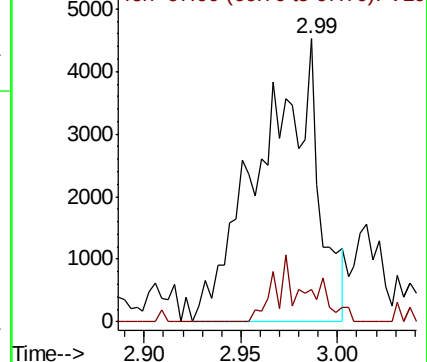
51 100

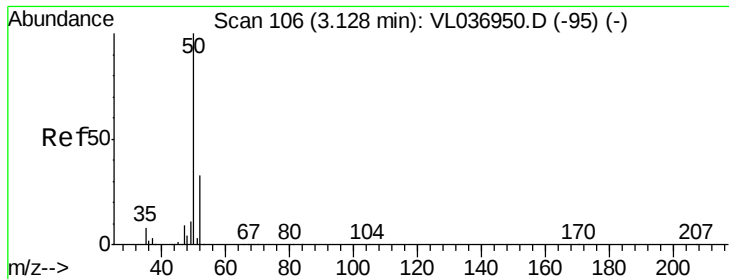
67 13.2 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.062 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

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MSVOA_L

ClientSampleId :

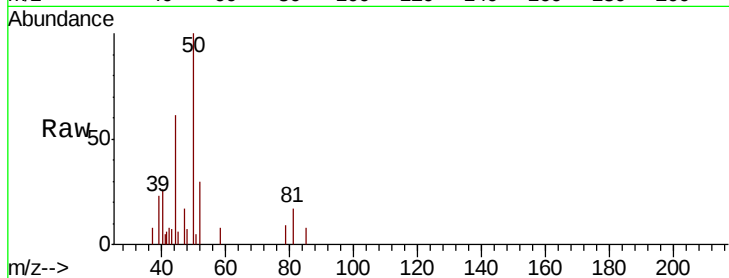
KIA-01DL

Tot Ion: 50 Resp: 4835

Ion Ratio Lower Upper

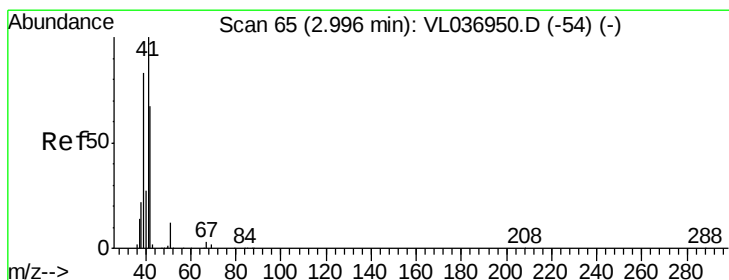
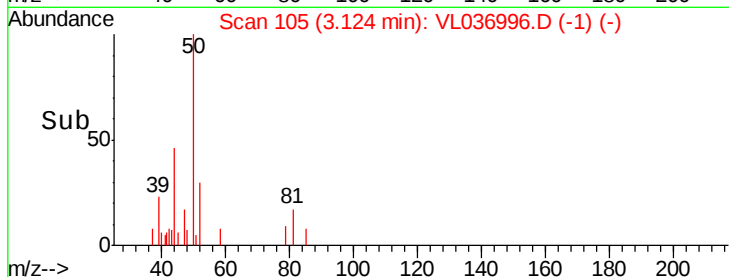
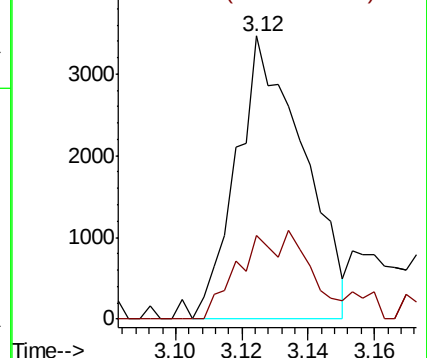
50 100

52 28.3 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: 0.319 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL036996.D

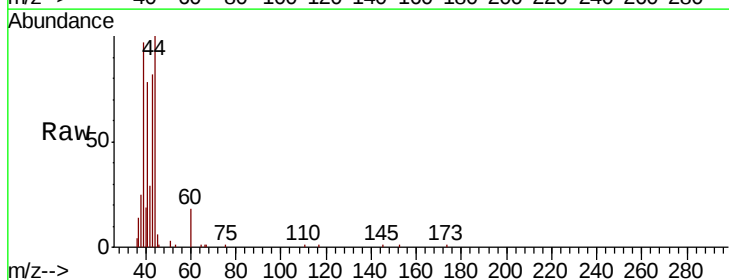
Acq: 19 May 2021 17:48

Tgt Ion: 41 Resp: 26102

Ion Ratio Lower Upper

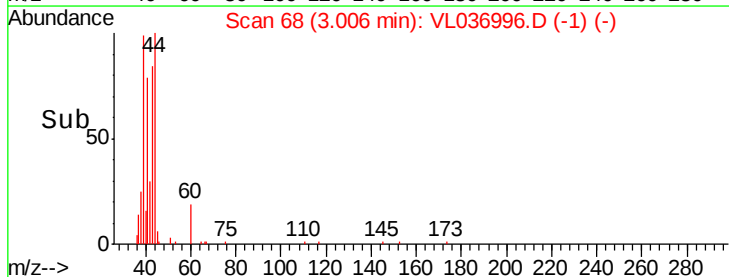
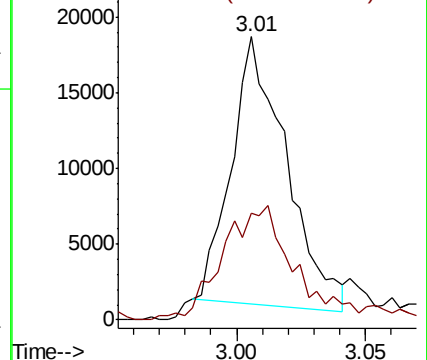
41 100

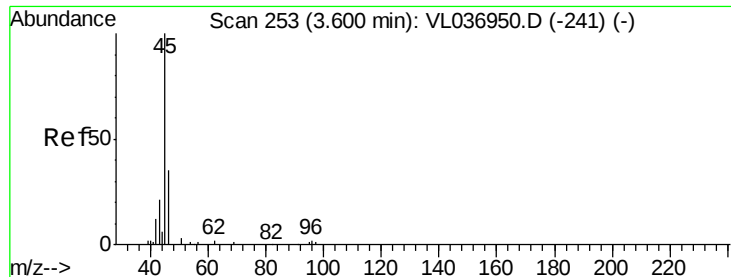
42 58.0 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

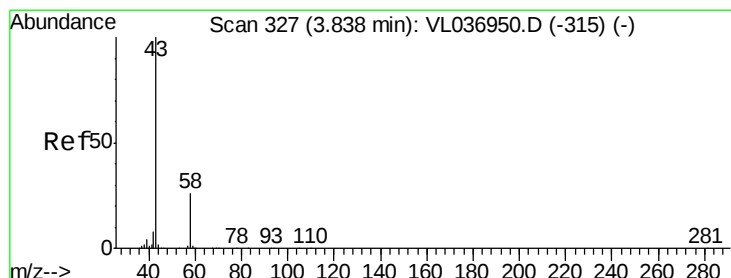
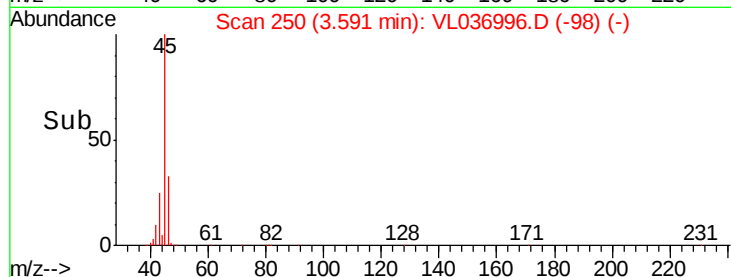
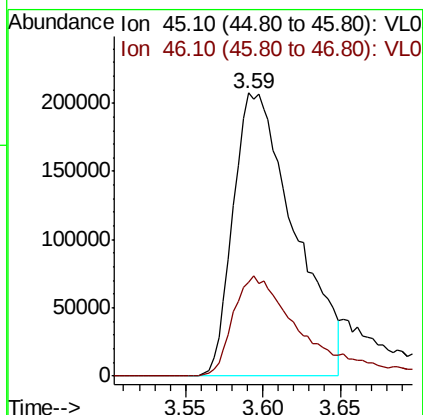
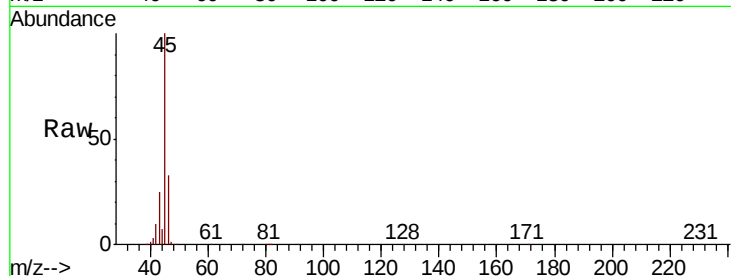




#13
Ethanol
Concen: 52.370 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.01 min
Lab File: VL036996.D
Acq: 19 May 2021 17:48

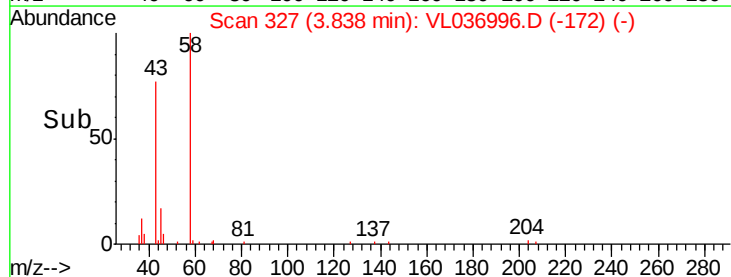
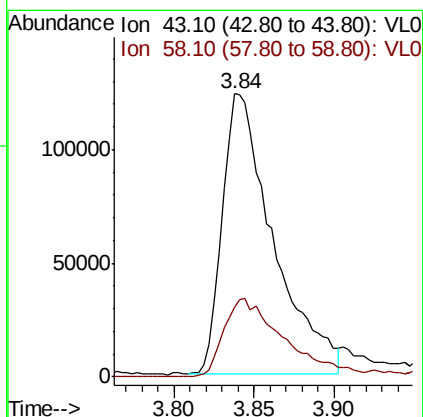
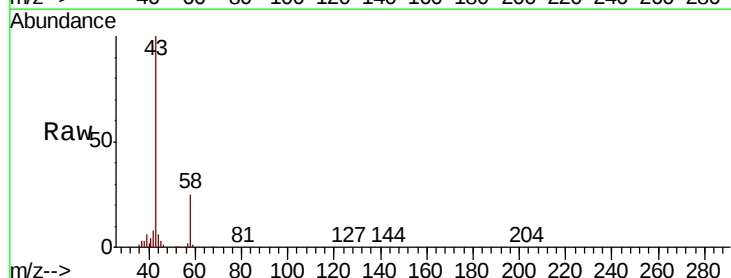
Instrument :
MSVOA_L
ClientSampleId :
KIA-01DL

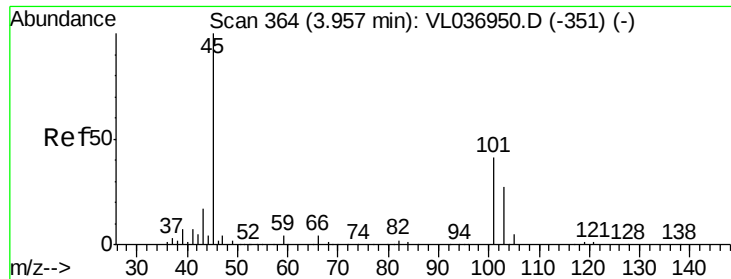
Tot Ion: 45 Resp: 572546
Ion Ratio Lower Upper
45 100
46 42.3 16.3 65.3



#15
Acetone
Concen: 2.118 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL036996.D
Acq: 19 May 2021 17:48

Tgt Ion: 43 Resp: 270931
Ion Ratio Lower Upper
43 100
58 34.5 24.0 36.0





#19

Isopropyl Alcohol

Concen: 0.150 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

Instrument :

MSVOA_L

ClientSampleId :

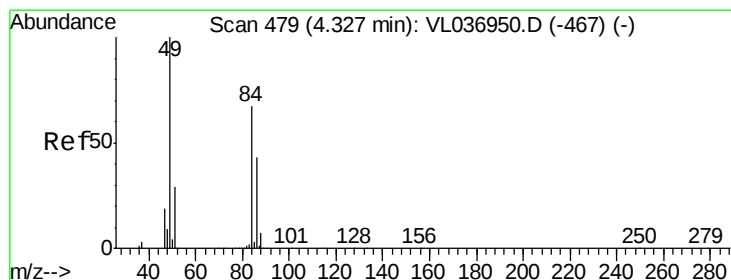
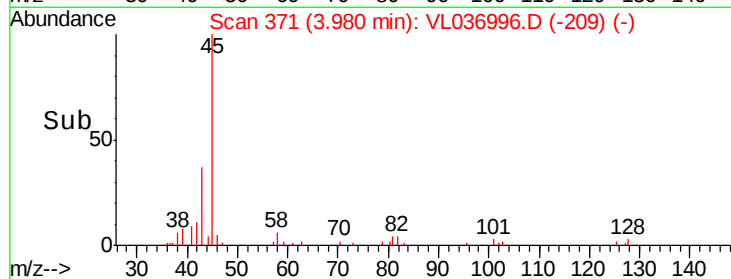
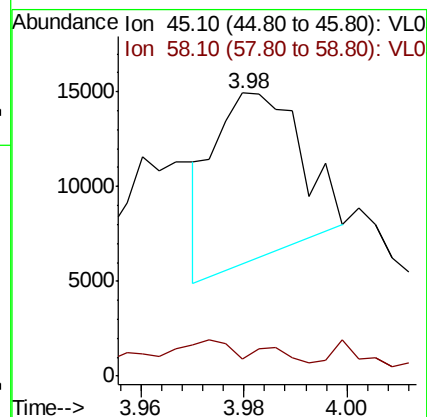
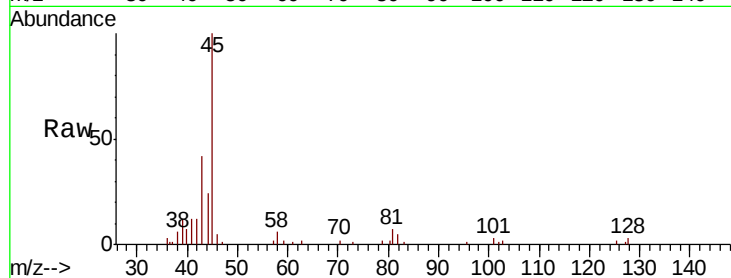
KIA-01DL

Tot Ion: 45 Resp: 10306

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 9.706 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

Tgt Ion: 84 Resp: 665606

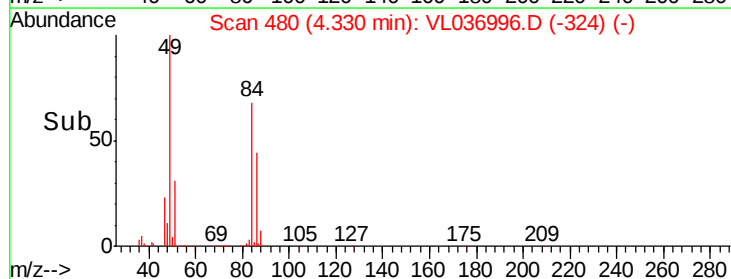
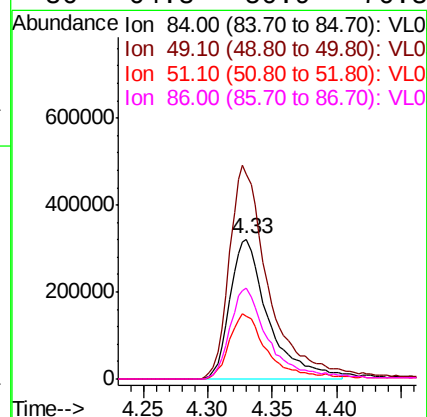
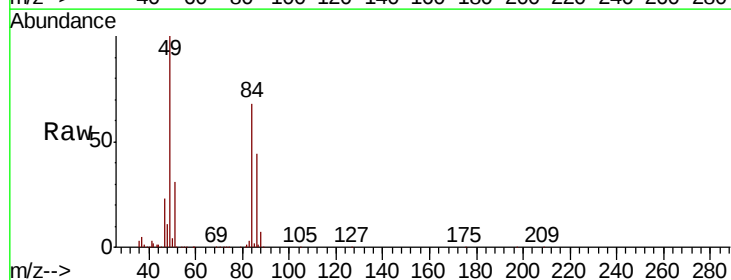
Ion Ratio Lower Upper

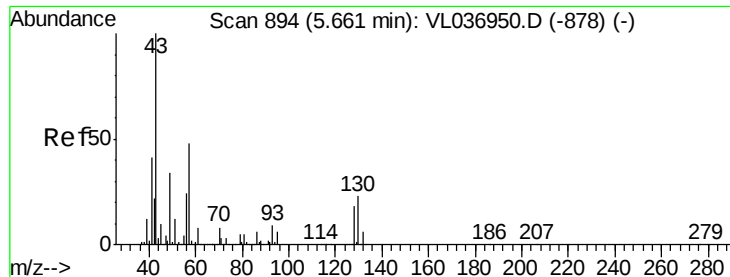
84 100

49 146.5 119.8 179.6

51 45.3 35.1 52.7

86 64.8 50.9 76.3

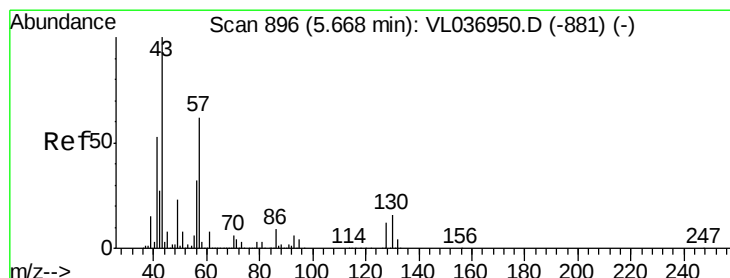
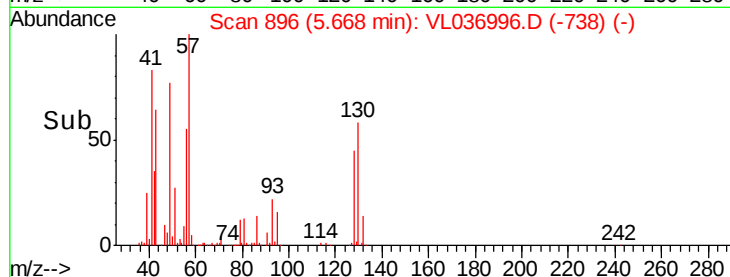
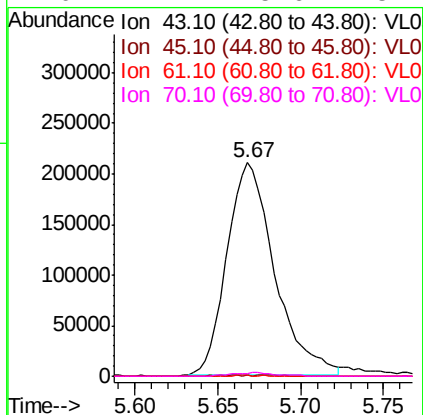
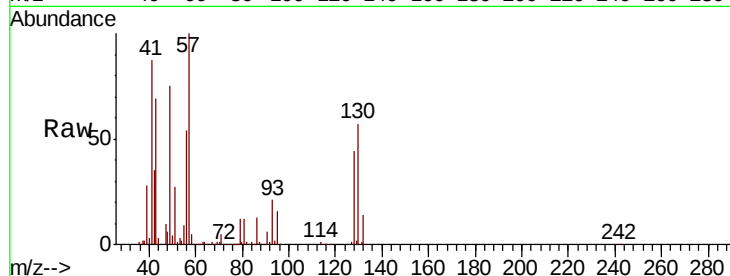




#25
Ethyl Acetate
Concen: 1.371 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL036996.D
Acq: 19 May 2021 17:48

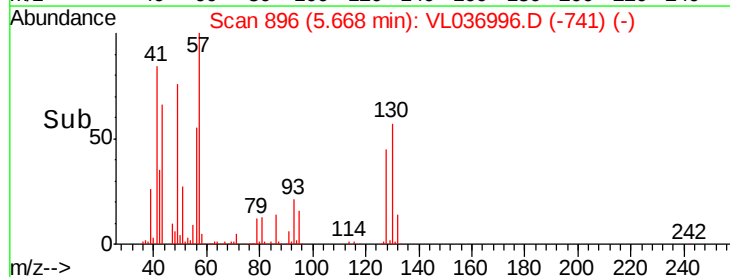
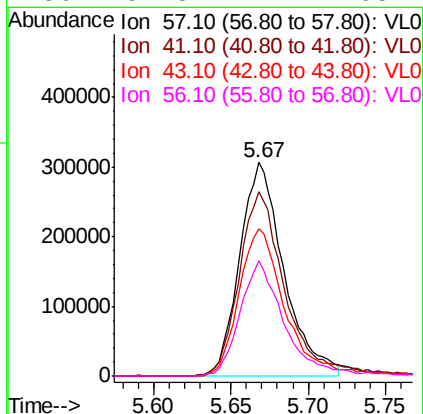
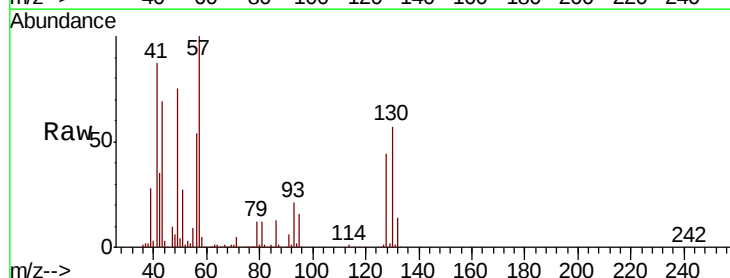
Instrument :
MSVOA_L
ClientSampleId :
KIA-01DL

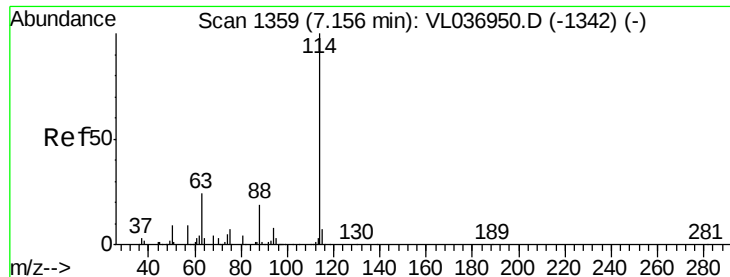
Tot Ion:	43	Resp:	421517
Ion	Ratio	Lower	Upper
43	100		
45	0.3	7.8	11.8#
61	0.3	7.8	11.8#
70	1.7	5.6	8.4#



#26
Hexane
Concen: 3.877 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036996.D
Acq: 19 May 2021 17:48

Tgt Ion:	57	Resp:	608848
Ion	Ratio	Lower	Upper
57	100		
41	91.3	70.5	105.7
43	72.7	165.8	248.8#
56	54.8	42.2	63.4

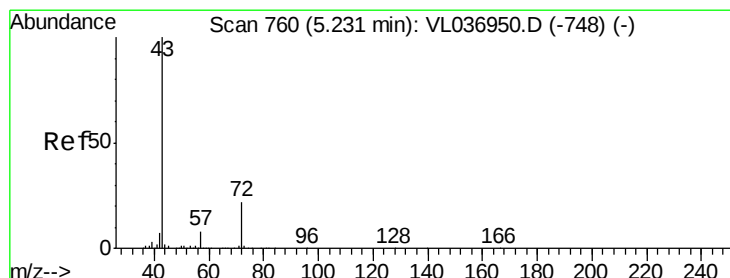
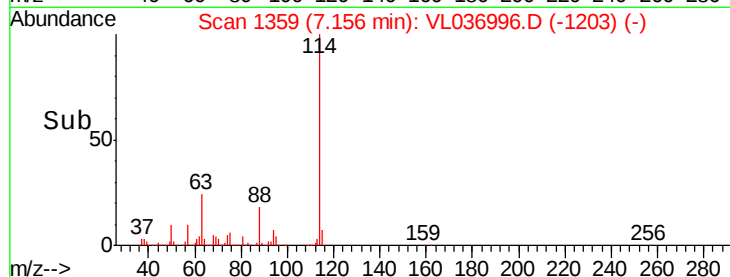
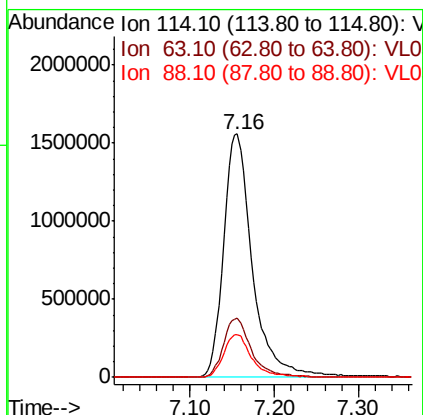
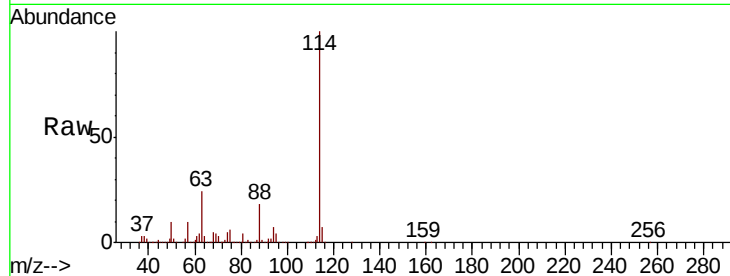




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL036996.D
 Acq: 19 May 2021 17:48

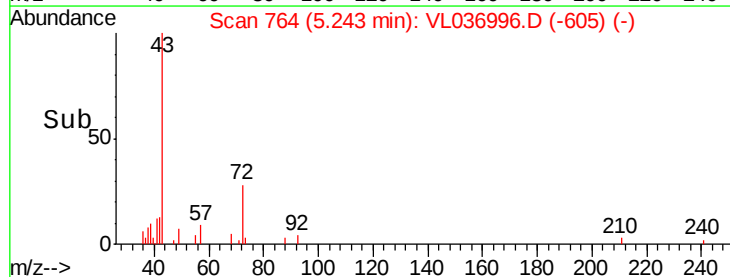
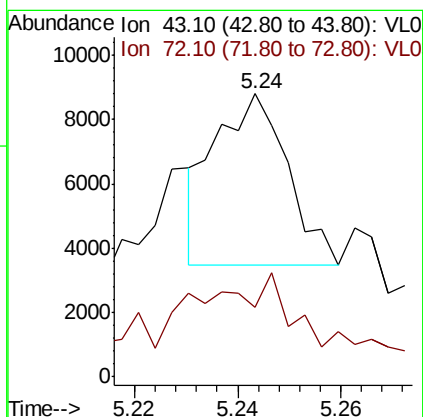
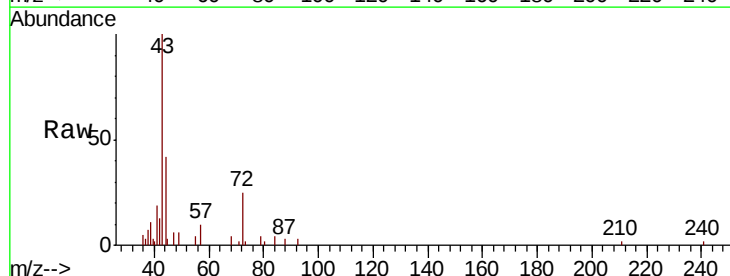
Instrument :
 MSVOA_L
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 KIA-01DL

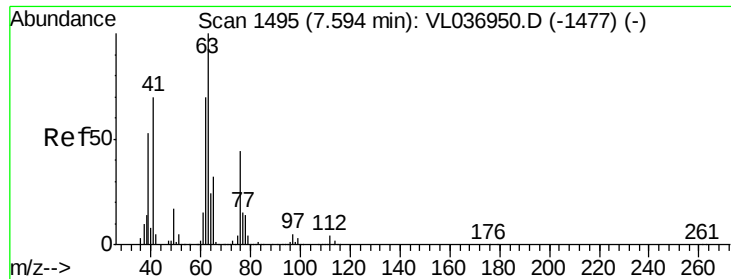
Tot Ion:114 Resp: 3696640
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.6 29.4
 88 17.7 14.6 21.8



#34
 2-Butanone
 Concen: 0.038 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL036996.D
 Acq: 19 May 2021 17:48

Tgt Ion: 43 Resp: 5181
 Ion Ratio Lower Upper
 43 100
 72 124.2 19.0 28.4#





#39

1,2-Dichloropropane

Concen: 7.184 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

Instrument :

MSVOA_L

ClientSampleId :

KIA-01DL

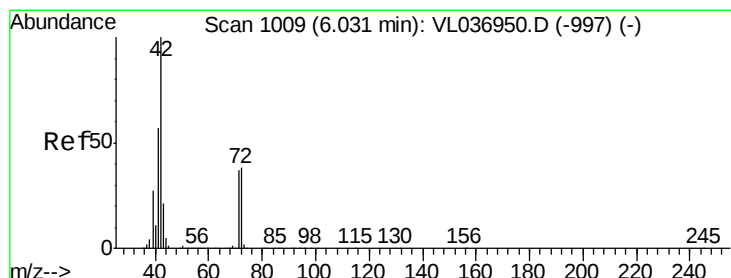
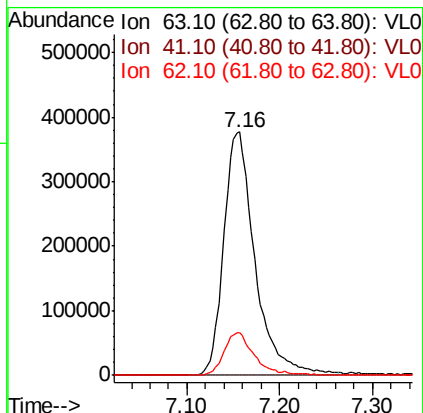
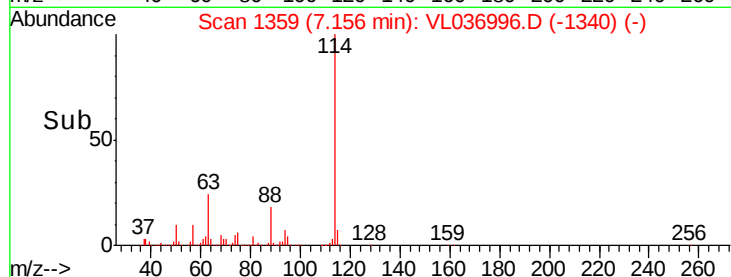
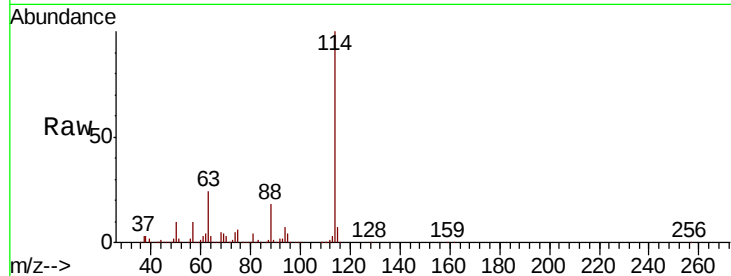
Tot Ion: 63 Resp: 881197

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

62 17.3 56.2 84.4#



#41

Tetrahydrofuran

Concen: 0.036 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.32 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

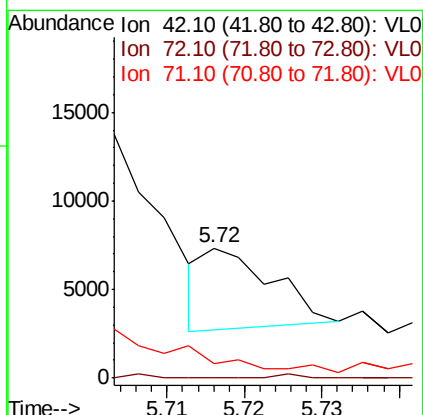
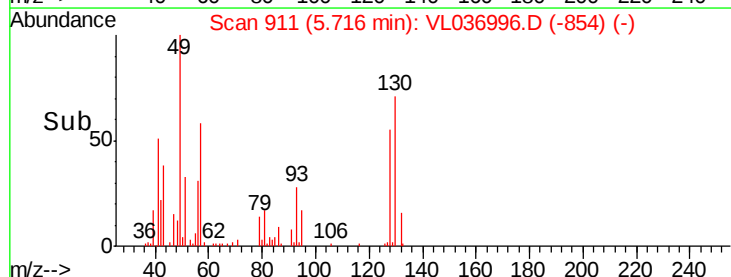
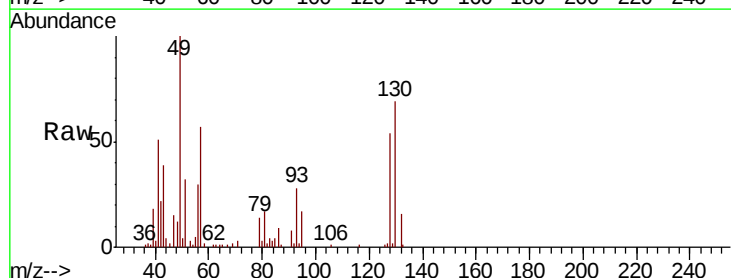
Tgt Ion: 42 Resp: 2794

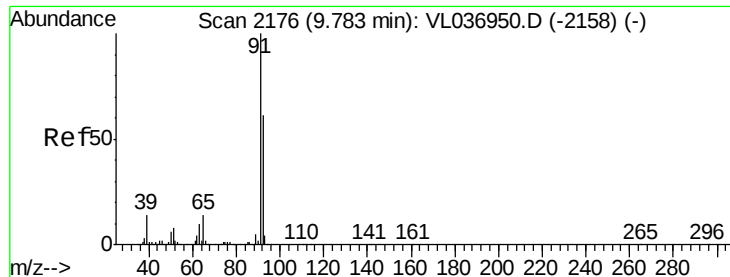
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 30.4 45.6#





#53

Toluene

Concen: 0.070 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

Instrument :

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ClientSampleId :

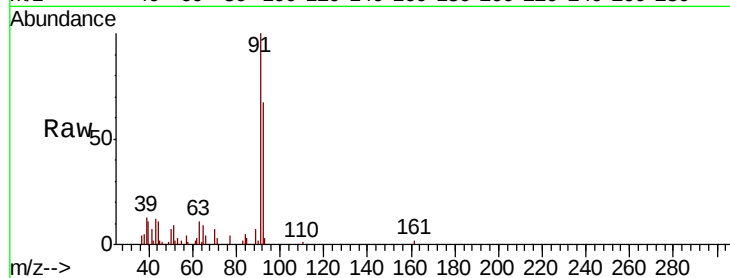
KIA-01DL

Tot Ion: 91 Resp: 26592

Ion Ratio Lower Upper

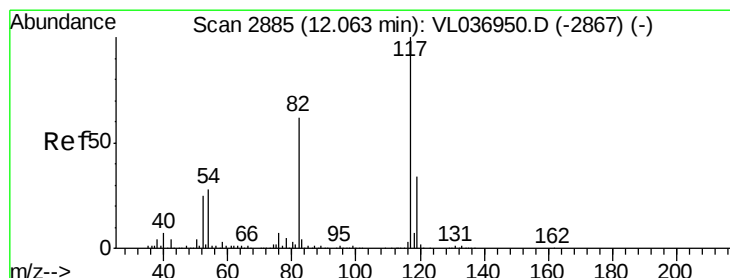
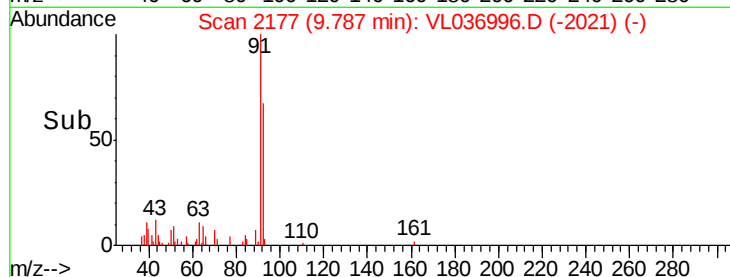
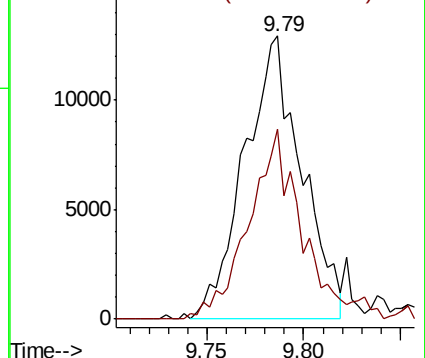
91 100

92 63.7 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

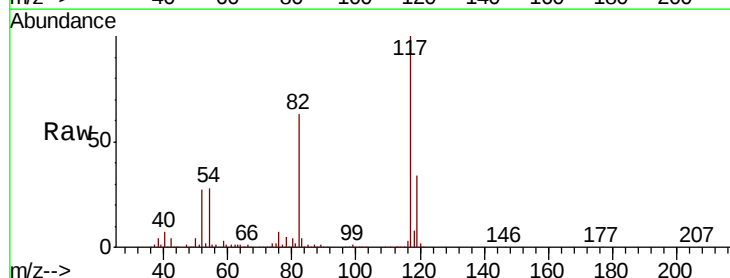
Tgt Ion: 117 Resp: 3384044

Ion Ratio Lower Upper

117 100

82 63.2 52.6 79.0

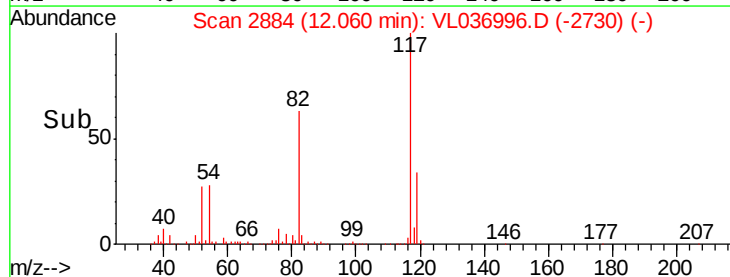
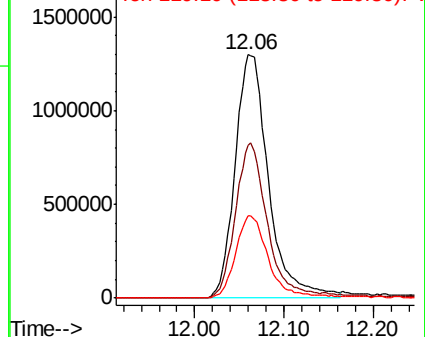
119 33.9 46.6 70.0#

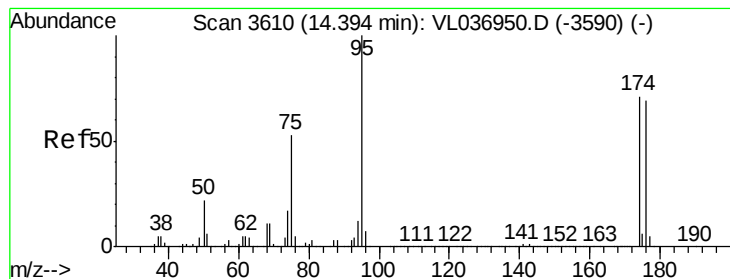


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.606 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036996.D

Acq: 19 May 2021 17:48

Instrument :

MSVOA_L

ClientSampleId :

KIA-01DL

Tot Ion: 95 Resp: 2441953

Ion Ratio Lower Upper

95 100

174 76.7 58.4 87.6

175 5.6 4.4 6.6

