

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037014.D
 Acq On : 20 May 2021 5:36
 Operator : SY/AP
 Sample : M2424-09DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-09DL

Quant Time: May 20 06:36:39 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	5.64	49	937592	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.14	114	2873659	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	2543349	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	1964412	10.28	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%	

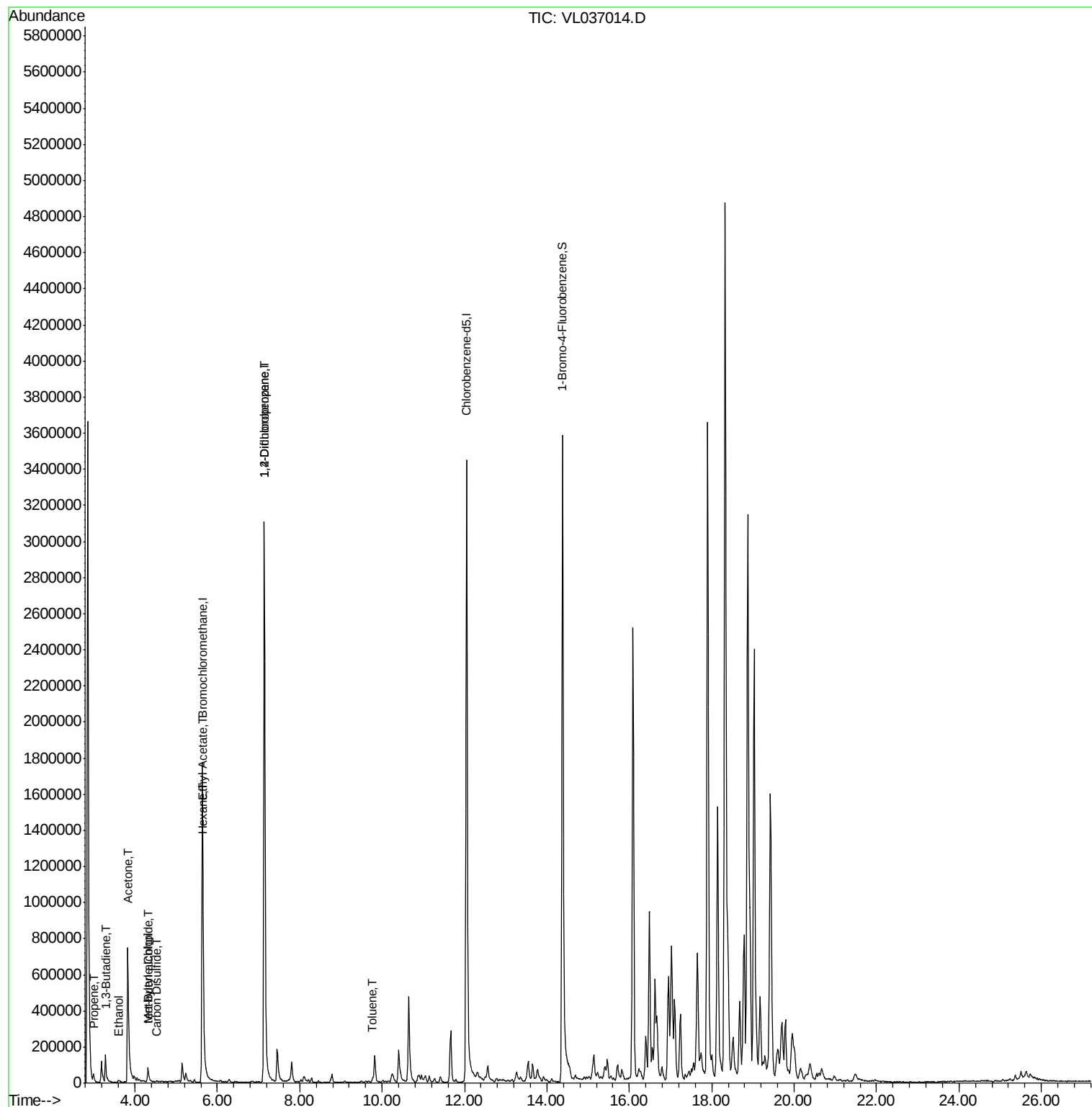
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.99	41	19045	0.310	ppbv	96
13) Ethanol	3.59	45	4314	0.526	ppbv #	35
15) Acetone	3.83	43	1128674	11.753	ppbv	99
16) 1,3-Butadiene	3.29	39	45669	0.765	ppbv #	17
17) tert-Butyl alcohol	4.31	59	6482	0.074	ppbv	98
20) Methylene Chloride	4.32	84	12950	0.252	ppbv	92
25) Ethyl Acetate	5.66	43	31171	0.135	ppbv #	91
26) Hexane	5.66	57	33180	0.281	ppbv #	28
27) Carbon Disulfide	4.52	76	3816	0.032	ppbv #	1
39) 1,2-Dichloropropane	7.14	63	679609	7.127	ppbv #	25
53) Toluene	9.77	91	13228	0.045	ppbv #	74

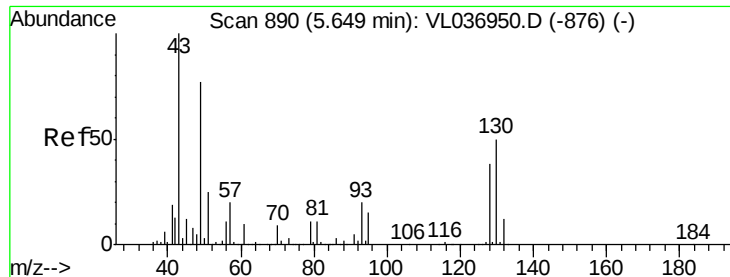
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.01 min

Lab File: VL037014.D

Acq: 20 May 2021 5:36

Instrument :

MSVOA_L

ClientSampleId :

KSV-09DL

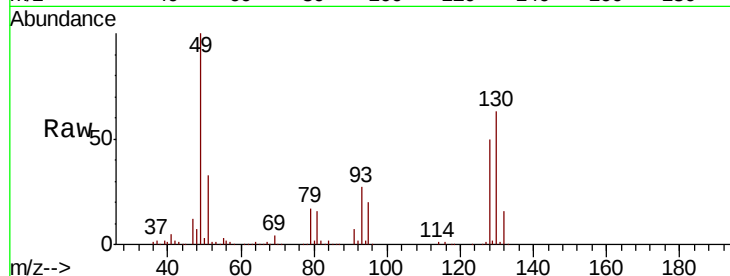
Tot Ion: 49 Resp: 937592

Ion Ratio Lower Upper

49 100

128 56.4 26.9 80.7

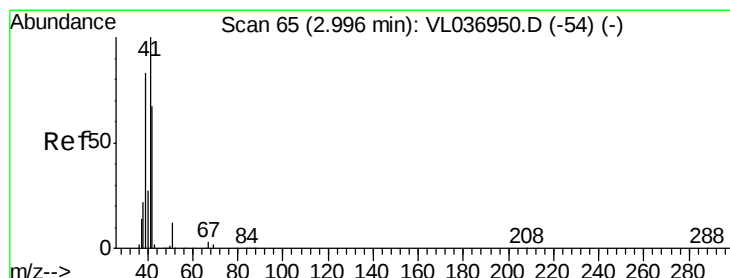
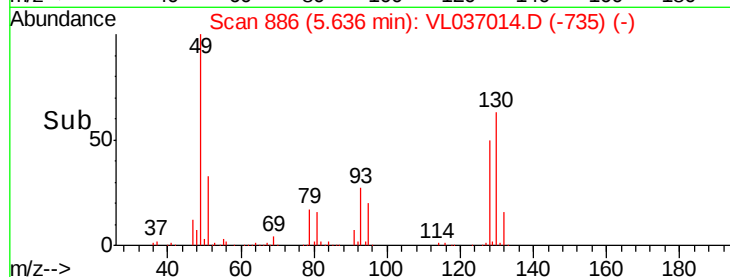
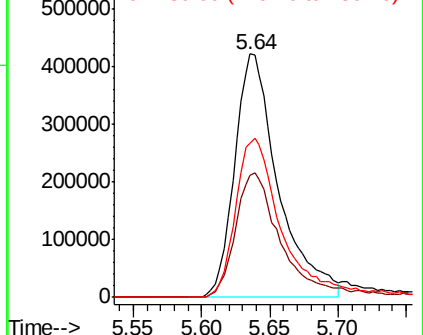
130 73.4 33.8 101.4



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



#9

Propene

Concen: 0.310 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

Lab File: VL037014.D

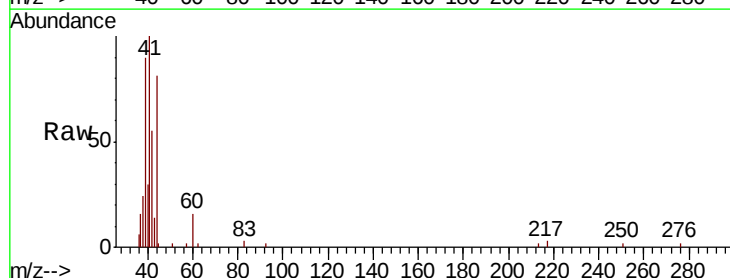
Acq: 20 May 2021 5:36

Tgt Ion: 41 Resp: 19045

Ion Ratio Lower Upper

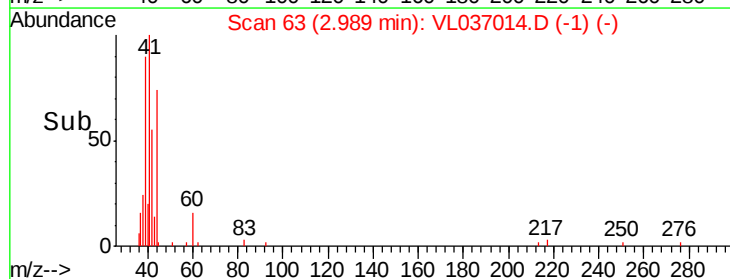
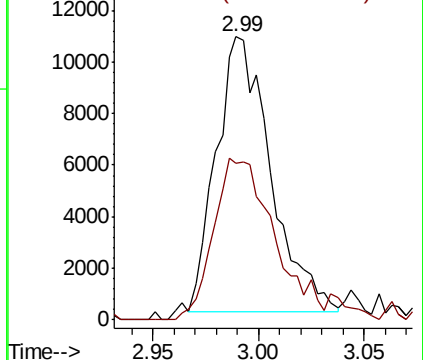
41 100

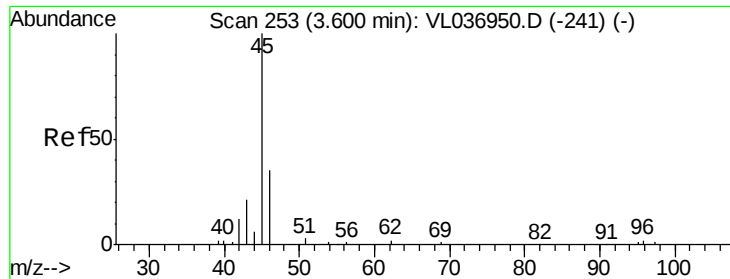
42 70.5 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

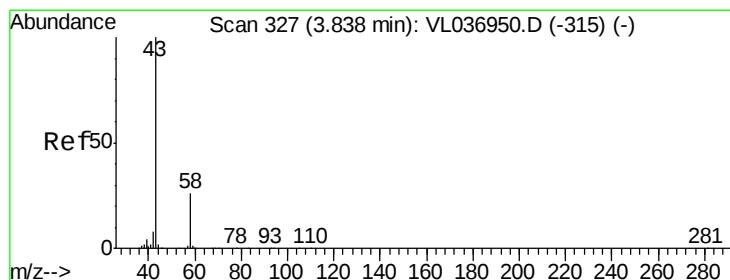
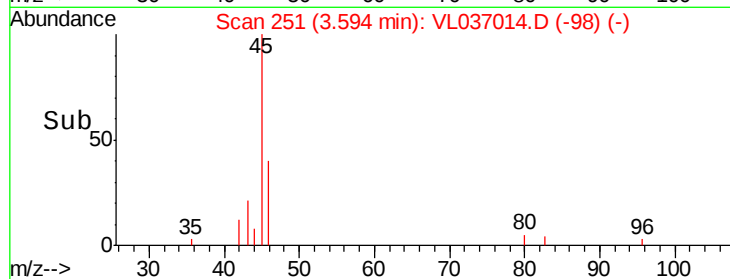
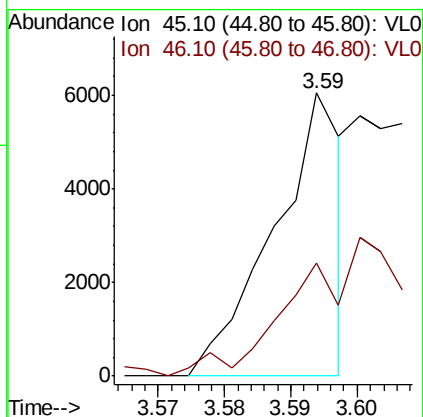
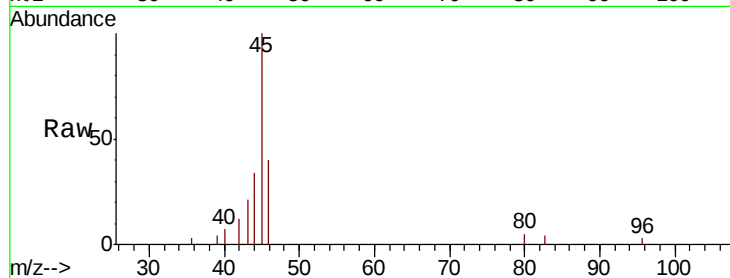




#13
Ethanol
Concen: 0.526 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL037014.D
Acq: 20 May 2021 5:36

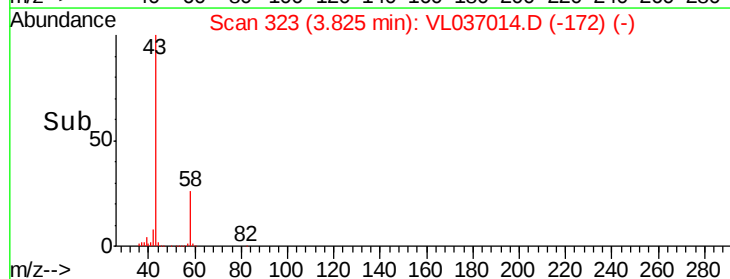
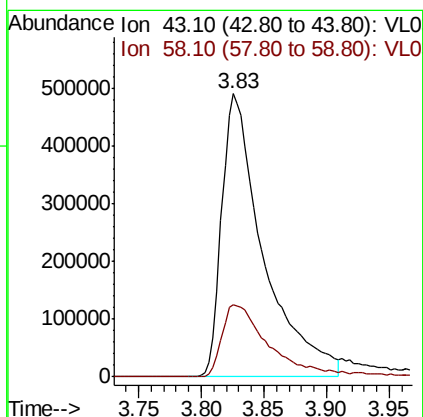
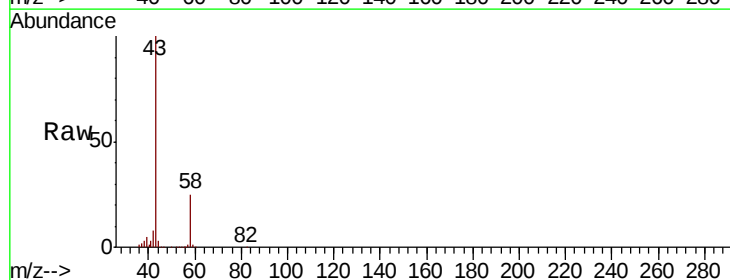
Instrument :
MSVOA_L
ClientSampleId :
KSV-09DL

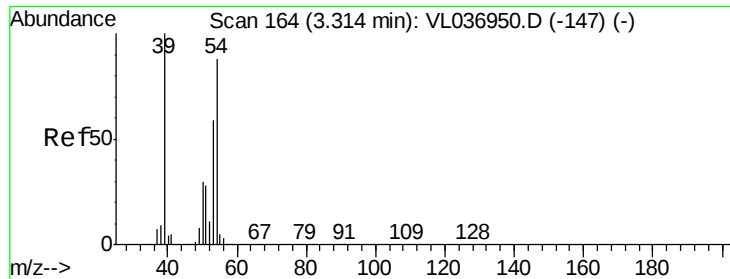
Tot Ion: 45 Resp: 4314
Ion Ratio Lower Upper
45 100
46 0.0 16.3 65.3#



#15
Acetone
Concen: 11.753 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.01 min
Lab File: VL037014.D
Acq: 20 May 2021 5:36

Tgt Ion: 43 Resp: 1128674
Ion Ratio Lower Upper
43 100
58 30.7 24.0 36.0

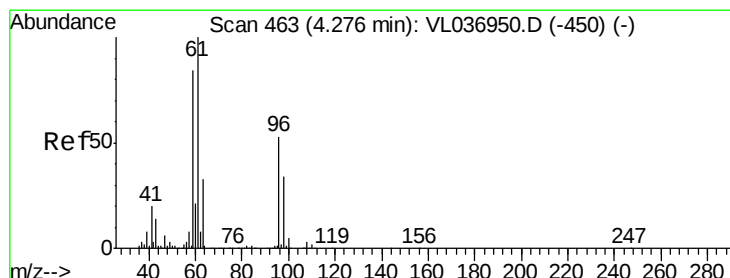
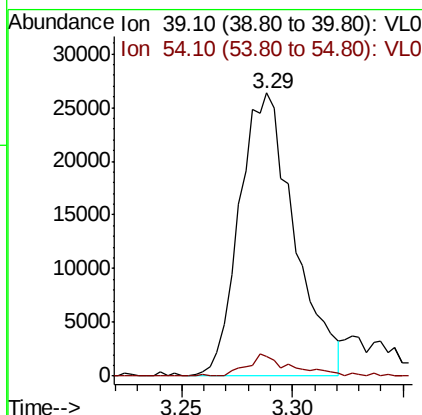
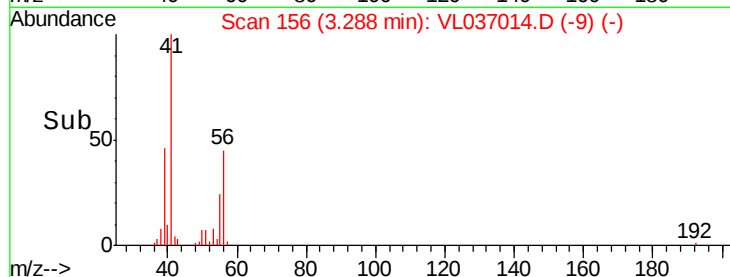
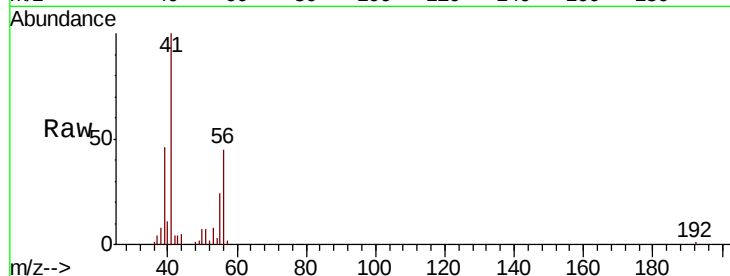




#16
 1,3-Butadiene
 Concen: 0.765 ppbv
 RT: 3.29 min Scan# 156
 Delta R.T. -0.03 min
 Lab File: VL037014.D
 Acq: 20 May 2021 5:36

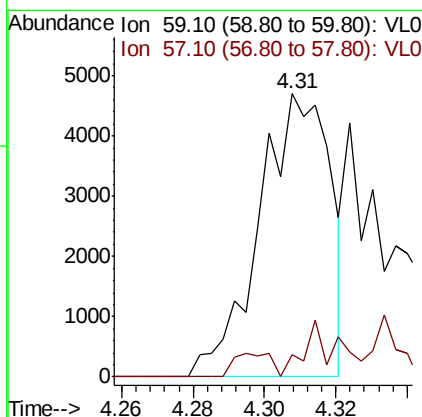
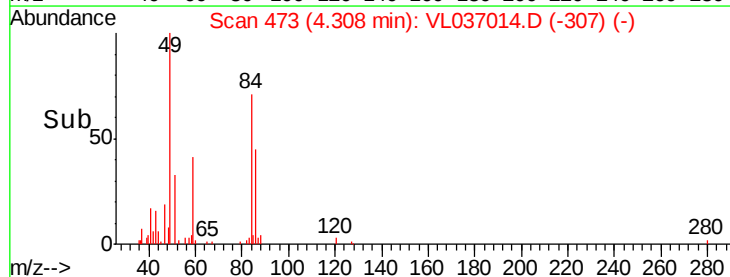
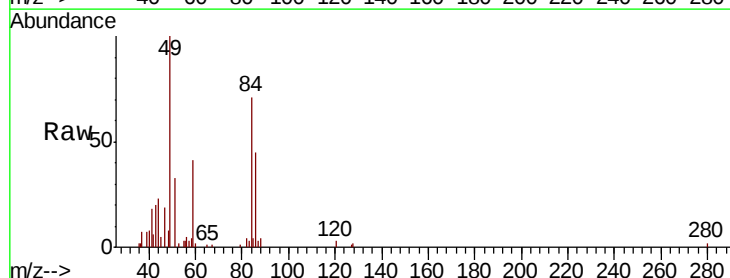
Instrument :
 MSVOA_L
 ClientSampleID :
 KSV-09DL

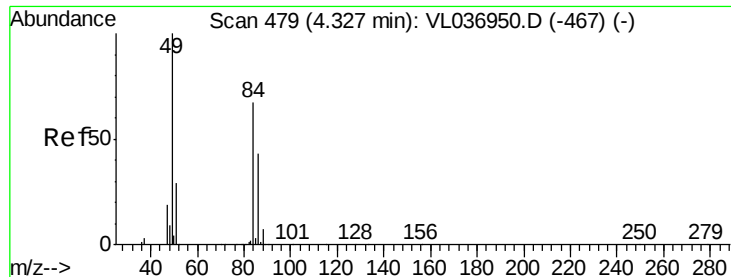
Tot Ion: 39 Resp: 45669
 Ion Ratio Lower Upper
 39 100
 54 6.5 63.2 94.8#



#17
 tert-Butyl alcohol
 Concen: 0.074 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.03 min
 Lab File: VL037014.D
 Acq: 20 May 2021 5:36

Tgt Ion: 59 Resp: 6482
 Ion Ratio Lower Upper
 59 100
 57 9.6 8.3 12.5

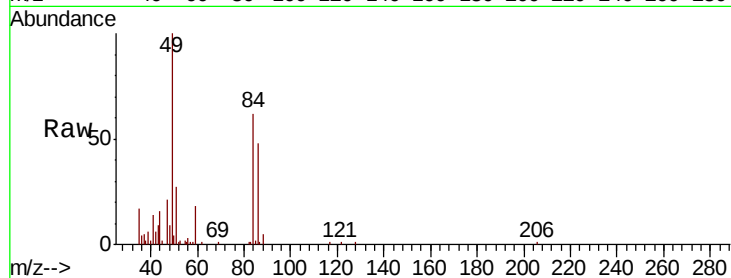




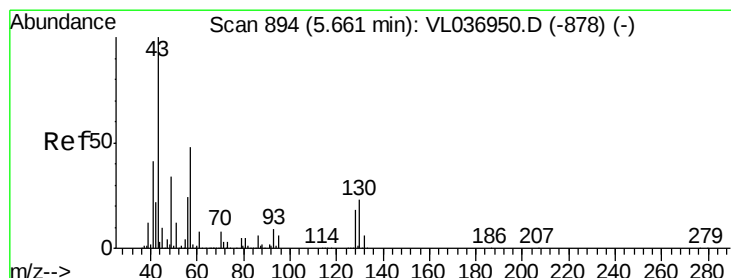
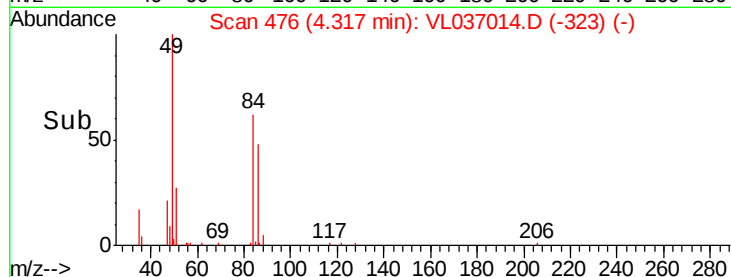
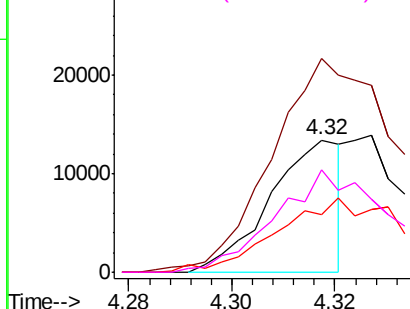
#20
Methylene Chloride
Concen: 0.252 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.01 min
Lab File: VL037014.D
Acq: 20 May 2021 5:36

Instrument :
MSVOA_L
ClientSampleId :
KSV-09DL

Tot Ion:	84	Resp:	12950
Ion	Ratio	Lower	Upper
84	100		
49	156.7	119.8	179.6
51	37.9	35.1	52.7
86	74.5	50.9	76.3

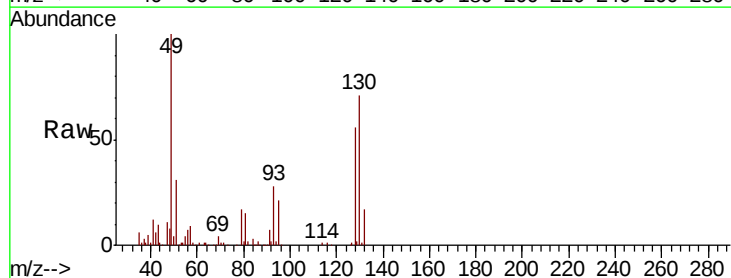


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

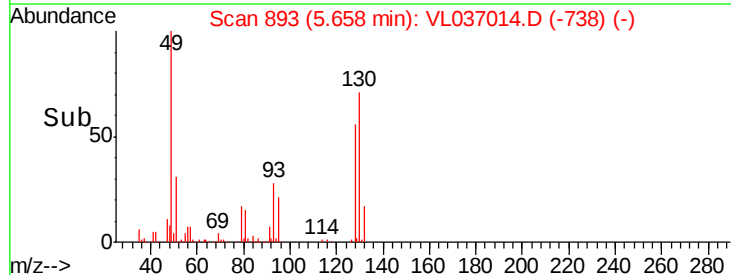
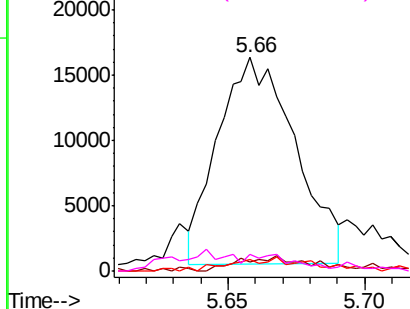


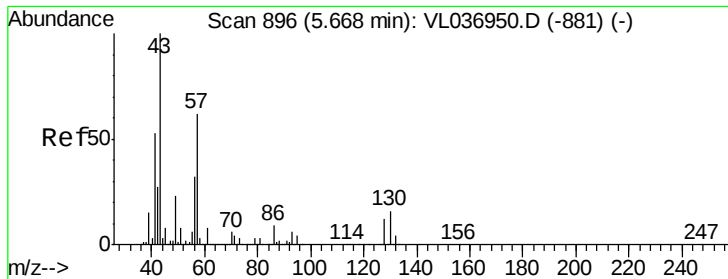
#25
Ethyl Acetate
Concen: 0.135 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL037014.D
Acq: 20 May 2021 5:36

Tgt Ion:	43	Resp:	31171
Ion	Ratio	Lower	Upper
43	100		
45	8.6	7.8	11.8
61	7.7	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: 0.281 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037014.D

Acq: 20 May 2021 5:36

Instrument :

MSVOA_L

ClientSampleId :

KSV-09DL

Tot Ion: 57 Resp: 33180

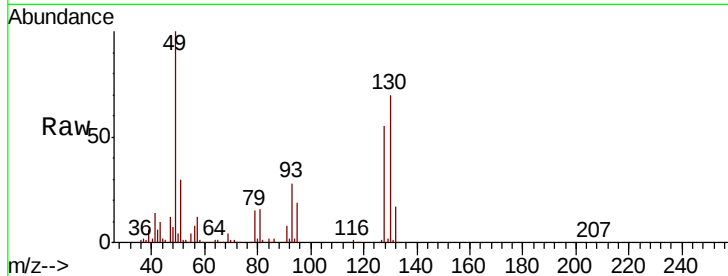
Ion Ratio Lower Upper

57 100

41 212.5 70.5 105.7#

43 135.3 165.8 248.8#

56 100.7 42.2 63.4#

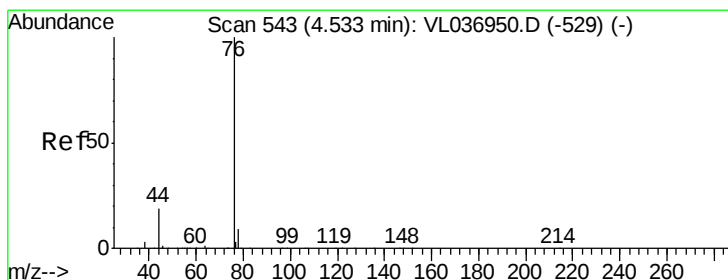
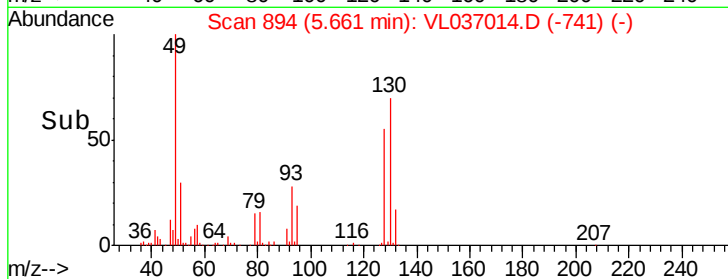
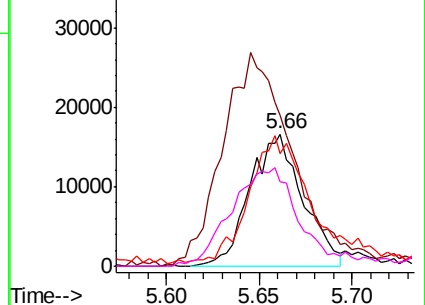


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.032 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.01 min

Lab File: VL037014.D

Acq: 20 May 2021 5:36

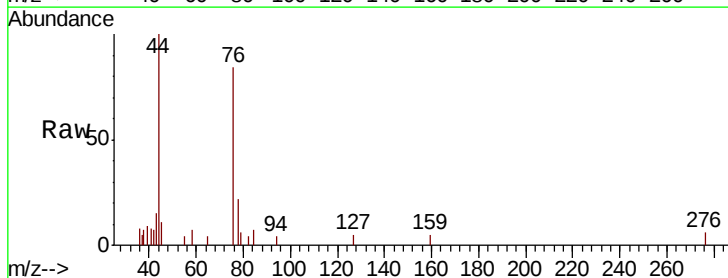
Tgt Ion: 76 Resp: 3816

Ion Ratio Lower Upper

76 100

44 80.9 15.5 23.3#

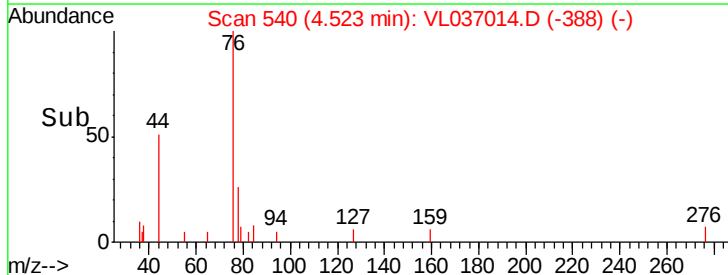
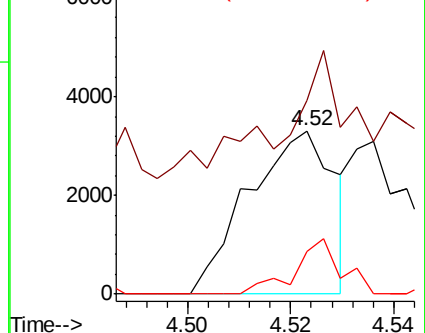
78 19.8 7.8 11.6#

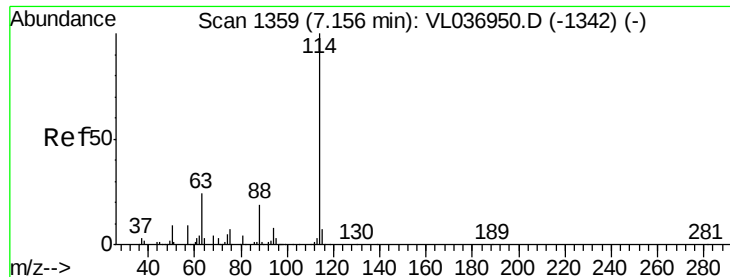


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

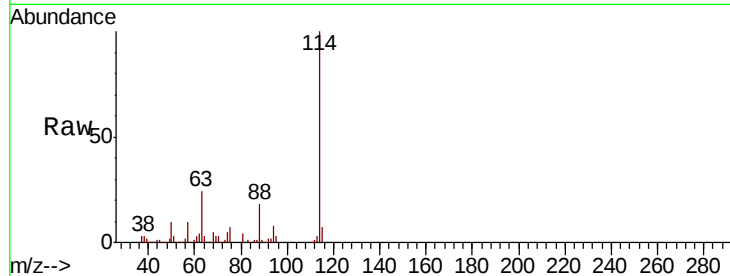




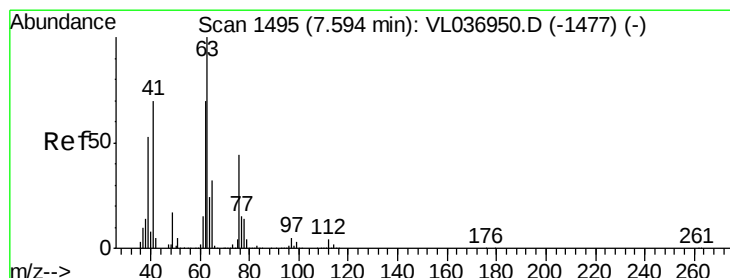
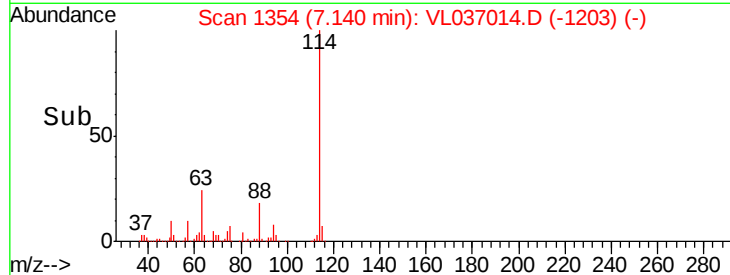
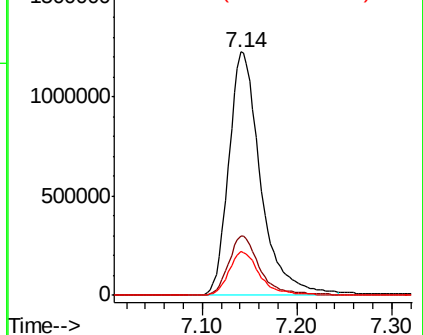
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.02 min
 Lab File: VL037014.D
 Acq: 20 May 2021 5:36

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-09DL

Tot Ion:114 Resp: 2873659
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.6 29.4
 88 17.9 14.6 21.8

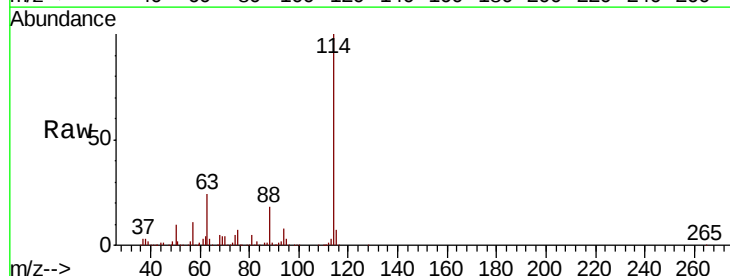


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

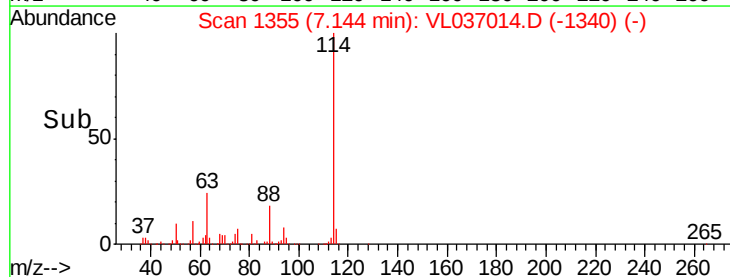
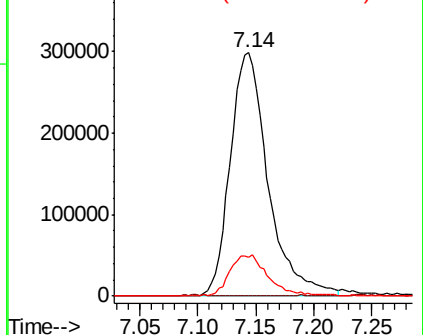


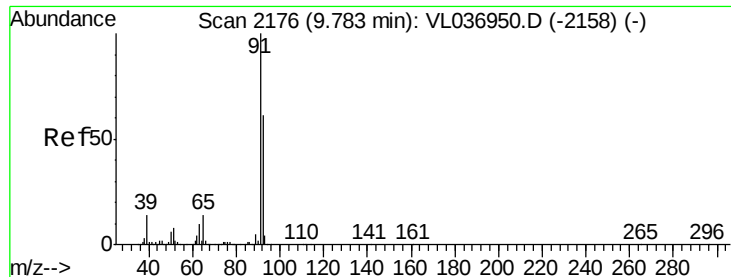
#39
 1,2-Dichloropropane
 Concen: 7.127 ppbv
 RT: 7.14 min Scan# 1355
 Delta R.T. -0.45 min
 Lab File: VL037014.D
 Acq: 20 May 2021 5:36

Tgt Ion: 63 Resp: 679609
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.7 83.5#
 62 16.2 56.2 84.4#



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





#53

Toluene

Concen: 0.045 ppbv

RT: 9.77 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL037014.D

Acq: 20 May 2021 5:36

Instrument :

MSVOA_L

ClientSampleId :

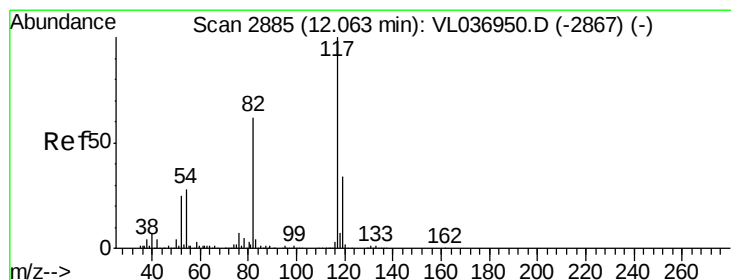
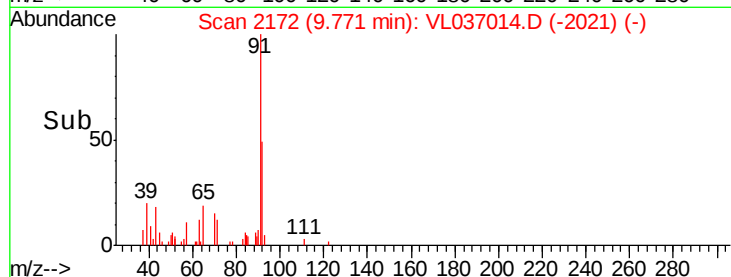
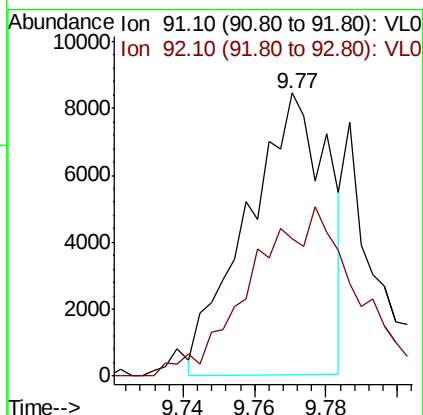
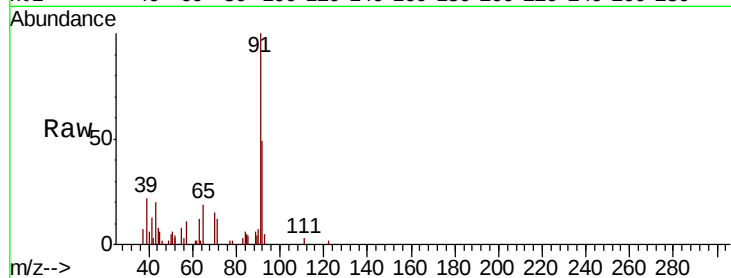
KSV-09DL

Tot Ion: 91 Resp: 13228

Ion Ratio Lower Upper

91 100

92 81.8 49.5 74.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2881

Delta R.T. -0.01 min

Lab File: VL037014.D

Acq: 20 May 2021 5:36

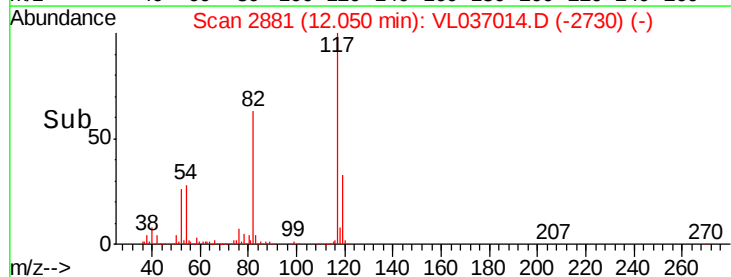
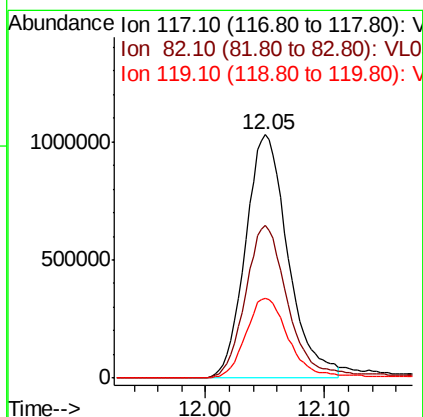
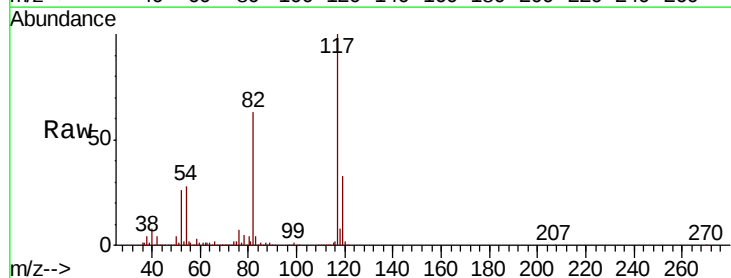
Tgt Ion: 117 Resp: 2543349

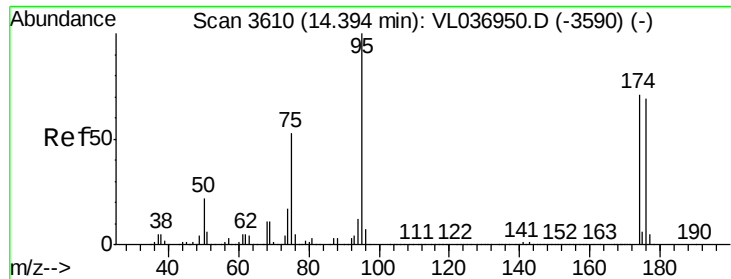
Ion Ratio Lower Upper

117 100

82 65.6 52.6 79.0

119 34.3 46.6 70.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.282 ppbv

RT: 14.38 min Scan# 3605

Delta R.T. -0.02 min

Lab File: VL037014.D

Acq: 20 May 2021 5:36

Instrument :

MSVOA_L

ClientSampleId :

KSV-09DL

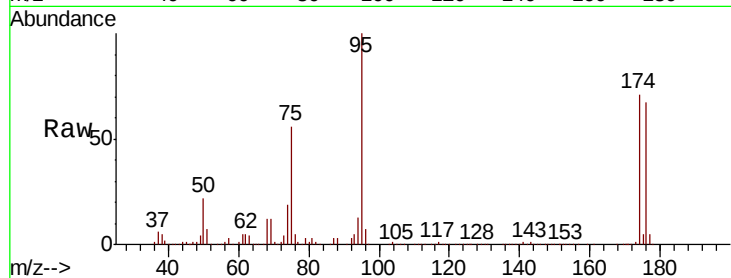
Tot Ion: 95 Resp: 1964412

Ion Ratio Lower Upper

95 100

174 76.1 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

