

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037013.D
 Acq On : 20 May 2021 4:59
 Operator : SY/AP
 Sample : M2424-09 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-09

Quant Time: May 20 06:36:24 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	1009067	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	2897524	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.05	117	2694930	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2071716	10.23	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

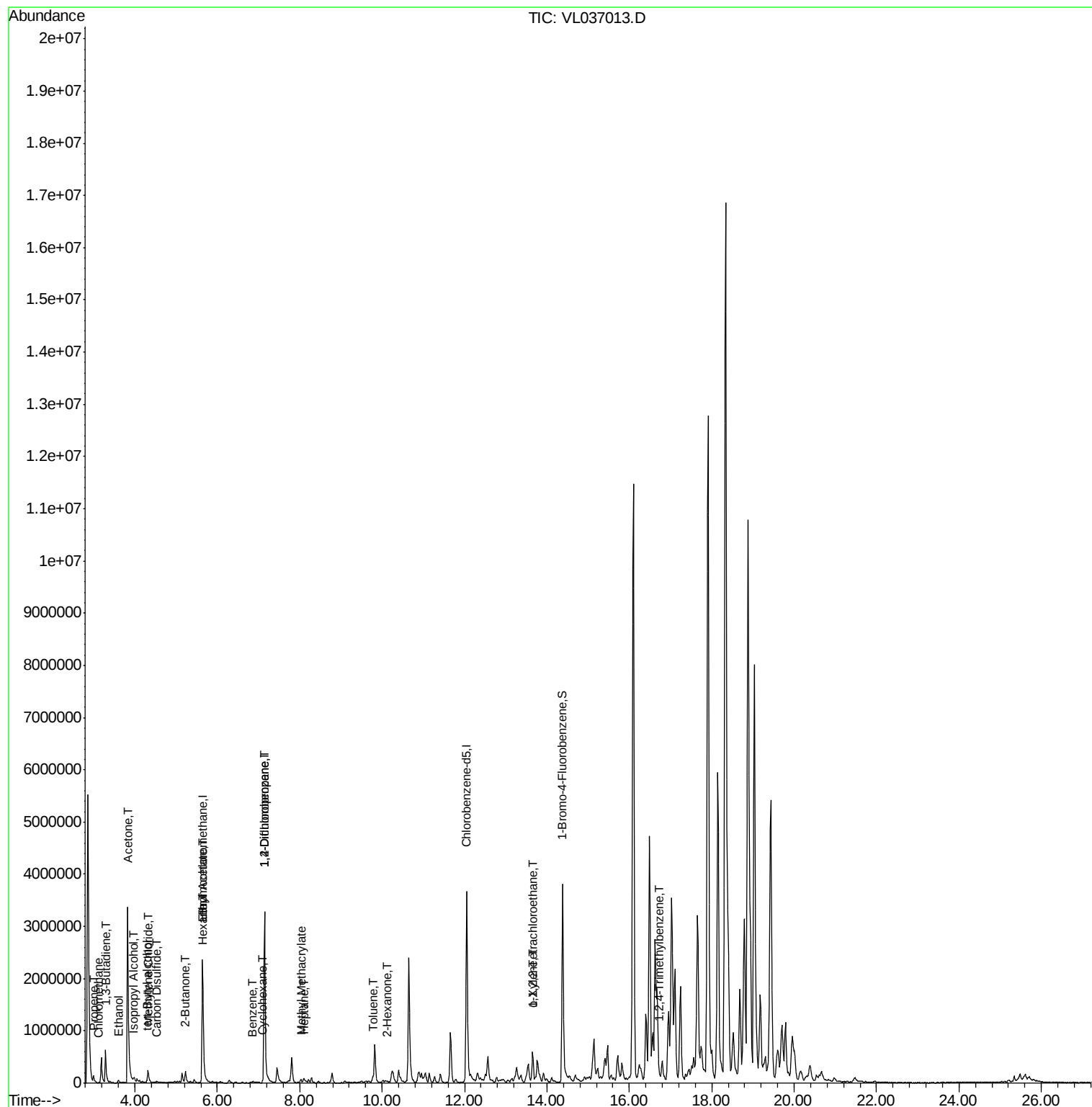
Target Compounds					Ovalue
4) Chloromethane	3.12	50	5156	0.082	ppbv 96
9) Propene	2.99	41	61287	0.926	ppbv 98
10) Heptane	8.09	43	29090	0.176	ppbv # 76
13) Ethanol	3.59	45	29136	3.299	ppbv # 33
15) Acetone	3.82	43	4678882	45.270	ppbv 97
16) 1,3-Butadiene	3.29	39	192515	2.998	ppbv # 17
17) tert-Butyl alcohol	4.30	59	26300	0.278	ppbv # 60
19) Isopropyl Alcohol	3.96	45	44108	0.794	ppbv # 30
20) Methylene Chloride	4.32	84	89369	1.613	ppbv 95
25) Ethyl Acetate	5.65	43	153047	0.616	ppbv # 90
26) Hexane	5.66	57	130741	1.030	ppbv # 25
27) Carbon Disulfide	4.52	76	32721	0.256	ppbv # 91
30) Cyclohexane	7.10	84	5471	0.051	ppbv # 1
34) 2-Butanone	5.22	43	295749	2.803	ppbv 94
36) Benzene	6.86	78	7872	0.032	ppbv # 92
39) 1,2-Dichloropropane	7.14	63	689484	7.171	ppbv # 26
43) Methyl Methacrylate	8.03	69	12959	0.151	ppbv # 63
51) 2-Hexanone	10.12	43	9612	0.104	ppbv # 1
53) Toluene	9.77	91	42928	0.145	ppbv # 29
60) o-Xylene	13.66	91	9214	0.031	ppbv # 42
63) 1,1,2,2-Tetrachloroethane	13.65	83	22327	0.100	ppbv # 29
74) 1,2,4-Trimethylbenzene	16.73	105	14092	0.041	ppbv # 56

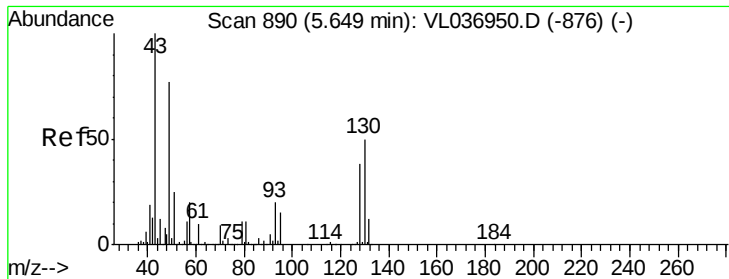
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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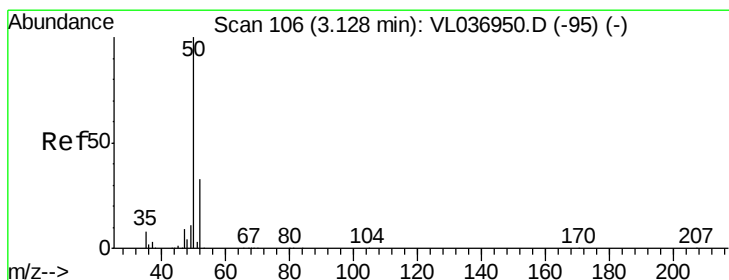
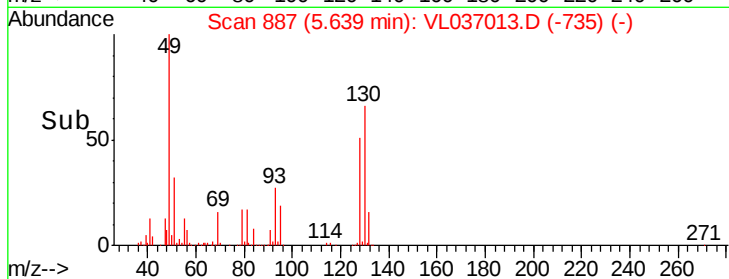
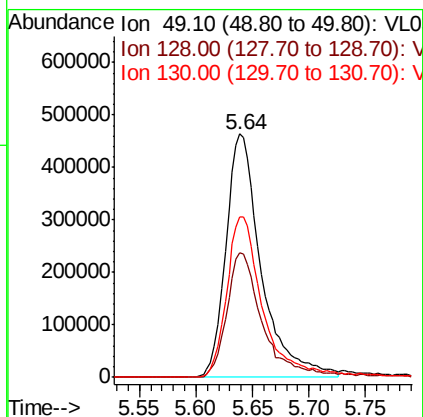
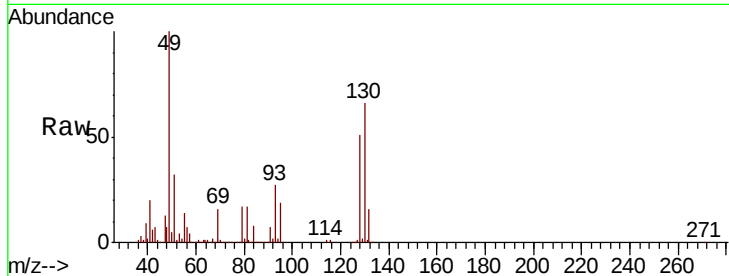




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 887
Delta R.T. -0.01 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

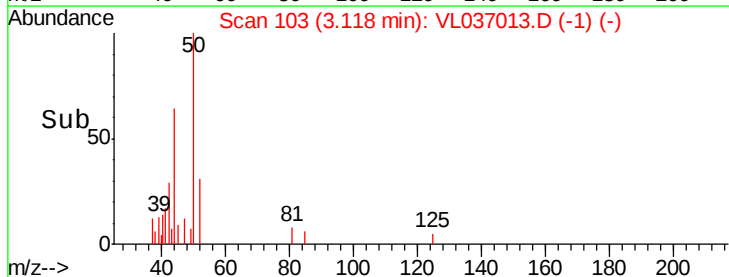
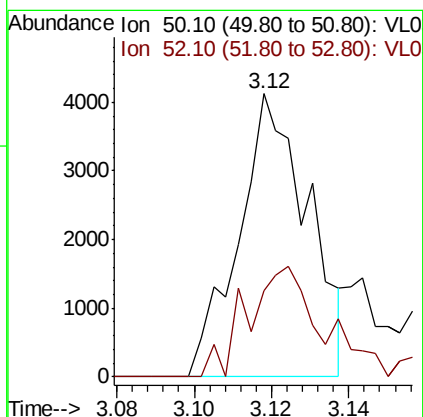
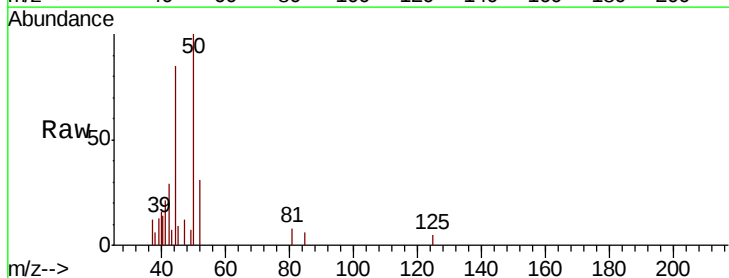
Instrument :
MSVOA_L
ClientSampled :
KSV-09

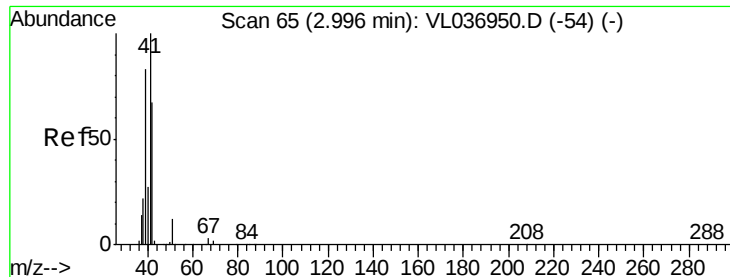
Tot Ion: 49 Resp: 1009067
Ion Ratio Lower Upper
49 100
128 53.1 26.9 80.7
130 69.2 33.8 101.4



#4
Chloromethane
Concen: 0.082 ppbv
RT: 3.12 min Scan# 103
Delta R.T. -0.01 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

Tgt Ion: 50 Resp: 5156
Ion Ratio Lower Upper
50 100
52 30.5 26.1 39.1





#9

Propene

Concen: 0.926 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037013.D

Acq: 20 May 2021 4:59

Instrument :

MSVOA_L

ClientSampleId :

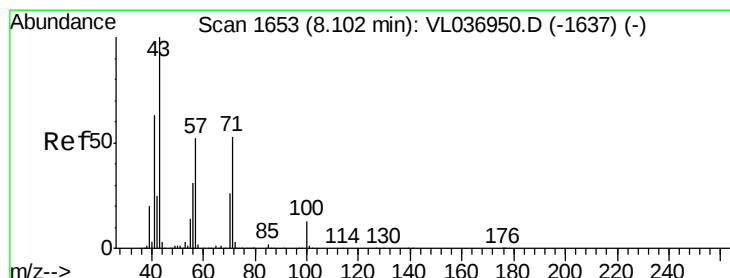
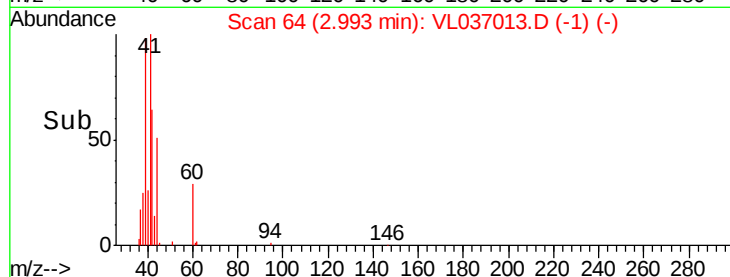
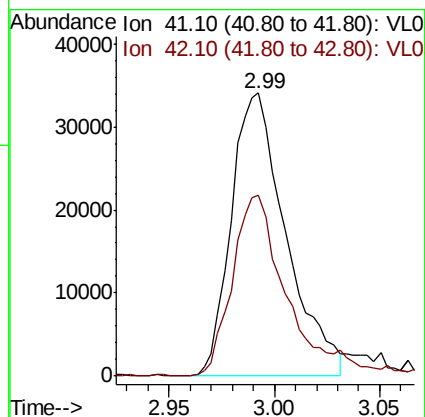
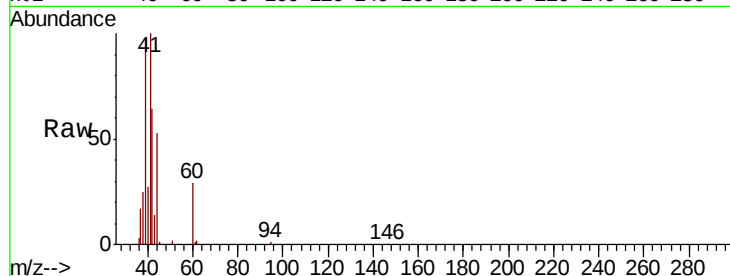
KSV-09

Tot Ion: 41 Resp: 61287

Ion Ratio Lower Upper

41 100

42 65.9 53.9 80.9



#10

Heptane

Concen: 0.176 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL037013.D

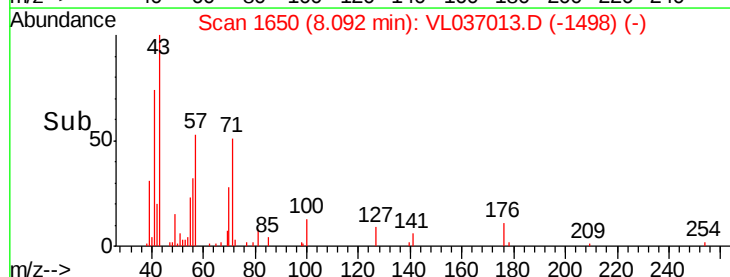
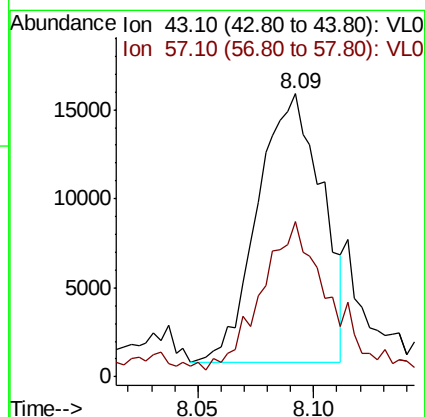
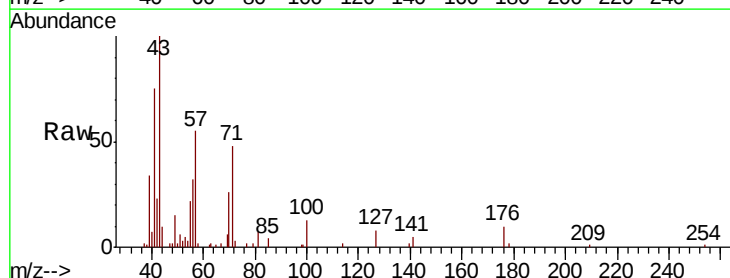
Acq: 20 May 2021 4:59

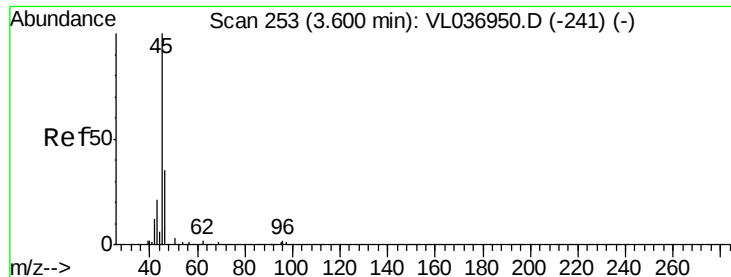
Tgt Ion: 43 Resp: 29090

Ion Ratio Lower Upper

43 100

57 68.1 41.0 61.6#

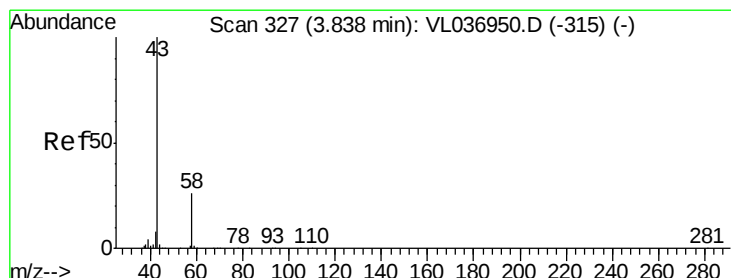
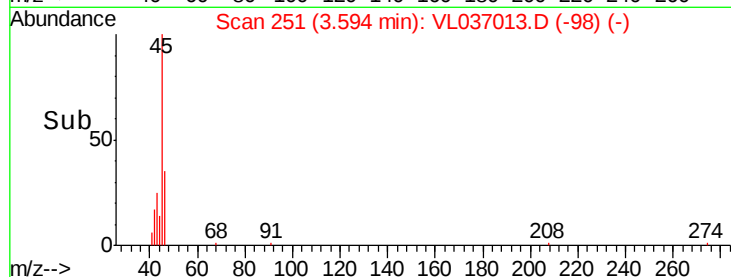
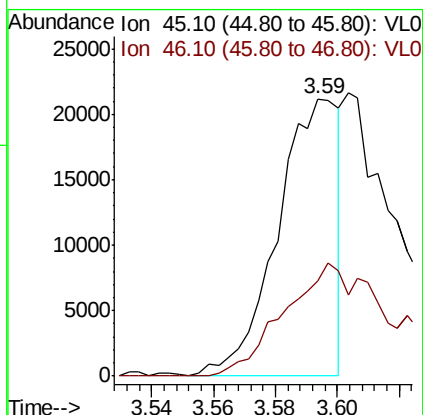
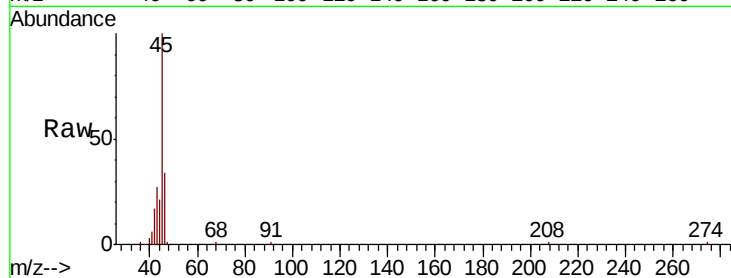




#13
Ethanol
Concen: 3.299 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

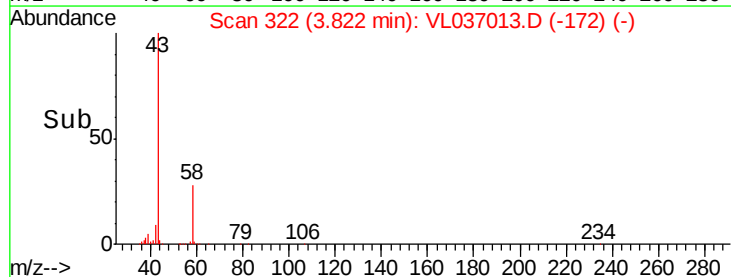
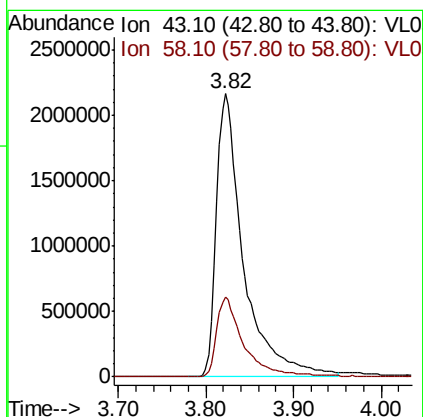
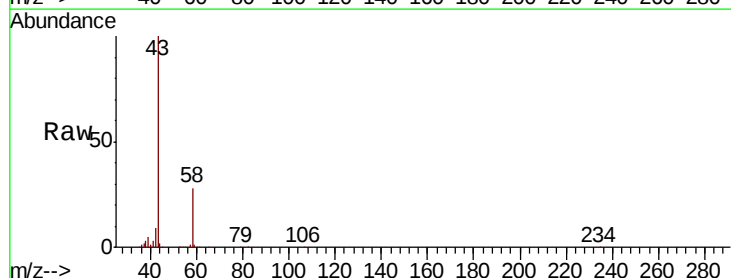
Instrument :
MSVOA_L
ClientSampleId :
KSV-09

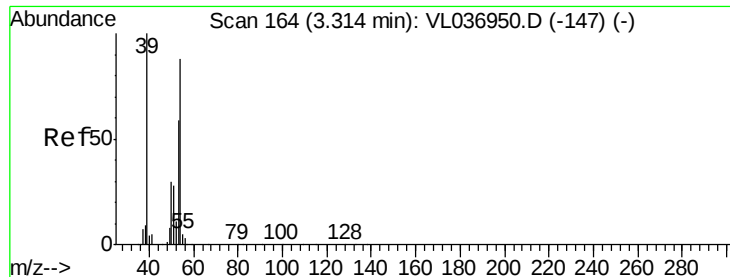
Tot Ion: 45 Resp: 29136
Ion Ratio Lower Upper
45 100
46 82.8 16.3 65.3#



#15
Acetone
Concen: 45.270 ppbv
RT: 3.82 min Scan# 322
Delta R.T. -0.02 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

Tgt Ion: 43 Resp: 4678882
Ion Ratio Lower Upper
43 100
58 28.5 24.0 36.0

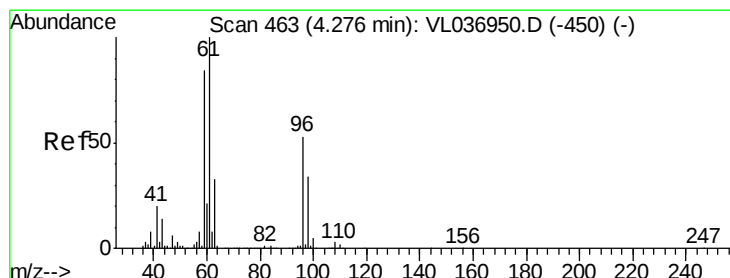
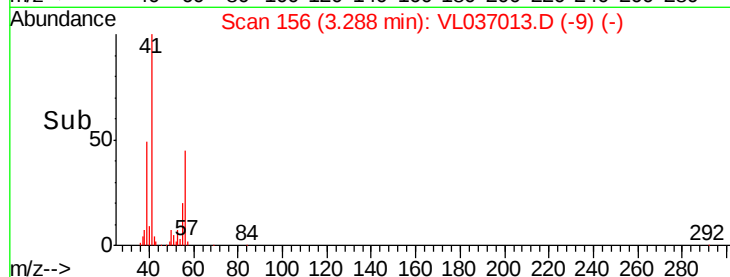
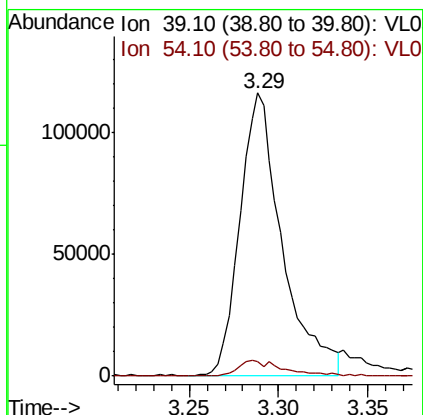
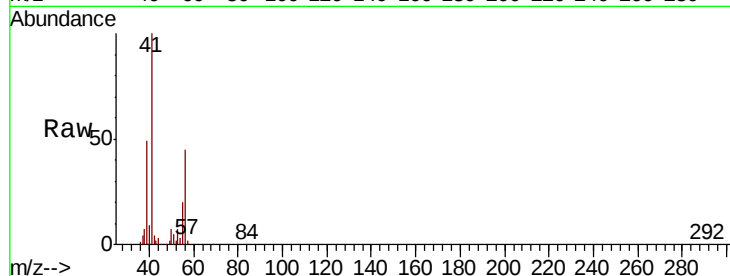




#16
 1,3-Butadiene
 Concen: 2.998 ppbv
 RT: 3.29 min Scan# 156
 Delta R.T. -0.03 min
 Lab File: VL037013.D
 Acq: 20 May 2021 4:59

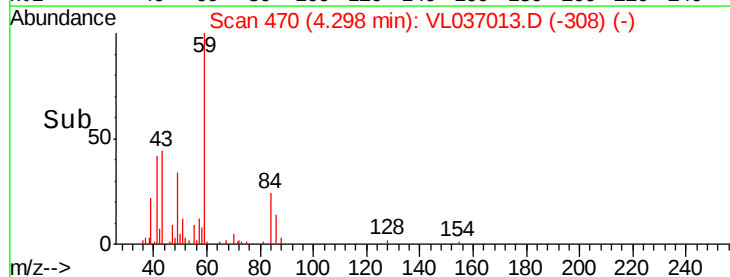
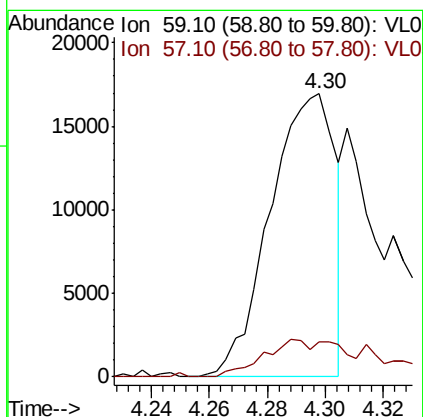
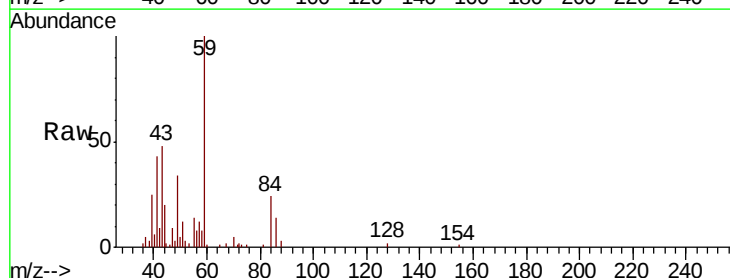
Instrument :
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 ClientSampleID :
 KSV-09

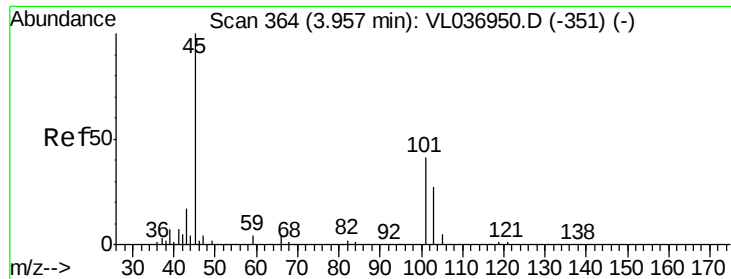
Tot Ion: 39 Resp: 192515
 Ion Ratio Lower Upper
 39 100
 54 6.3 63.2 94.8#



#17
 tert-Butyl alcohol
 Concen: 0.278 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VL037013.D
 Acq: 20 May 2021 4:59

Tgt Ion: 59 Resp: 26300
 Ion Ratio Lower Upper
 59 100
 57 25.5 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 0.794 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL037013.D

Acq: 20 May 2021 4:59

Instrument :

MSVOA_L

ClientSampleId :

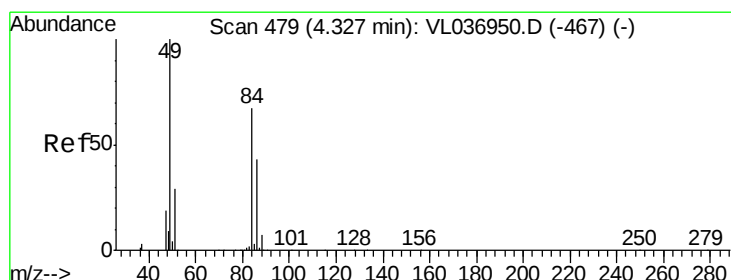
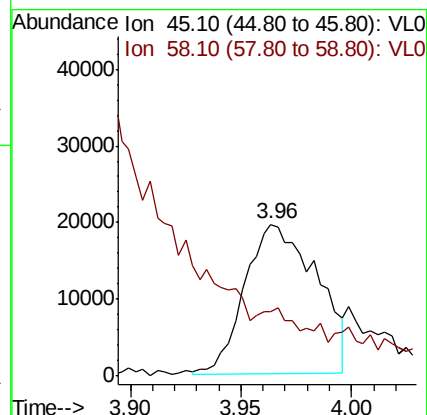
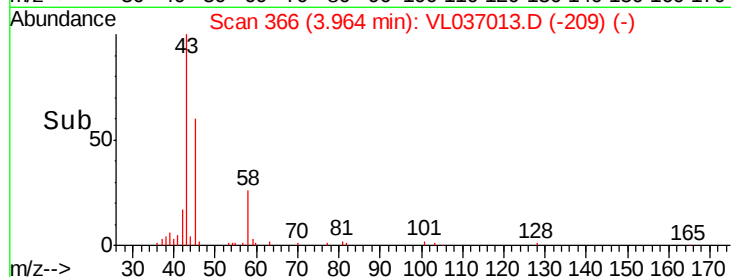
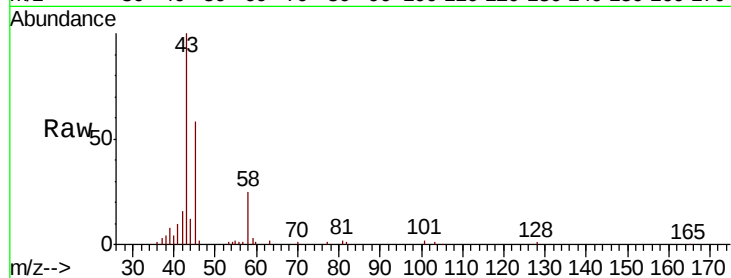
KSV-09

Tot Ion: 45 Resp: 44108

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 1.613 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL037013.D

Acq: 20 May 2021 4:59

Tgt Ion: 84 Resp: 89369

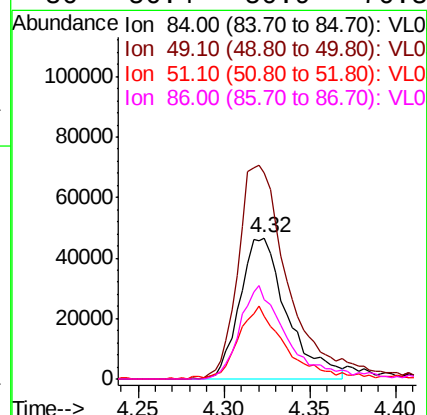
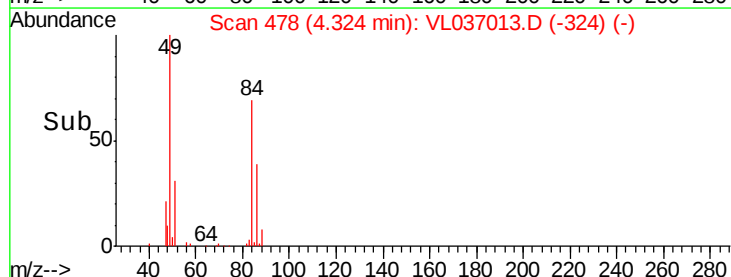
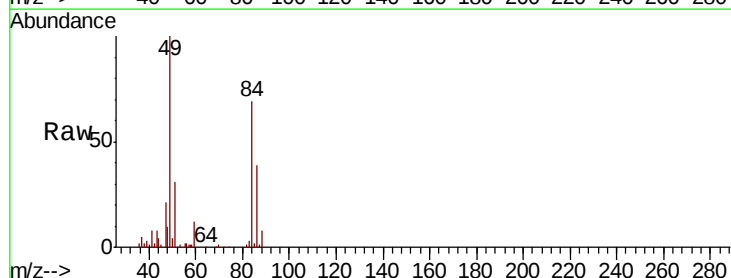
Ion Ratio Lower Upper

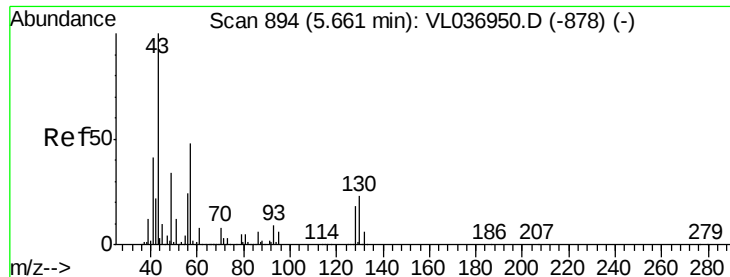
84 100

49 144.6 119.8 179.6

51 43.3 35.1 52.7

86 56.4 50.9 76.3

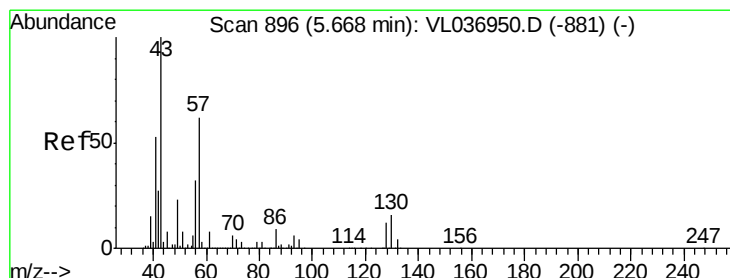
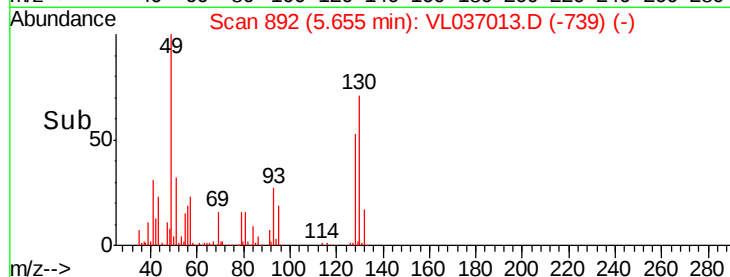
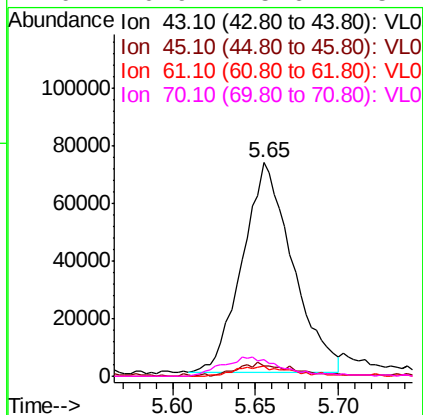
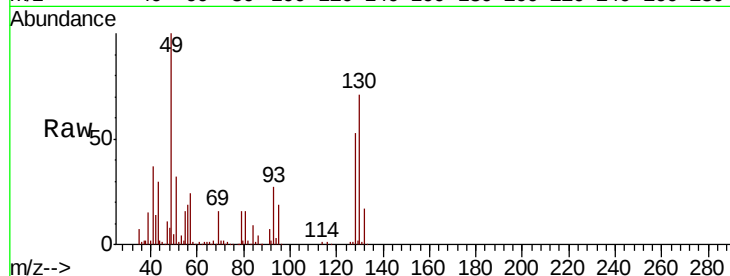




#25
Ethyl Acetate
Concen: 0.616 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

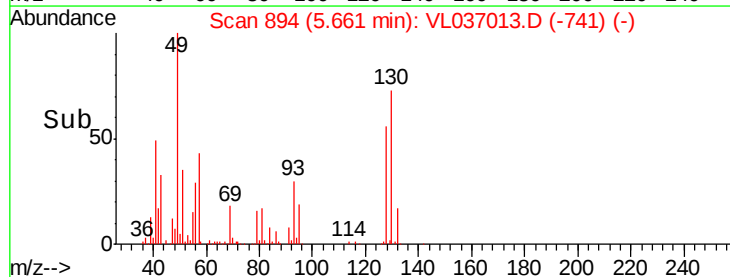
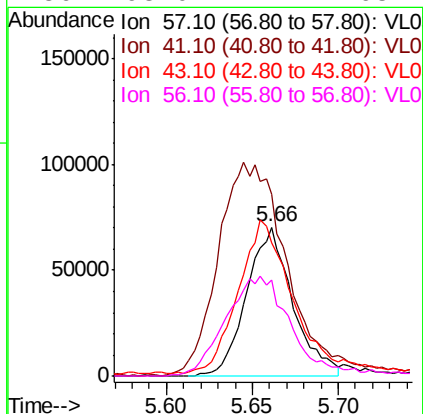
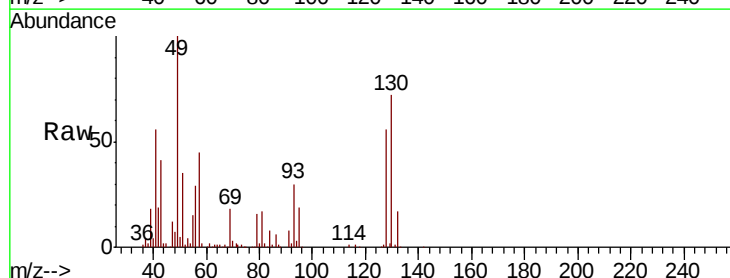
Instrument :
MSVOA_L
ClientSampled :
KSV-09

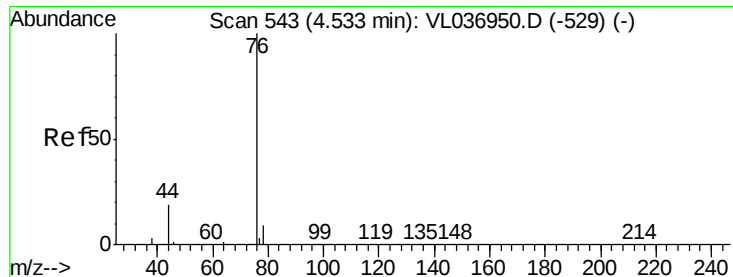
Tot Ion:	43	Resp:	153047
Ion	Ratio	Lower	Upper
43	100		
45	7.1	7.8	11.8#
61	5.6	7.8	11.8#
70	10.9	5.6	8.4#



#26
Hexane
Concen: 1.030 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

Tgt Ion:	57	Resp:	130741
Ion	Ratio	Lower	Upper
57	100		
41	218.8	70.5	105.7#
43	130.0	165.8	248.8#
56	98.0	42.2	63.4#





#27

Carbon Disulfide

Concen: 0.256 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.01 min

Lab File: VL037013.D

Acq: 20 May 2021 4:59

Instrument :

MSVOA_L

ClientSampleId :

KSV-09

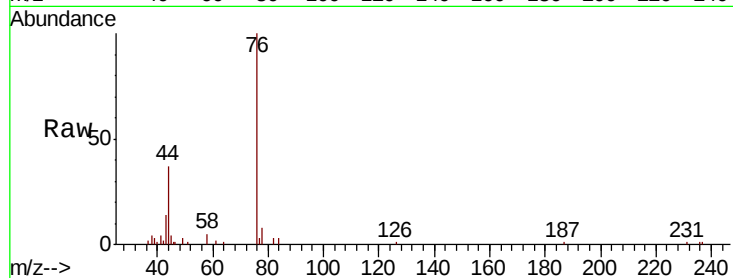
Tot Ion: 76 Resp: 32721

Ion Ratio Lower Upper

76 100

44 25.5 15.5 23.3#

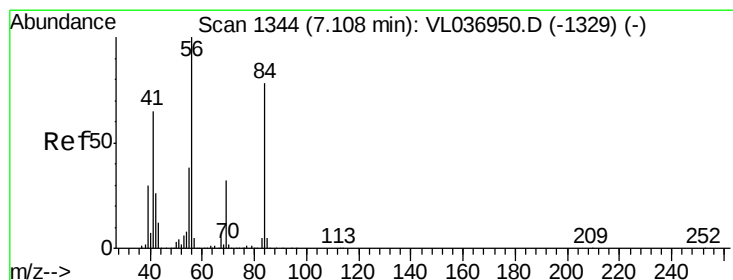
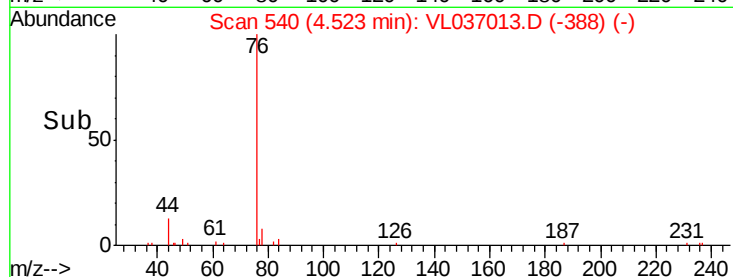
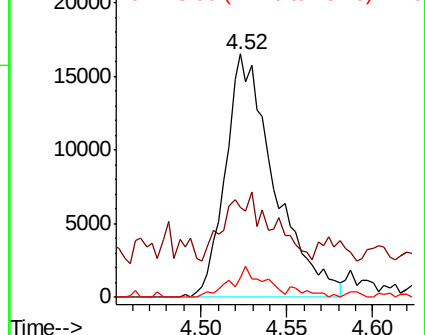
78 10.0 7.8 11.6



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



#30

Cyclohexane

Concen: 0.051 ppbv

RT: 7.10 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VL037013.D

Acq: 20 May 2021 4:59

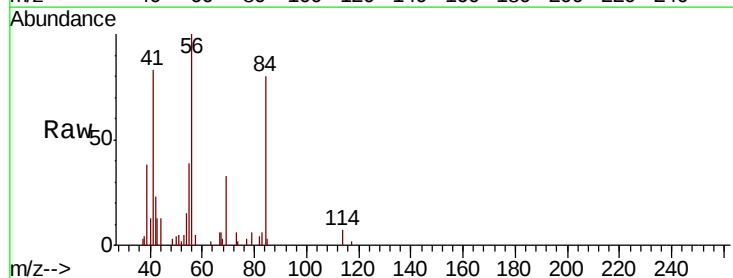
Tgt Ion: 84 Resp: 5471

Ion Ratio Lower Upper

84 100

56 0.0 107.9 161.9#

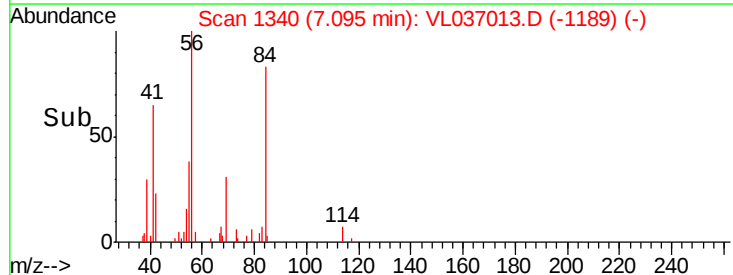
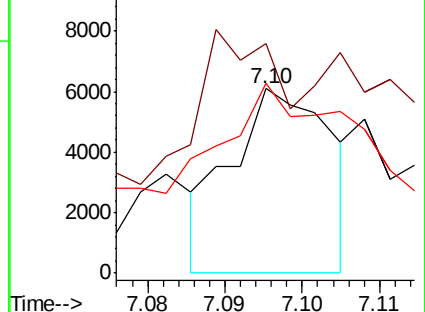
41 331.9 65.5 98.3#

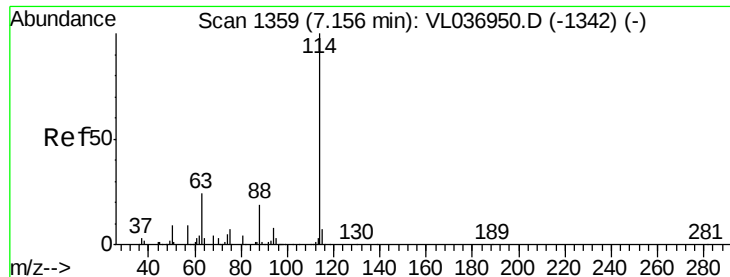


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

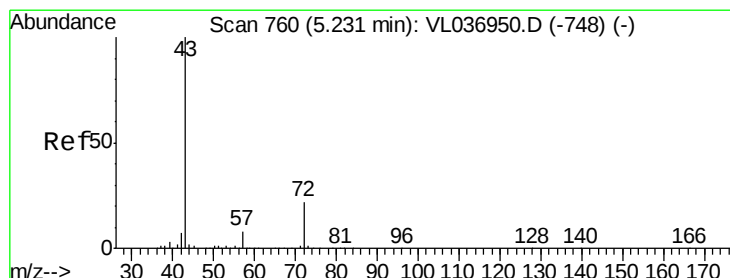
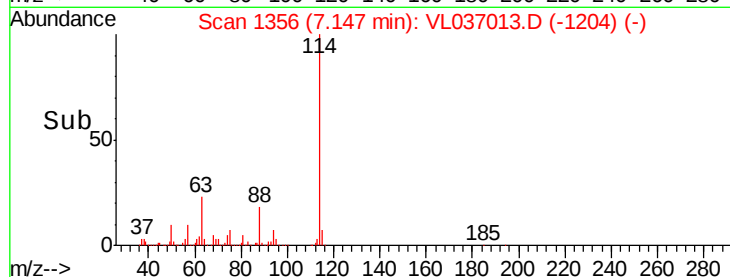
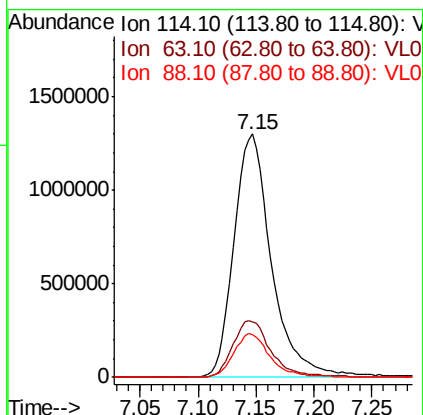
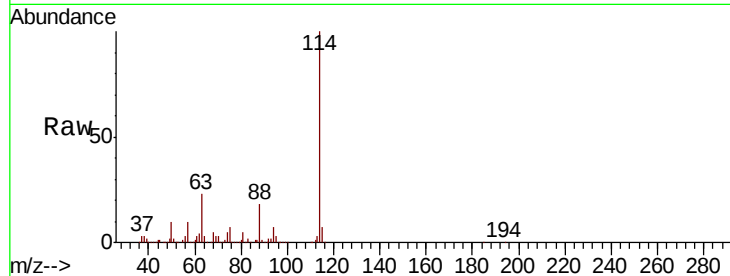




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL037013.D
 Acq: 20 May 2021 4:59

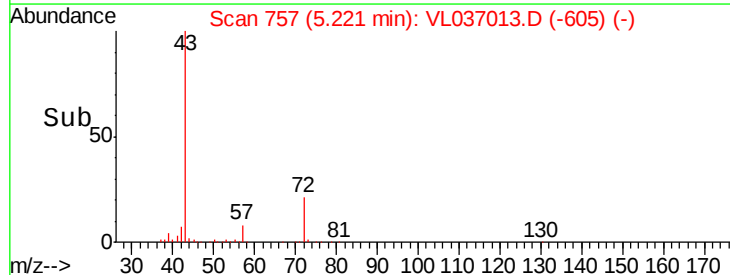
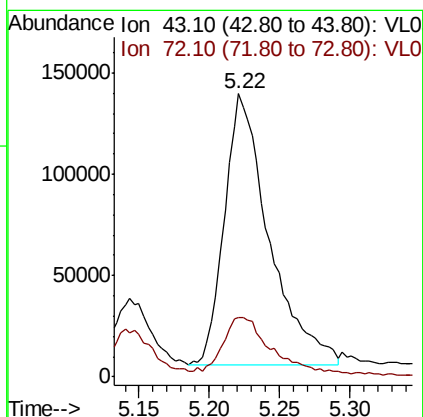
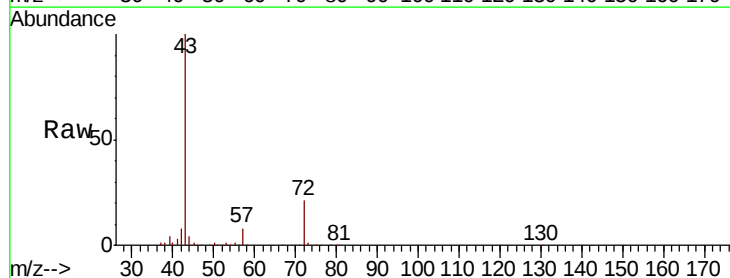
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-09

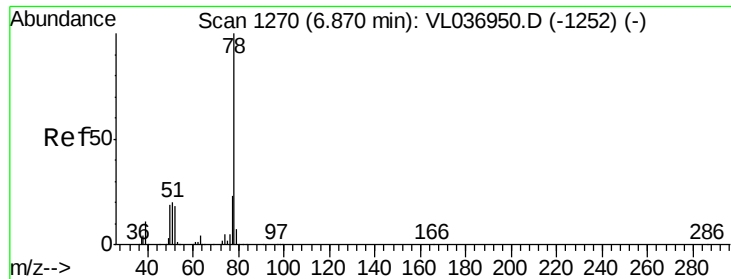
Tot Ion:114 Resp: 2897524
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.6 29.4
 88 17.8 14.6 21.8



#34
 2-Butanone
 Concen: 2.803 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.01 min
 Lab File: VL037013.D
 Acq: 20 May 2021 4:59

Tgt Ion: 43 Resp: 295749
 Ion Ratio Lower Upper
 43 100
 72 26.6 19.0 28.4





#36

Benzene

Concen: 0.032 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VL037013.D

Acq: 20 May 2021 4:59

Instrument :

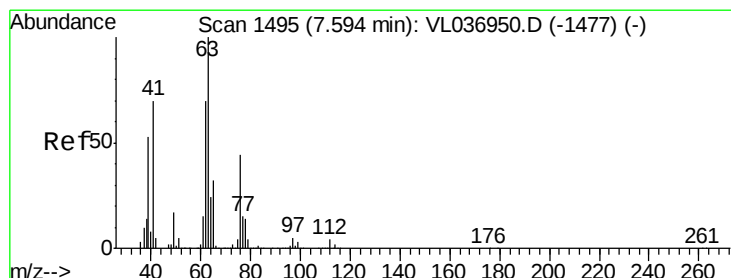
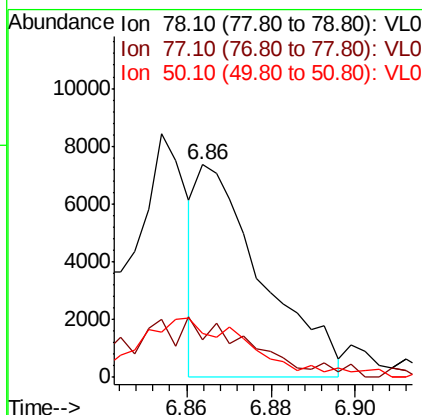
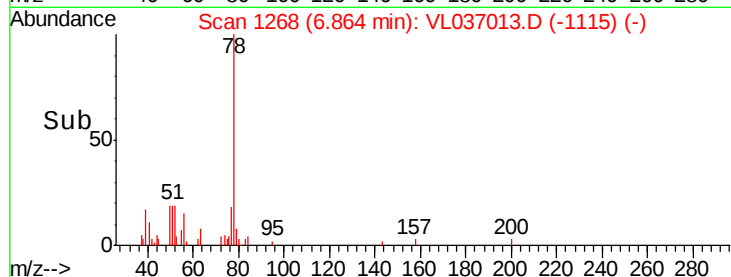
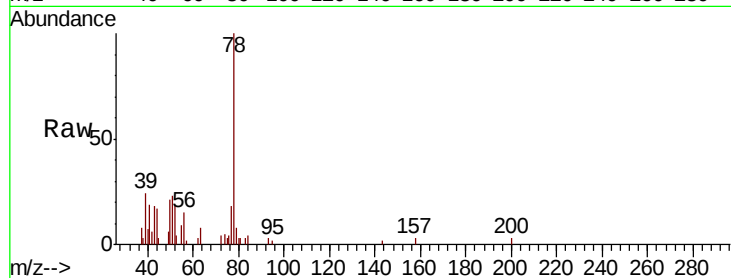
MSVOA_L

ClientSampled :

KSV-09

Tot Ion: 78 Resp: 7872

Ion	Ratio	Lower	Upper
78	100		
77	16.7	18.6	28.0#
50	18.2	15.0	22.4



#39

1,2-Dichloropropane

Concen: 7.171 ppbv

RT: 7.14 min Scan# 1355

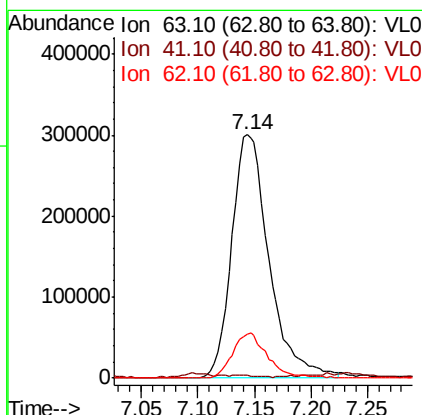
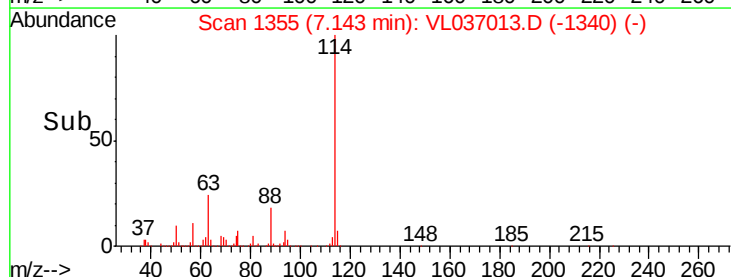
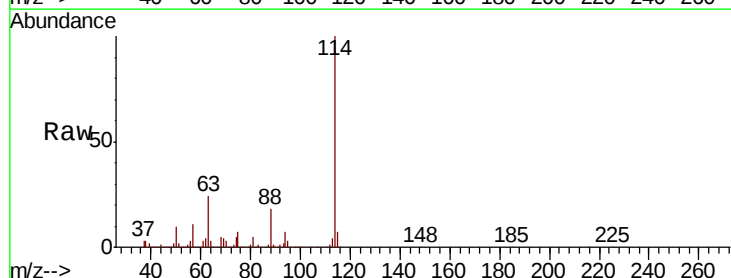
Delta R.T. -0.45 min

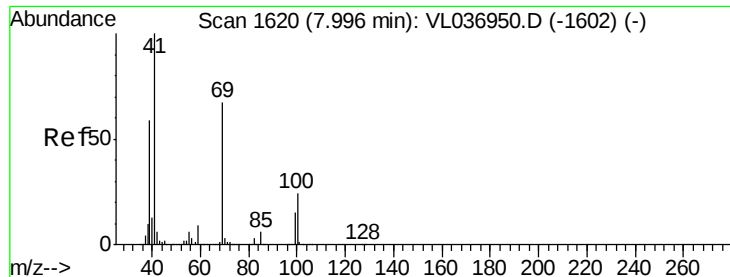
Lab File: VL037013.D

Acq: 20 May 2021 4:59

Tgt Ion: 63 Resp: 689484

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	18.2	56.2	84.4#

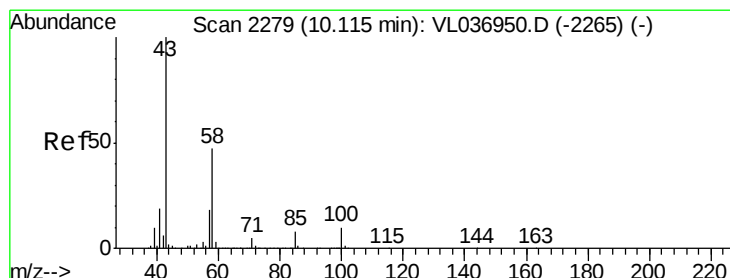
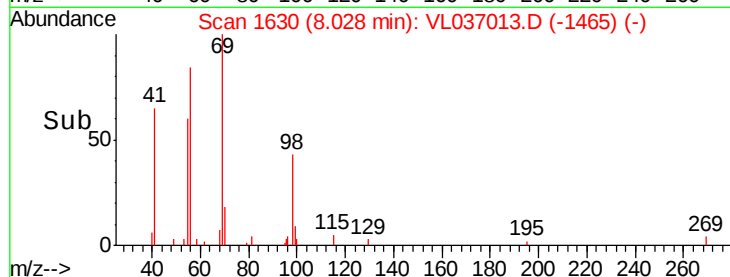
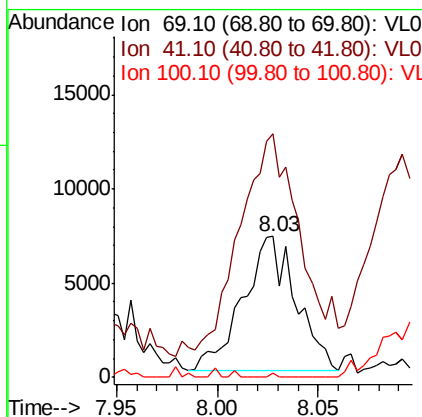
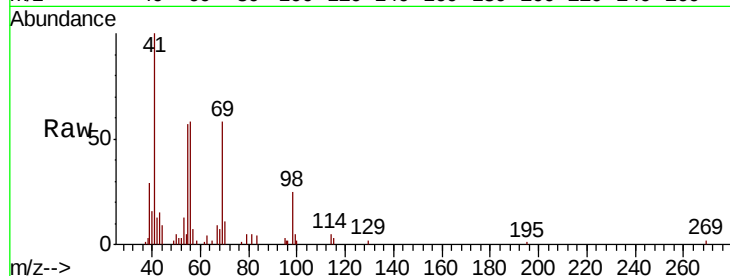




#43
Methyl Methacrylate
Concen: 0.151 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.03 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

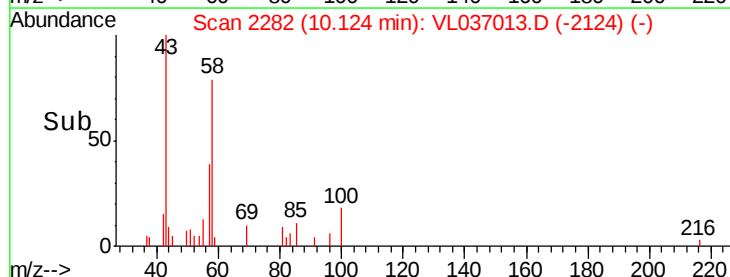
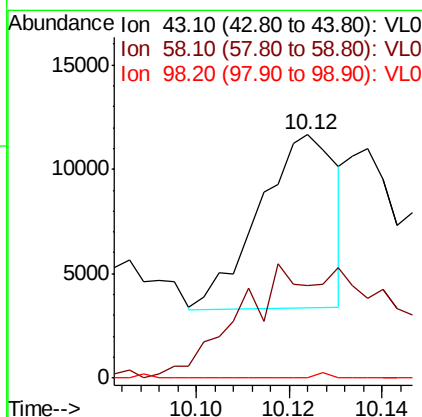
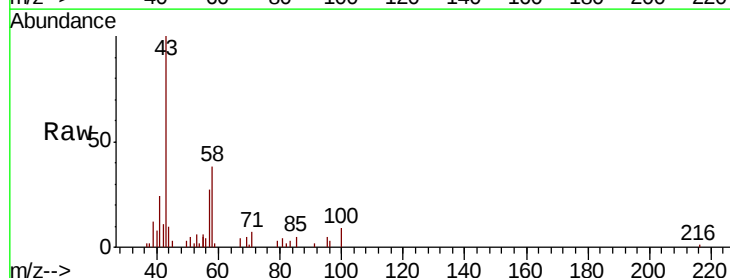
Instrument :
MSVOA_L
ClientSampleId :
KSV-09

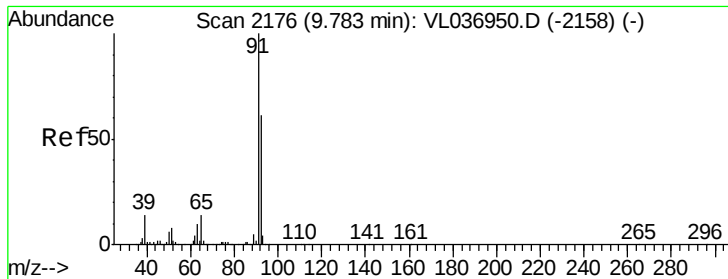
Tot Ion: 69 Resp: 12959
Ion Ratio Lower Upper
69 100
41 188.2 118.6 178.0#
100 1.9 28.2 42.4#



#51
2-Hexanone
Concen: 0.104 ppbv
RT: 10.12 min Scan# 2282
Delta R.T. 0.01 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

Tgt Ion: 43 Resp: 9612
Ion Ratio Lower Upper
43 100
58 175.1 41.1 61.7#
98 0.0 0.1 0.1#





#53

Toluene

Concen: 0.145 ppbv

RT: 9.77 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL037013.D

Acq: 20 May 2021 4:59

Instrument :

MSVOA_L

ClientSampled :

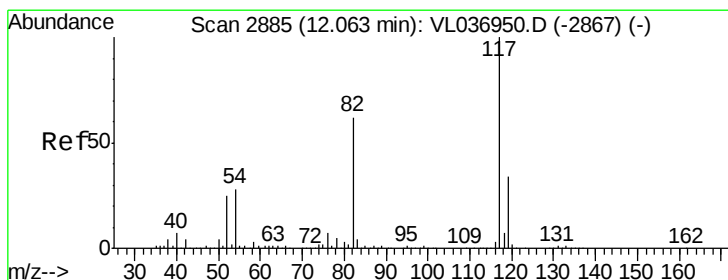
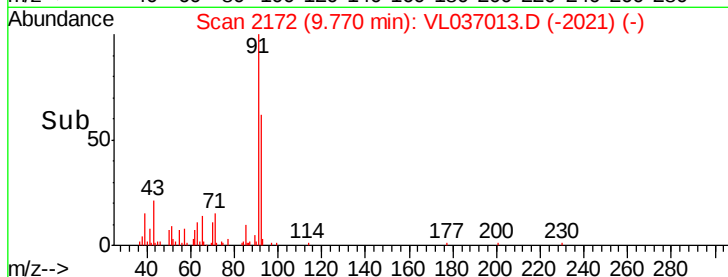
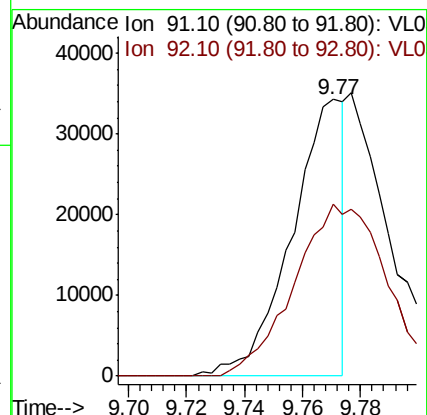
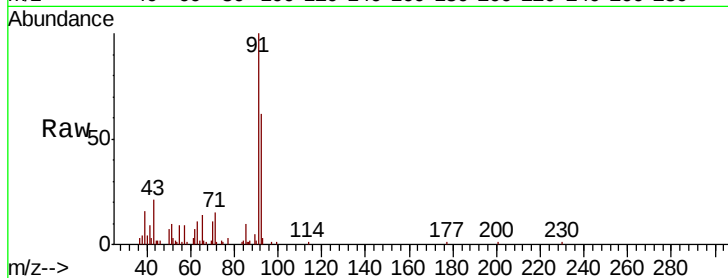
KSV-09

Tot Ion: 91 Resp: 42928

Ion Ratio Lower Upper

91 100

92 116.8 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: VL037013.D

Acq: 20 May 2021 4:59

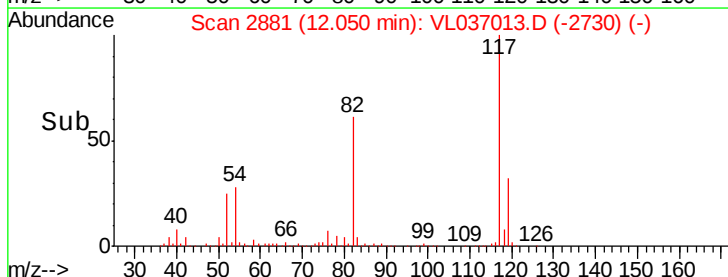
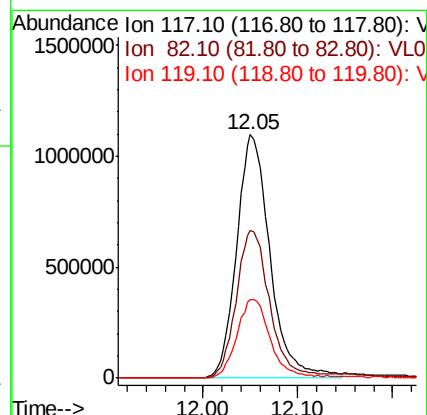
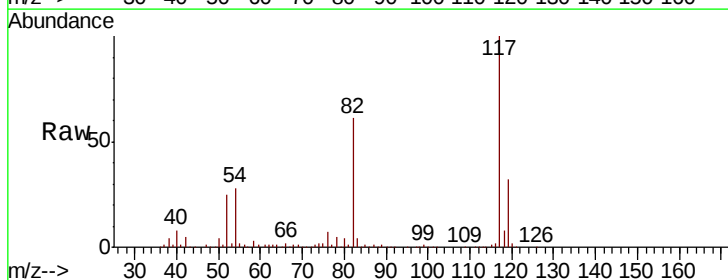
Tgt Ion: 117 Resp: 2694930

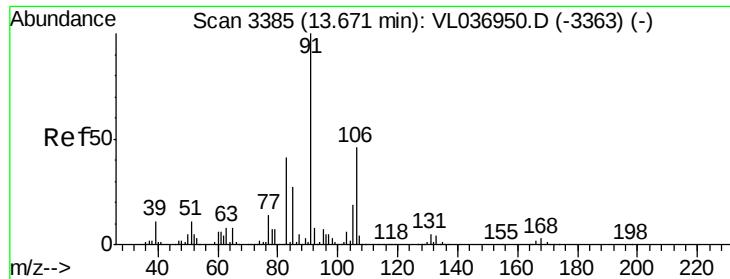
Ion Ratio Lower Upper

117 100

82 63.5 52.6 79.0

119 33.4 46.6 70.0#

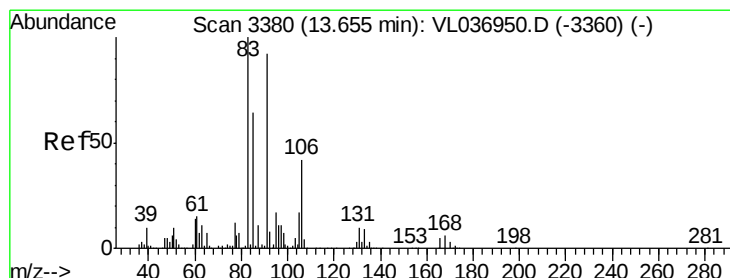
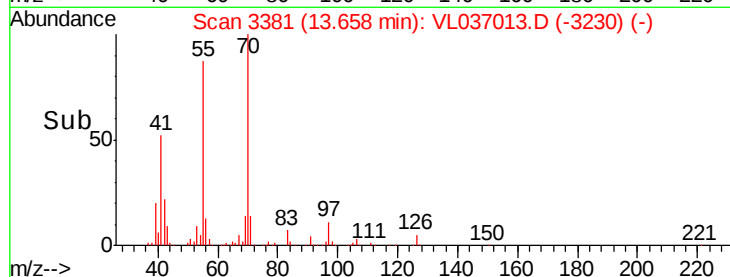
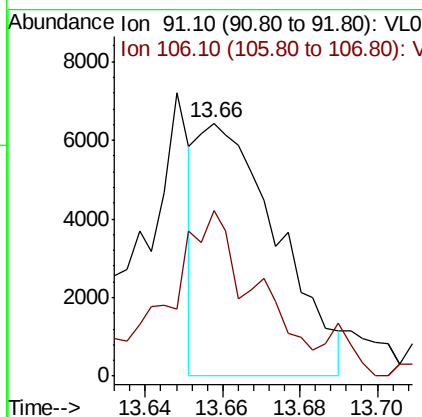
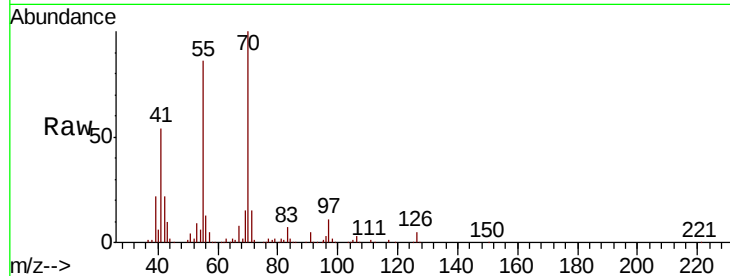




#60
o-Xylene
Concen: 0.031 ppbv
RT: 13.66 min Scan# 3381
Delta R.T. -0.01 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

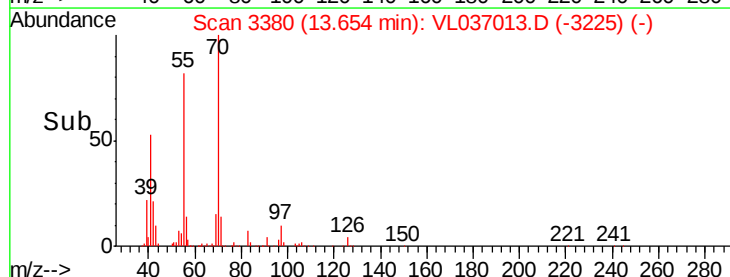
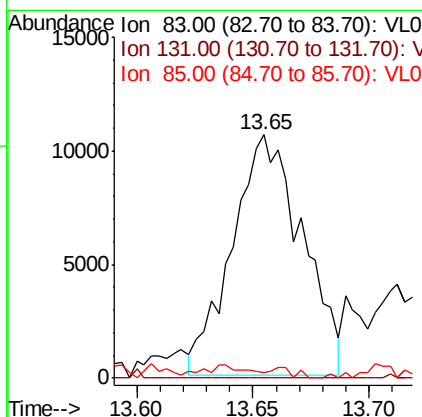
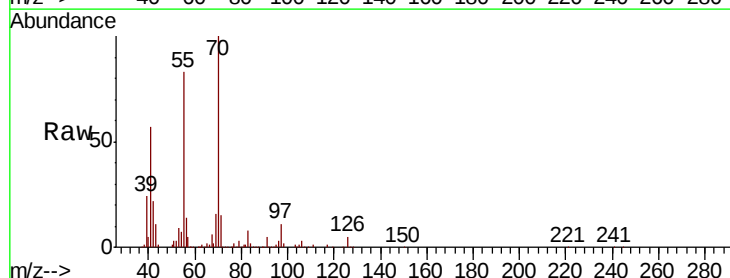
Instrument :
MSVOA_L
ClientSampled :
KSV-09

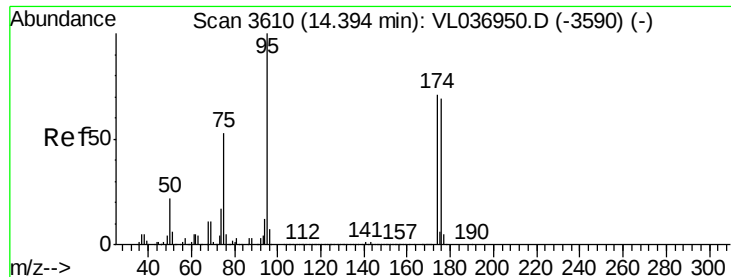
Tot Ion: 91 Resp: 9214
Ion Ratio Lower Upper
91 100
106 85.9 23.4 70.3#



#63
1,1,2,2-Tetrachloroethane
Concen: 0.100 ppbv
RT: 13.65 min Scan# 3380
Delta R.T. -0.00 min
Lab File: VL037013.D
Acq: 20 May 2021 4:59

Tgt Ion: 83 Resp: 22327
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 3.9 32.9 98.6#

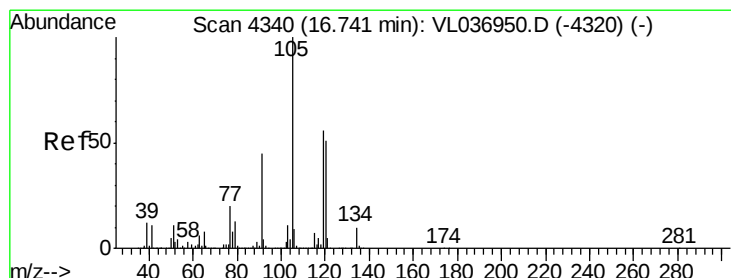
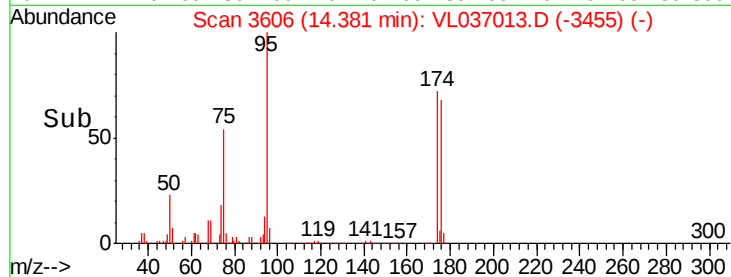
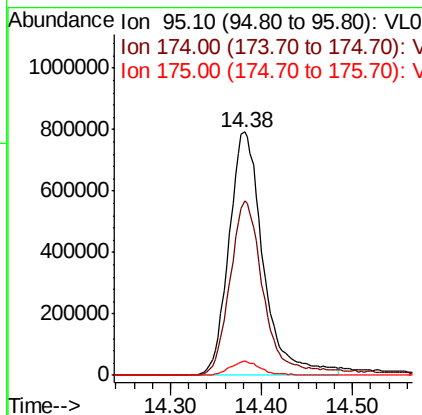
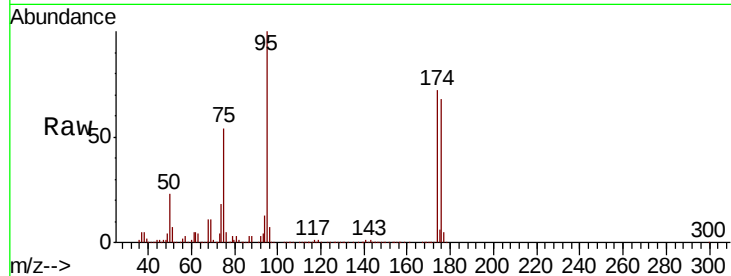




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.233 ppbv
 RT: 14.38 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL037013.D
 Acq: 20 May 2021 4:59

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-09

Tot Ion: 95 Resp: 2071716
 Ion Ratio Lower Upper
 95 100
 174 73.7 58.4 87.6
 175 5.3 4.4 6.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.041 ppbv
 RT: 16.73 min Scan# 4335
 Delta R.T. -0.02 min
 Lab File: VL037013.D
 Acq: 20 May 2021 4:59

Tgt Ion: 105 Resp: 14092
 Ion Ratio Lower Upper
 105 100
 120 25.8 40.6 61.0#
 91 6.5 37.4 56.0#
 77 7.5 16.2 24.4#

