

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037002.D
 Acq On : 19 May 2021 21:48
 Operator : SY/AP
 Sample : M2424-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-01DL

Quant Time: May 20 06:32:54 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	1188360	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3597249	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3329161	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2434222	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

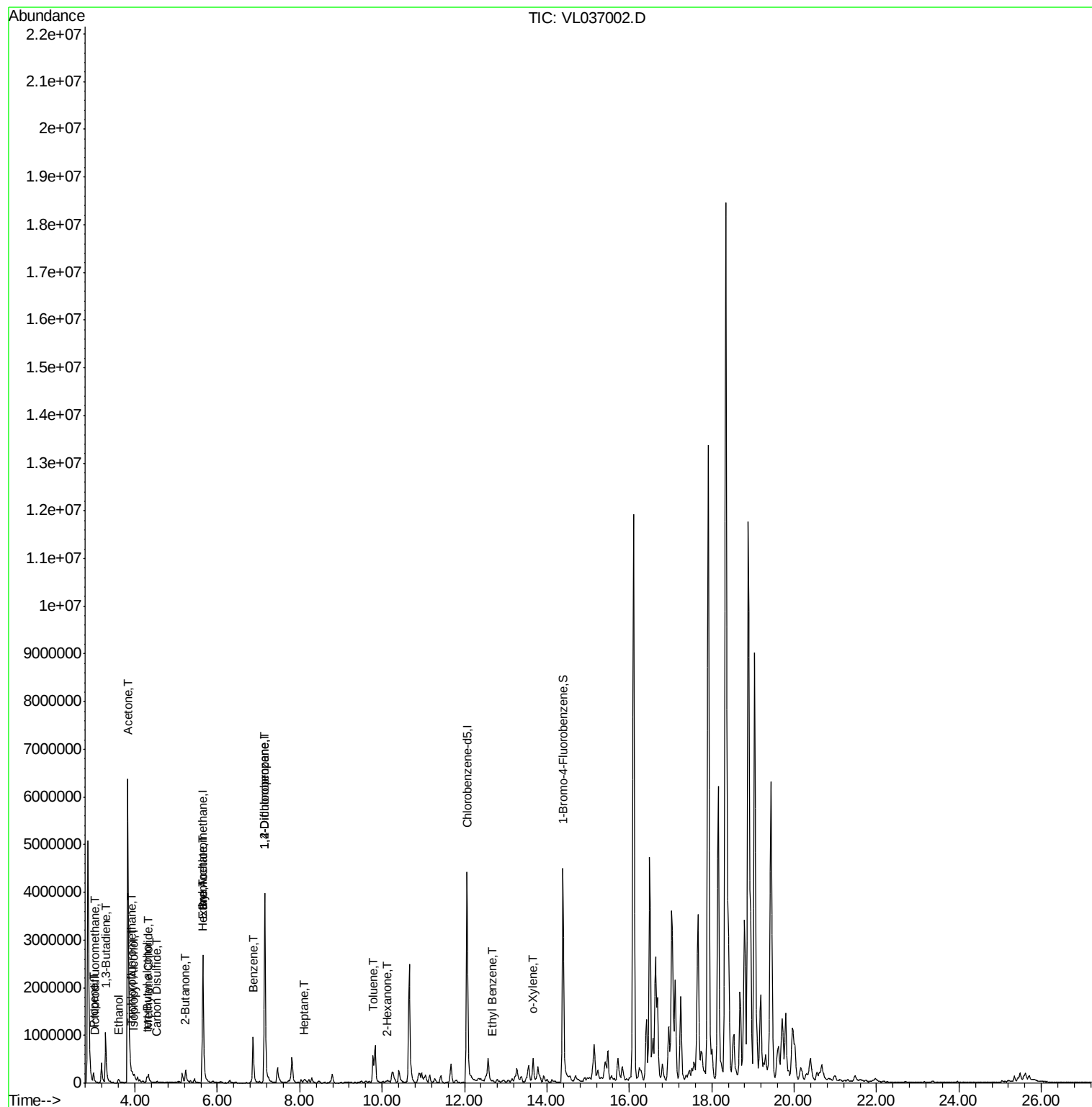
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	9623	0.048	ppbv	92
9) Propene	3.00	41	96596	1.239	ppbv	91
10) Heptane	8.10	43	27167	0.140	ppbv #	81
11) Trichlorofluoromethane	3.93	101	56815	0.304	ppbv	94
13) Ethanol	3.60	45	49890	4.796	ppbv #	36
15) Acetone	3.83	43	9050290	74.353	ppbv	98
16) 1,3-Butadiene	3.29	39	338804	4.480	ppbv #	16
17) tert-Butyl alcohol	4.29	59	37768	0.339	ppbv #	15
19) Isopropyl Alcohol	3.96	45	41214	0.630	ppbv #	30
20) Methylene Chloride	4.33	84	48020	0.736	ppbv	97
25) Ethyl Acetate	5.66	43	121747	0.416	ppbv #	91
26) Hexane	5.66	57	90254	0.604	ppbv #	13
27) Carbon Disulfide	4.53	76	44493	0.295	ppbv #	75
34) 2-Butanone	5.23	43	359171	2.742	ppbv	95
36) Benzene	6.86	78	930511	3.003	ppbv	96
39) 1,2-Dichloropropane	7.15	63	834880	6.995	ppbv #	25
51) 2-Hexanone	10.13	43	11659	0.102	ppbv #	27
53) Toluene	9.78	91	493794	1.339	ppbv	98
58) Ethyl Benzene	12.69	91	33752	0.072	ppbv	100
60) o-Xylene	13.67	91	11315	0.031	ppbv	88

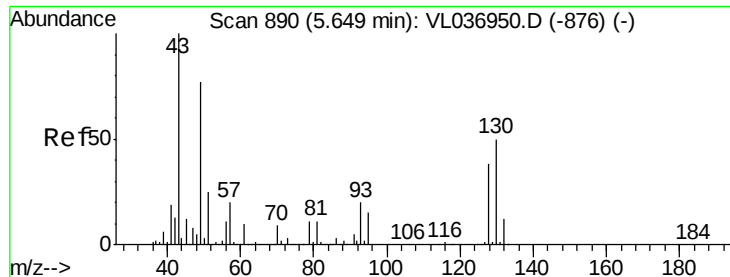
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DL

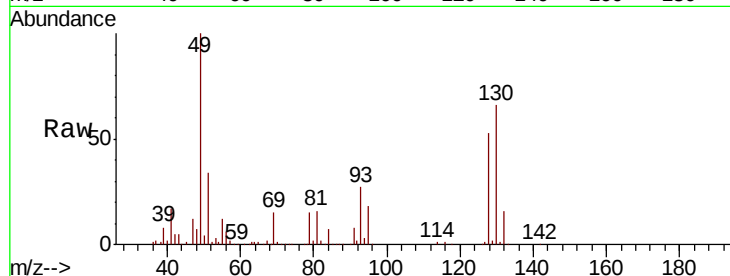
Tot Ion: 49 Resp: 1188360

Ion Ratio Lower Upper

49 100

128 54.0 26.9 80.7

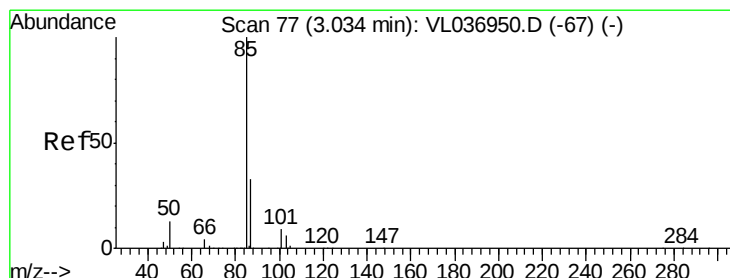
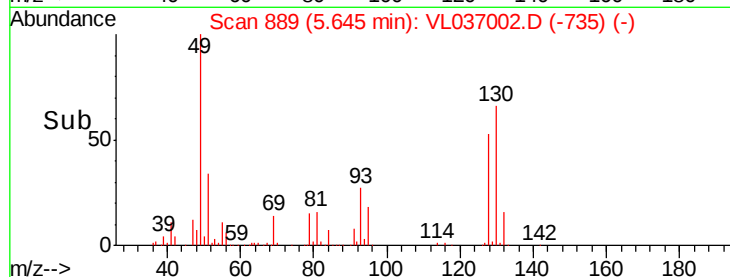
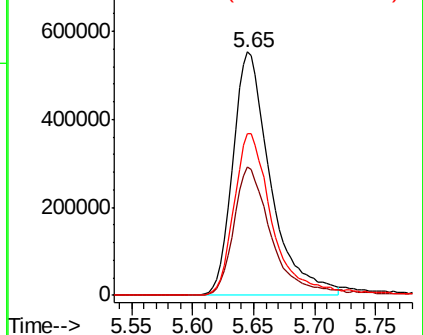
130 69.5 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.048 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL037002.D

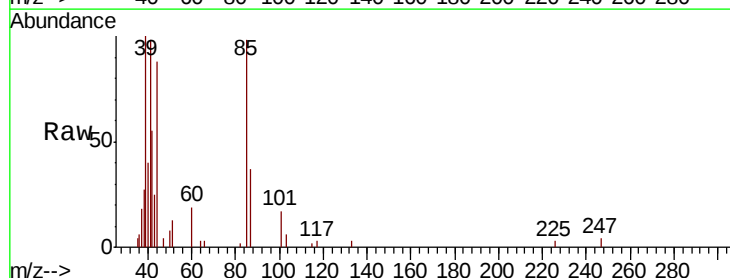
Acq: 19 May 2021 21:48

Tgt Ion: 85 Resp: 9623

Ion Ratio Lower Upper

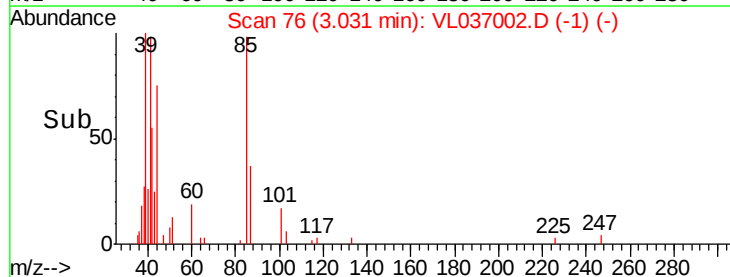
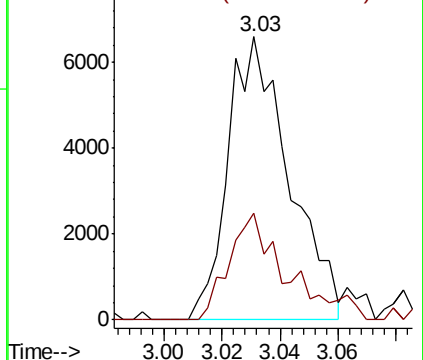
85 100

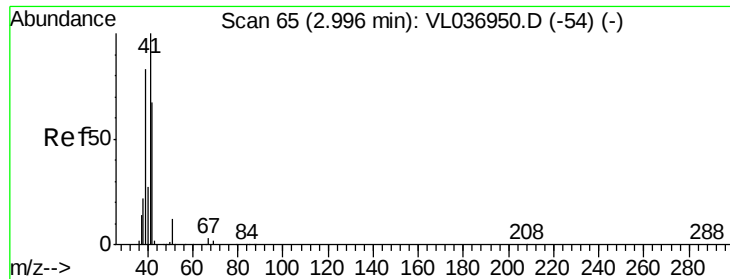
87 37.8 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 1.239 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

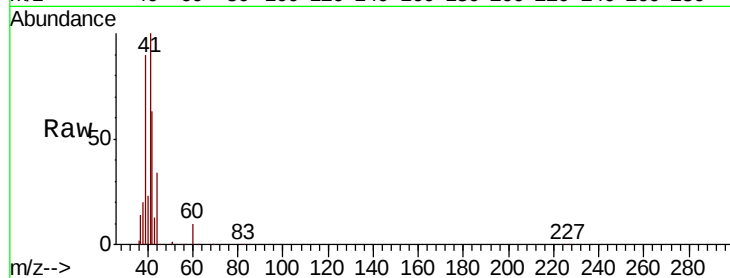
KSV-01DL

Tot Ion: 41 Resp: 96596

Ion Ratio Lower Upper

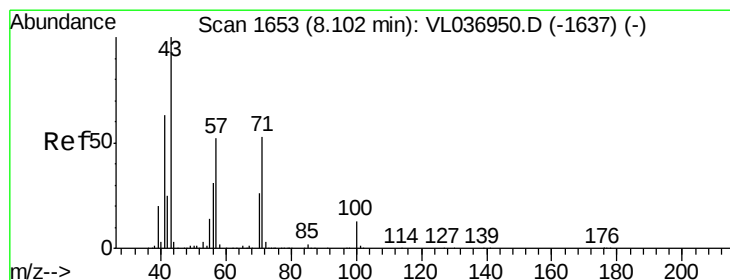
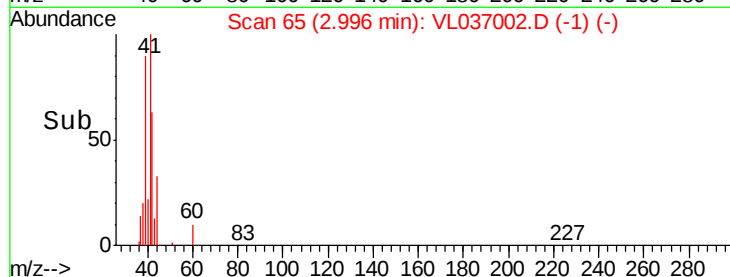
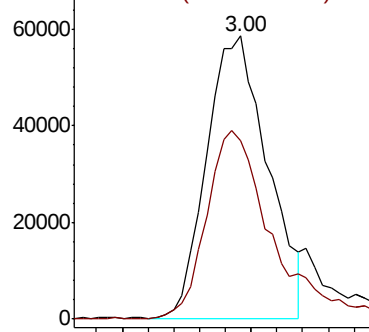
41 100

42 74.3 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.140 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL037002.D

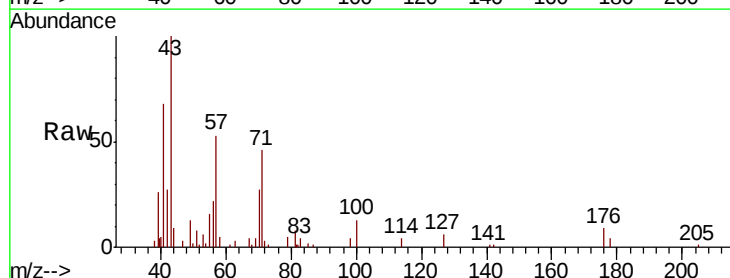
Acq: 19 May 2021 21:48

Tgt Ion: 43 Resp: 27167

Ion Ratio Lower Upper

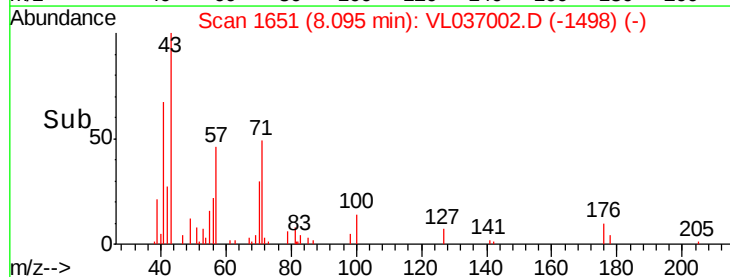
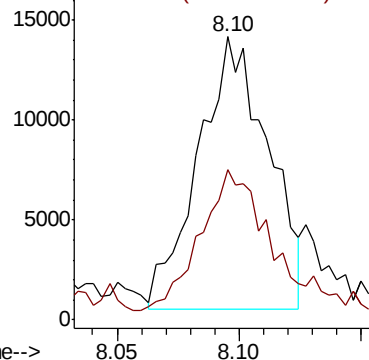
43 100

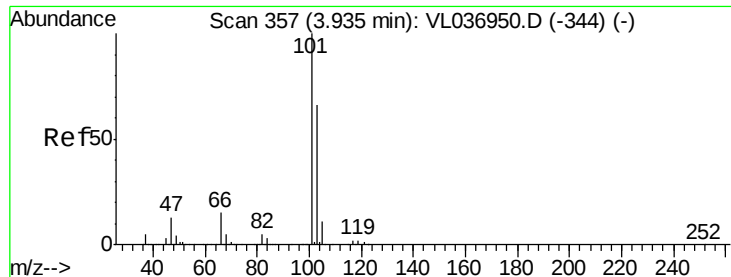
57 64.5 41.0 61.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.304 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.01 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

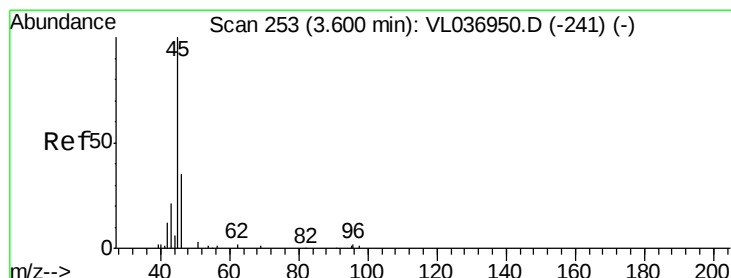
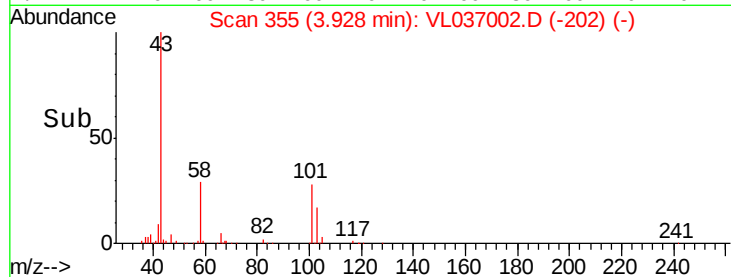
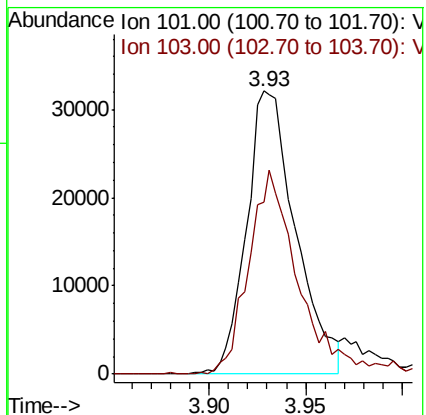
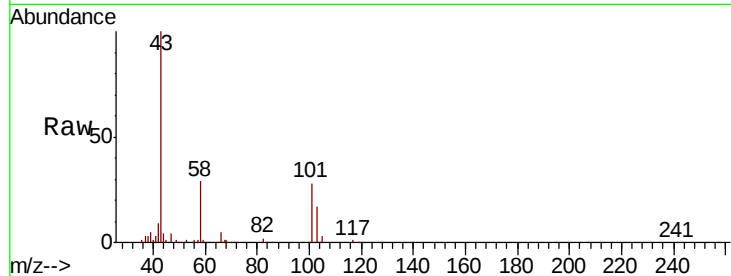
KSV-01DL

Tot Ion:101 Resp: 56815

Ion Ratio Lower Upper

101 100

103 60.7 52.6 79.0



#13

Ethanol

Concen: 4.796 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037002.D

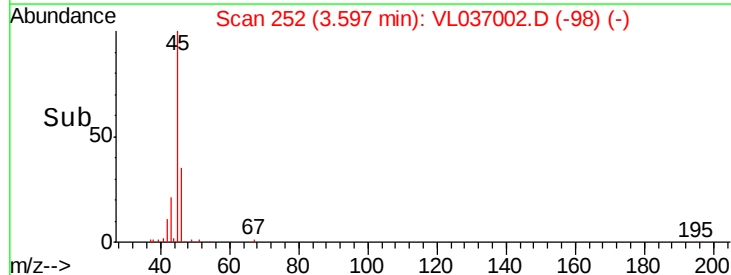
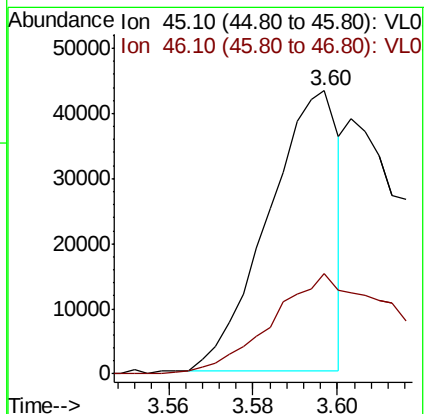
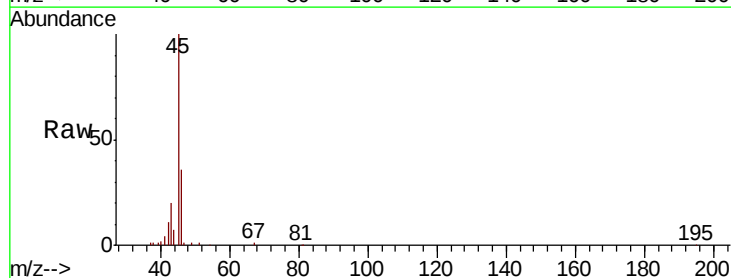
Acq: 19 May 2021 21:48

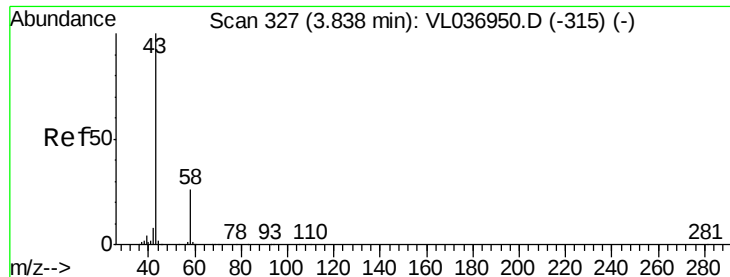
Tgt Ion: 45 Resp: 49890

Ion Ratio Lower Upper

45 100

46 80.9 16.3 65.3#





#15

Acetone

Concen: 74.353 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

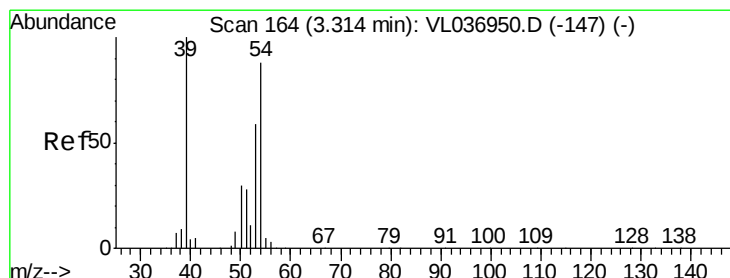
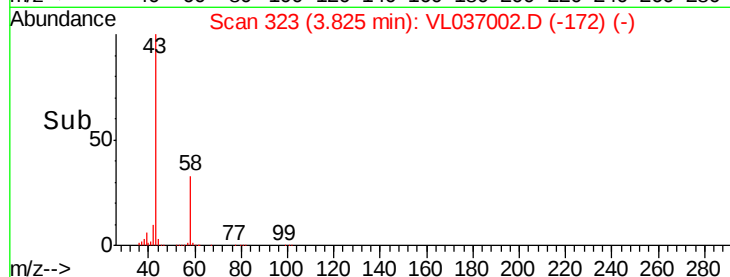
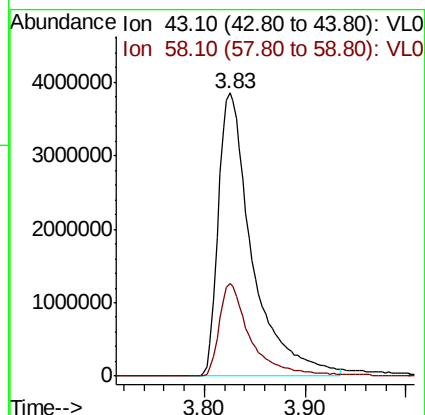
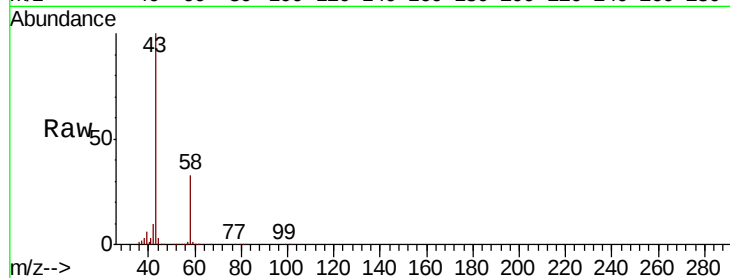
KSV-01DL

Tot Ion: 43 Resp: 9050290

Ion Ratio Lower Upper

43 100

58 31.0 24.0 36.0



#16

1,3-Butadiene

Concen: 4.480 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.02 min

Lab File: VL037002.D

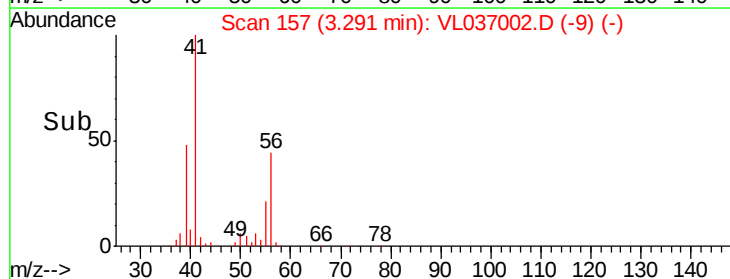
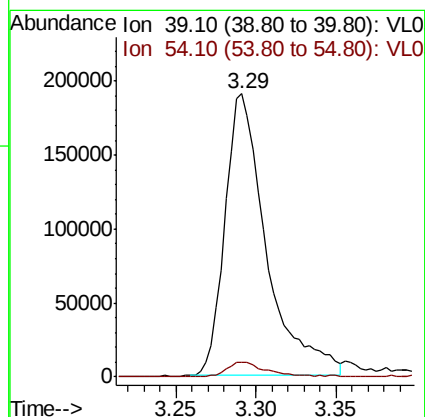
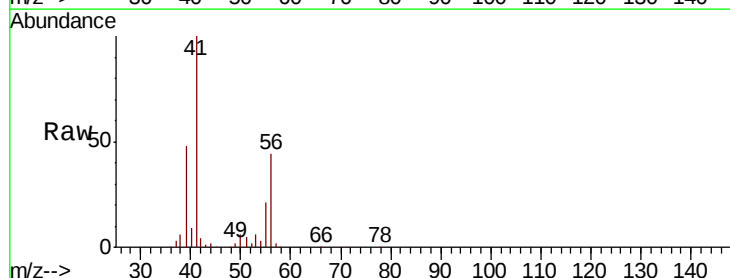
Acq: 19 May 2021 21:48

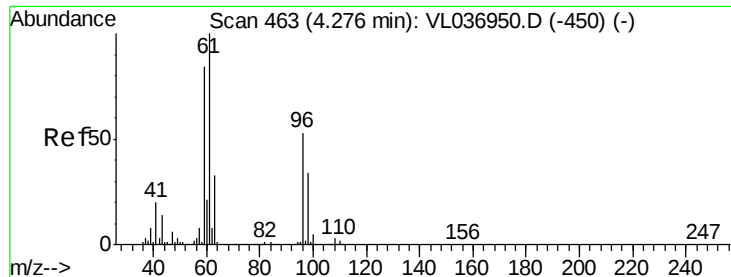
Tgt Ion: 39 Resp: 338804

Ion Ratio Lower Upper

39 100

54 5.4 63.2 94.8#





#17

tert-Butyl alcohol

Concen: 0.339 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.02 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

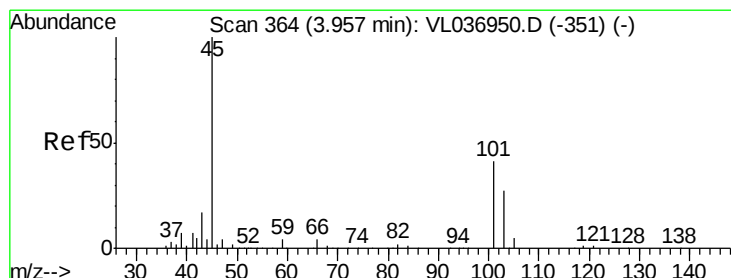
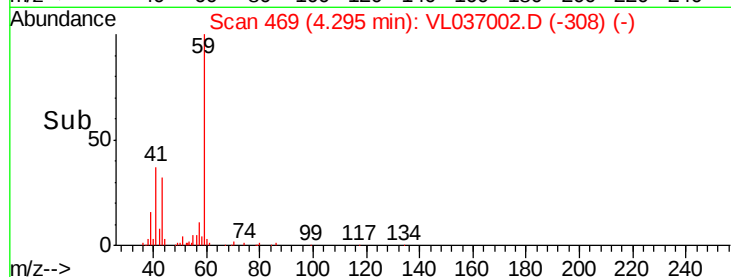
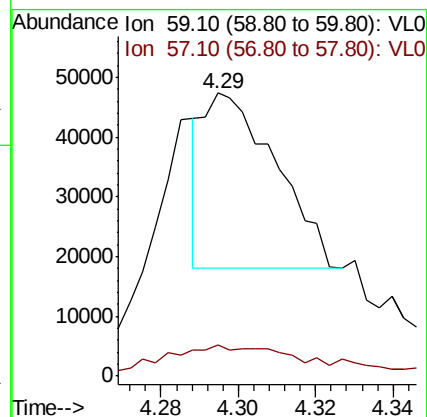
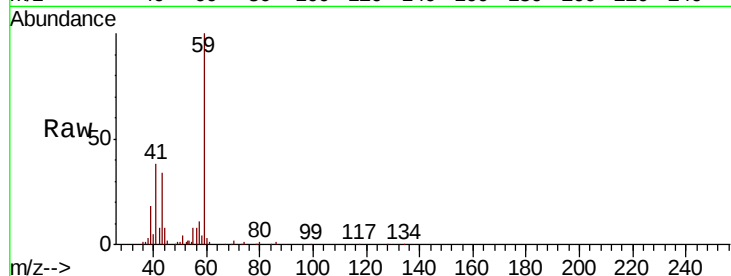
KSV-01DL

Tot Ion: 59 Resp: 37768

Ion Ratio Lower Upper

59 100

57 42.1 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 0.630 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL037002.D

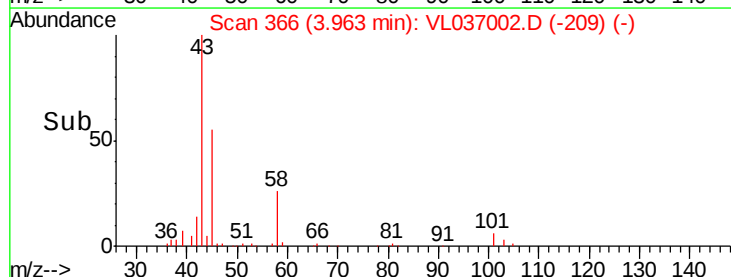
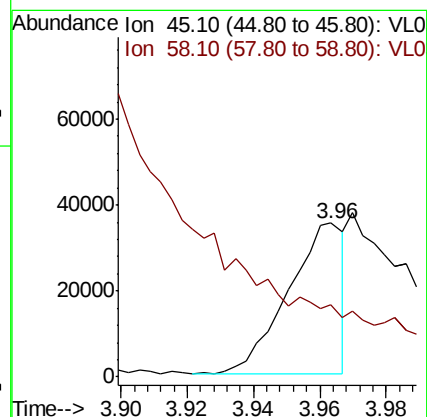
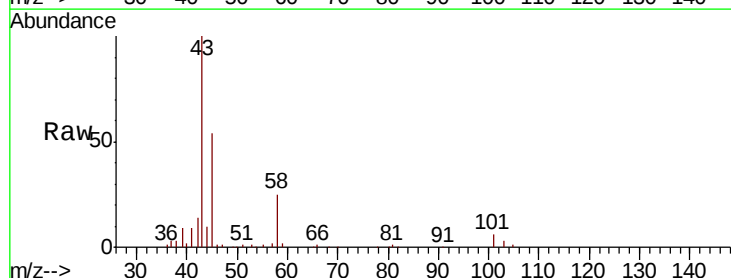
Acq: 19 May 2021 21:48

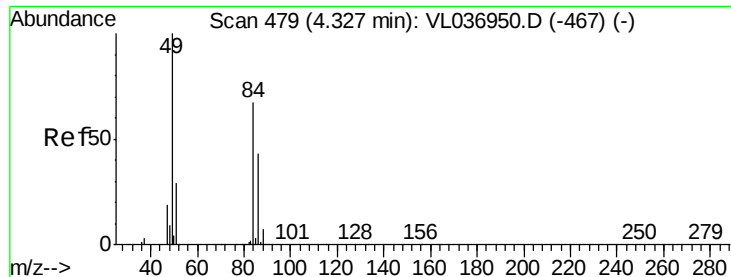
Tgt Ion: 45 Resp: 41214

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#





#20

Methylene Chloride

Concen: 0.736 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DL

Tot Ion: 84 Resp: 48020

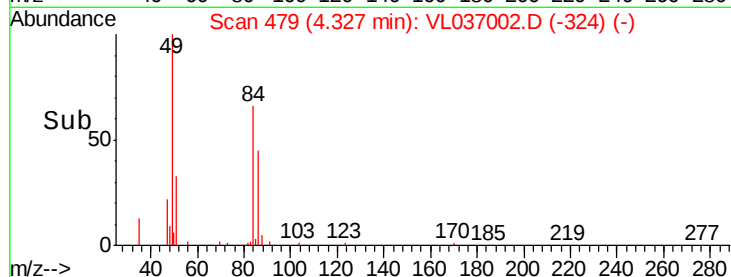
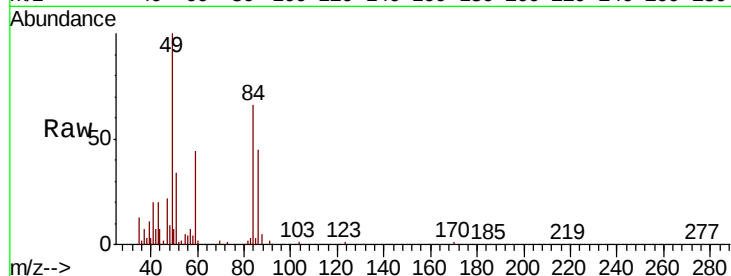
Ion Ratio Lower Upper

84 100

49 149.2 119.8 179.6

51 47.9 35.1 52.7

86 67.7 50.9 76.3



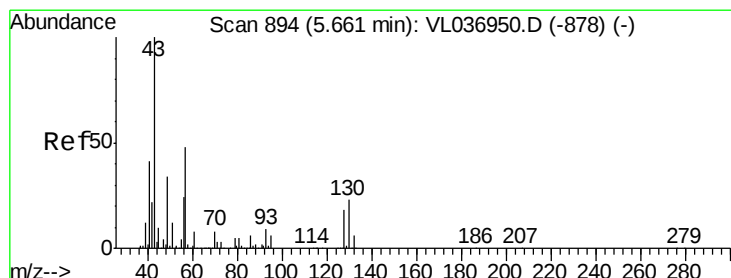
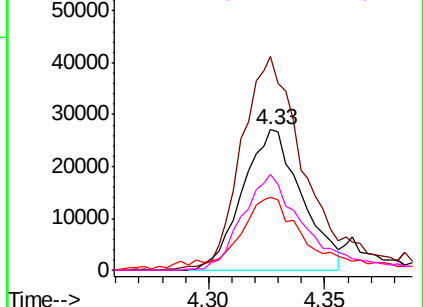
Abundance

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: 0.416 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Tgt Ion: 43 Resp: 121747

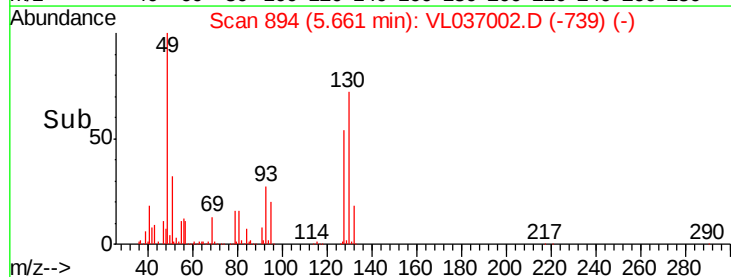
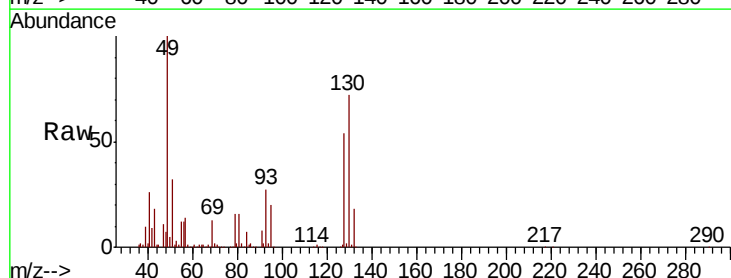
Ion Ratio Lower Upper

43 100

45 8.8 7.8 11.8

61 6.8 7.8 11.8#

70 13.9 5.6 8.4#



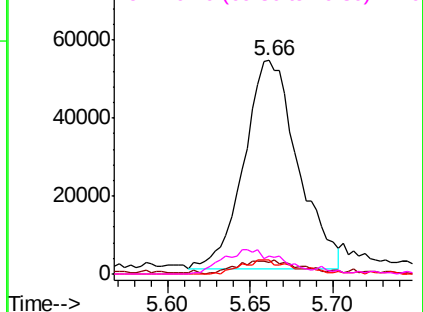
Abundance

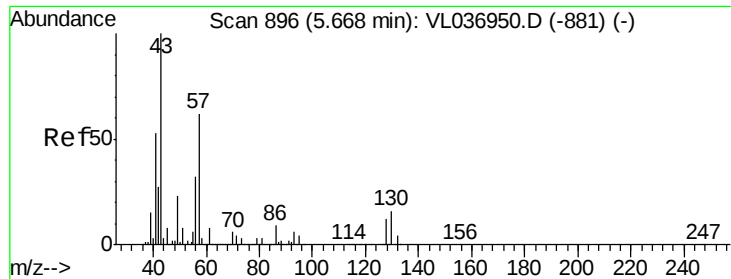
Ion 43.10 (42.80 to 43.80): VL0

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: 0.604 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DL

Tot Ion: 57 Resp: 90254

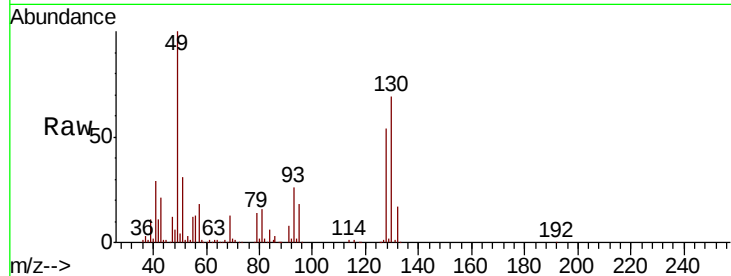
Ion Ratio Lower Upper

57 100

41 291.2 70.5 105.7#

43 157.2 165.8 248.8#

56 112.5 42.2 63.4#

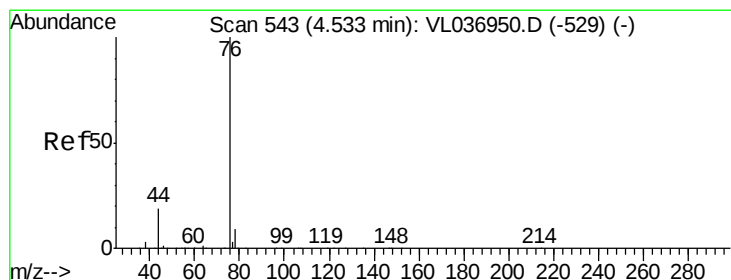
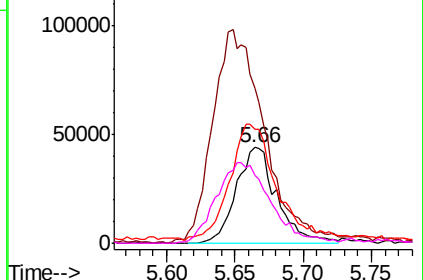
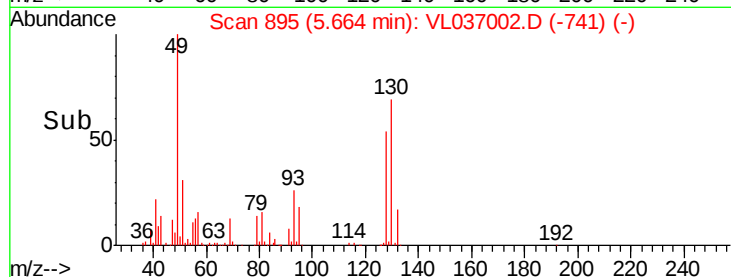


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.295 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

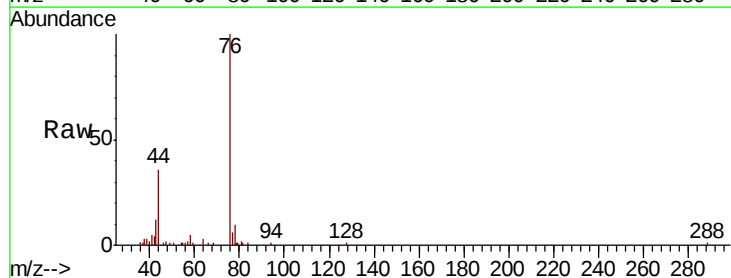
Tgt Ion: 76 Resp: 44493

Ion Ratio Lower Upper

76 100

44 35.3 15.5 23.3#

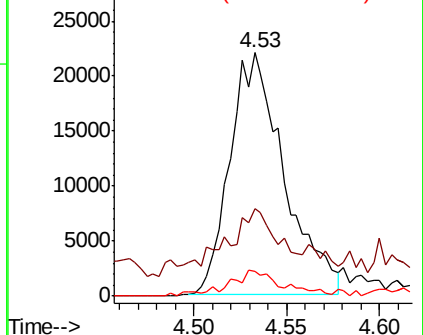
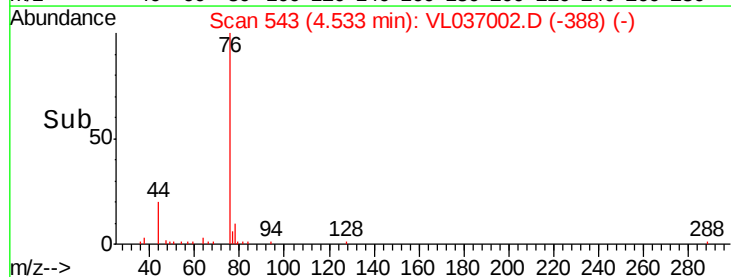
78 11.4 7.8 11.6

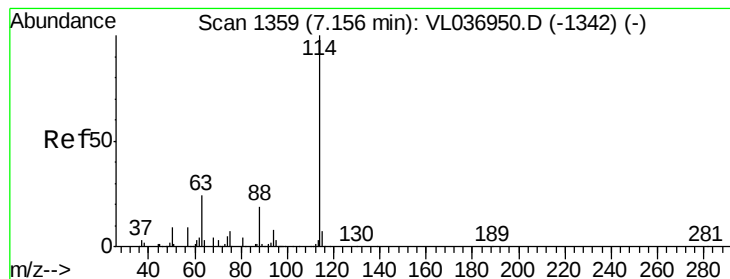


Abundance Ion 76.00 (75.70 to 76.70): VL0

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: 7.15 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DL

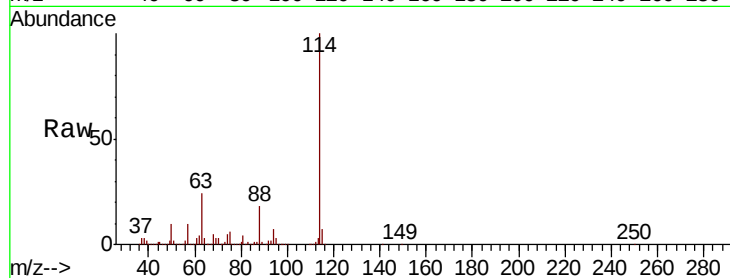
Tot Ion:114 Resp: 3597249

Ion Ratio Lower Upper

114 100

63 23.8 19.6 29.4

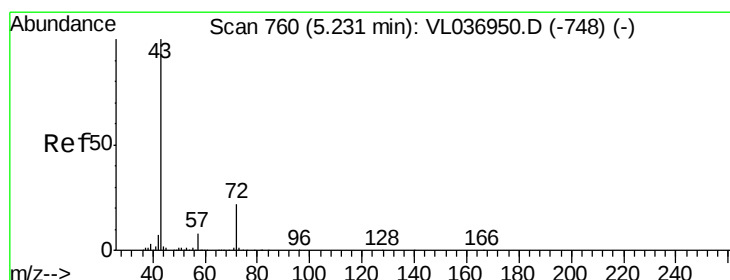
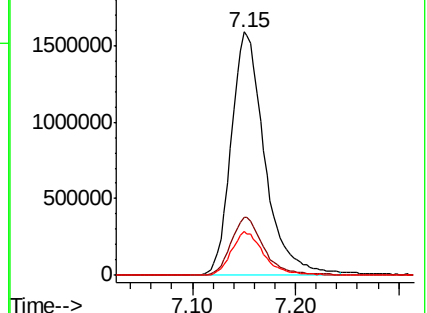
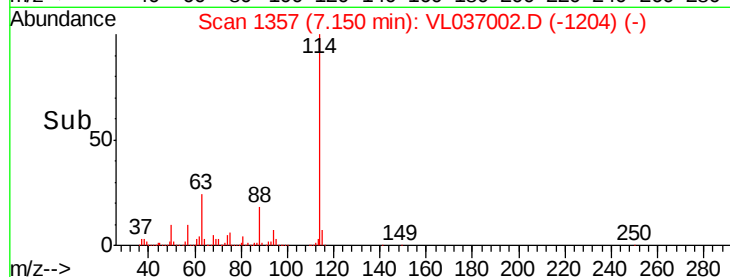
88 17.7 14.6 21.8



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



#34

2-Butanone

Concen: 2.742 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.00 min

Lab File: VL037002.D

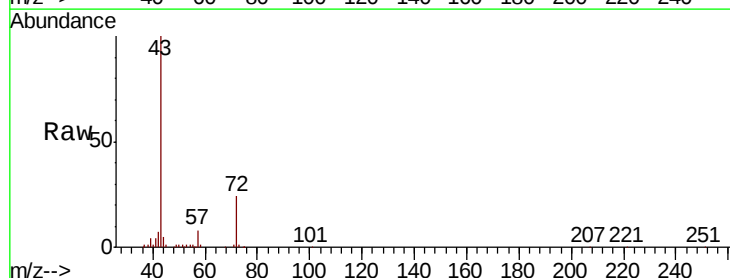
Acq: 19 May 2021 21:48

Tgt Ion: 43 Resp: 359171

Ion Ratio Lower Upper

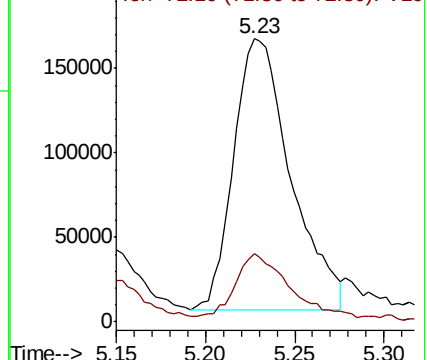
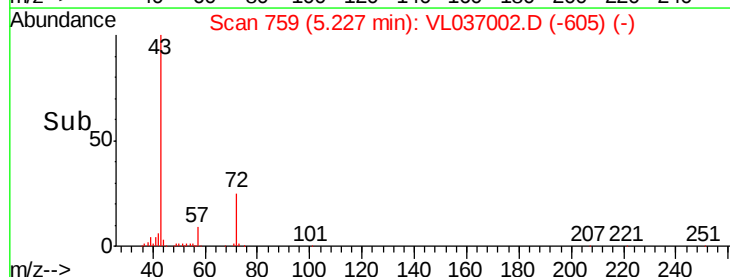
43 100

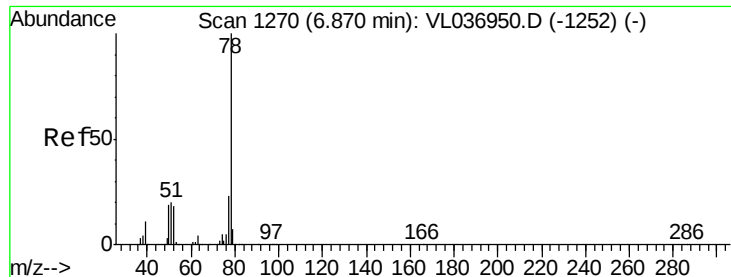
72 26.3 19.0 28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 3.003 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

Instrument :

MSVOA_L

ClientSampled :

KSV-01DL

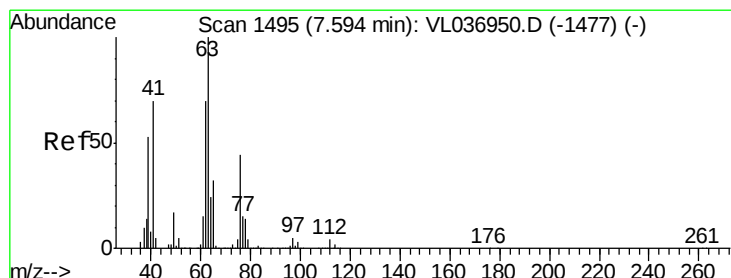
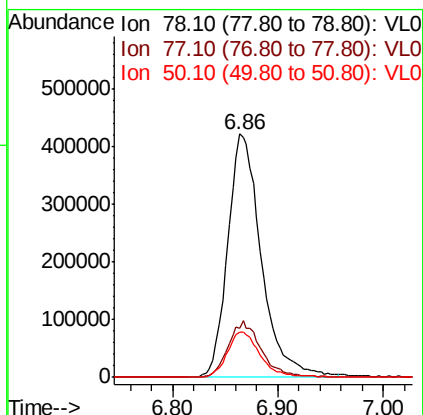
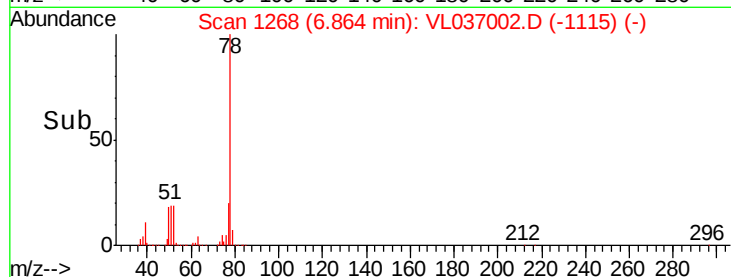
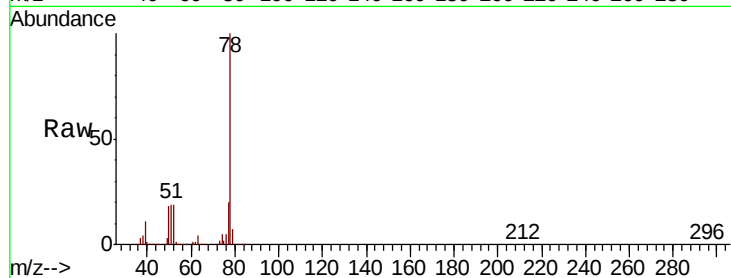
Tot Ion: 78 Resp: 930511

Ion Ratio Lower Upper

78 100

77 20.2 18.6 28.0

50 18.3 15.0 22.4



#39

1,2-Dichloropropane

Concen: 6.995 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL037002.D

Acq: 19 May 2021 21:48

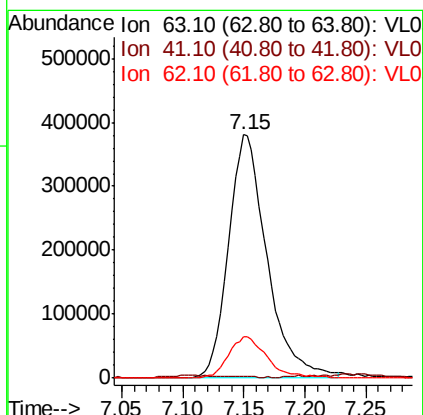
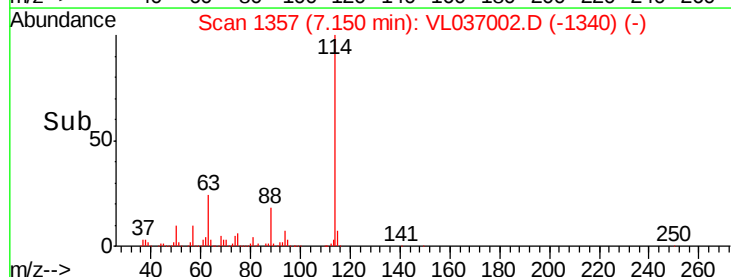
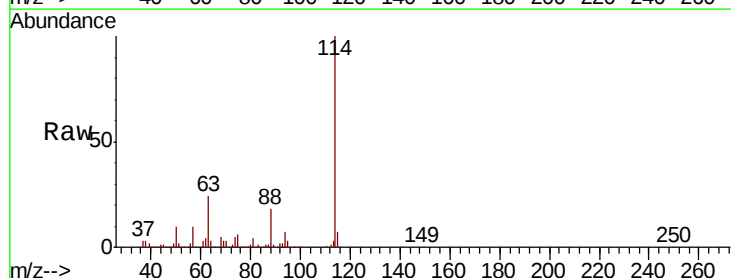
Tgt Ion: 63 Resp: 834880

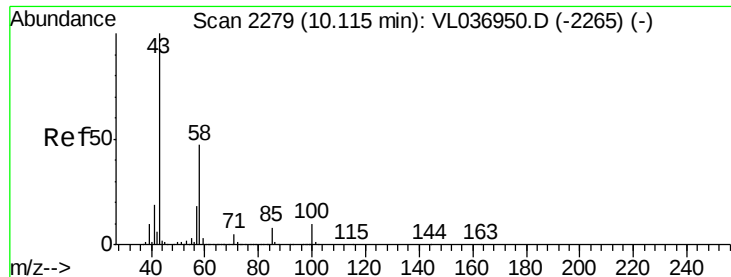
Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

62 17.1 56.2 84.4#

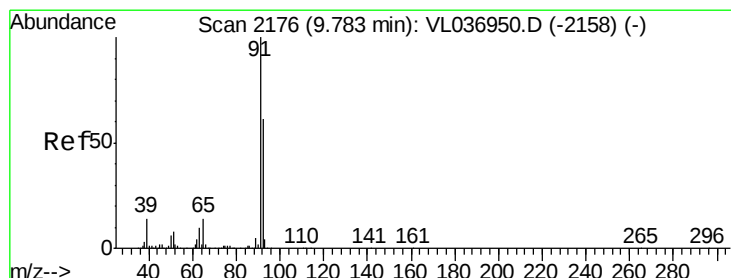
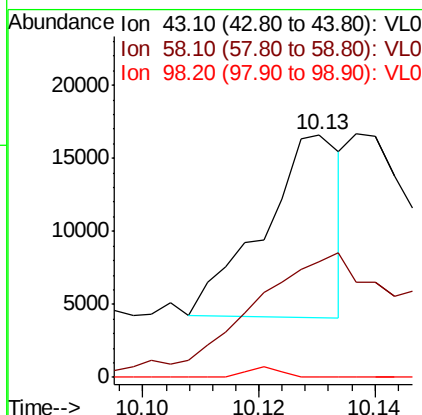
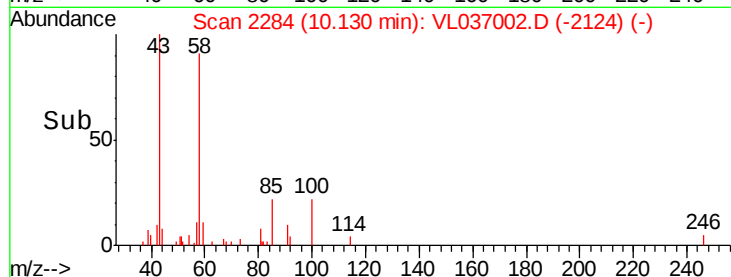
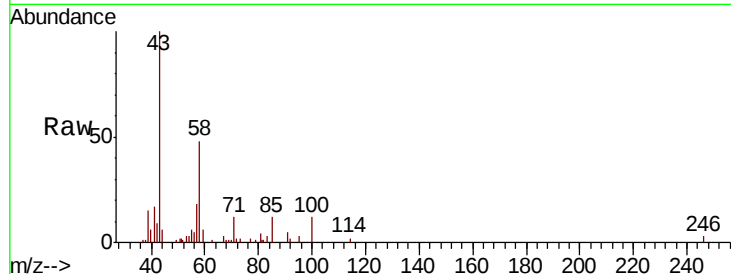




#51
2-Hexanone
Concen: 0.102 ppbv
RT: 10.13 min Scan# 2284
Delta R.T. 0.02 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

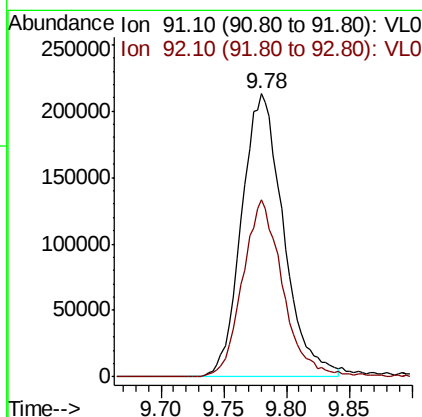
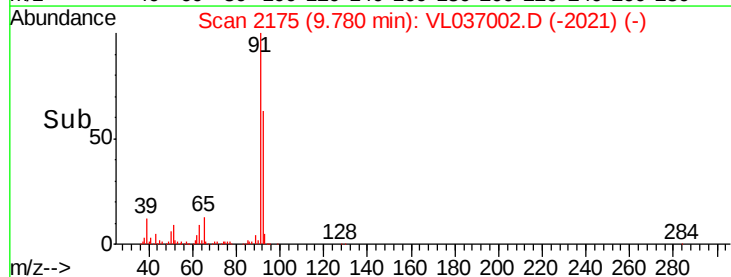
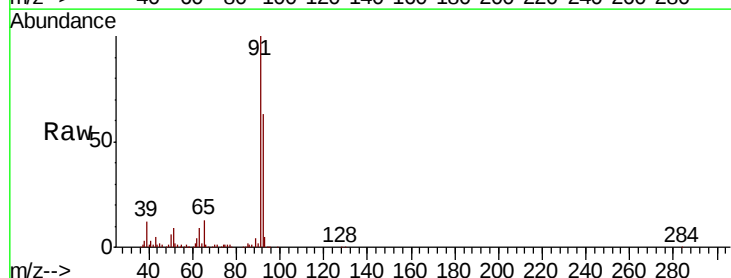
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

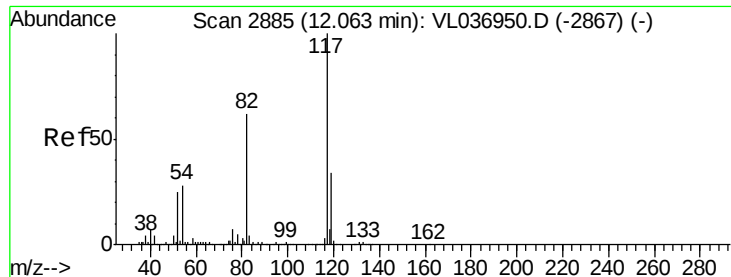
Tot Ion: 43 Resp: 11659
Ion Ratio Lower Upper
43 100
58 0.0 41.1 61.7#
98 2.4 0.1 0.1#



#53
Toluene
Concen: 1.339 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Tgt Ion: 91 Resp: 493794
Ion Ratio Lower Upper
91 100
92 60.5 49.5 74.3

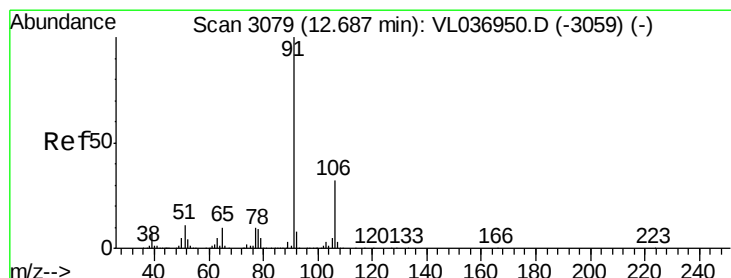
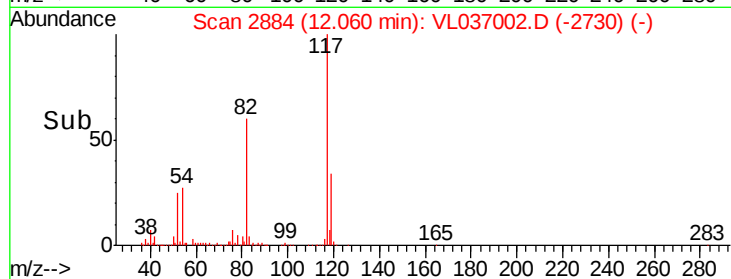
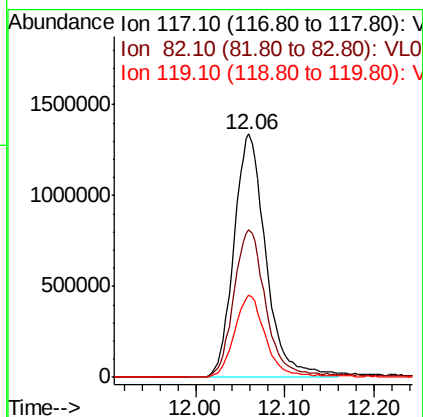
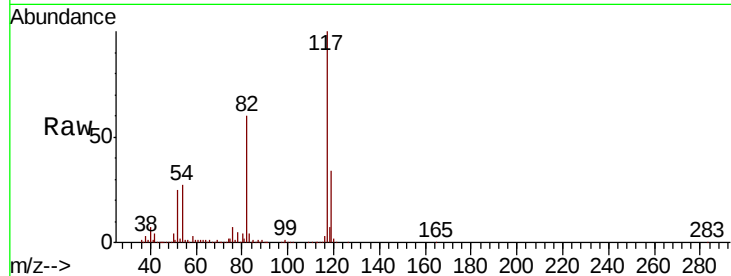




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

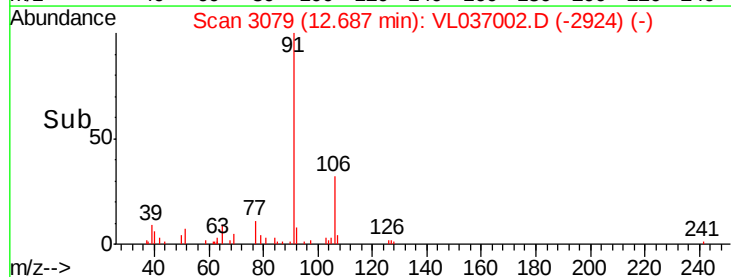
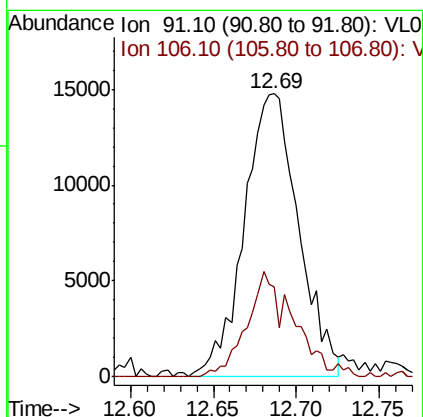
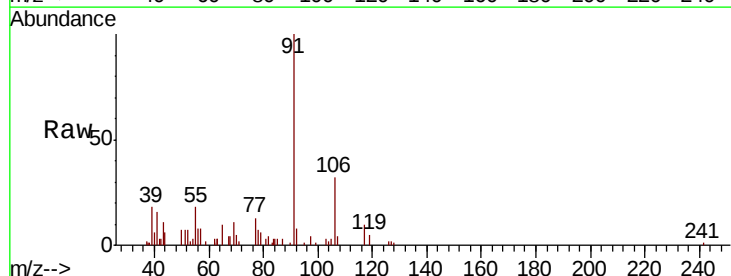
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

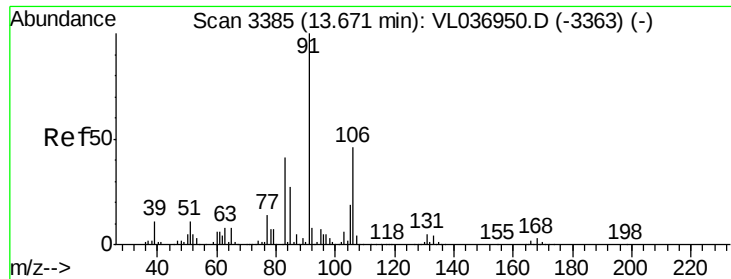
Tot Ion:117 Resp: 3329161
Ion Ratio Lower Upper
117 100
82 63.4 52.6 79.0
119 33.7 46.6 70.0#



#58
Ethyl Benzene
Concen: 0.072 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Tgt Ion: 91 Resp: 33752
Ion Ratio Lower Upper
91 100
106 31.9 25.6 38.4

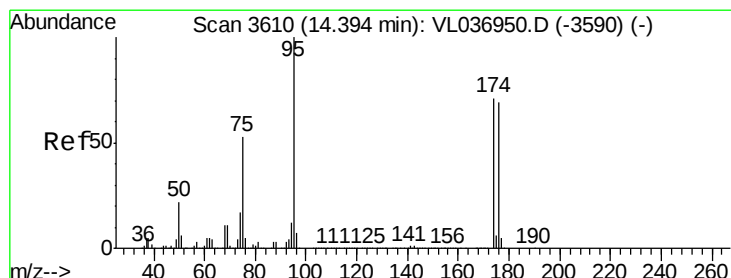
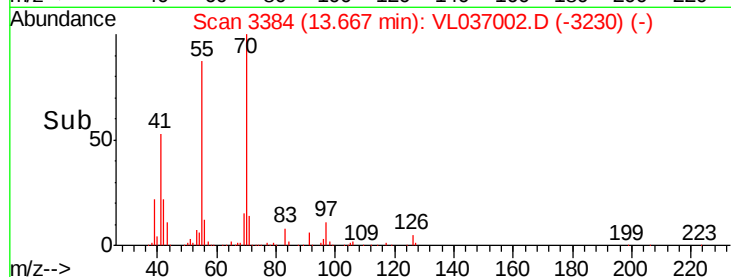
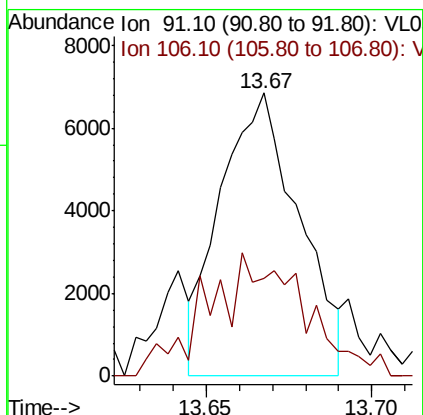
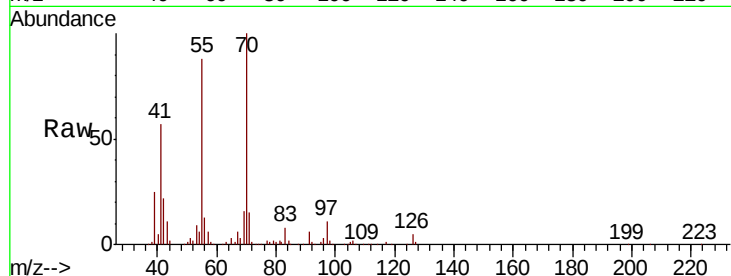




#60
o-Xylene
Concen: 0.031 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.00 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-01DL

Tot Ion: 91 Resp: 11315
Ion Ratio Lower Upper
91 100
106 55.2 23.4 70.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.733 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.01 min
Lab File: VL037002.D
Acq: 19 May 2021 21:48

Tgt Ion: 95 Resp: 2434222
Ion Ratio Lower Upper
95 100
174 75.3 58.4 87.6
175 5.5 4.4 6.6

