

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037000.D
 Acq On : 19 May 2021 20:25
 Operator : SY/AP
 Sample : M2424-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-03DL

Quant Time: May 20 06:32:12 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	1205285	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3455098	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3209919	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2494454	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

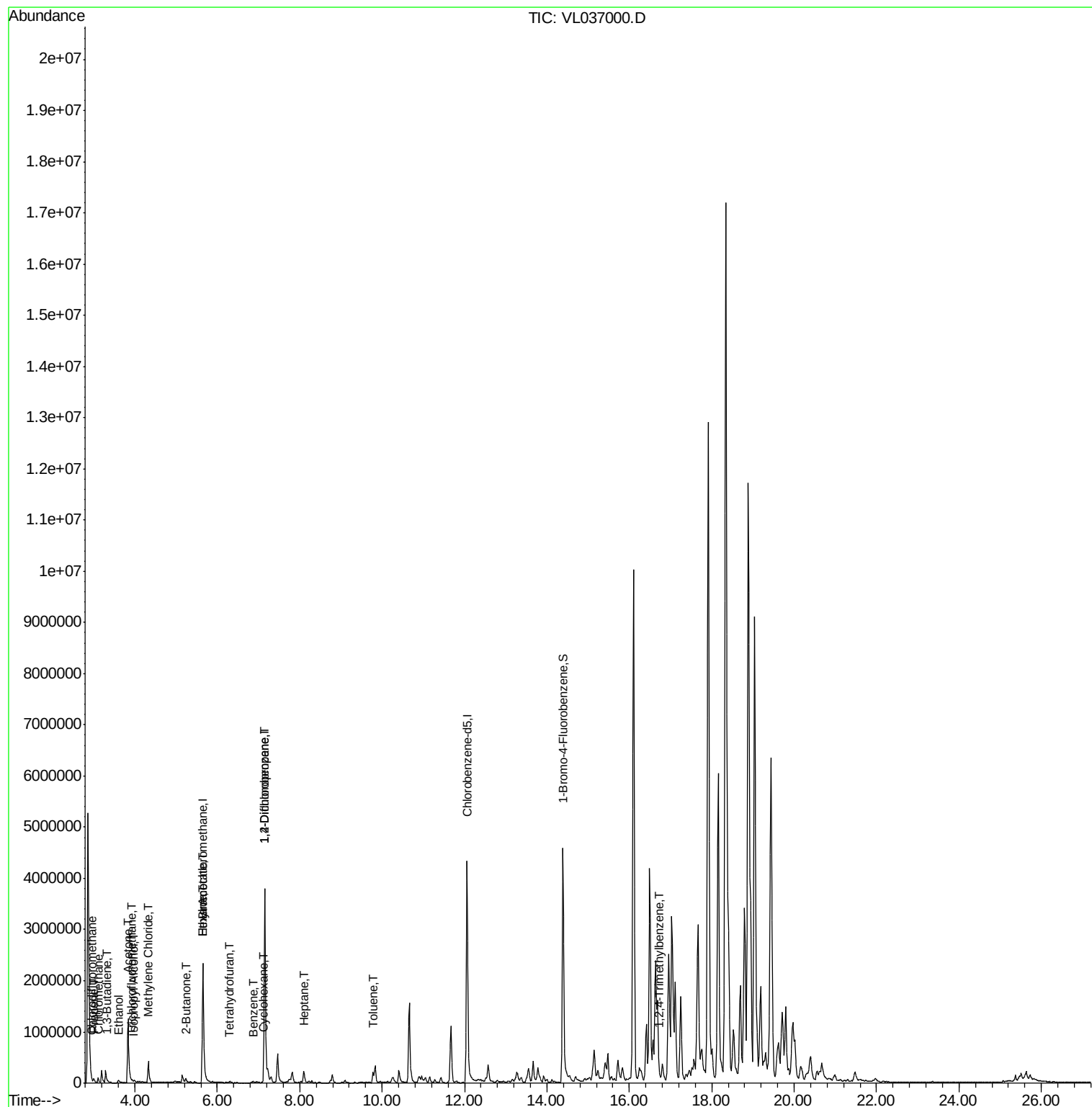
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	8204	0.037	ppbv	96
4) Chloromethane	3.12	50	3064	0.041	ppbv #	42
9) Propene	3.00	41	33503	0.424	ppbv	96
10) Heptane	8.10	43	55566	0.282	ppbv #	26
11) Trichlorofluoromethane	3.93	101	5902	0.031	ppbv #	80
13) Ethanol	3.60	45	79592	7.545	ppbv	94
15) Acetone	3.83	43	1675634	13.573	ppbv	98
16) 1,3-Butadiene	3.32	39	2757	0.036	ppbv #	10
19) Isopropyl Alcohol	3.97	45	6868	0.103	ppbv #	30
20) Methylene Chloride	4.33	84	170415	2.575	ppbv	95
25) Ethyl Acetate	5.66	43	136290	0.459	ppbv #	82
26) Hexane	5.66	57	160725	1.061	ppbv #	43
30) Cyclohexane	7.11	84	6131	0.048	ppbv #	6
34) 2-Butanone	5.23	43	46570	0.370	ppbv #	4
36) Benzene	6.86	78	10488	0.035	ppbv #	88
39) 1,2-Dichloropropane	7.15	63	809695	7.063	ppbv #	26
41) Tetrahydrofuran	6.29	42	2344	0.033	ppbv #	41
53) Toluene	9.78	91	82486	0.233	ppbv #	12
74) 1,2,4-Trimethylbenzene	16.74	105	16115	0.039	ppbv #	61

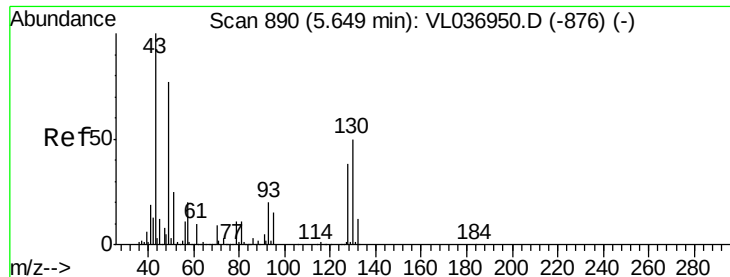
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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Quant Time: May 20 06:32:12 2021
Quant Method : Z:\V0ASRV\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

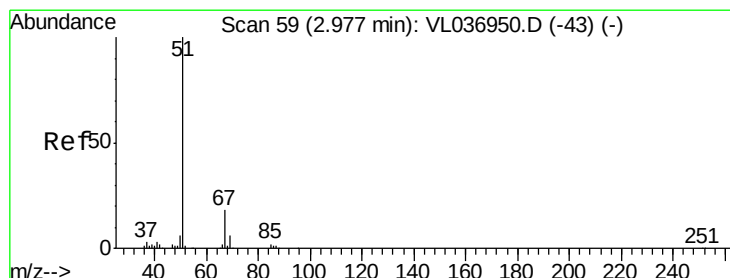
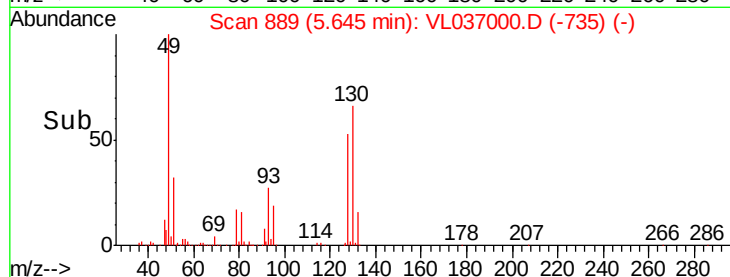
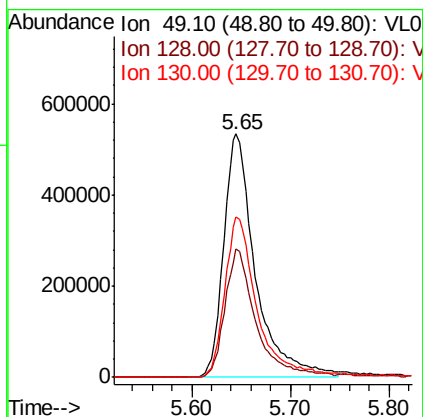
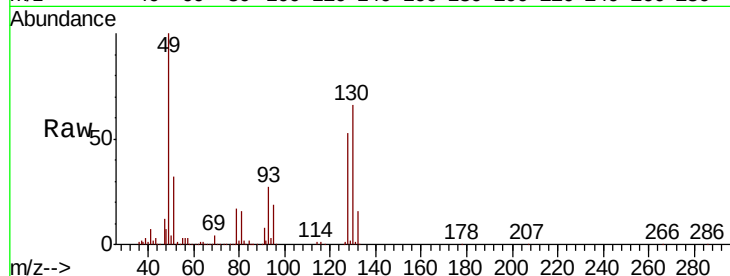




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VL037000.D
 Acq: 19 May 2021 20:25

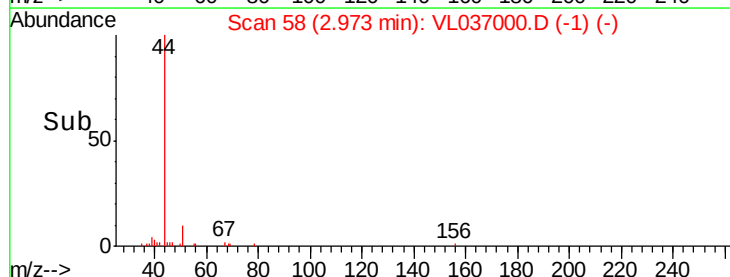
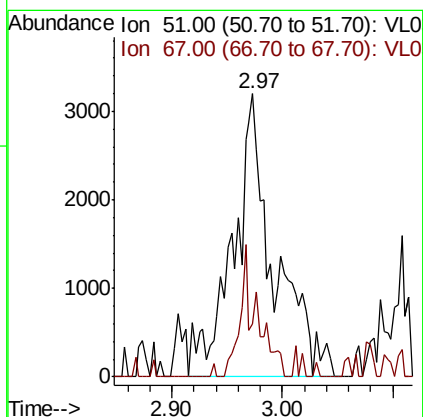
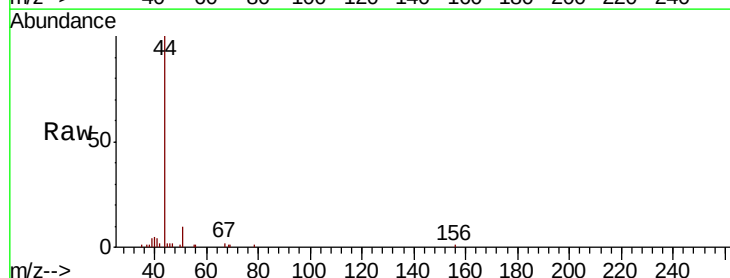
Instrument :
 MSVOA_L
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 KSV-03DL

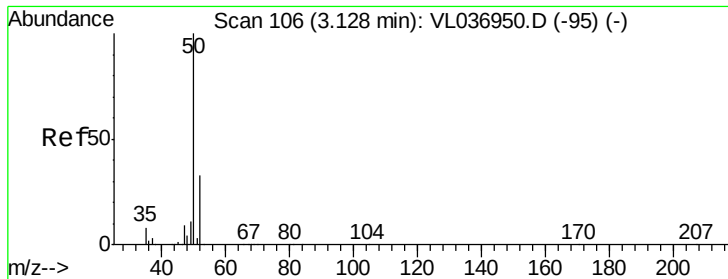
Tot Ion: 49 Resp: 1205285
 Ion Ratio Lower Upper
 49 100
 128 53.6 26.9 80.7
 130 69.1 33.8 101.4



#3
 Chlorodifluoromethane
 Concen: 0.037 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. -0.00 min
 Lab File: VL037000.D
 Acq: 19 May 2021 20:25

Tgt Ion: 51 Resp: 8204
 Ion Ratio Lower Upper
 51 100
 67 19.9 14.6 21.8





#4

Chloromethane

Concen: 0.041 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

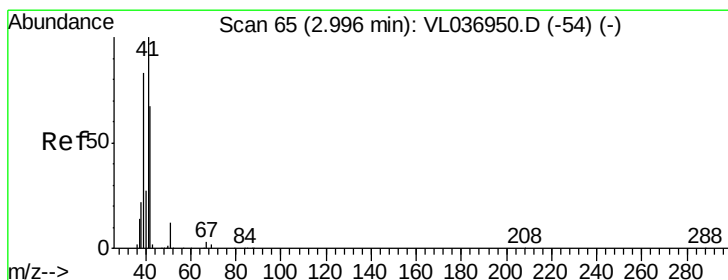
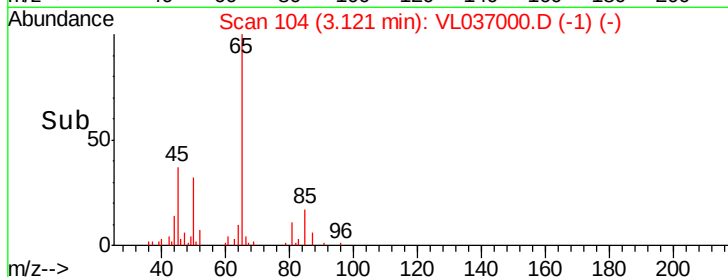
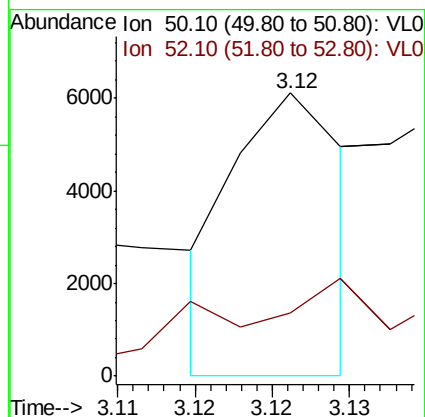
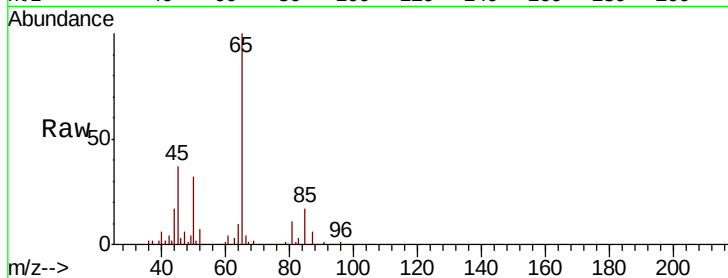
KSV-03DL

Tot Ion: 50 Resp: 3064

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



#9

Propene

Concen: 0.424 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL037000.D

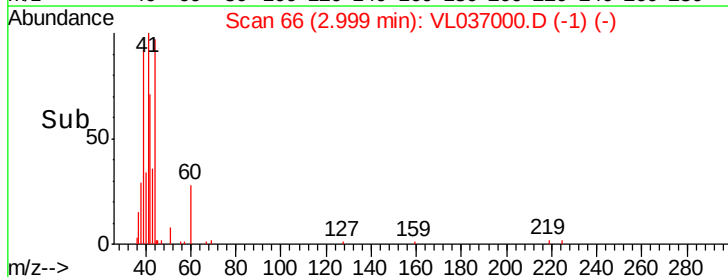
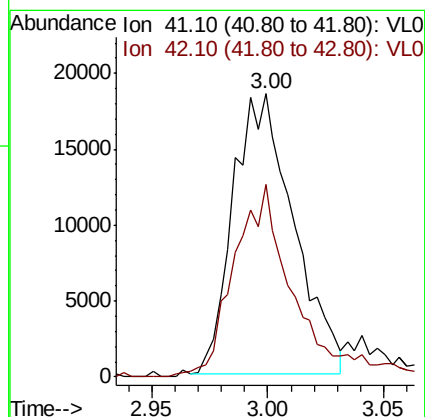
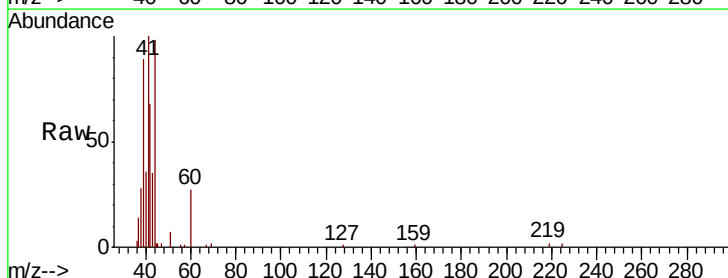
Acq: 19 May 2021 20:25

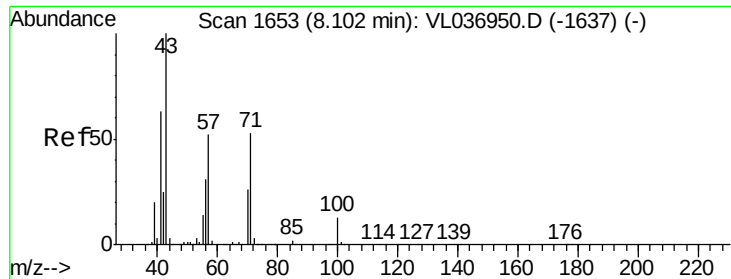
Tgt Ion: 41 Resp: 33503

Ion Ratio Lower Upper

41 100

42 70.3 53.9 80.9

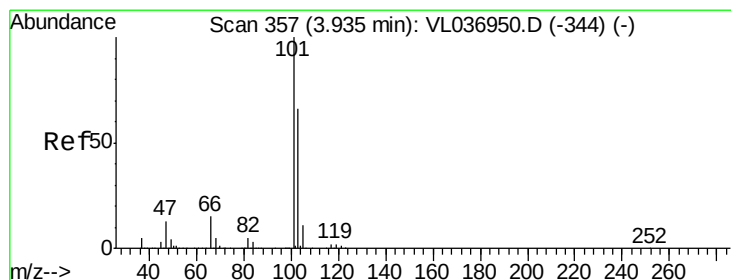
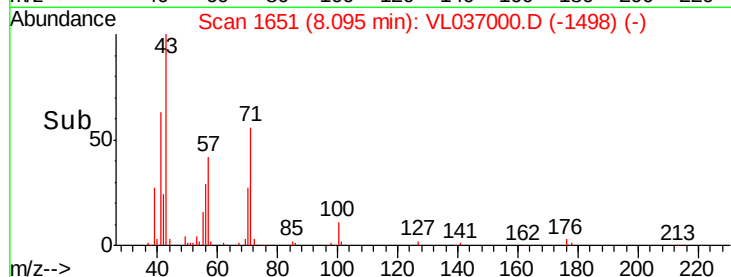
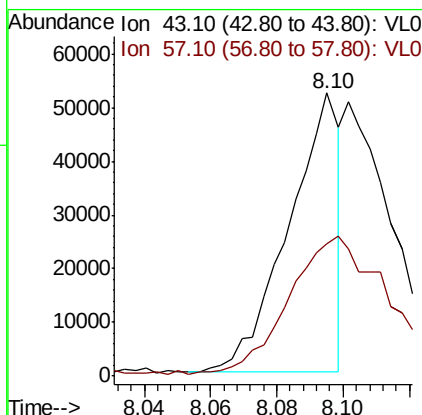
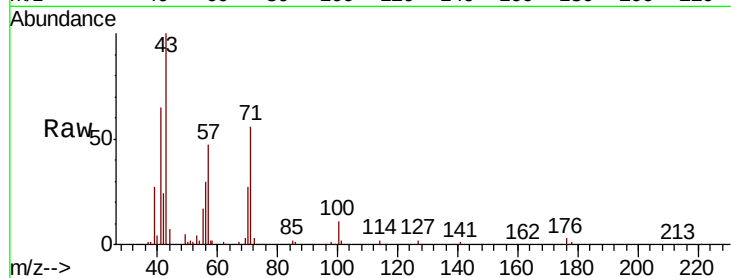




#10
 Heptane
 Concen: 0.282 ppbv
 RT: 8.10 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: VL037000.D
 Acq: 19 May 2021 20:25

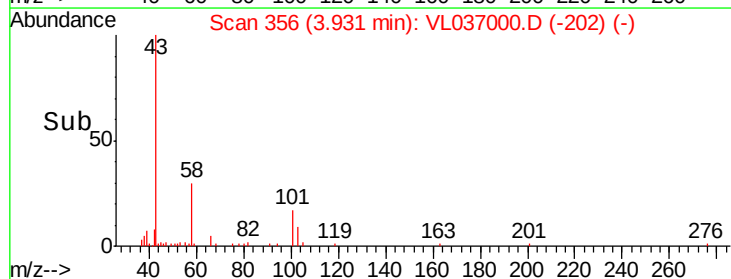
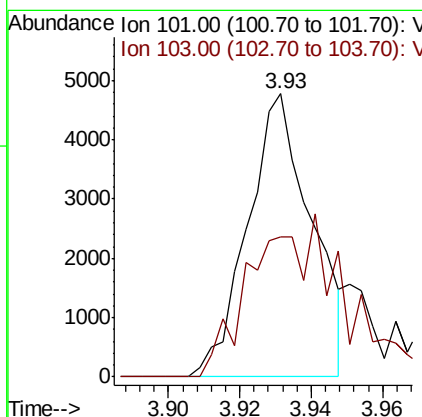
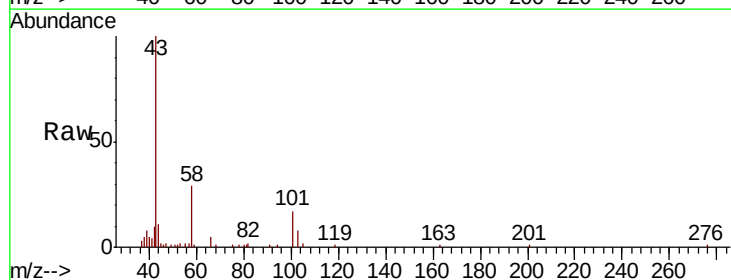
Instrument :
 MSVOA_L
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 KSV-03DL

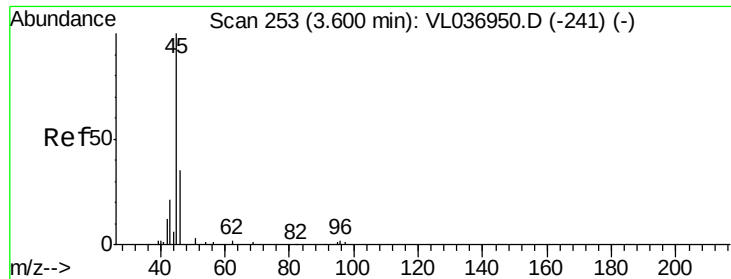
Tot Ion: 43 Resp: 55566
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.0 61.6#



#11
 Trichlorofluoromethane
 Concen: 0.031 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL037000.D
 Acq: 19 May 2021 20:25

Tgt Ion: 101 Resp: 5902
 Ion Ratio Lower Upper
 101 100
 103 49.5 52.6 79.0#

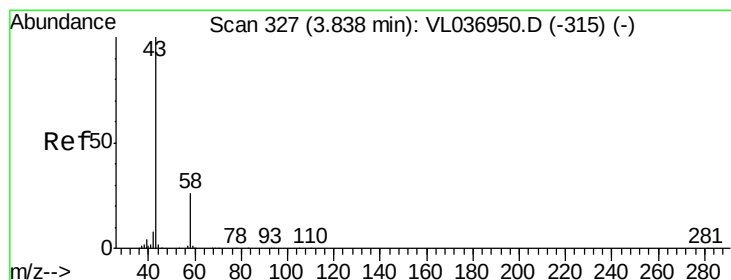
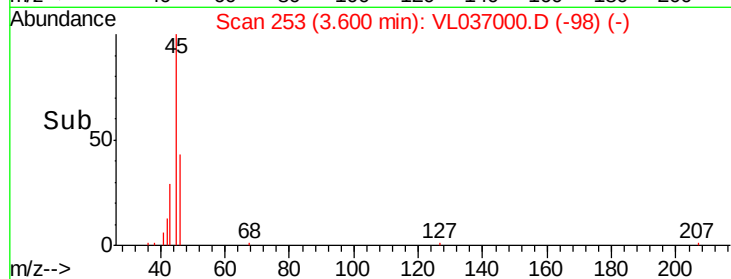
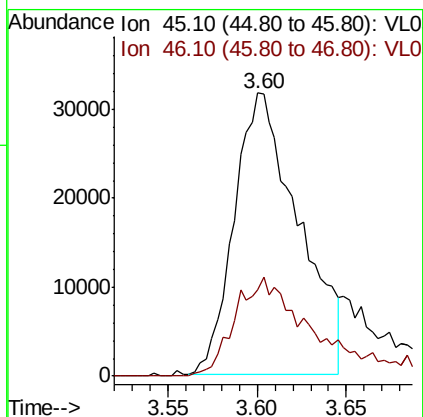
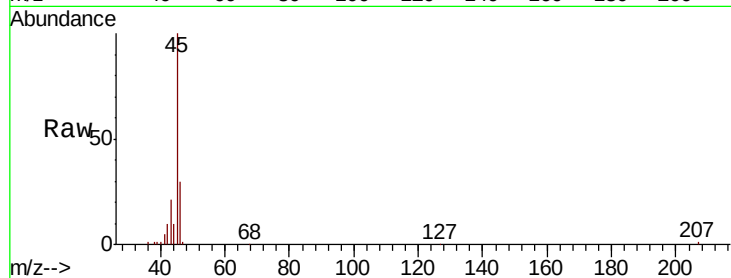




#13
Ethanol
Concen: 7.545 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL037000.D
Acq: 19 May 2021 20:25

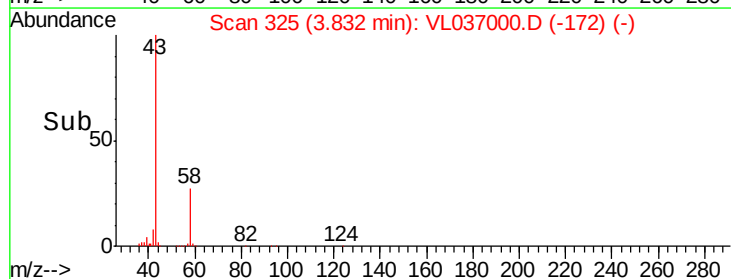
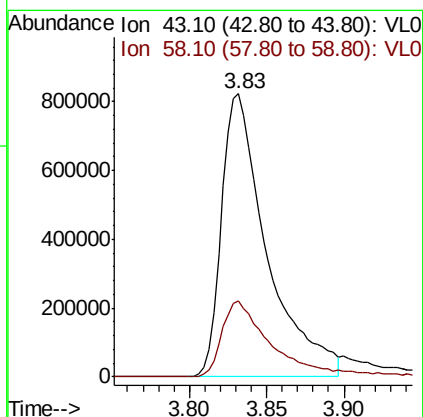
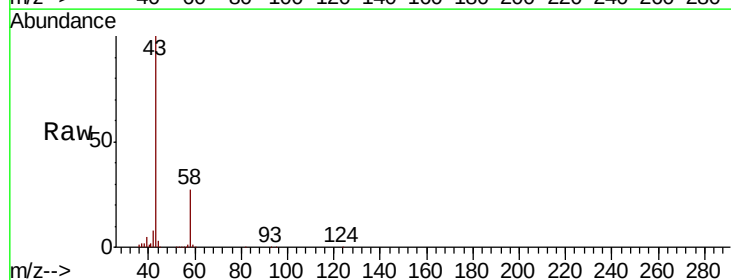
Instrument :
MSVOA_L
ClientSampleId :
KSV-03DL

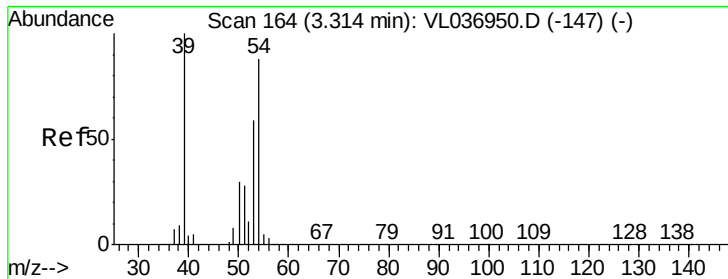
Tot Ion: 45 Resp: 79592
Ion Ratio Lower Upper
45 100
46 44.8 16.3 65.3



#15
Acetone
Concen: 13.573 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL037000.D
Acq: 19 May 2021 20:25

Tgt Ion: 43 Resp: 1675634
Ion Ratio Lower Upper
43 100
58 31.1 24.0 36.0





#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.01 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

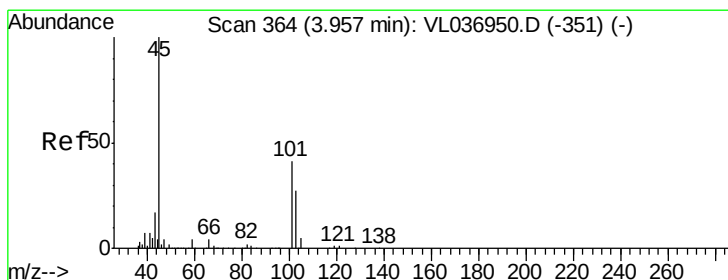
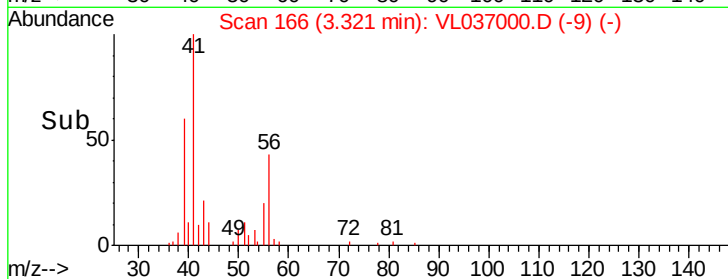
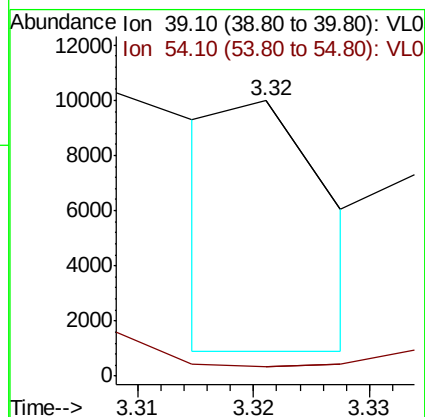
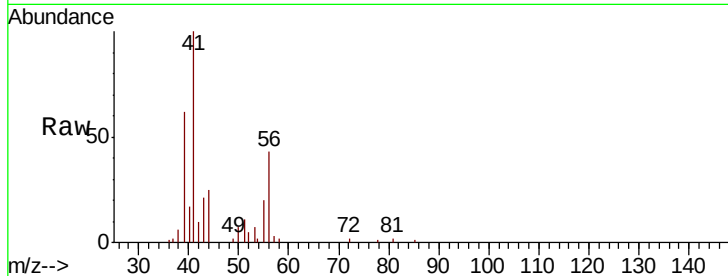
KSV-03DL

Tot Ion: 39 Resp: 2757

Ion Ratio Lower Upper

39 100

54 0.0 63.2 94.8#



#19

Isopropyl Alcohol

Concen: 0.103 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037000.D

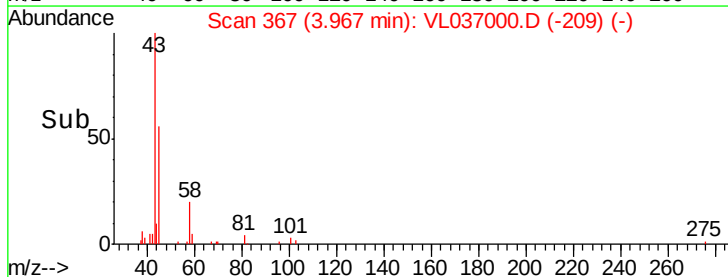
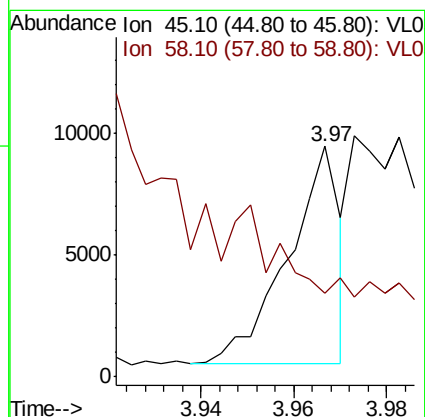
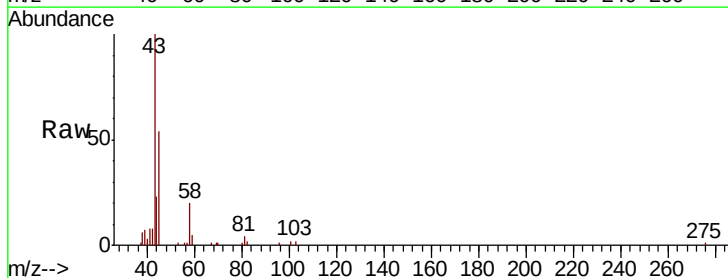
Acq: 19 May 2021 20:25

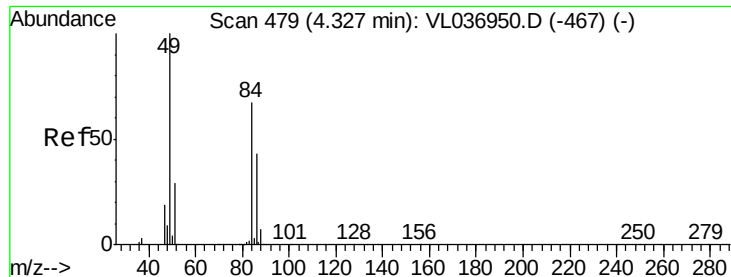
Tgt Ion: 45 Resp: 6868

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#

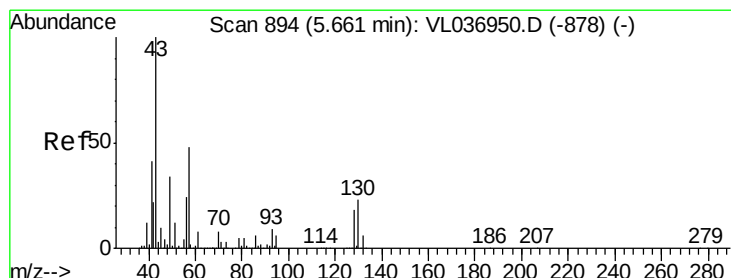
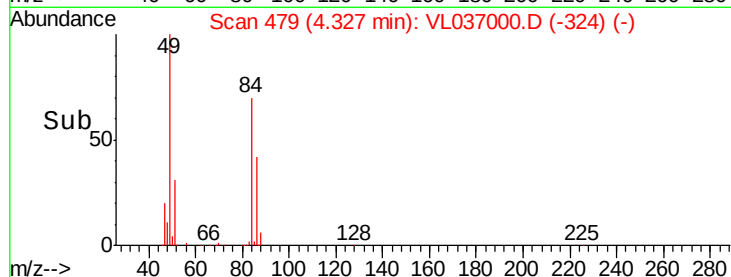
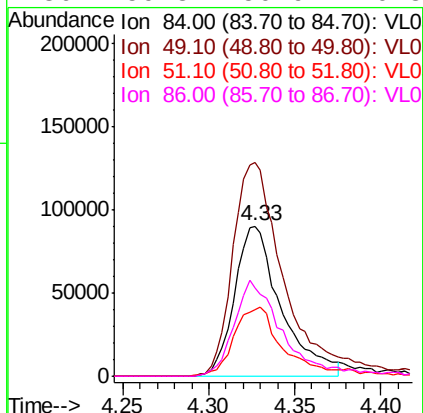
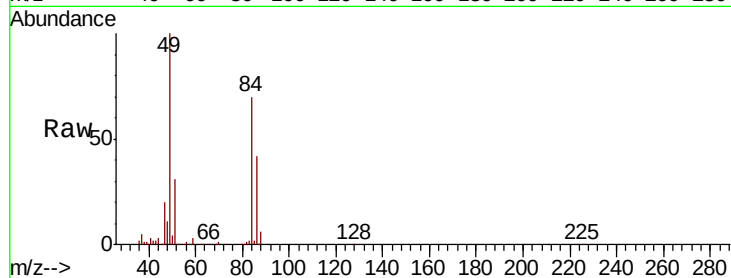




#20
Methylene Chloride
Concen: 2.575 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037000.D
Acq: 19 May 2021 20:25

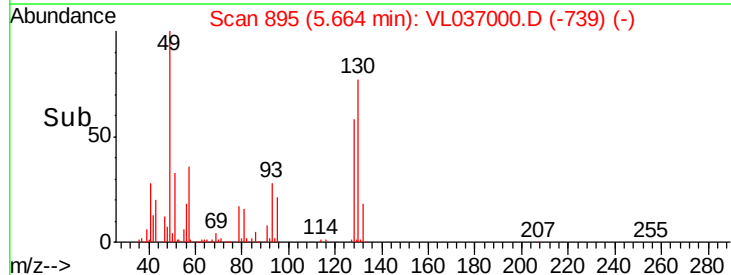
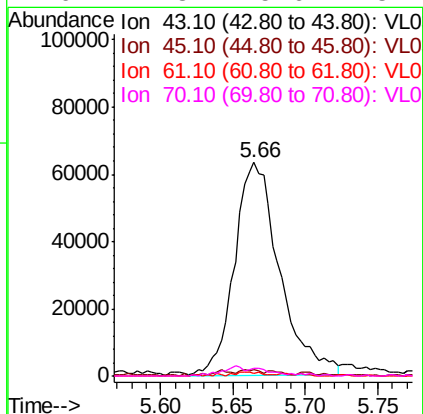
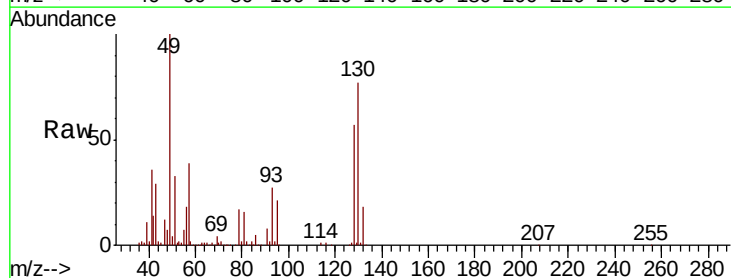
Instrument :
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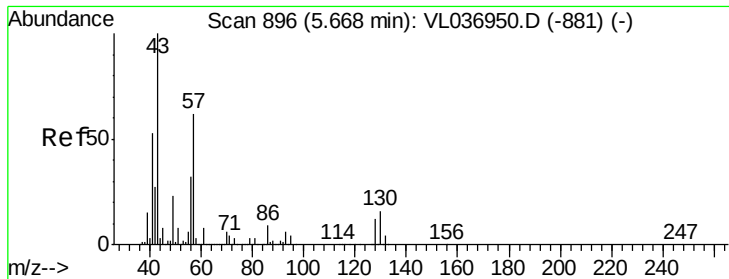
Tot Ion:	84	Resp:	170415
Ion	Ratio	Lower	Upper
84	100		
49	142.0	119.8	179.6
51	44.5	35.1	52.7
86	59.3	50.9	76.3



#25
Ethyl Acetate
Concen: 0.459 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL037000.D
Acq: 19 May 2021 20:25

Tgt Ion:	43	Resp:	136290
Ion	Ratio	Lower	Upper
43	100		
45	1.3	7.8	11.8#
61	2.0	7.8	11.8#
70	4.8	5.6	8.4#





#26

Hexane

Concen: 1.061 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

KSV-03DL

Tot Ion: 57 Resp: 160725

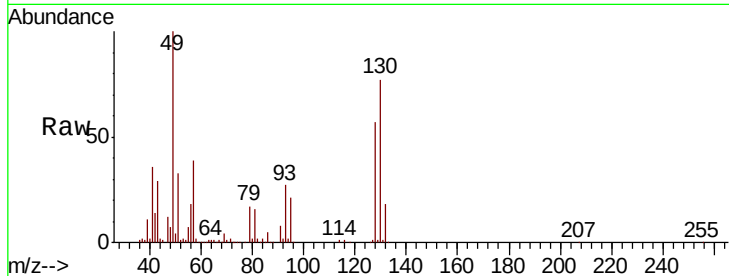
Ion Ratio Lower Upper

57 100

41 125.3 70.5 105.7#

43 91.5 165.8 248.8#

56 63.5 42.2 63.4#

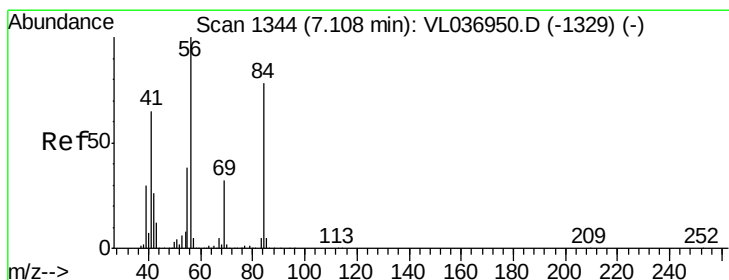
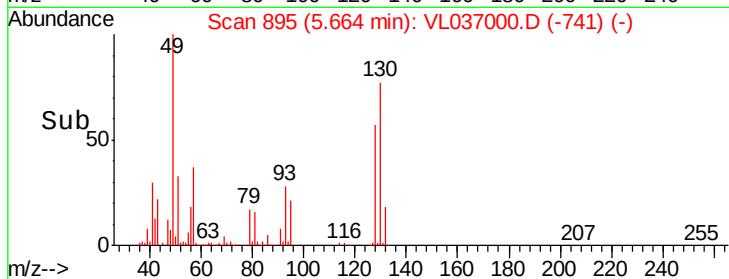
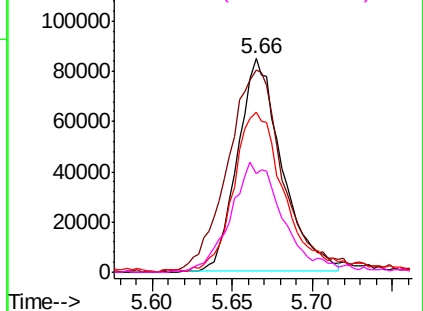


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#30

Cyclohexane

Concen: 0.048 ppbv

RT: 7.11 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

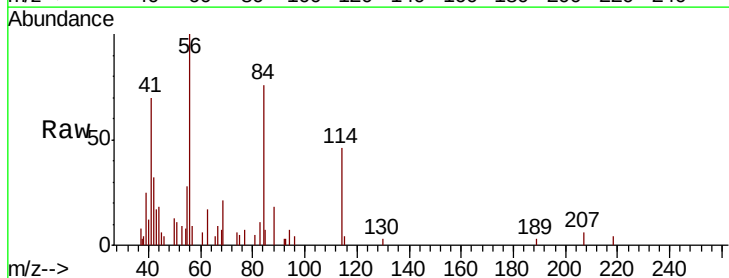
Tgt Ion: 84 Resp: 6131

Ion Ratio Lower Upper

84 100

56 0.0 107.9 161.9#

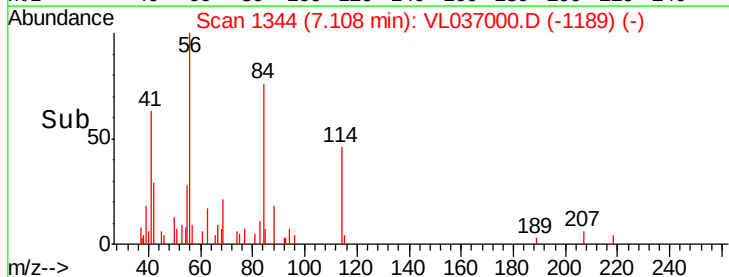
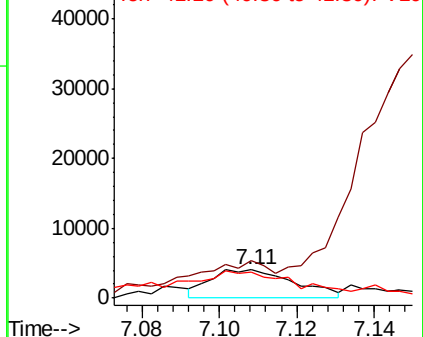
41 138.1 65.5 98.3#

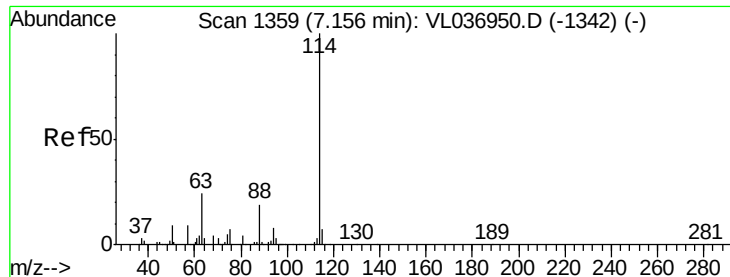


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

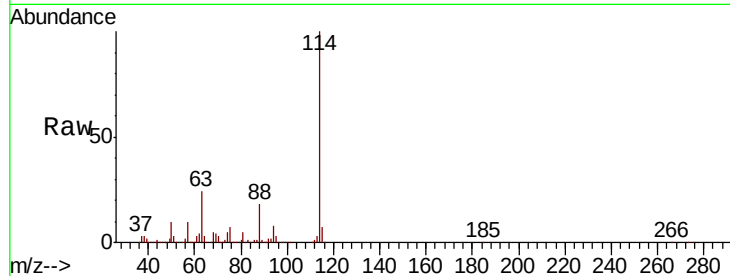




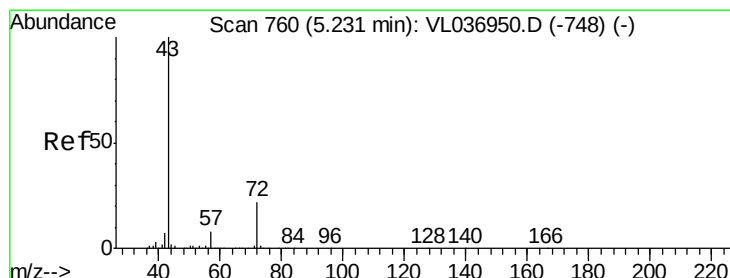
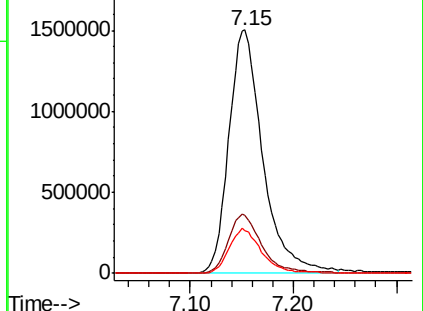
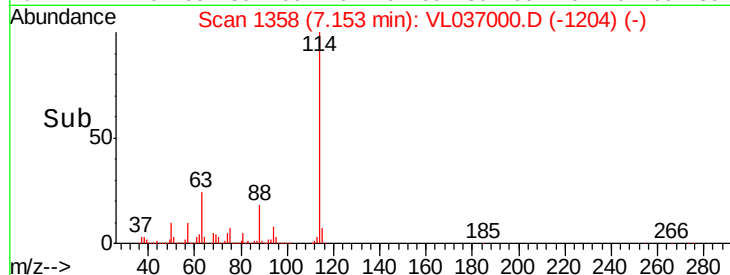
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL037000.D
 Acq: 19 May 2021 20:25

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-03DL

Tot Ion:114 Resp: 3455098
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.6 29.4
 88 17.9 14.6 21.8

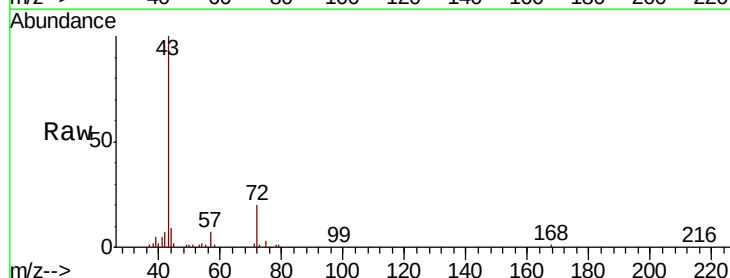


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

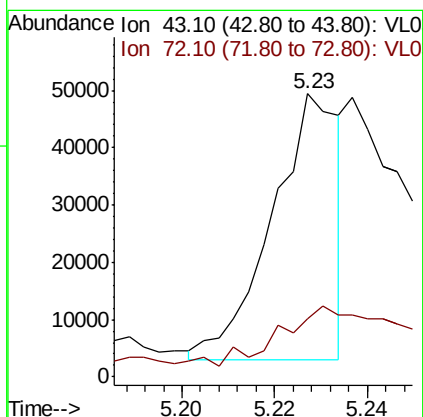
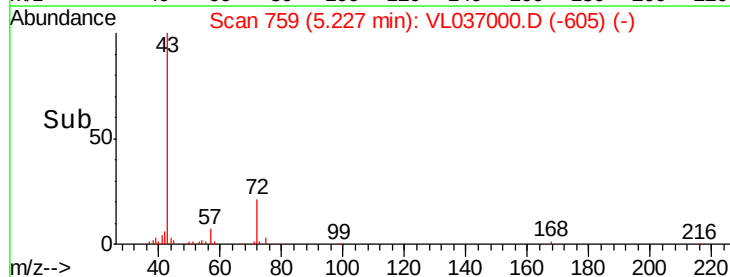


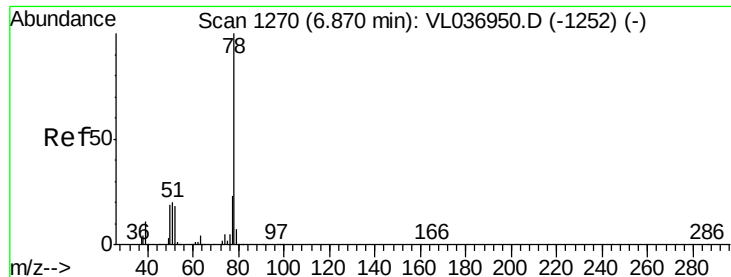
#34
 2-Butanone
 Concen: 0.370 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: VL037000.D
 Acq: 19 May 2021 20:25

Tgt Ion: 43 Resp: 46570
 Ion Ratio Lower Upper
 43 100
 72 71.0 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: 0.035 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

KSV-03DL

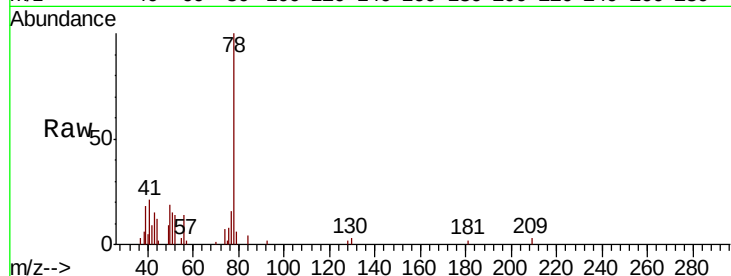
Tot Ion: 78 Resp: 10488

Ion Ratio Lower Upper

78 100

77 18.3 18.6 28.0#

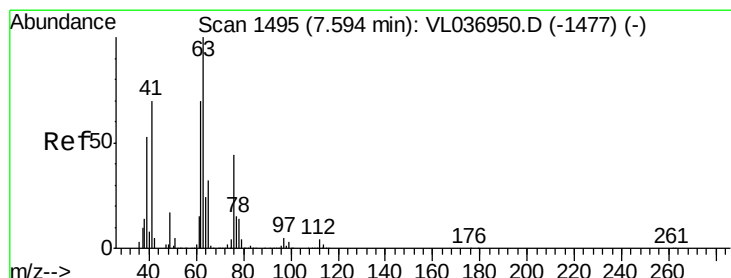
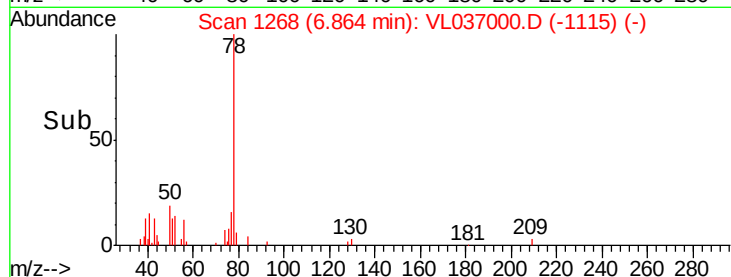
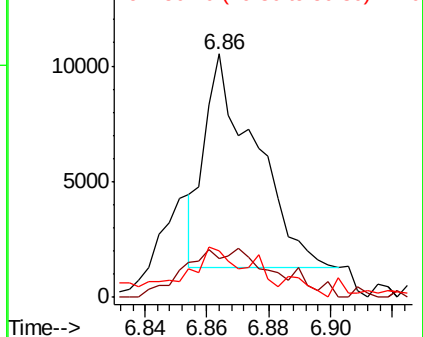
50 12.2 15.0 22.4#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.063 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

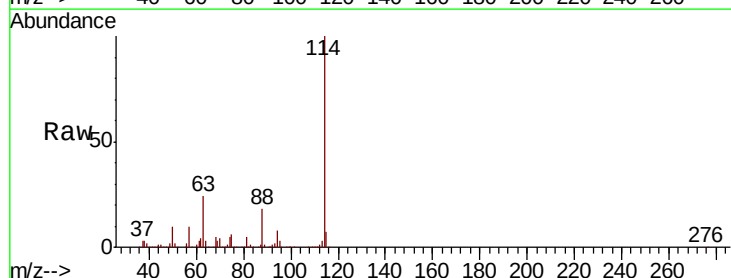
Tgt Ion: 63 Resp: 809695

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

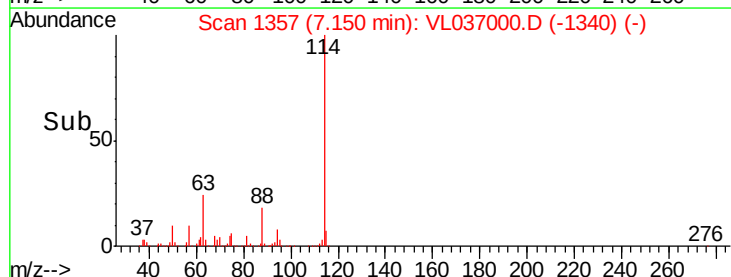
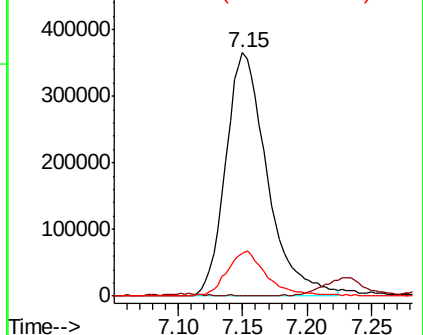
62 17.7 56.2 84.4#

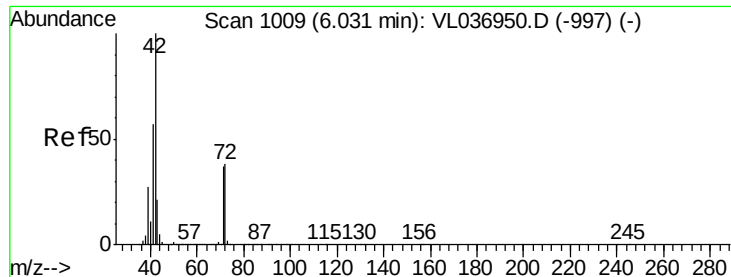


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.033 ppbv

RT: 6.29 min Scan# 1091

Delta R.T. 0.26 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

KSV-03DL

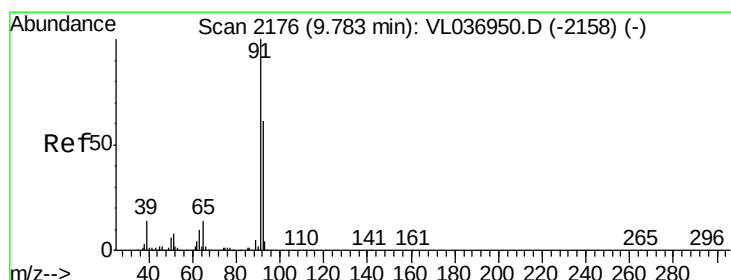
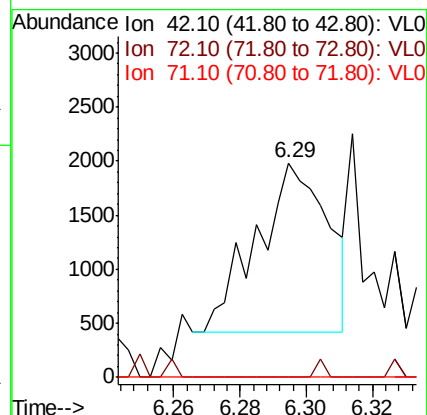
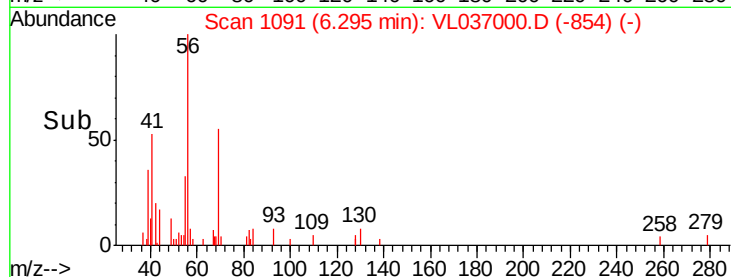
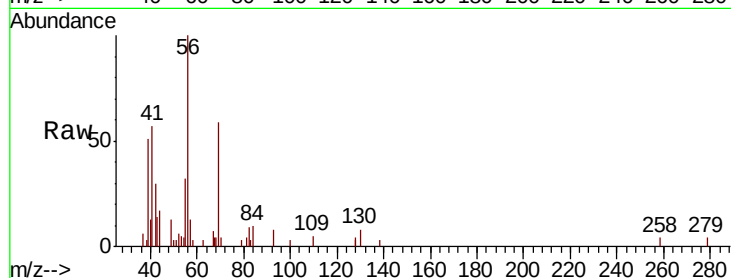
Tot Ion: 42 Resp: 2344

Ion Ratio Lower Upper

42 100

72 6.0 31.4 47.2#

71 0.0 30.4 45.6#



#53

Toluene

Concen: 0.233 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL037000.D

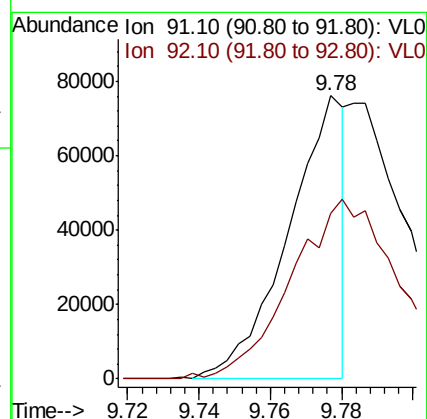
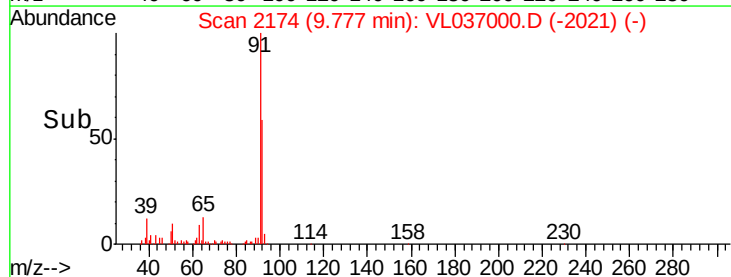
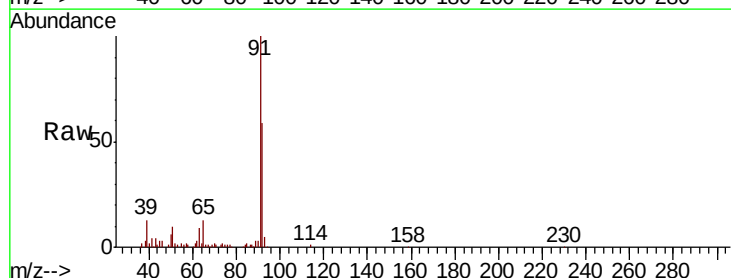
Acq: 19 May 2021 20:25

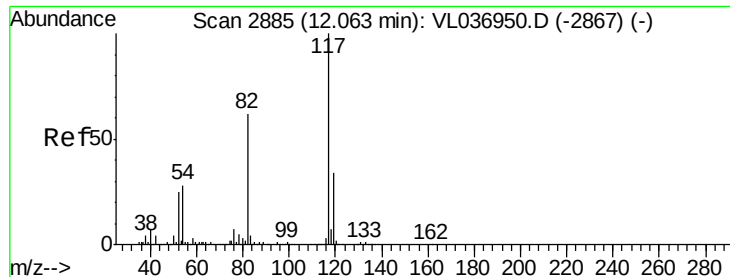
Tgt Ion: 91 Resp: 82486

Ion Ratio Lower Upper

91 100

92 129.8 49.5 74.3#

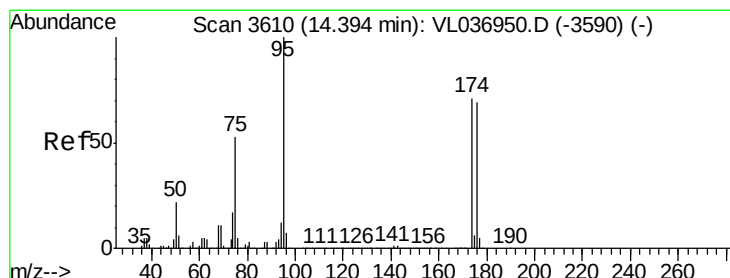
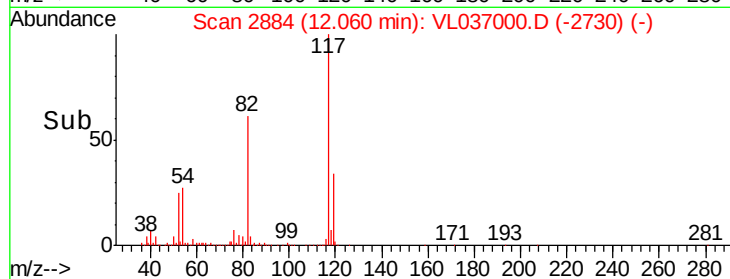
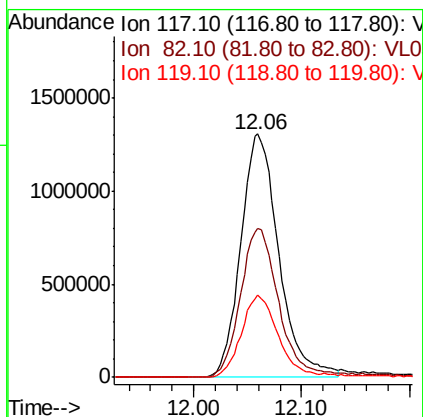
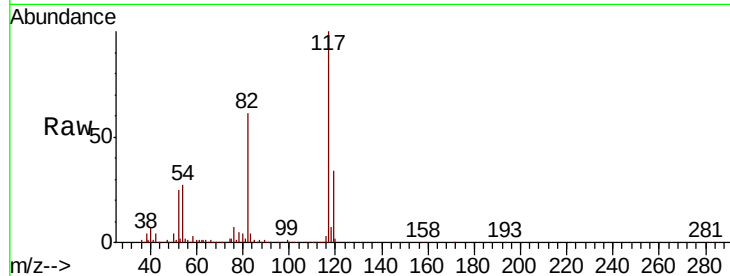




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.00 min
Lab File: VL037000.D
Acq: 19 May 2021 20:25

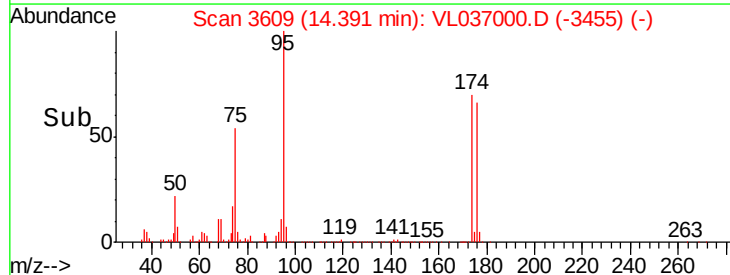
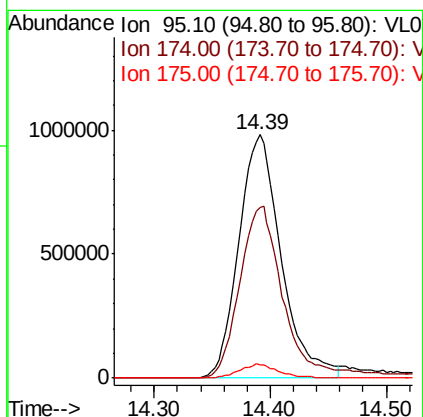
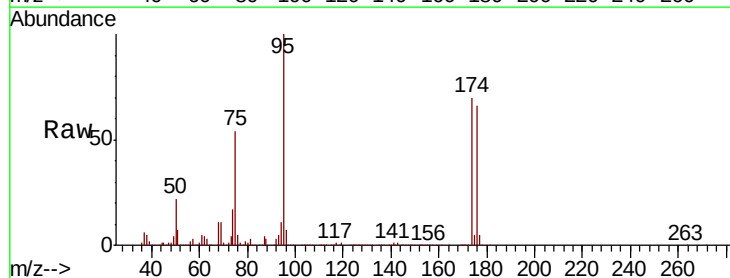
Instrument :
MSVOA_L
ClientSampleId :
KSV-03DL

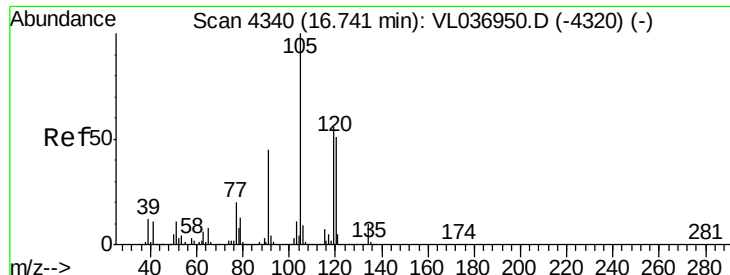
Tot Ion:117 Resp: 3209919
Ion Ratio Lower Upper
117 100
82 64.2 52.6 79.0
119 34.3 46.6 70.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.345 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.00 min
Lab File: VL037000.D
Acq: 19 May 2021 20:25

Tgt Ion: 95 Resp: 2494454
Ion Ratio Lower Upper
95 100
174 76.2 58.4 87.6
175 5.4 4.4 6.6





#74

1,2,4-Trimethylbenzene

Concen: 0.039 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.00 min

Lab File: VL037000.D

Acq: 19 May 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

KSV-03DL

Tot Ion:105 Resp: 16115

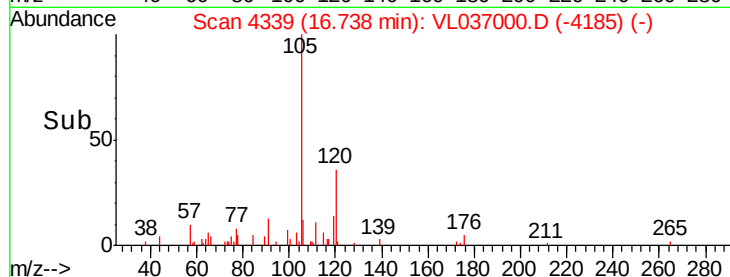
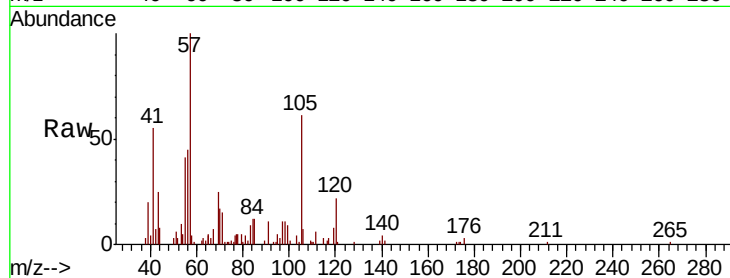
Ion Ratio Lower Upper

105 100

120 27.4 40.6 61.0#

91 10.6 37.4 56.0#

77 11.7 16.2 24.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

