

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037005.D
 Acq On : 19 May 2021 23:48
 Operator : SY/AP
 Sample : M2424-07DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-06DL

Quant Time: May 20 06:33:54 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue 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	1130969	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3264200	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	2995748	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2363500	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

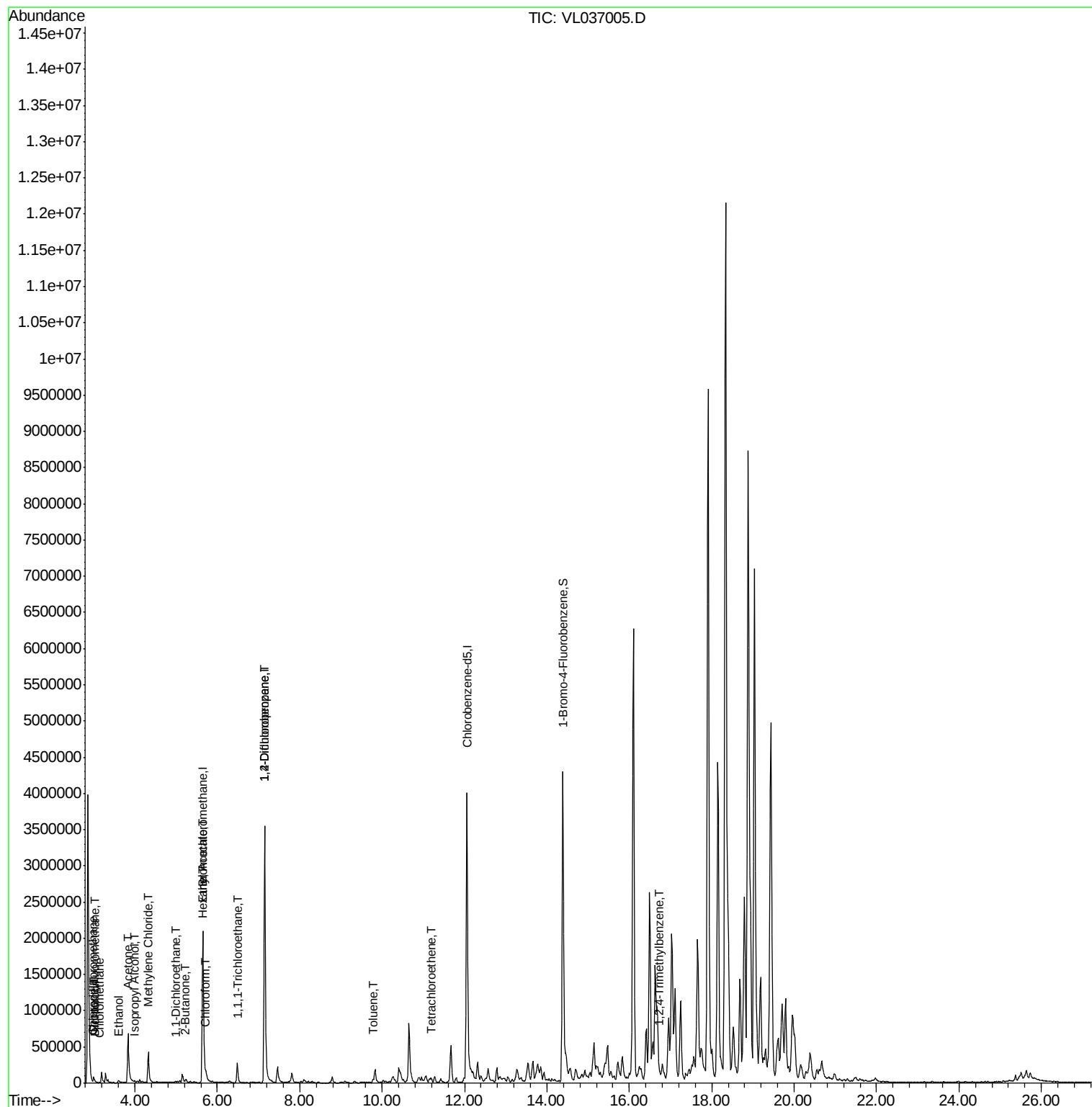
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	6736	0.035	ppbv	100
3) Chlorodifluoromethane	2.97	51	6691	0.032	ppbv #	91
4) Chloromethane	3.12	50	3439	0.049	ppbv #	75
9) Propene	2.99	41	30022	0.405	ppbv	91
13) Ethanol	3.60	45	41263	4.168	ppbv	91
15) Acetone	3.83	43	952547	8.223	ppbv	98
19) Isopropyl Alcohol	3.98	45	5252	0.084	ppbv #	30
20) Methylene Chloride	4.33	84	191174	3.079	ppbv #	85
24) 1,1-Dichloroethane	4.99	63	5259	0.040	ppbv #	88
25) Ethyl Acetate	5.66	43	131493	0.472	ppbv #	81
26) Hexane	5.66	57	170811	1.201	ppbv #	44
29) Chloroform	5.73	83	26480	0.132	ppbv	94
32) 1,1,1-Trichloroethane	6.48	97	184219	0.854	ppbv	98
34) 2-Butanone	5.23	43	26262	0.221	ppbv #	52
39) 1,2-Dichloropropane	7.15	63	781969	7.220	ppbv #	26
52) Tetrachloroethene	11.19	164	3611	0.032	ppbv #	84
53) Toluene	9.77	91	34436	0.103	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	15099	0.039	ppbv #	74

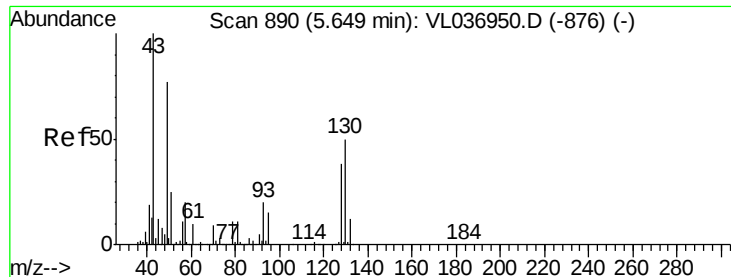
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 888

Delta R.T. -0.01 min

Lab File: VL037005.D

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Instrument :

MSVOA_L

ClientSampleId :

KSV-06DL

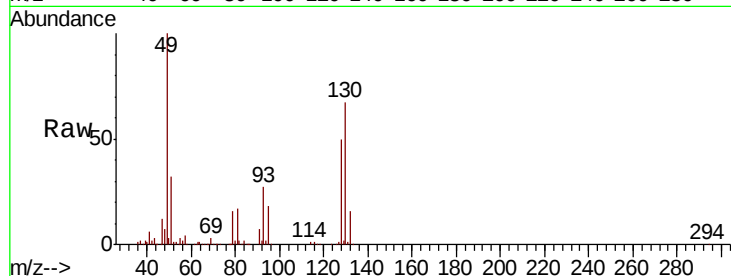
Tot Ion: 49 Resp: 1130969

Ion Ratio Lower Upper

49 100

128 52.7 26.9 80.7

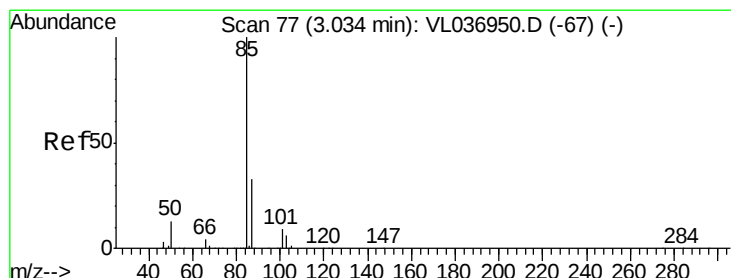
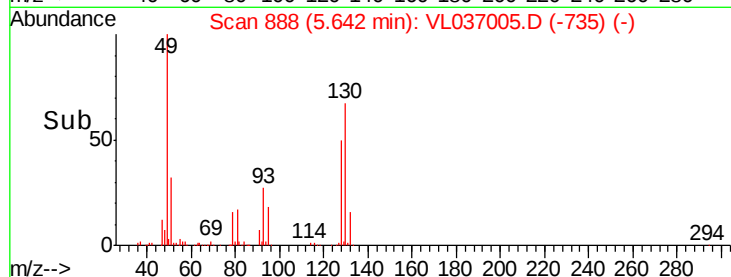
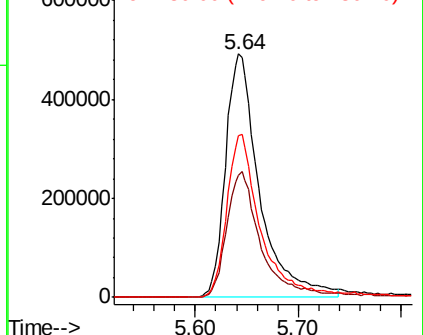
130 69.5 33.8 101.4



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: 0.035 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL037005.D

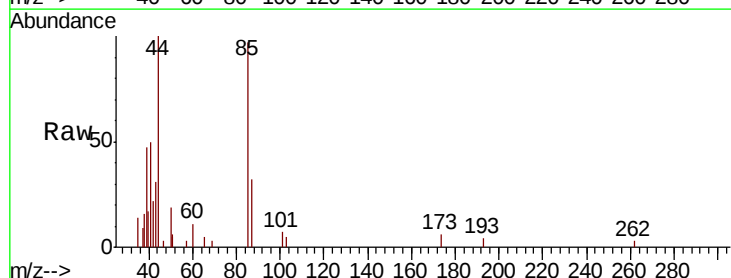
Acq: 19 May 2021 23:48

Tgt Ion: 85 Resp: 6736

Ion Ratio Lower Upper

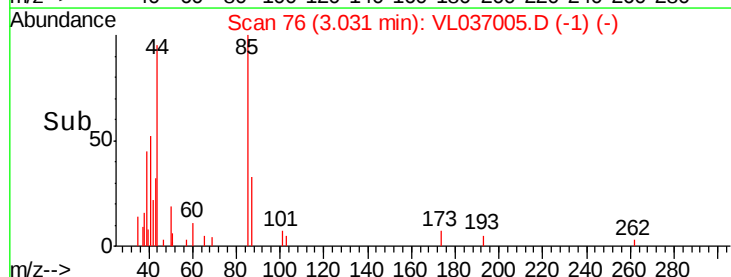
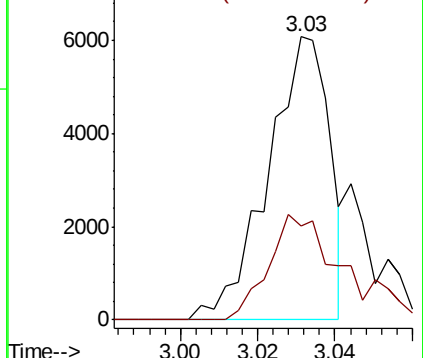
85 100

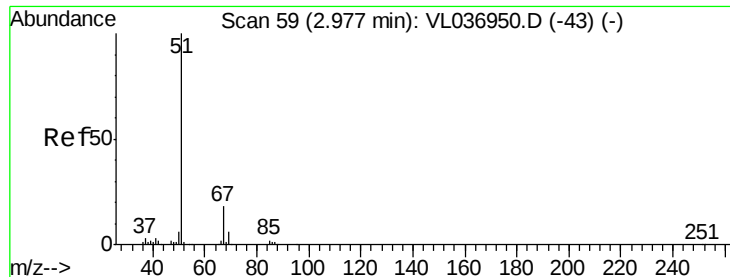
87 33.3 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

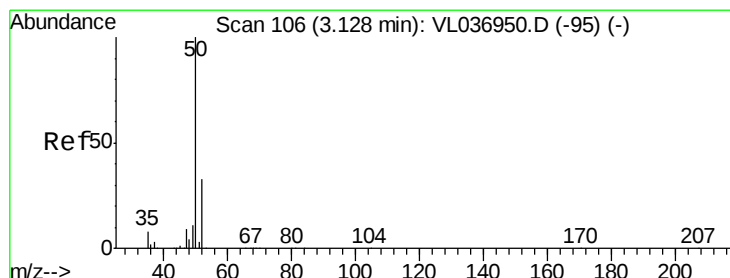
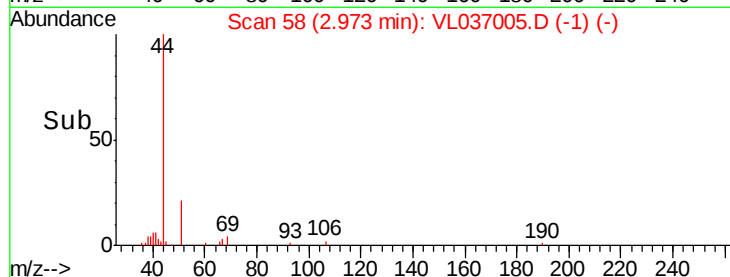
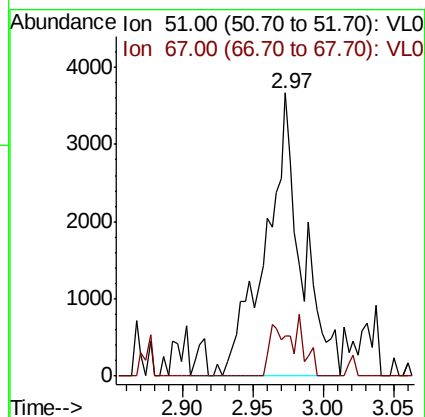
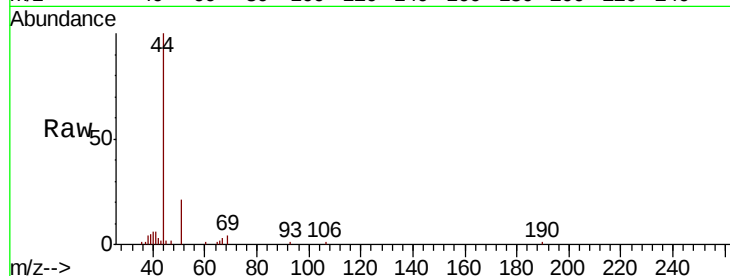
KSV-06DL

Tot Ion: 51 Resp: 6691

Ion Ratio Lower Upper

51 100

67 14.3 14.6 21.8#



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL037005.D

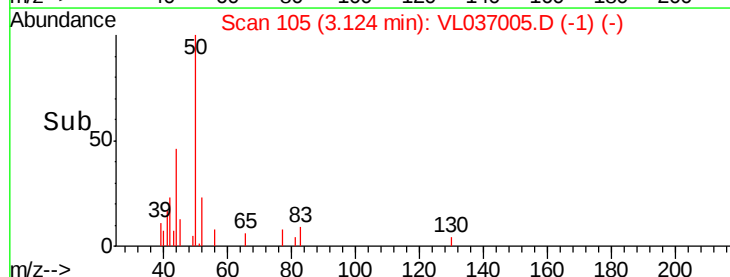
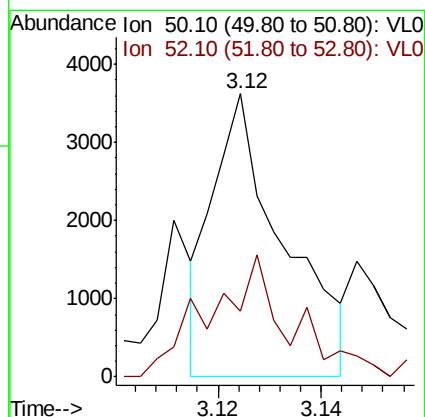
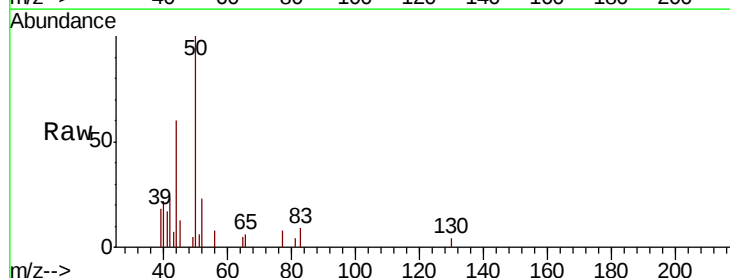
Acq: 19 May 2021 23:48

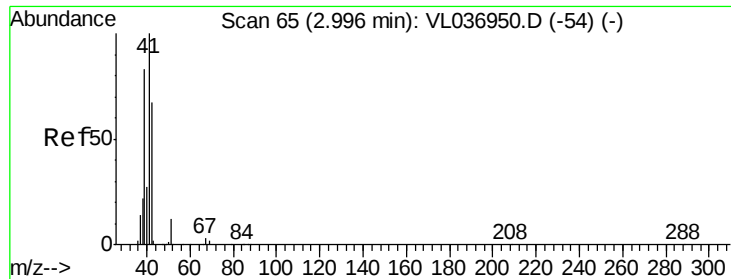
Tgt Ion: 50 Resp: 3439

Ion Ratio Lower Upper

50 100

52 18.5 26.1 39.1#





#9

Propene

Concen: 0.405 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

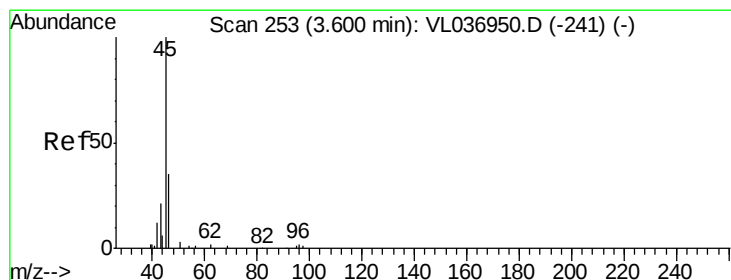
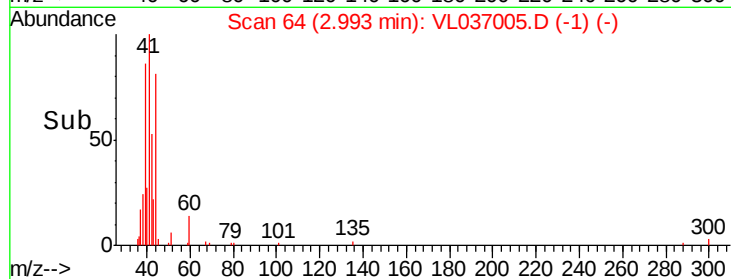
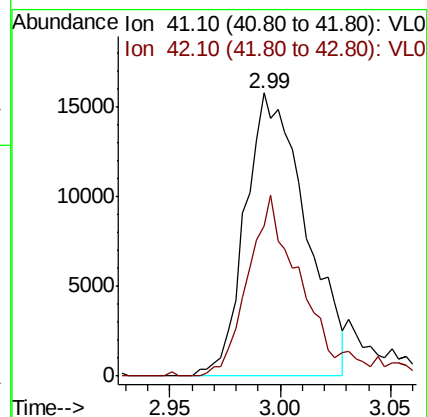
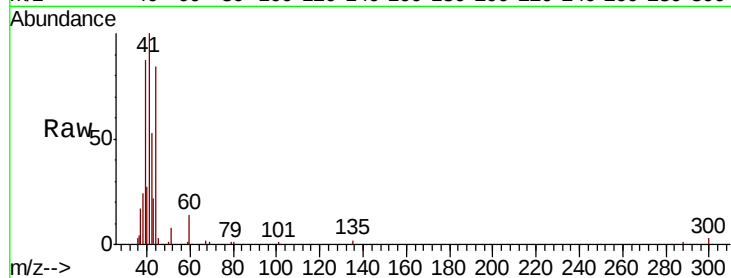
KSV-06DL

Tot Ion: 41 Resp: 30022

Ion Ratio Lower Upper

41 100

42 60.0 53.9 80.9



#13

Ethanol

Concen: 4.168 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL037005.D

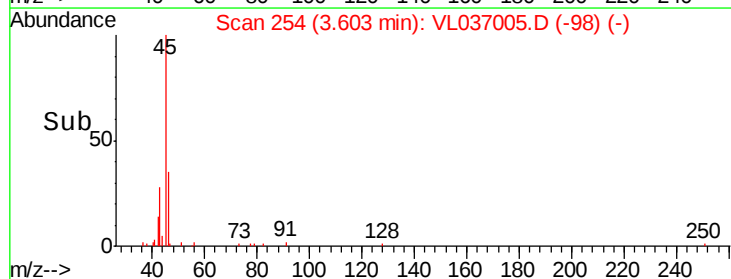
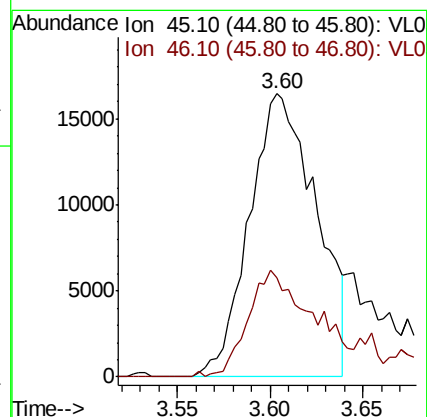
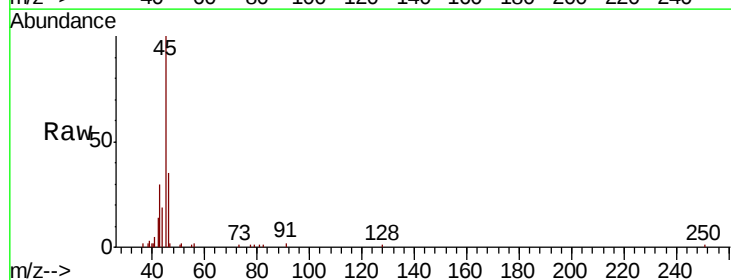
Acq: 19 May 2021 23:48

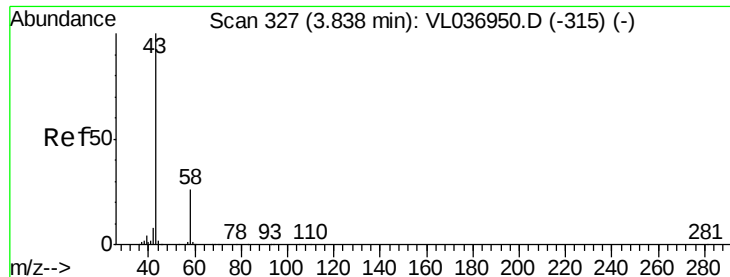
Tgt Ion: 45 Resp: 41263

Ion Ratio Lower Upper

45 100

46 46.3 16.3 65.3





#15

Acetone

Concen: 8.223 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

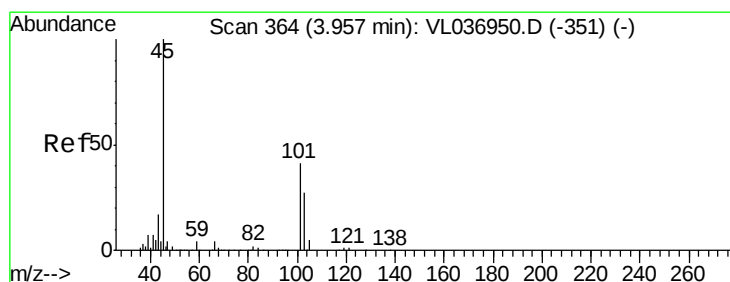
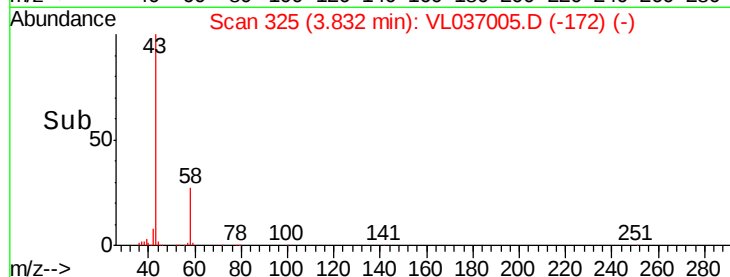
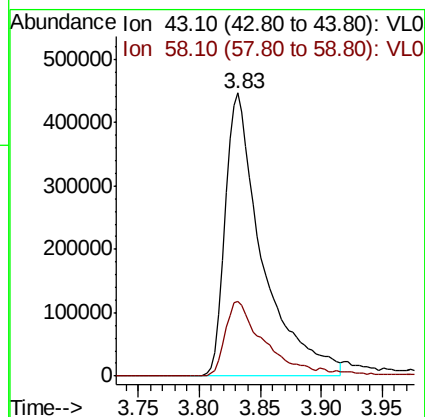
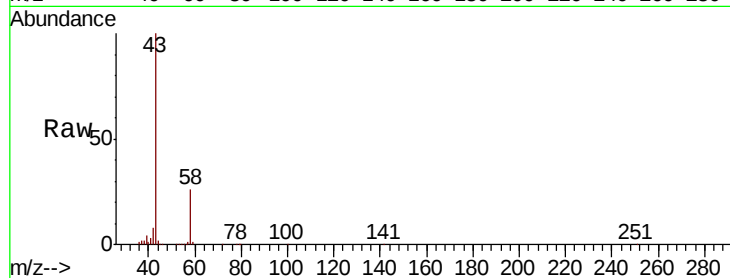
KSV-06DL

Tot Ion: 43 Resp: 952547

Ion Ratio Lower Upper

43 100

58 30.9 24.0 36.0



#19

Isopropyl Alcohol

Concen: 0.084 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL037005.D

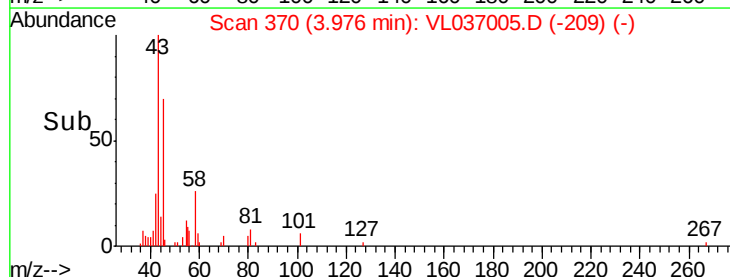
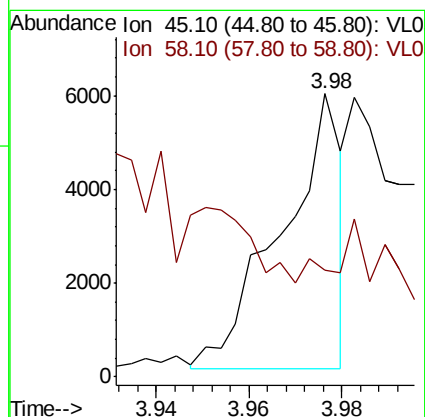
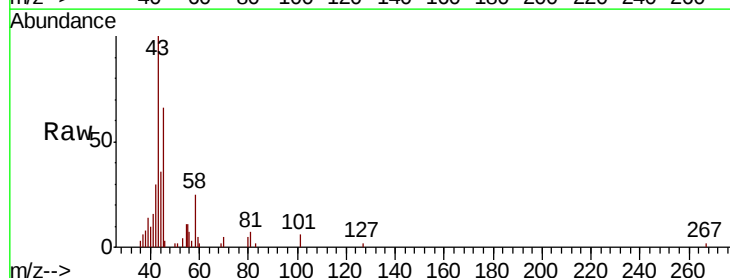
Acq: 19 May 2021 23:48

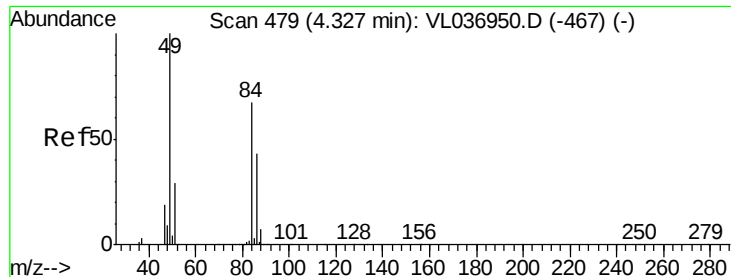
Tgt Ion: 45 Resp: 5252

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#





#20

Methylene Chloride

Concen: 3.079 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-06DL

Tot Ion: 84 Resp: 191174

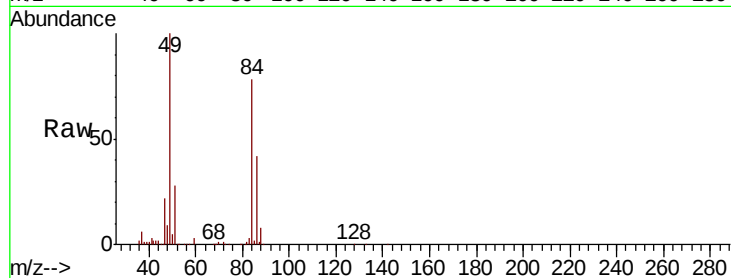
Ion Ratio Lower Upper

84 100

49 127.9 119.8 179.6

51 35.0 35.1 52.7#

86 54.2 50.9 76.3

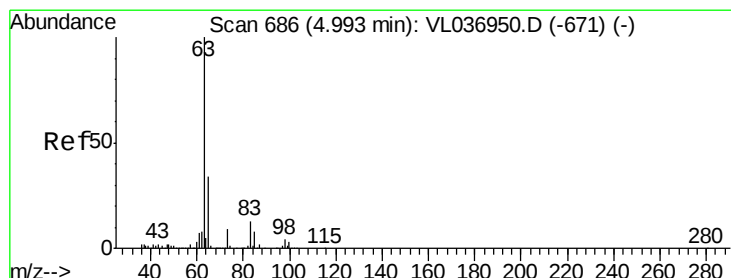
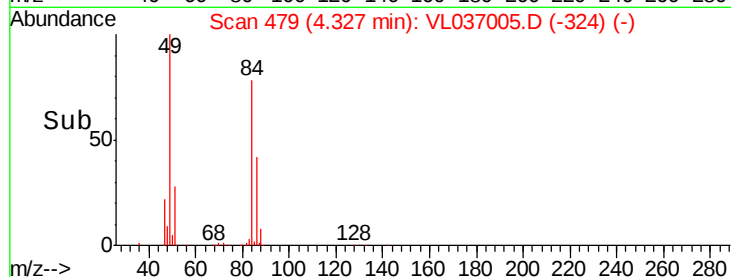
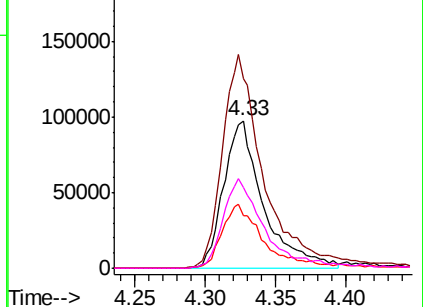


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#24

1,1-Dichloroethane

Concen: 0.040 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

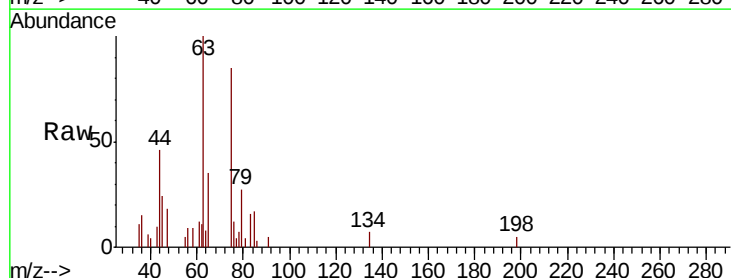
Tgt Ion: 63 Resp: 5259

Ion Ratio Lower Upper

63 100

98 0.0 2.3 6.9#

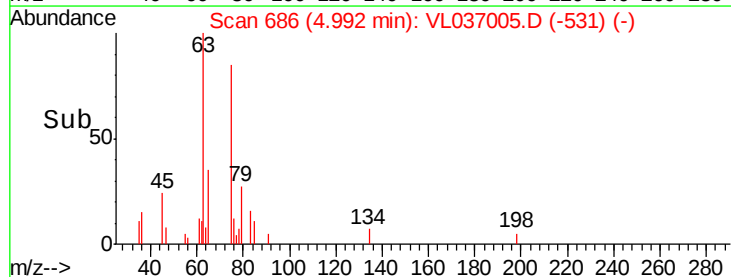
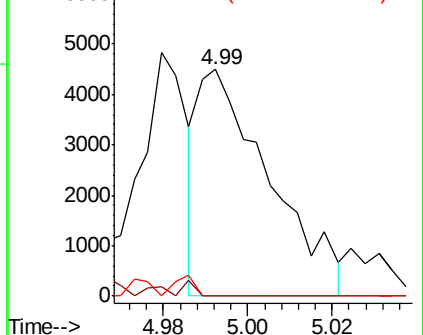
100 0.0 1.4 4.0#

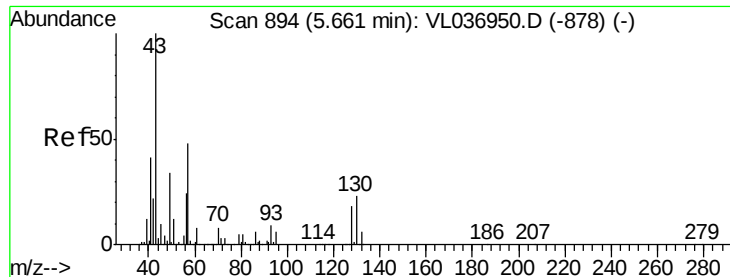


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

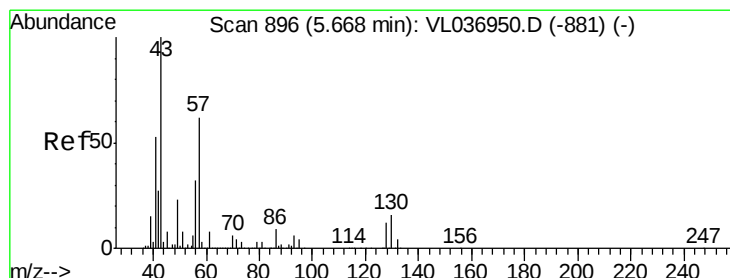
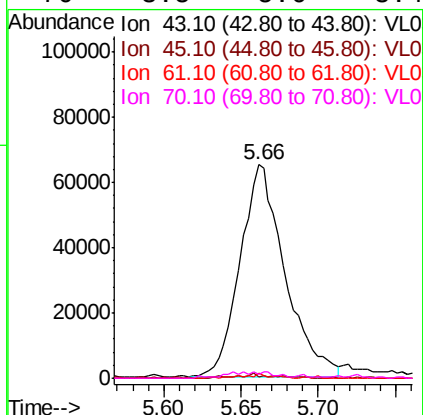
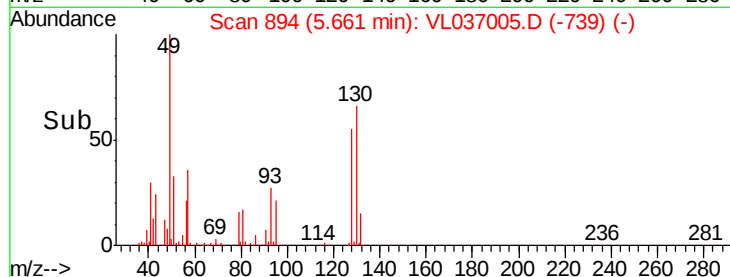
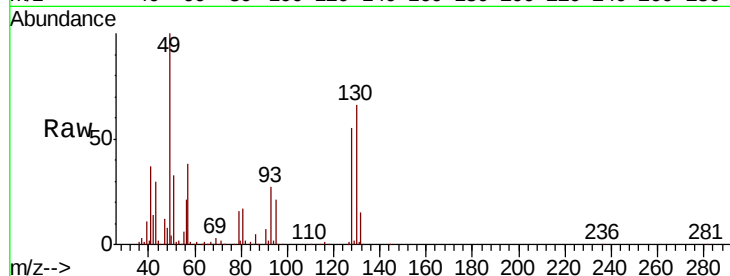




#25
Ethyl Acetate
Concen: 0.472 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL037005.D
Acq: 19 May 2021 23:48

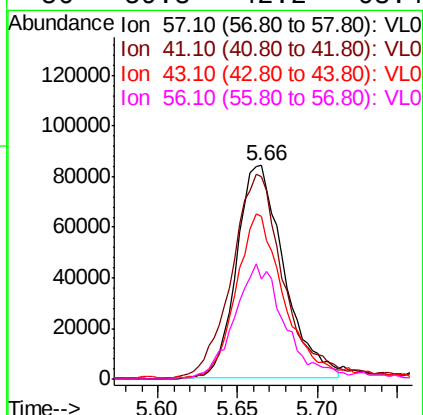
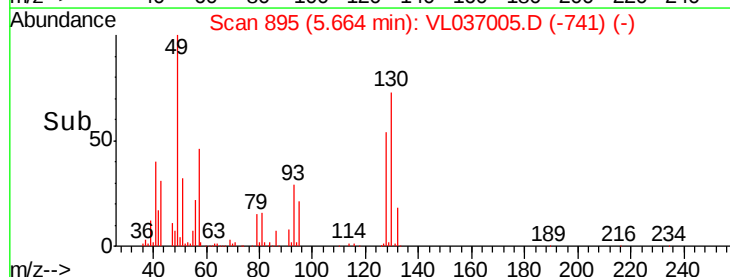
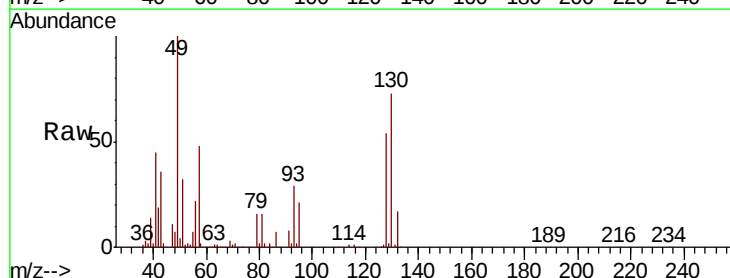
Instrument :
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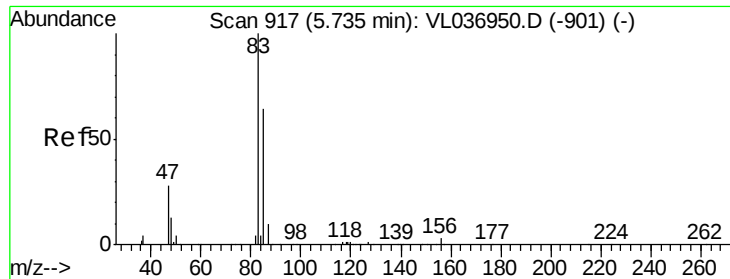
Tot Ion:	43	Resp:	131493
Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.8	11.8#
61	1.4	7.8	11.8#
70	3.5	5.6	8.4#



#26
Hexane
Concen: 1.201 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL037005.D
Acq: 19 May 2021 23:48

Tgt Ion:	57	Resp:	170811
Ion	Ratio	Lower	Upper
57	100		
41	110.0	70.5	105.7#
43	80.0	165.8	248.8#
56	59.8	42.2	63.4





#29

Chloroform

Concen: 0.132 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.01 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

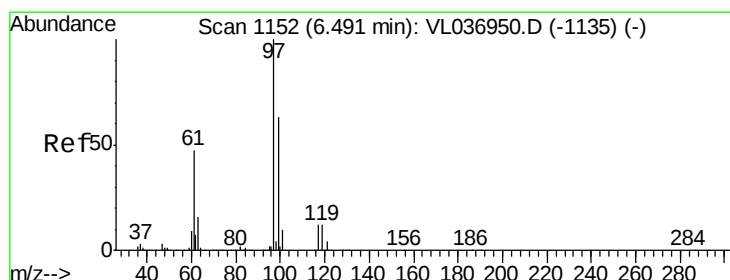
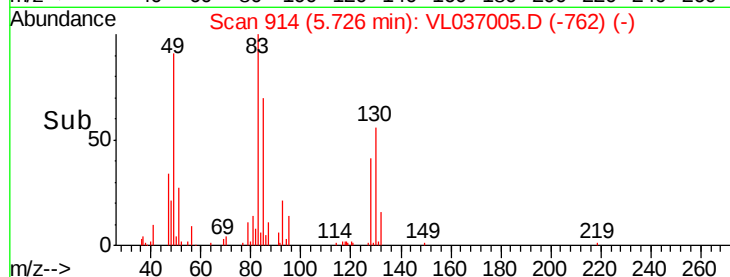
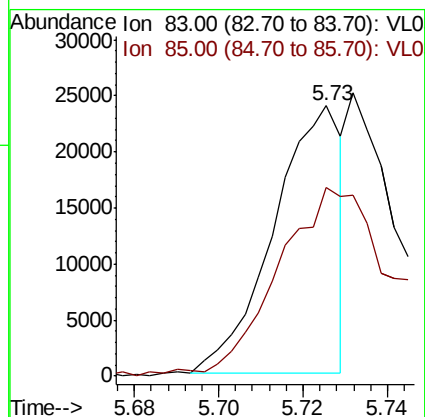
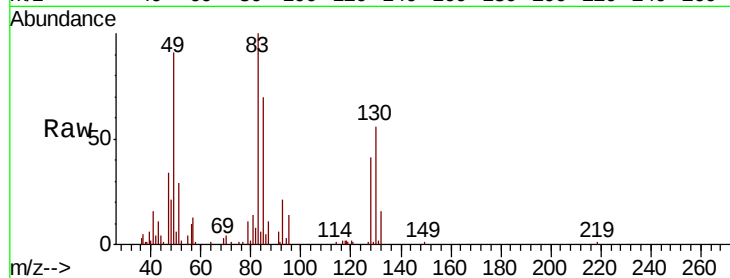
KSV-06DL

Tot Ion: 83 Resp: 26480

Ion Ratio Lower Upper

83 100

85 68.9 51.1 76.7



#32

1,1,1-Trichloroethane

Concen: 0.854 ppbv

RT: 6.48 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

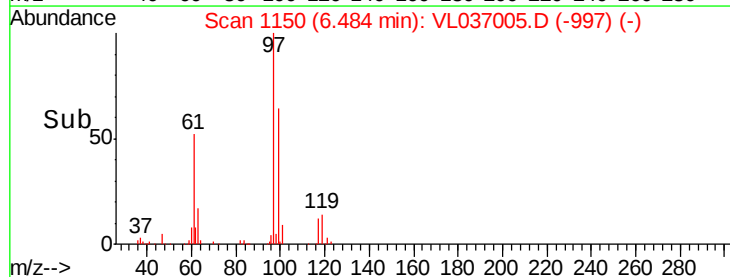
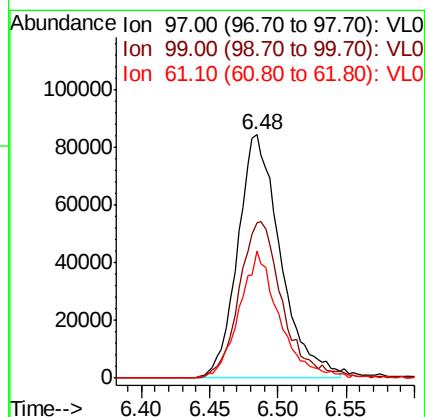
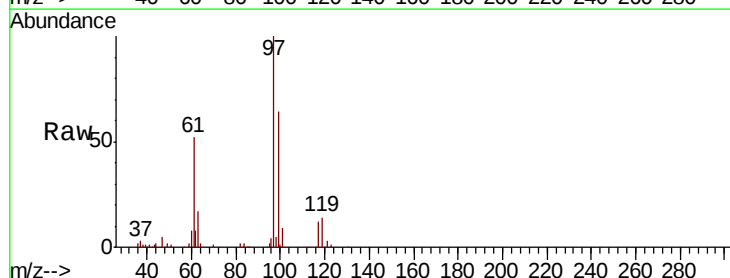
Tgt Ion: 97 Resp: 184219

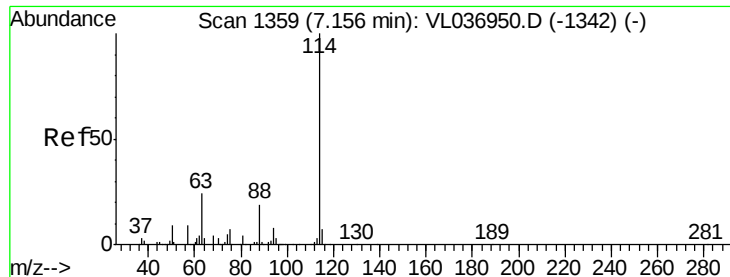
Ion Ratio Lower Upper

97 100

99 65.7 51.9 77.9

61 48.8 37.6 56.4

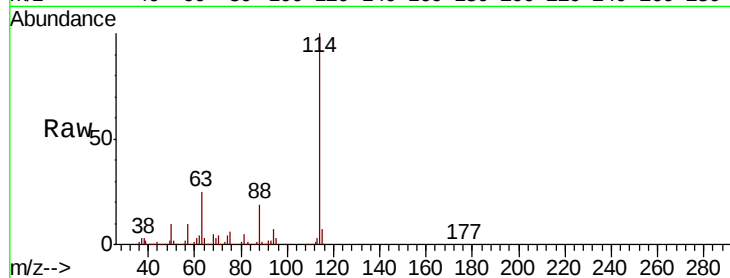




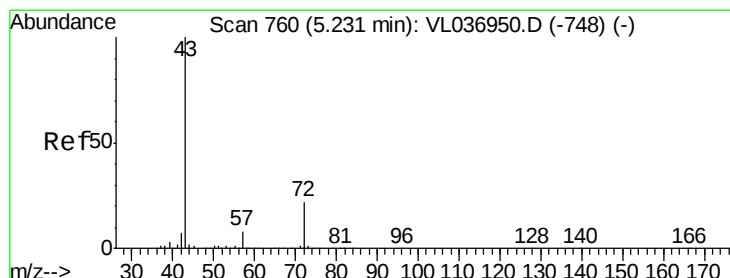
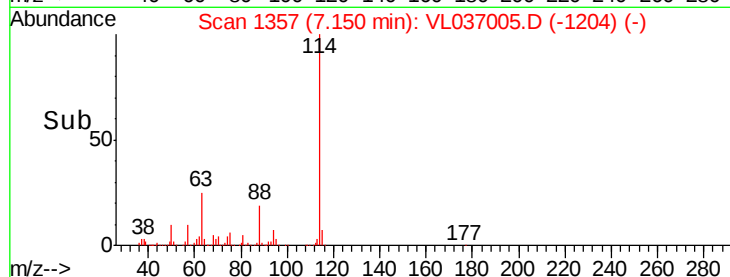
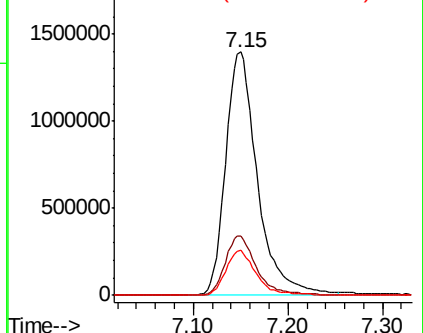
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL037005.D
 Acq: 19 May 2021 23:48

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-06DL

Tot Ion:114 Resp: 3264200
 Ion Ratio Lower Upper
 114 100
 63 24.5 19.6 29.4
 88 18.2 14.6 21.8

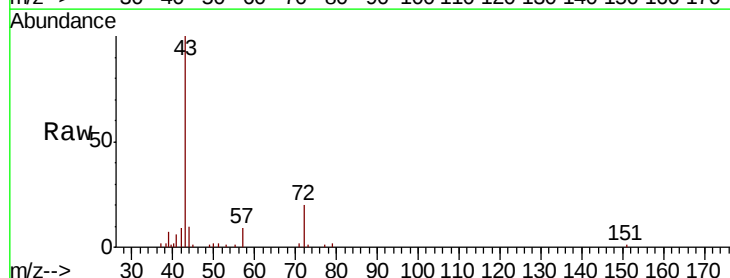


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

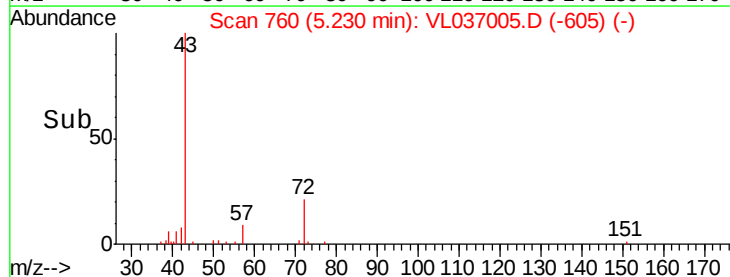
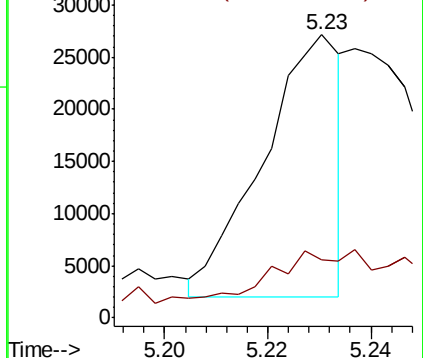


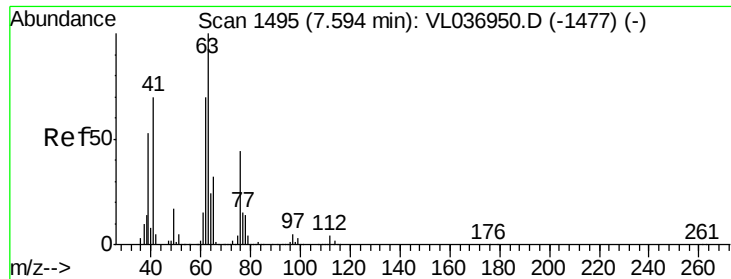
#34
 2-Butanone
 Concen: 0.221 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.00 min
 Lab File: VL037005.D
 Acq: 19 May 2021 23:48

Tgt Ion: 43 Resp: 26262
 Ion Ratio Lower Upper
 43 100
 72 0.0 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

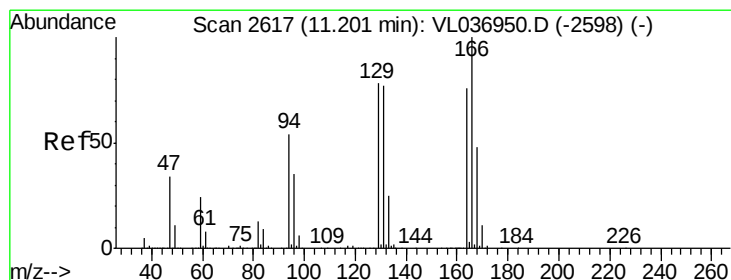
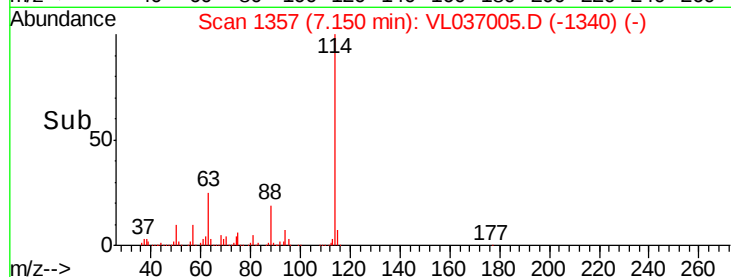
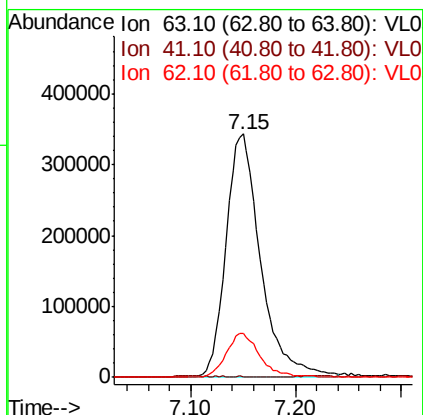
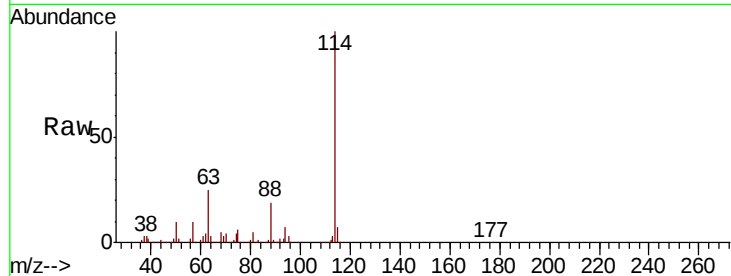




#39
 1,2-Dichloropropane
 Concen: 7.220 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.44 min
 Lab File: VL037005.D
 Acq: 19 May 2021 23:48

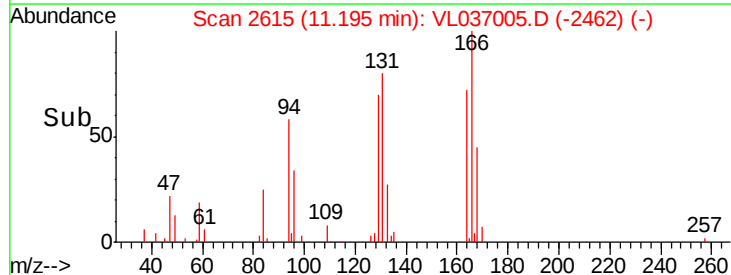
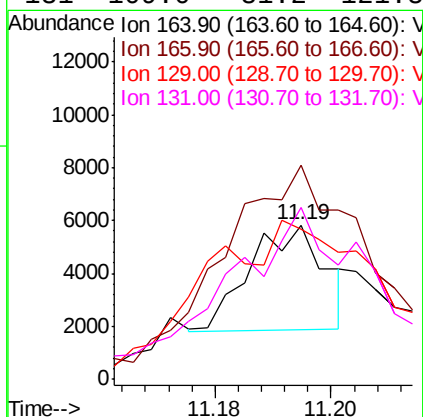
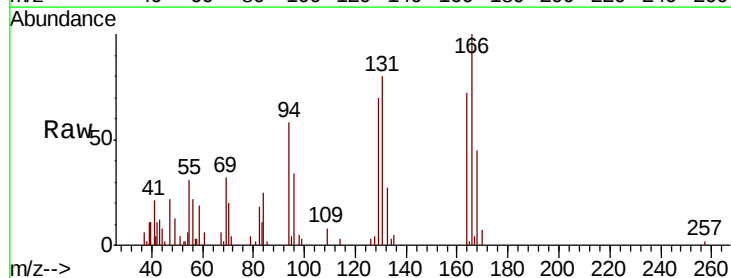
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-06DL

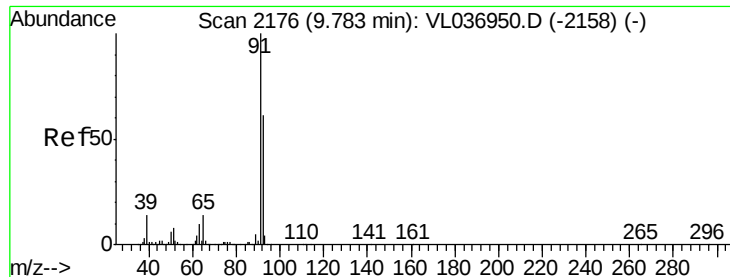
Tot Ion	63	Resp	781969
Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	18.2	56.2	84.4#



#52
 Tetrachloroethene
 Concen: 0.032 ppbv
 RT: 11.19 min Scan# 2615
 Delta R.T. -0.01 min
 Lab File: VL037005.D
 Acq: 19 May 2021 23:48

Tgt Ion	164	Resp	3611
Ion	Ratio	Lower	Upper
164	100		
166	140.0	105.5	158.3
129	64.9	81.8	122.8#
131	109.0	81.2	121.8





#53

Toluene

Concen: 0.103 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

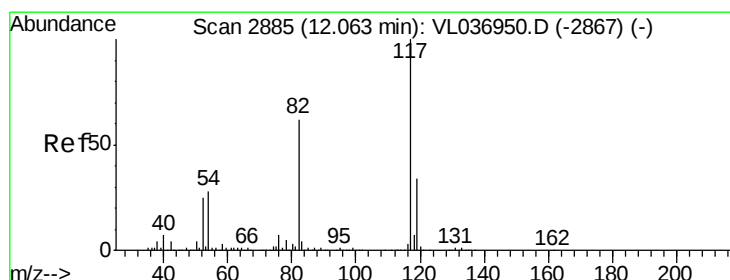
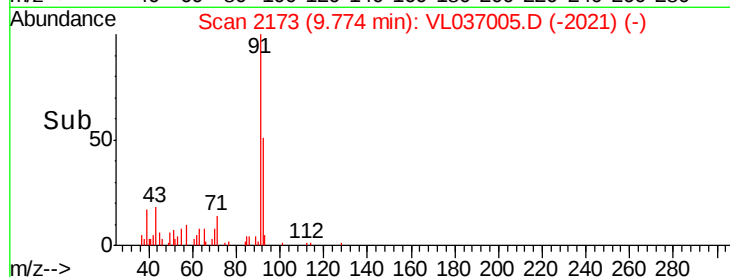
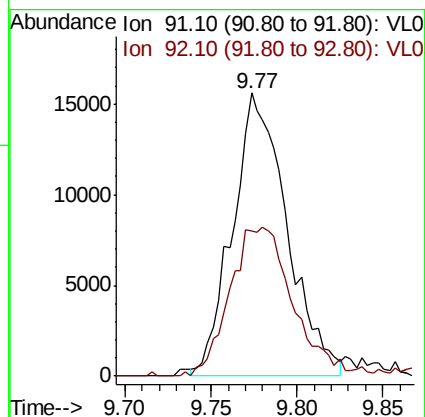
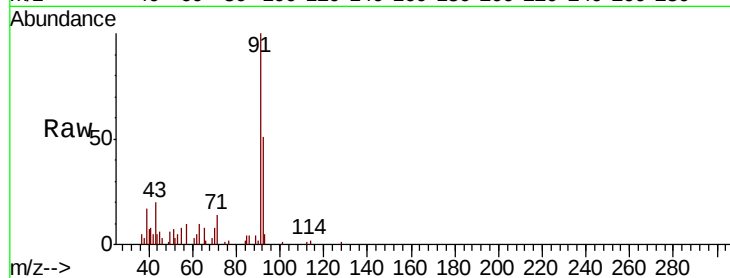
KSV-06DL

Tot Ion: 91 Resp: 34436

Ion Ratio Lower Upper

91 100

92 62.9 49.5 74.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.01 min

Lab File: VL037005.D

Acq: 19 May 2021 23:48

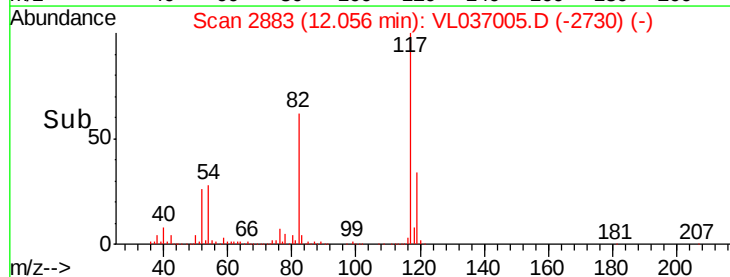
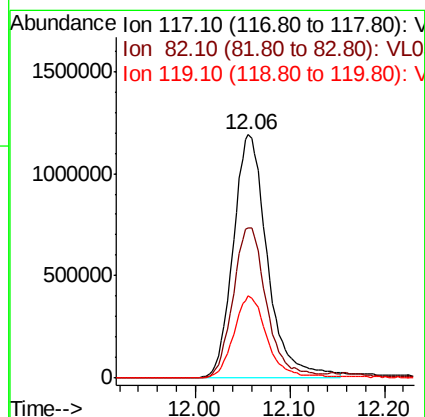
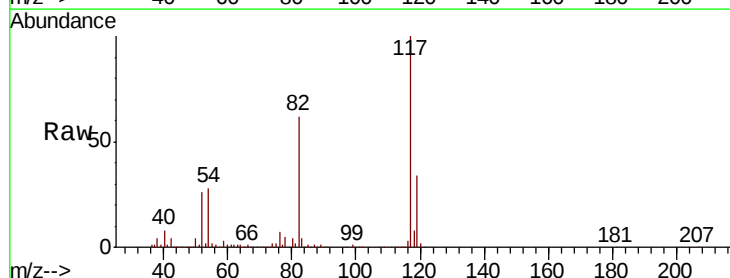
Tgt Ion: 117 Resp: 2995748

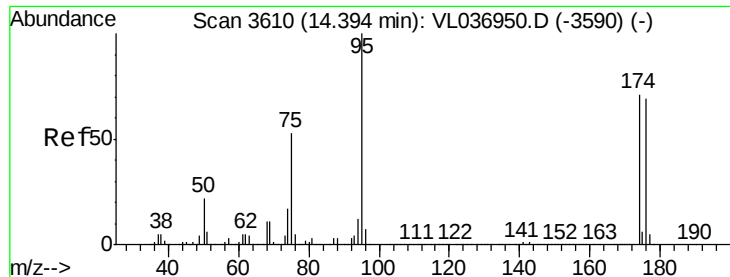
Ion Ratio Lower Upper

117 100

82 61.8 52.6 79.0

119 33.8 46.6 70.0#

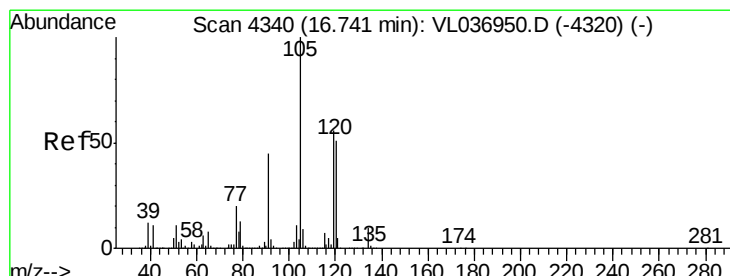
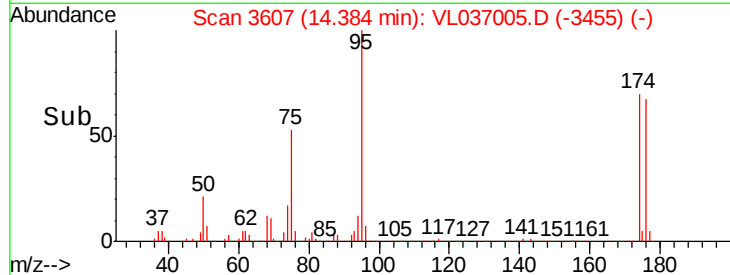
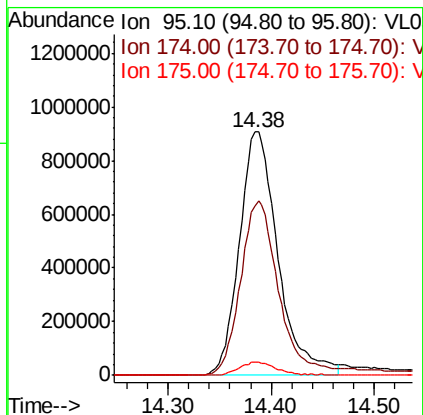
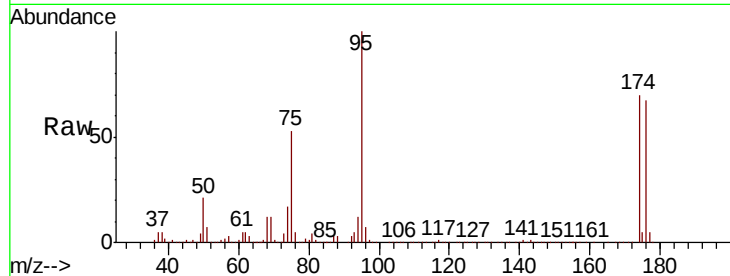




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.502 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.01 min
 Lab File: VL037005.D
 Acq: 19 May 2021 23:48

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-06DL

Tot Ion: 95 Resp: 2363500
 Ion Ratio Lower Upper
 95 100
 174 75.7 58.4 87.6
 175 5.6 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: VL037005.D
 Acq: 19 May 2021 23:48

Tgt Ion:105 Resp: 15099
 Ion Ratio Lower Upper
 105 100
 120 38.1 40.6 61.0#
 91 21.1 37.4 56.0#
 77 13.3 16.2 24.4#

