

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039091.D
 Acq On : 23 May 2022 19:43
 Operator : SY/AP
 Sample : N2956-01DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1DL

Quant Time: May 24 06:00:19 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1084322	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2549952	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2173230	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1799582	10.46	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

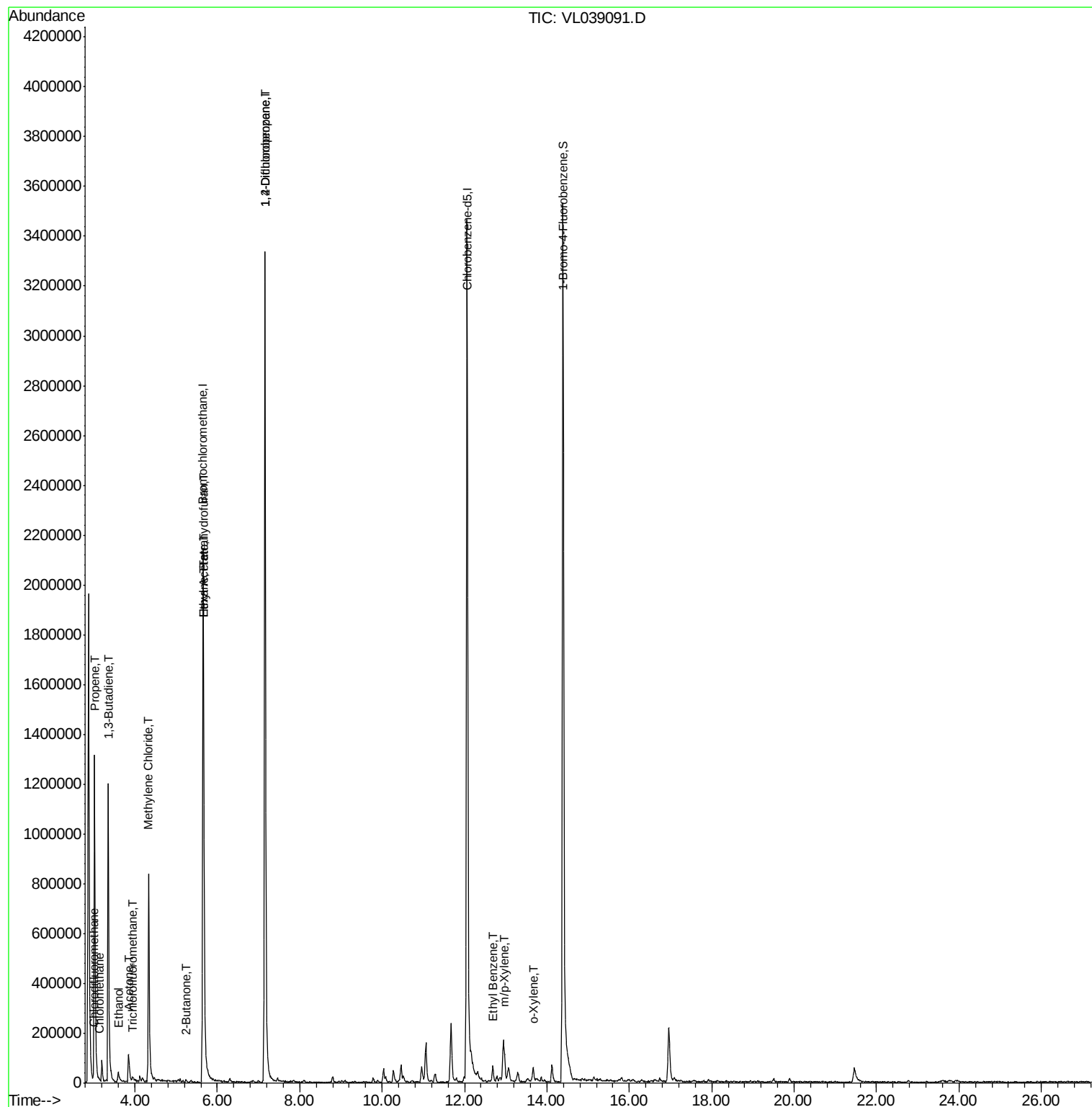
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	17163	0.128	ppbv #	85
4) Chloromethane	3.13	50	3825	0.057	ppbv	95
9) Propene	3.02	41	310994	5.293	ppbv #	56
11) Trichlorofluoromethane	3.93	101	5197	0.036	ppbv	87
13) Ethanol	3.60	45	16271	3.913	ppbv #	31
15) Acetone	3.84	43	139344	1.362	ppbv	97
16) 1,3-Butadiene	3.35	39	181716	3.092	ppbv #	11
20) Methylene Chloride	4.33	84	352232	9.137	ppbv	95
25) Ethyl Acetate	5.67	43	145628	0.595	ppbv #	78
26) Hexane	5.67	57	113225	1.041	ppbv #	30
34) 2-Butanone	5.24	43	12060	0.093	ppbv #	83
39) 1,2-Dichloropropane	7.16	63	739856	8.714	ppbv #	27
41) Tetrahydrofuran	5.67	42	79035	0.904	ppbv #	50
58) Ethyl Benzene	12.69	91	20900	0.067	ppbv	98
59) m/p-Xylene	12.98	91	37464	0.140	ppbv #	33
60) o-Xylene	13.66	91	26231	0.104	ppbv #	57

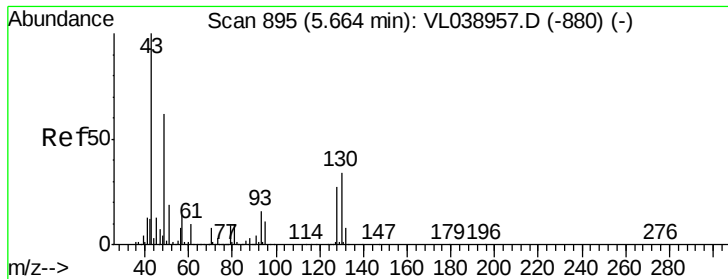
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AP-1DL

Acq: 23 May 2022 19:43

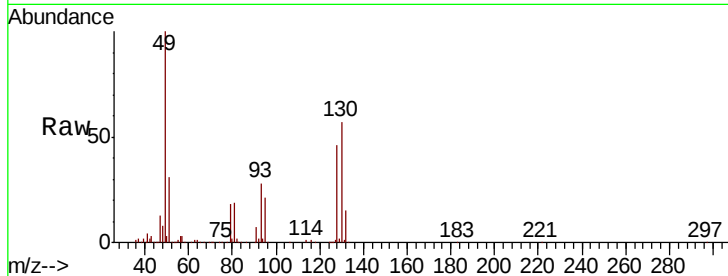
Tot Ion: 49 Resp: 1084322

Ion Ratio Lower Upper

49 100

128 48.2 23.3 69.8

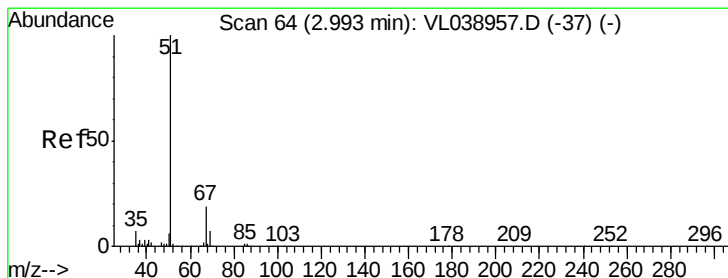
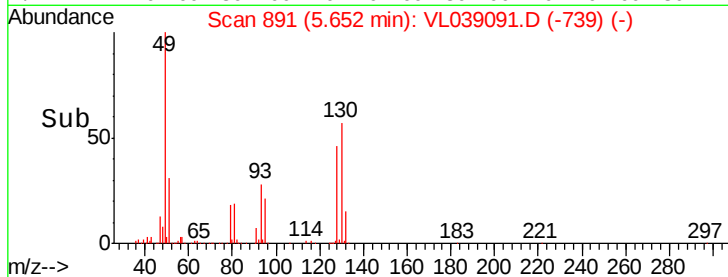
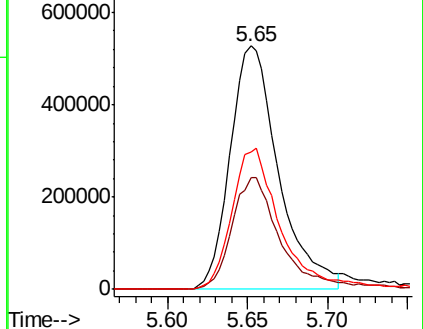
130 59.9 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.128 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL039091.D

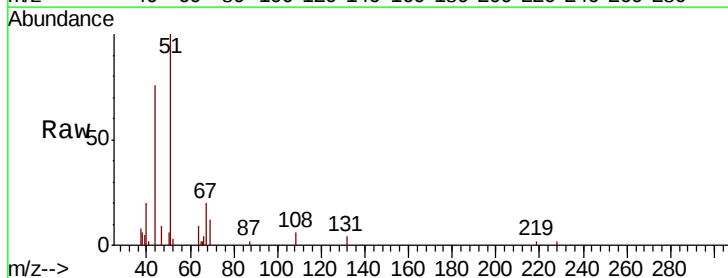
Acq: 23 May 2022 19:43

Tgt Ion: 51 Resp: 17163

Ion Ratio Lower Upper

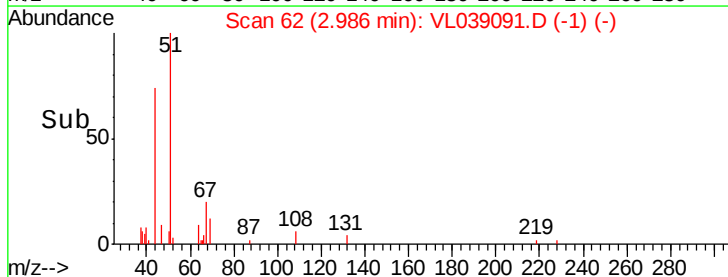
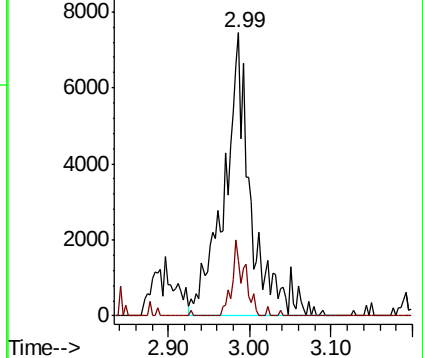
51 100

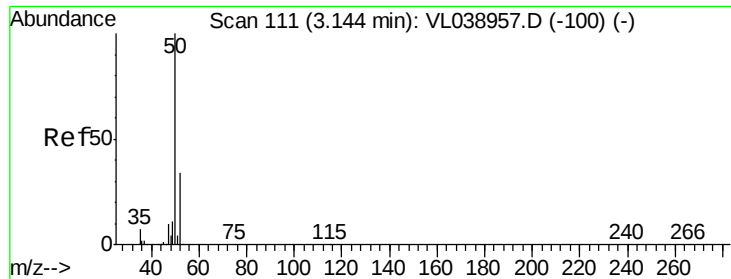
67 13.1 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

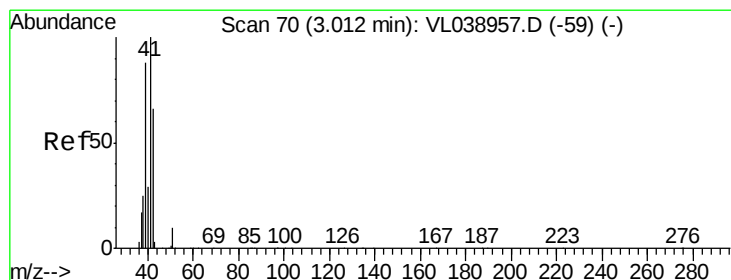
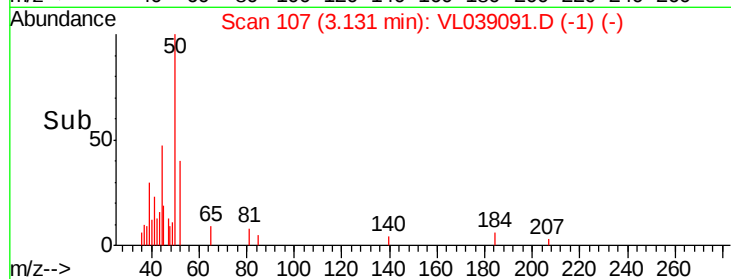
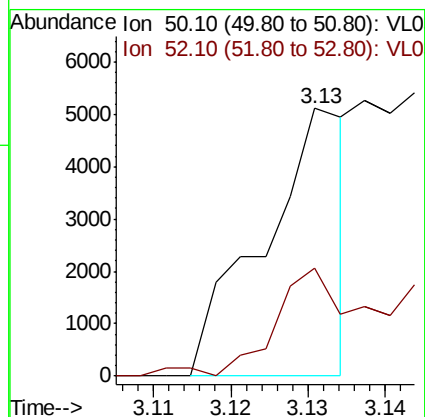
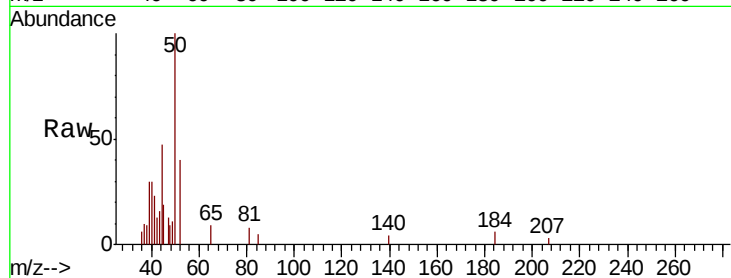
Acq: 23 May 2022 19:43

Tot Ion: 50 Resp: 3825

Ion Ratio Lower Upper

50 100

52 37.0 27.3 40.9



#9

Propene

Concen: 5.293 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL039091.D

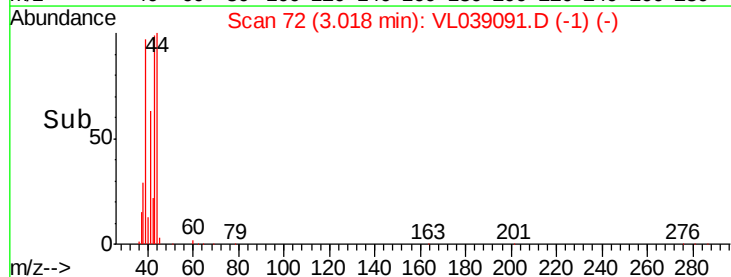
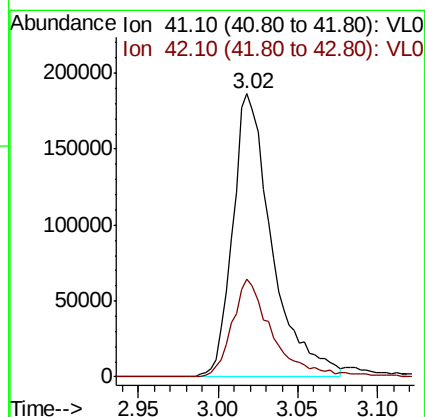
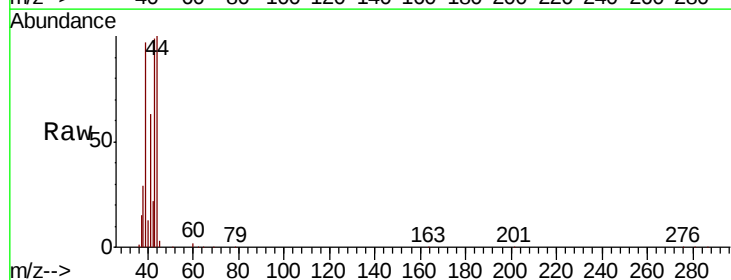
Acq: 23 May 2022 19:43

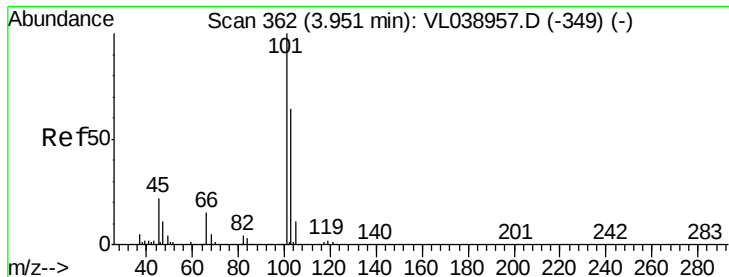
Tgt Ion: 41 Resp: 310994

Ion Ratio Lower Upper

41 100

42 36.3 58.3 87.5#





#11

Trichlorofluoromethane

Concen: 0.036 ppbv

RT: 3.93 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AP-1DL

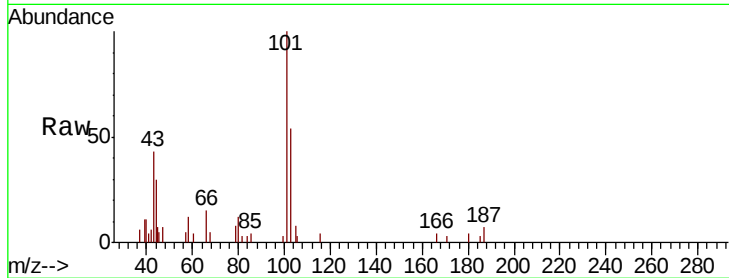
Acq: 23 May 2022 19:43

Tot Ion: 101 Resp: 5197

Ion Ratio Lower Upper

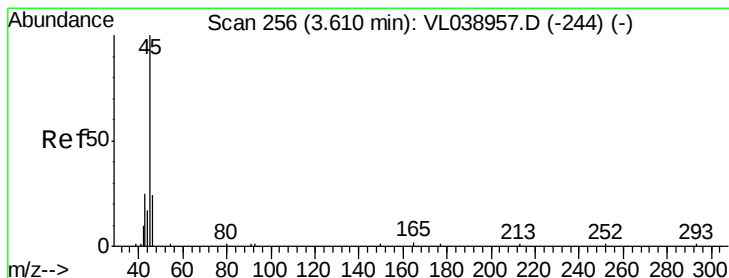
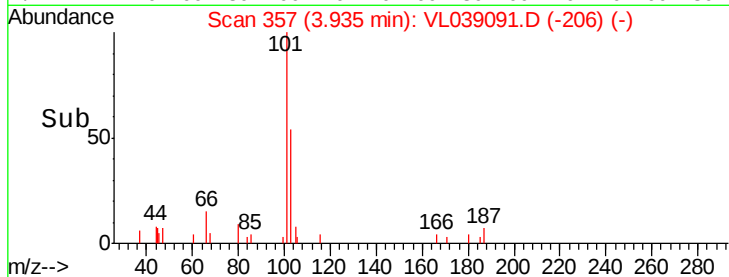
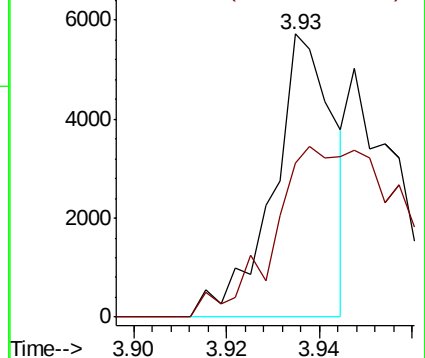
101 100

103 54.3 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 3.913 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL039091.D

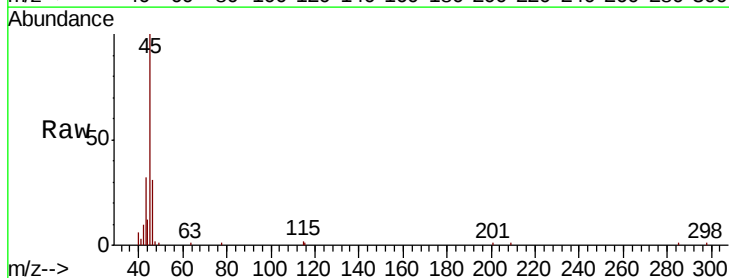
Acq: 23 May 2022 19:43

Tgt Ion: 45 Resp: 16271

Ion Ratio Lower Upper

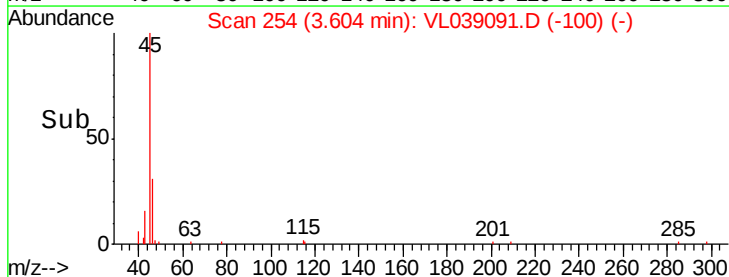
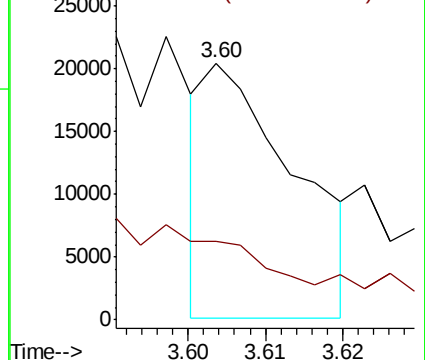
45 100

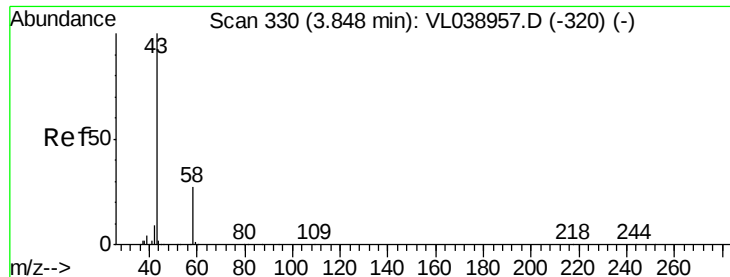
46 0.0 18.0 72.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.362 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

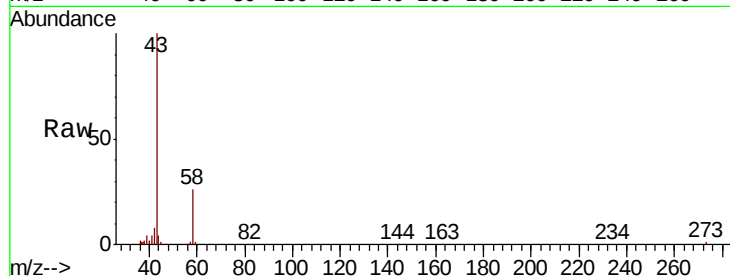
Acq: 23 May 2022 19:43

Tot Ion: 43 Resp: 139344

Ion Ratio Lower Upper

43 100

58 28.1 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

80000

60000

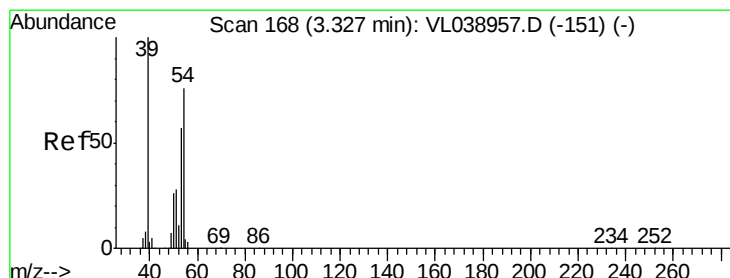
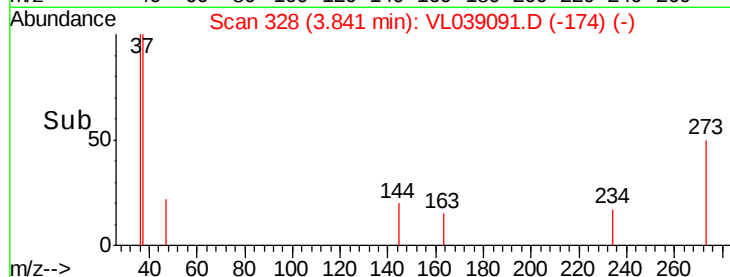
40000

20000

0

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 3.092 ppbv

RT: 3.35 min Scan# 174

Delta R.T. 0.02 min

Lab File: VL039091.D

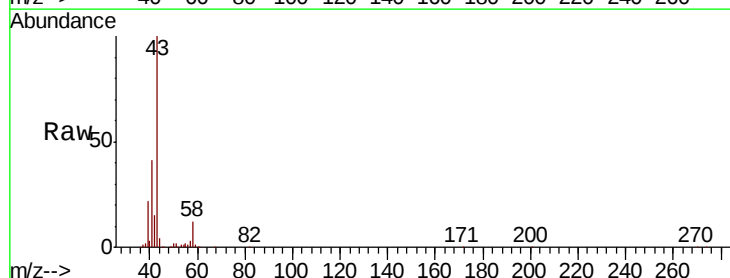
Acq: 23 May 2022 19:43

Tgt Ion: 39 Resp: 181716

Ion Ratio Lower Upper

39 100

54 2.1 65.2 97.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

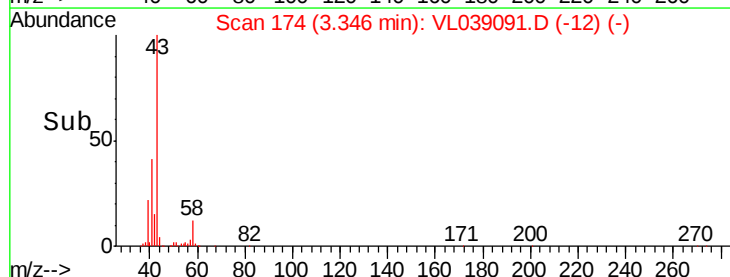
100000

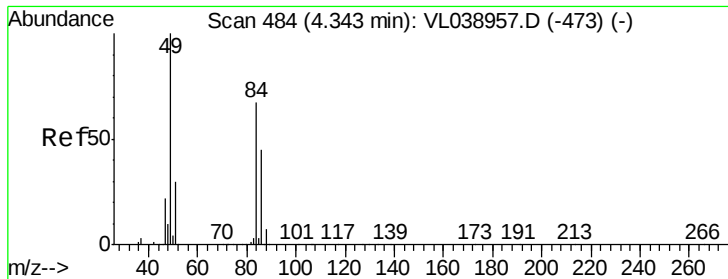
50000

0

3.30 3.35 3.40

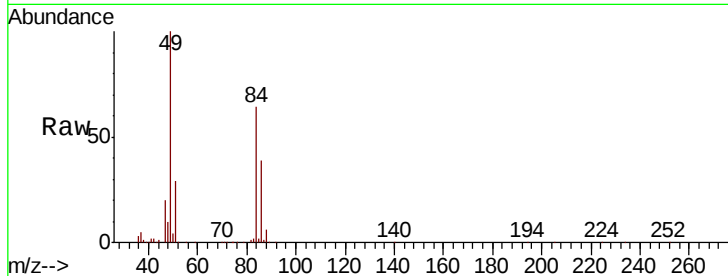
Time-->



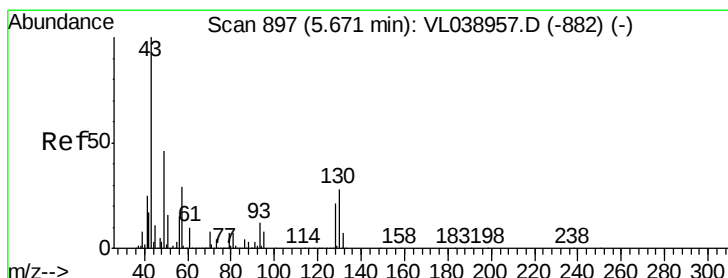
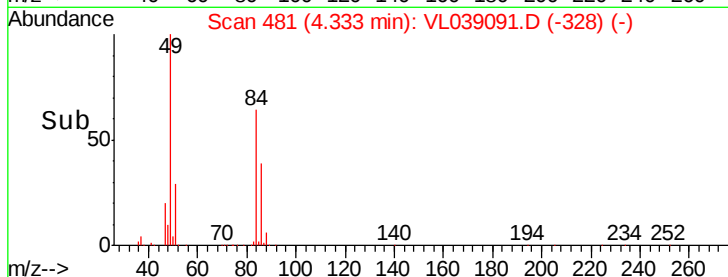
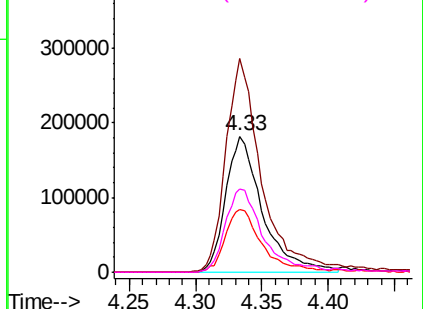


#20
Methvlene Chloride
Concen: 9.137 ppbv
RT: 4.33
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 May 2022 19:43

Tot Ion:	84	Resp:	352232
Ion	Ratio	Lower	Upper
84	100		
49	157.1	119.9	179.9
51	46.0	35.7	53.5
86	61.3	53.8	80.6

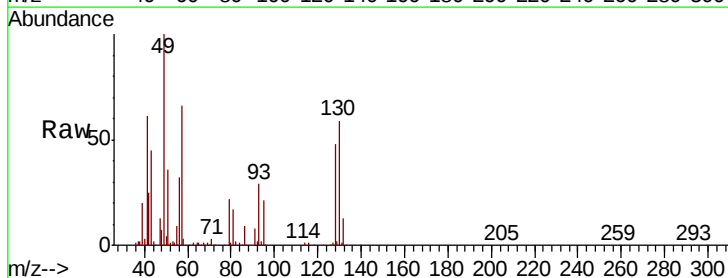


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

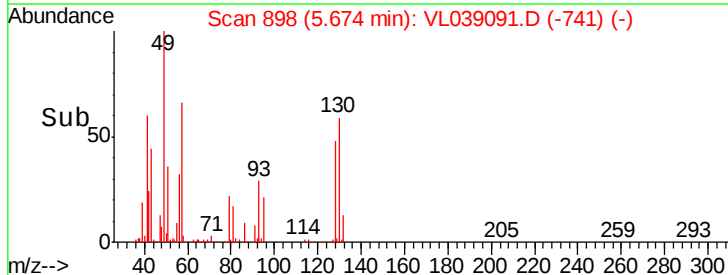
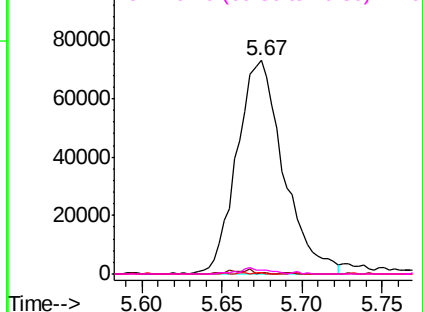


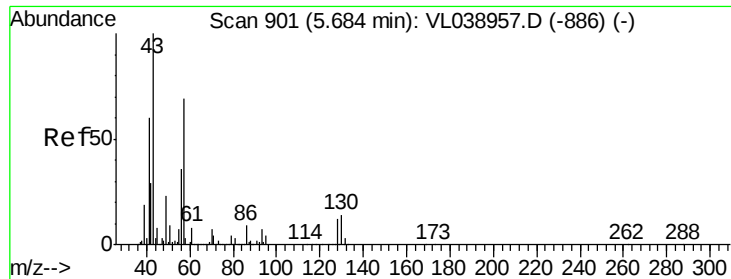
#25
Ethyl Acetate
Concen: 0.595 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL039091.D
Acq: 23 May 2022 19:43

Tgt Ion:	43	Resp:	145628
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.1	12.1#
61	0.4	7.8	11.6#
70	2.0	5.6	8.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 1.041 ppbv

RT: 5.67 Instrument:

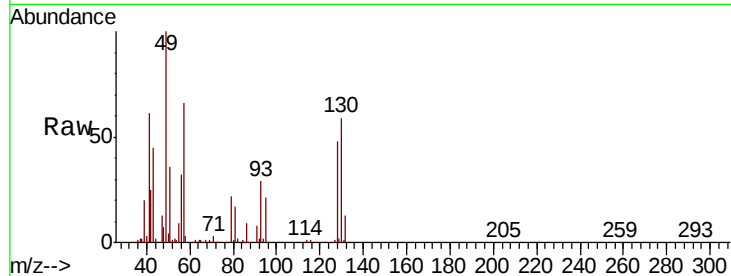
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 May 2022 19:43

Tot Ion: 57 Resp: 113225

Ion	Ratio	Lower	Upper
57	100		
41	179.7	75.2	112.8#
43	135.6	190.8	286.2#
56	0.0	43.0	64.6#

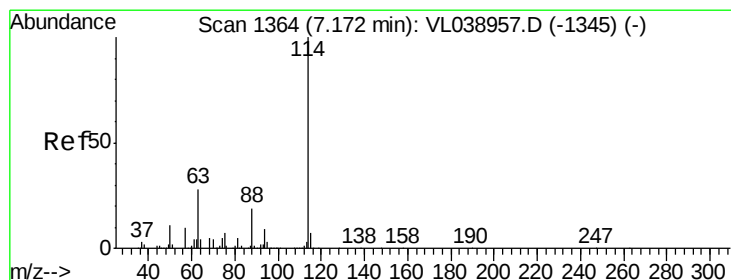
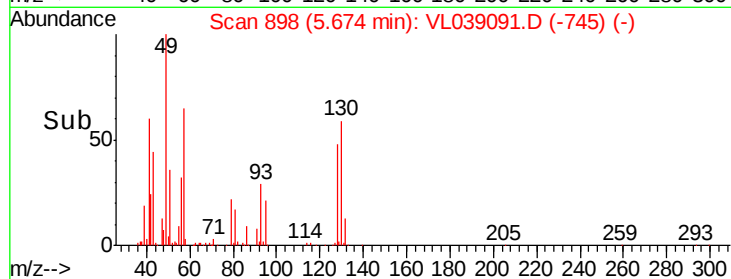
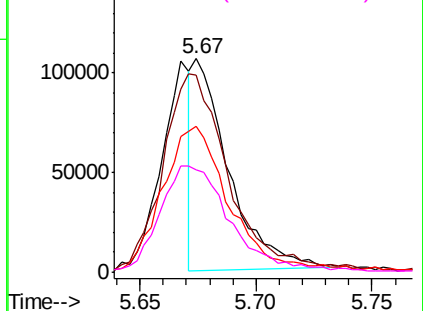


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

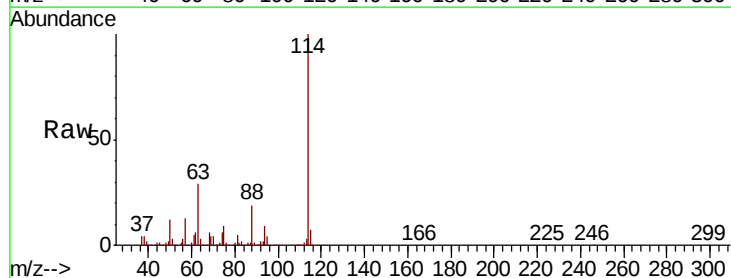
Delta R.T. -0.02 min

Lab File: VL039091.D

Acq: 23 May 2022 19:43

Tgt Ion: 114 Resp: 2549952

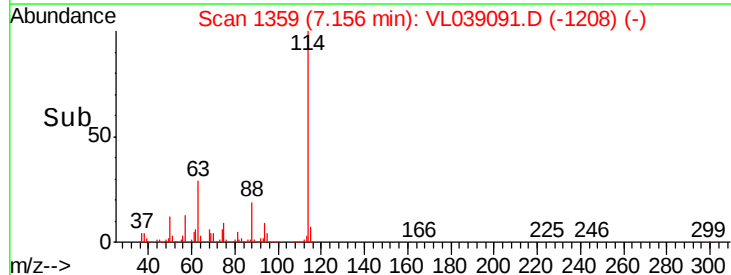
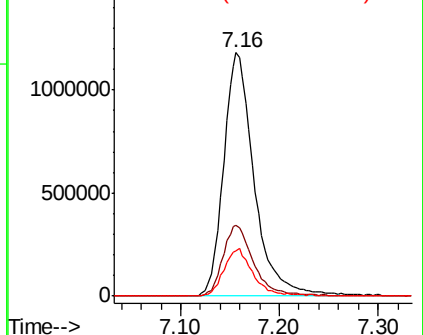
Ion	Ratio	Lower	Upper
114	100		
63	29.5	22.6	33.8
88	19.0	15.4	23.0

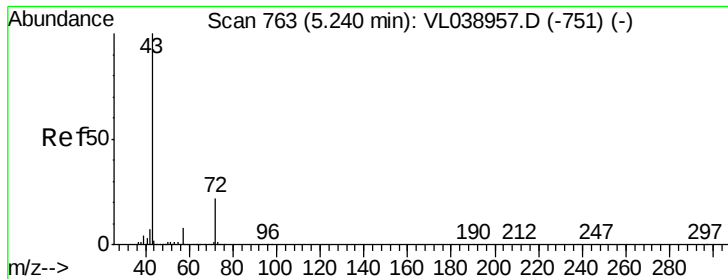


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.093 ppbv

RT: 5.24 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

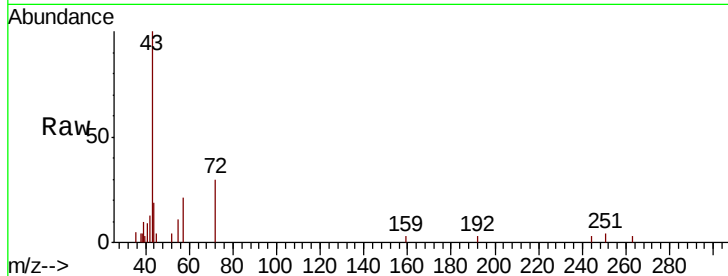
Acq: 23 May 2022 19:43

Tot Ion: 43 Resp: 12060

Ion Ratio Lower Upper

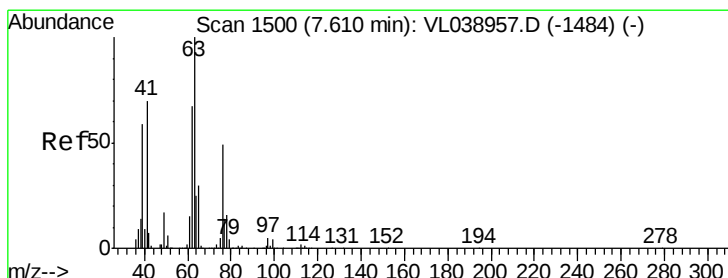
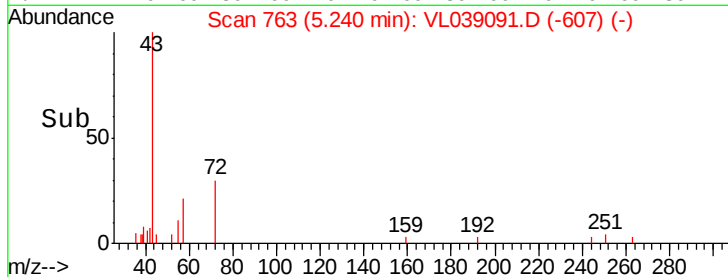
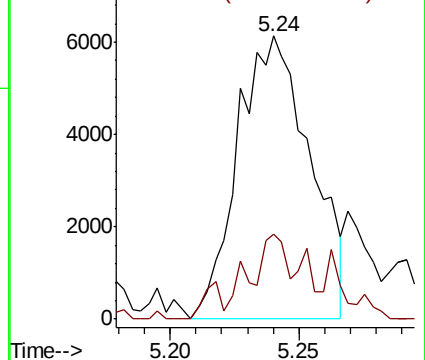
43 100

72 30.3 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#39

1,2-Dichloropropane

Concen: 8.714 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.45 min

Lab File: VL039091.D

Acq: 23 May 2022 19:43

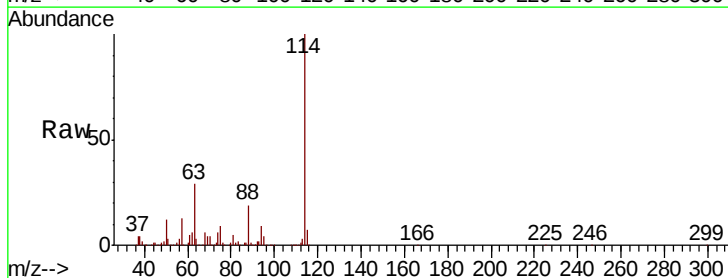
Tgt Ion: 63 Resp: 739856

Ion Ratio Lower Upper

63 100

41 0.0 55.9 83.9#

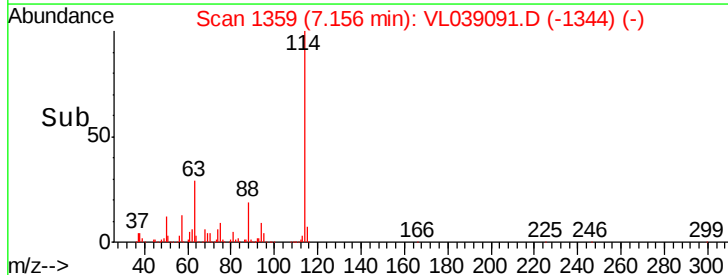
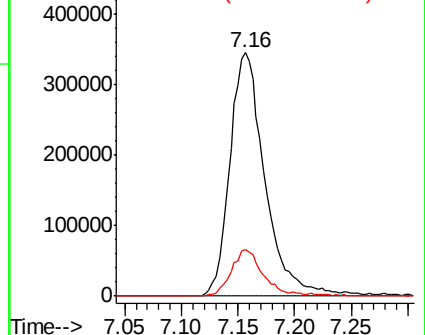
62 19.0 53.8 80.6#

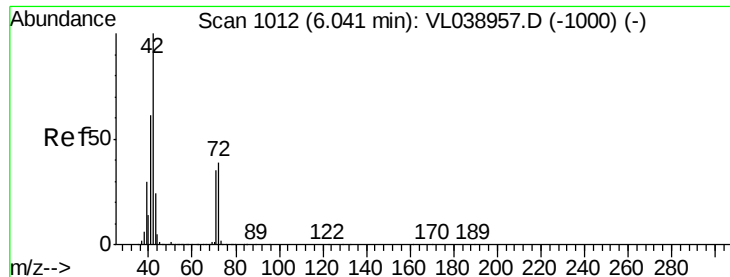


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.904 ppbv

RT: 5.67 Instrument: MSVOA_1

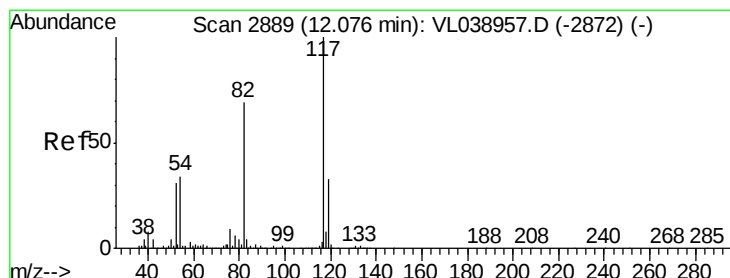
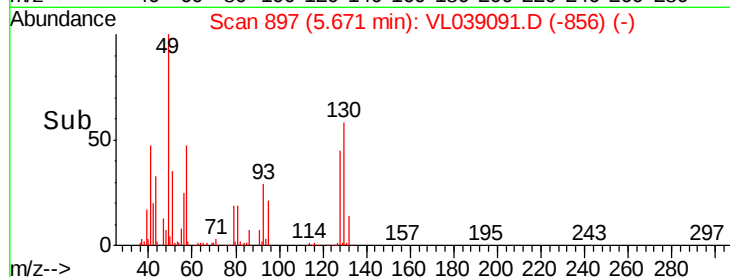
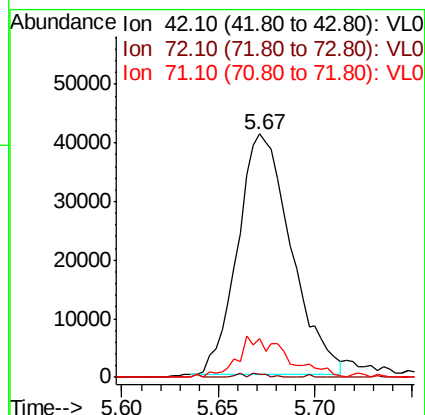
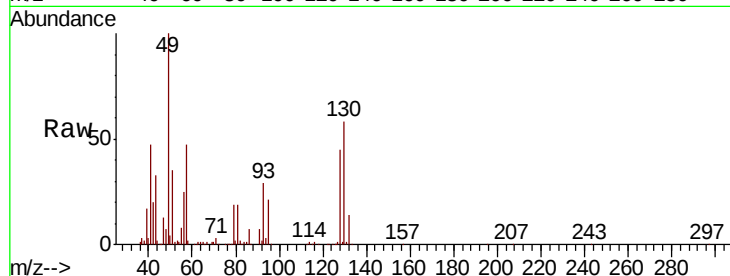
Delta R.T. ClientSampleId:

Lab File: AP-1DL

Acq: 23 May 2022 19:43

Tot Ion: 42 Resp: 79035

Ion	Ratio	Lower	Upper
42	100		
72	1.0	31.8	47.6#
71	16.3	30.6	45.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

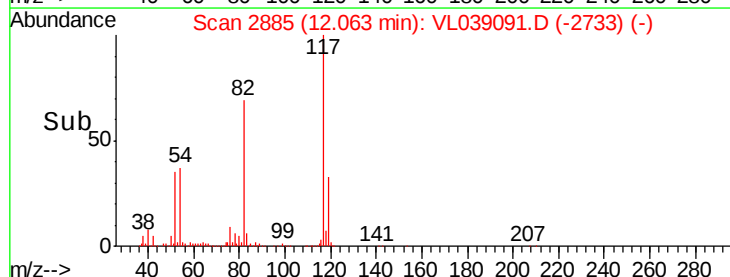
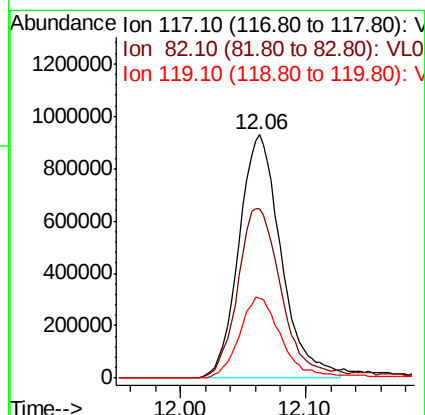
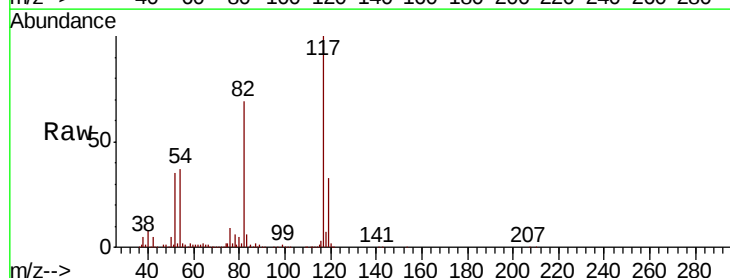
Delta R.T. -0.01 min

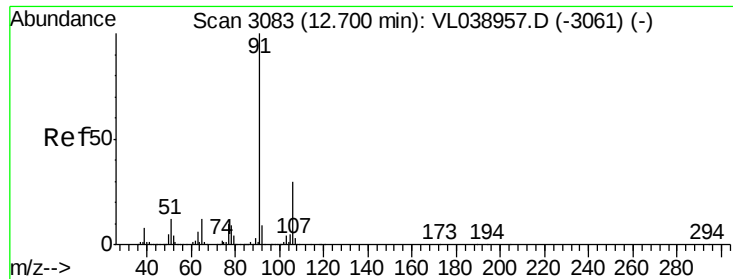
Lab File: VL039091.D

Acq: 23 May 2022 19:43

Tgt Ion: 117 Resp: 2173230

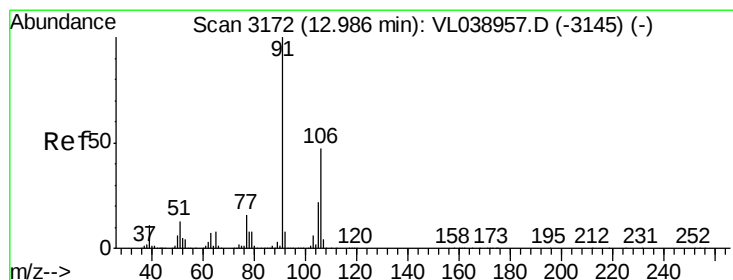
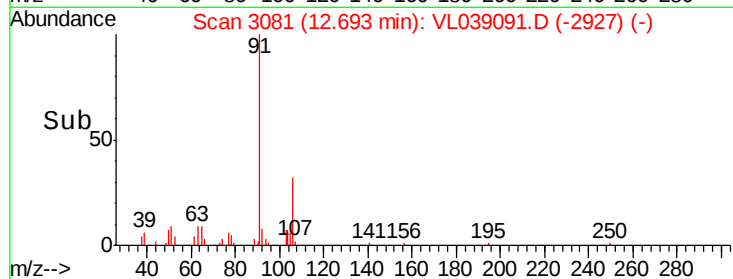
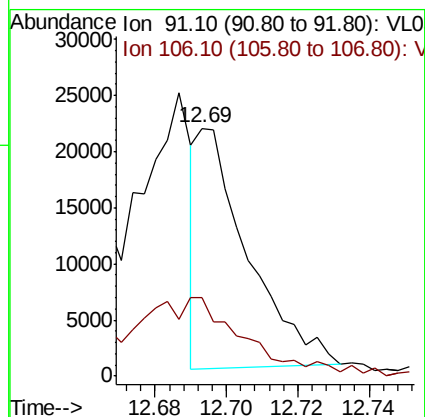
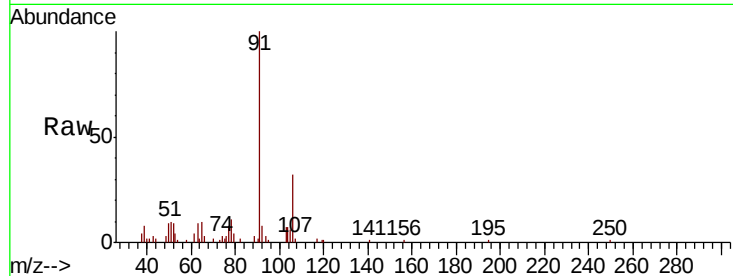
Ion	Ratio	Lower	Upper
117	100		
82	77.3	57.0	85.6
119	33.8	27.2	40.8





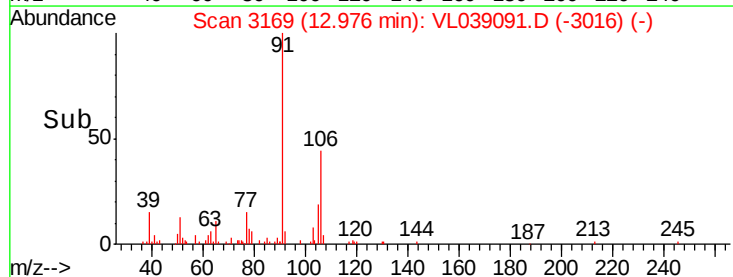
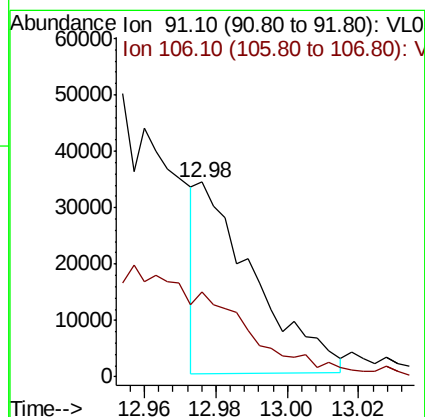
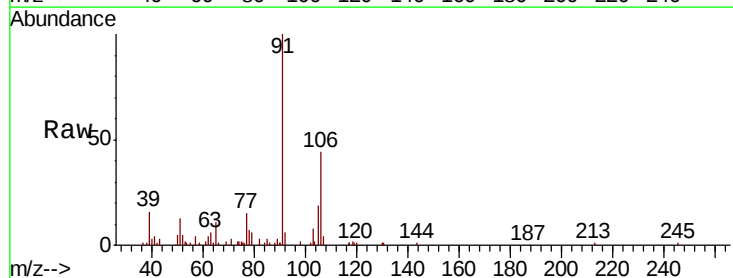
#58
Ethyl Benzene
Concen: 0.067 ppbv
RT: 12.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 19:43

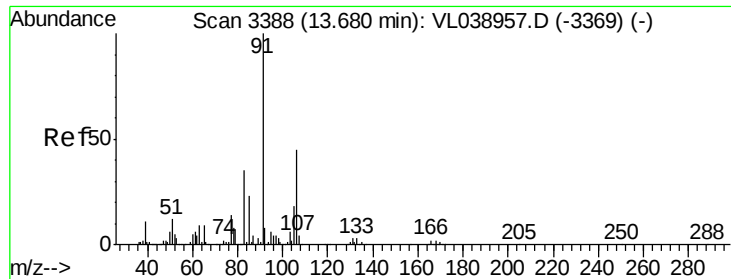
Tot Ion: 91 Resp: 20900
Ion Ratio Lower Upper
91 100
106 31.4 24.2 36.4



#59
m/p-Xylene
Concen: 0.140 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL039091.D
Acq: 23 May 2022 19:43

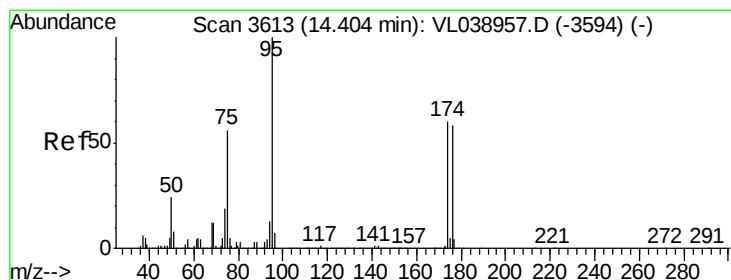
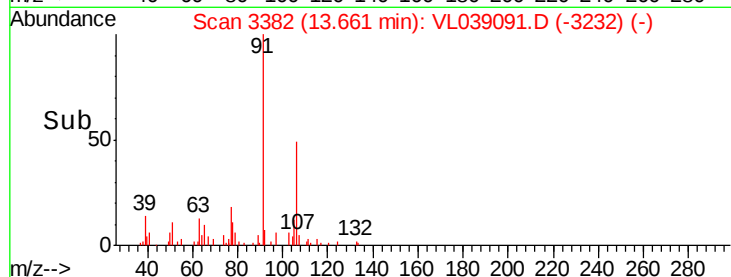
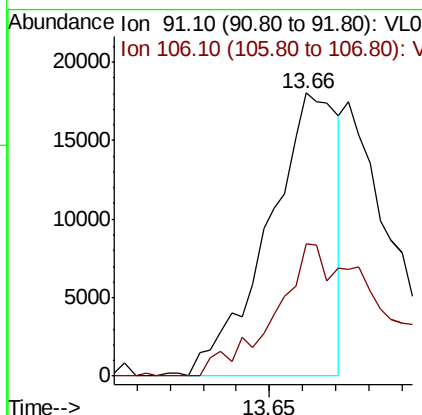
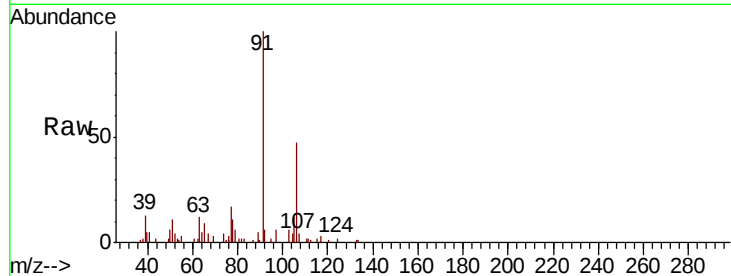
Tgt Ion: 91 Resp: 37464
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#





#60
o-Xylene
Concen: 0.104 ppbv
RT: 13.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 19:43

Tot Ion: 91 Resp: 26231
Ion Ratio Lower Upper
91 100
106 72.4 22.2 66.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.456 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.01 min
Lab File: VL039091.D
Acq: 23 May 2022 19:43

Tgt Ion: 95 Resp: 1799582
Ion Ratio Lower Upper
95 100
174 62.9 50.8 76.2
175 4.2 3.8 5.6

