

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038731.D
 Acq On : 24 Mar 2022 1:08
 Operator : SY/AP
 Sample : N2049-01DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 04:36:37 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	894734	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2358964	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2031008	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1461141	9.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%

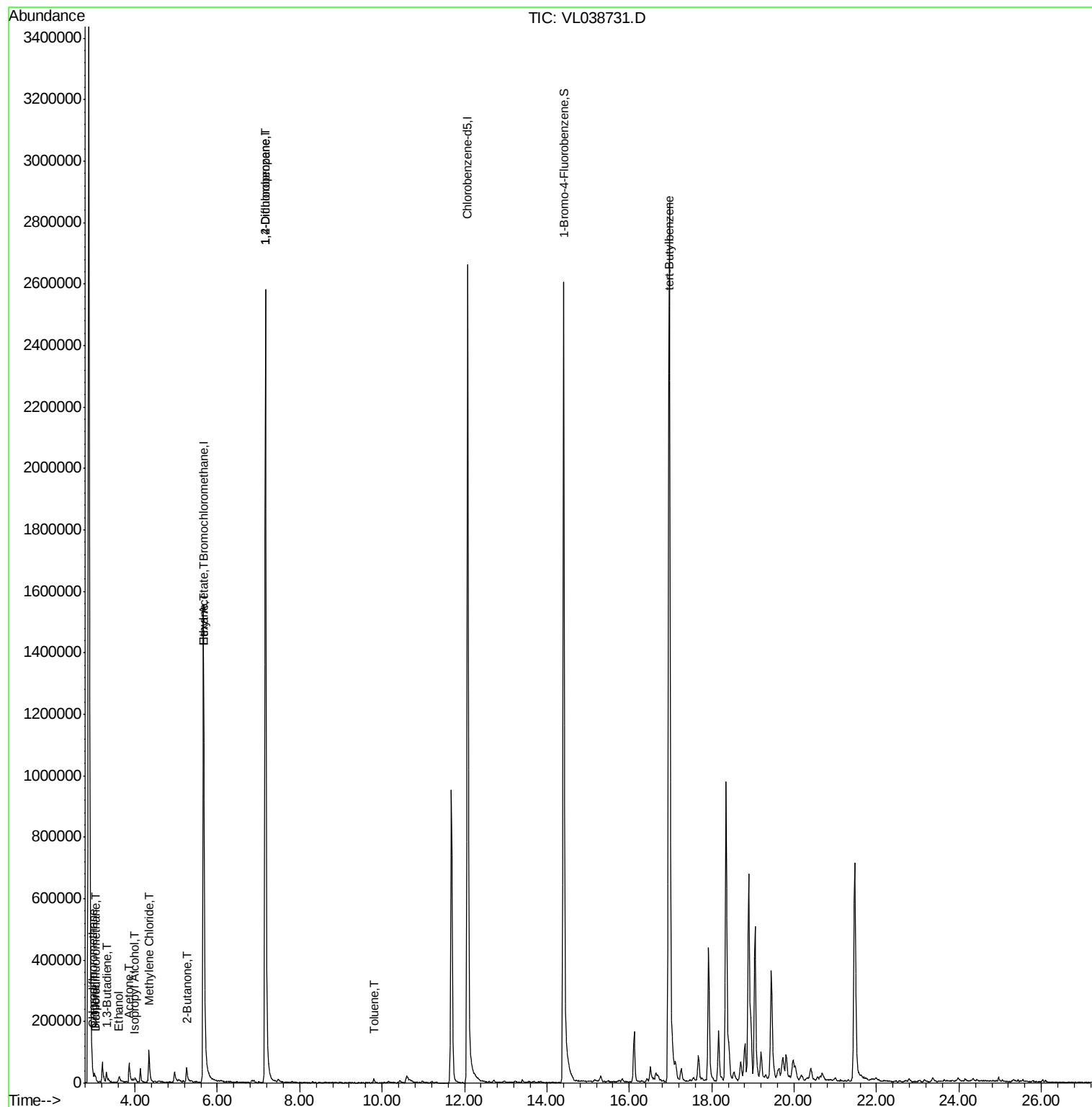
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	11106	0.092	ppbv	98
3) Chlorodifluoromethane	2.99	51	6793	0.072	ppbv #	88
9) Propene	3.02	41	8373	0.184	ppbv	95
13) Ethanol	3.61	45	28194	5.602	ppbv	91
15) Acetone	3.86	43	83699	1.084	ppbv #	84
16) 1,3-Butadiene	3.31	39	9121	0.208	ppbv #	16
19) Isopropyl Alcohol	3.98	45	3402	0.079	ppbv #	91
20) Methylene Chloride	4.34	84	40265	1.238	ppbv	95
25) Ethyl Acetate	5.68	43	10806	0.056	ppbv #	83
26) Hexane	5.68	57	27698	0.318	ppbv #	39
34) 2-Butanone	5.25	43	68742	0.736	ppbv	97
39) 1,2-Dichloropropane	7.17	63	539033	7.573	ppbv #	29
53) Toluene	9.80	91	9550	0.049	ppbv #	78
65) tert-Butylbenzene	16.97	119	37336	0.140	ppbv #	26

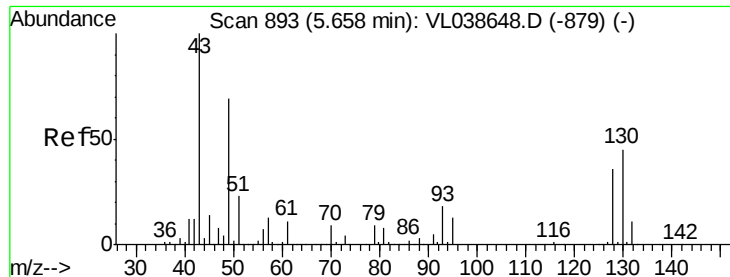
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 1:08

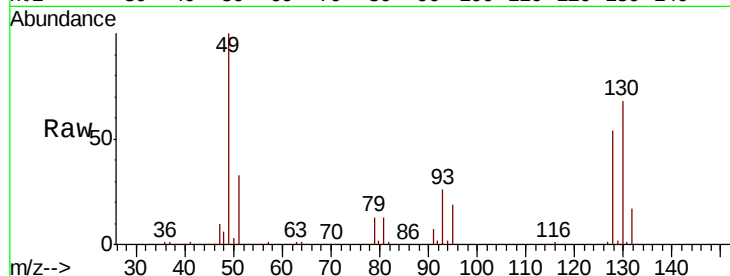
Tot Ion: 49 Resp: 894734

Ion Ratio Lower Upper

49 100

128 55.5 26.2 78.6

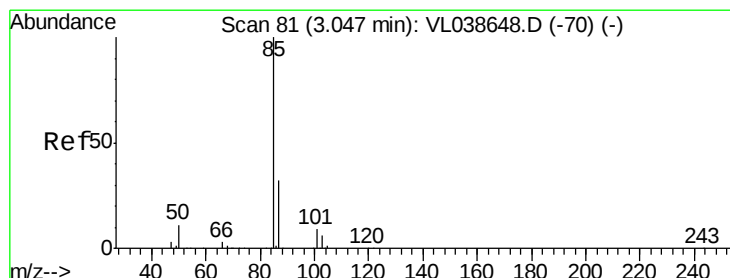
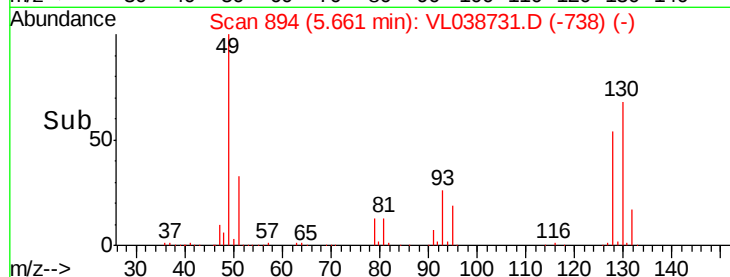
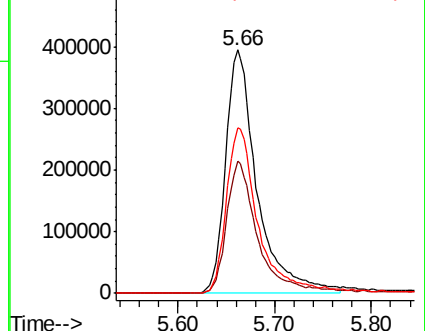
130 71.7 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.092 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038731.D

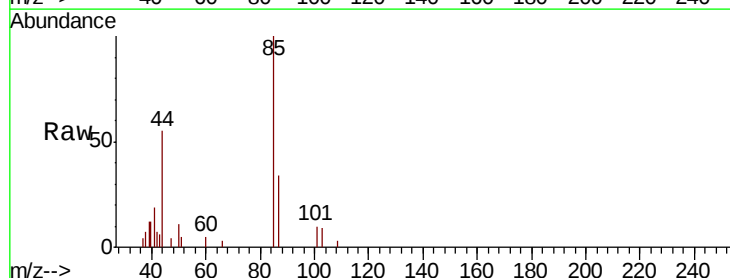
Acq: 24 Mar 2022 1:08

Tgt Ion: 85 Resp: 11106

Ion Ratio Lower Upper

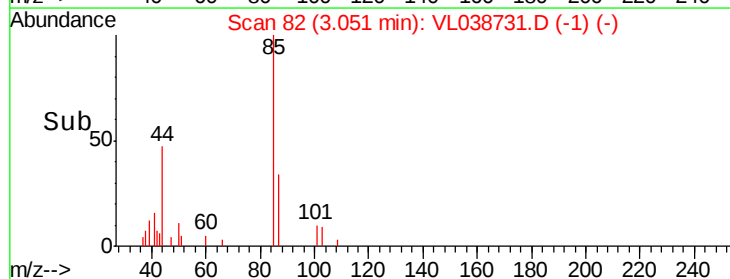
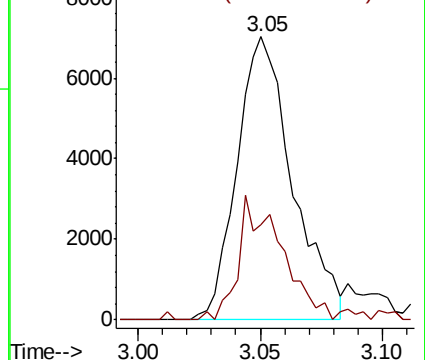
85 100

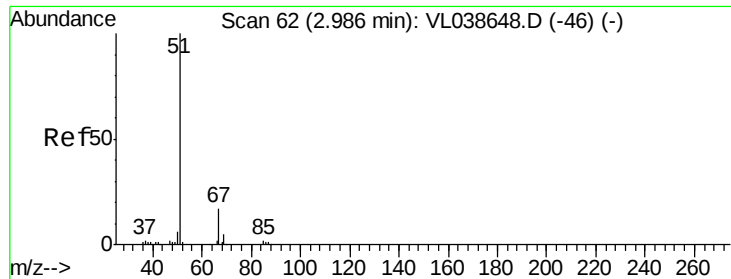
87 33.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.072 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

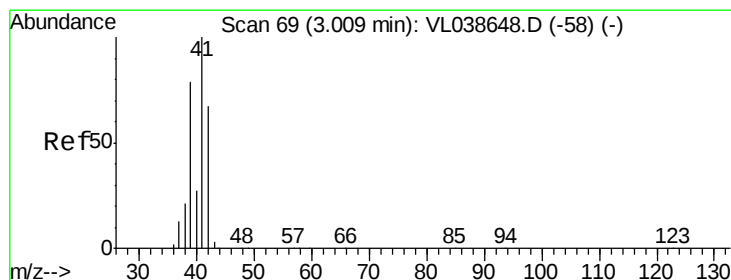
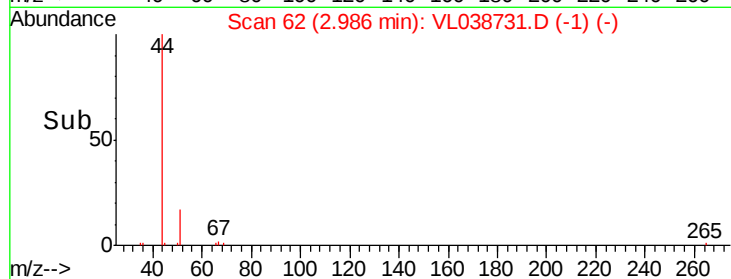
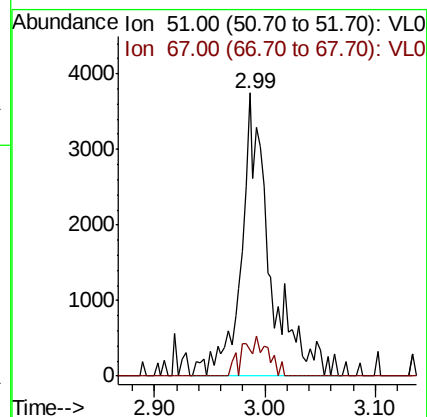
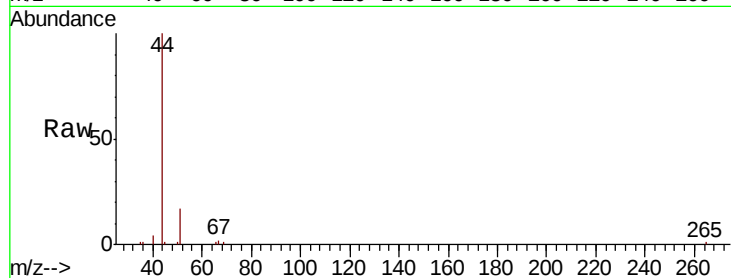
Acq: 24 Mar 2022 1:08

Tot Ion: 51 Resp: 6793

Ion Ratio Lower Upper

51 100

67 12.2 14.1 21.1#



#9

Propene

Concen: 0.184 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL038731.D

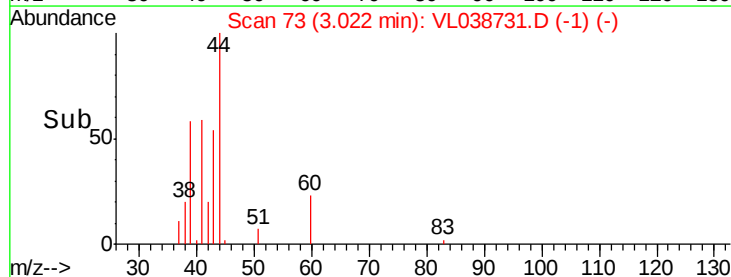
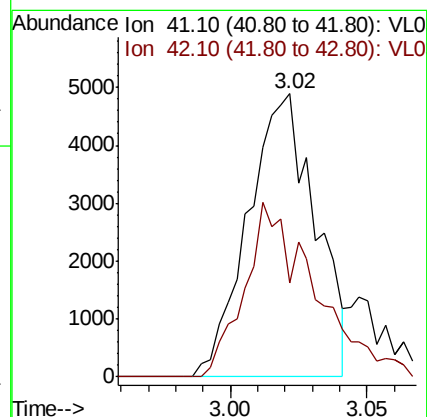
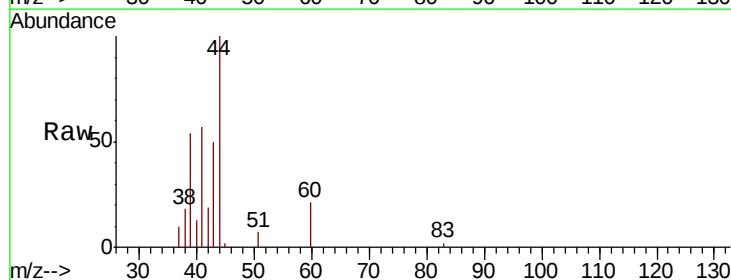
Acq: 24 Mar 2022 1:08

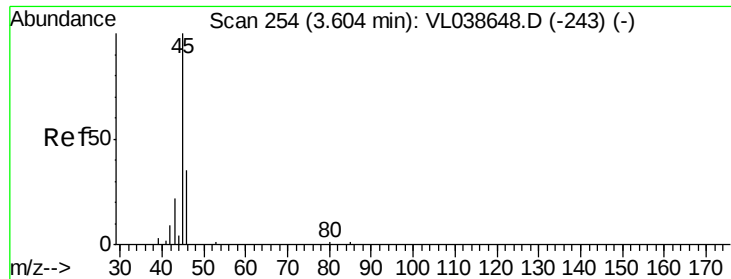
Tgt Ion: 41 Resp: 8373

Ion Ratio Lower Upper

41 100

42 66.1 56.2 84.4





#13

Ethanol

Concen: 5.602 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

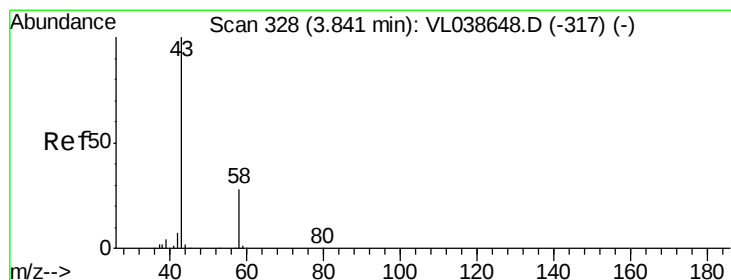
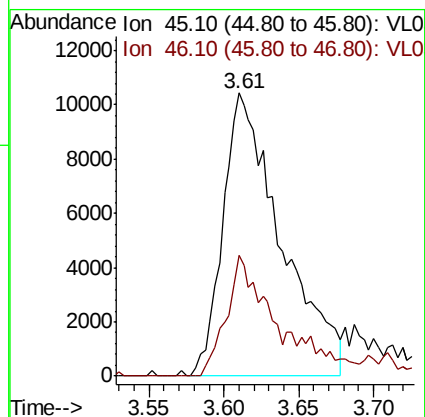
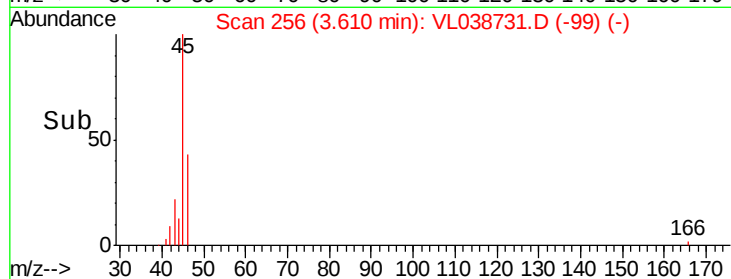
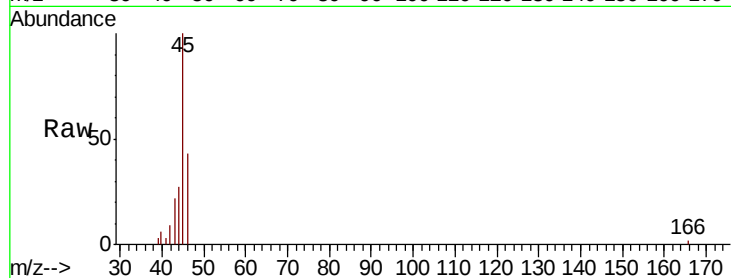
Acq: 24 Mar 2022 1:08

Tot Ion: 45 Resp: 28194

Ion Ratio Lower Upper

45 100

46 43.5 15.1 60.5



#15

Acetone

Concen: 1.084 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.02 min

Lab File: VL038731.D

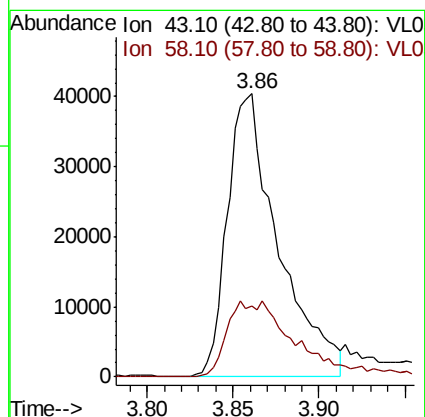
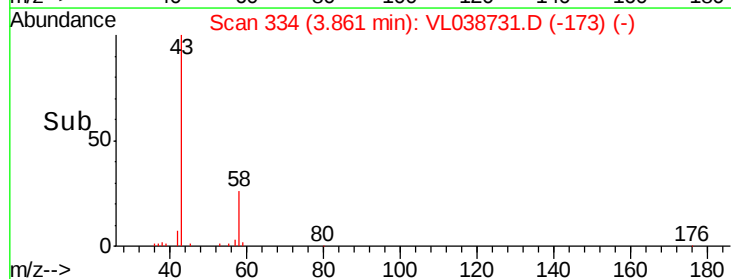
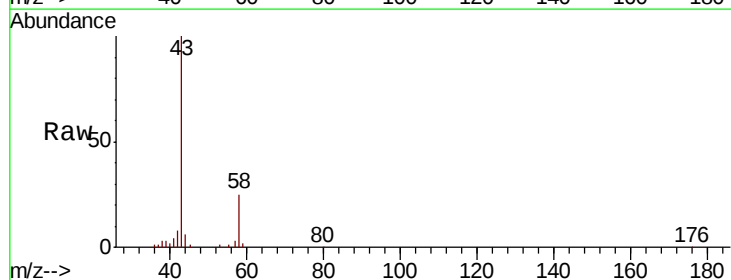
Acq: 24 Mar 2022 1:08

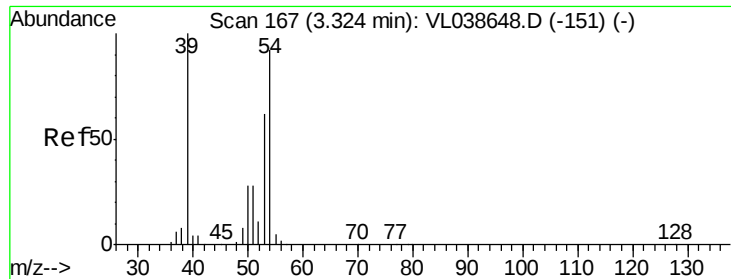
Tgt Ion: 43 Resp: 83699

Ion Ratio Lower Upper

43 100

58 37.5 23.3 34.9#





#16

1,3-Butadiene

Concen: 0.208 ppbv

RT: 3.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

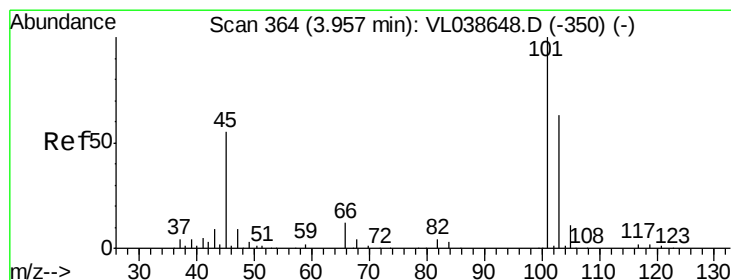
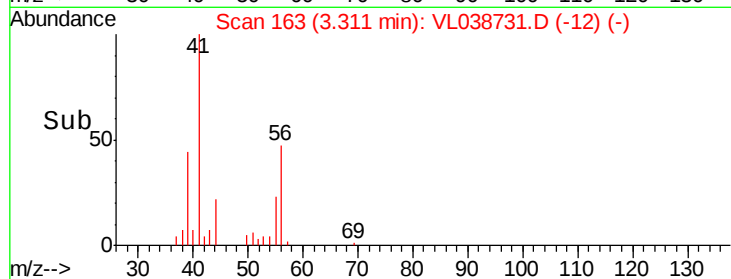
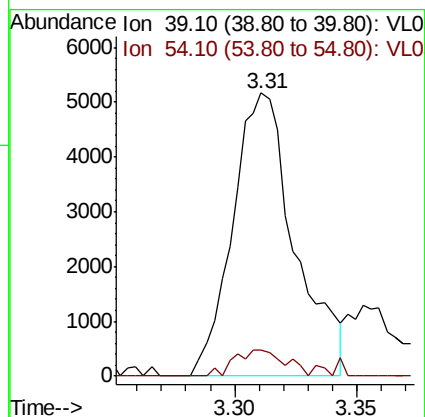
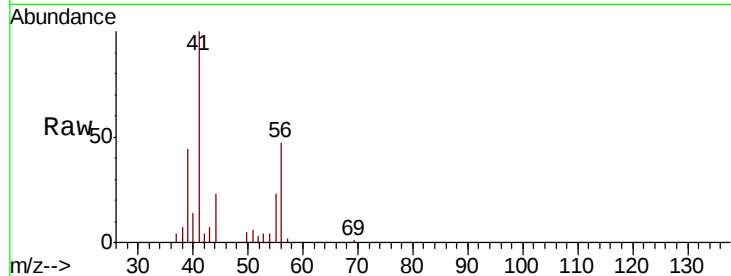
Acq: 24 Mar 2022 1:08

Tot Ion: 39 Resp: 9121

Ion Ratio Lower Upper

39 100

54 9.0 69.1 103.7#



#19

Isopropyl Alcohol

Concen: 0.079 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL038731.D

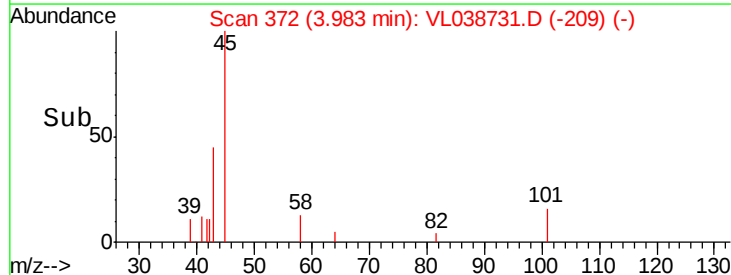
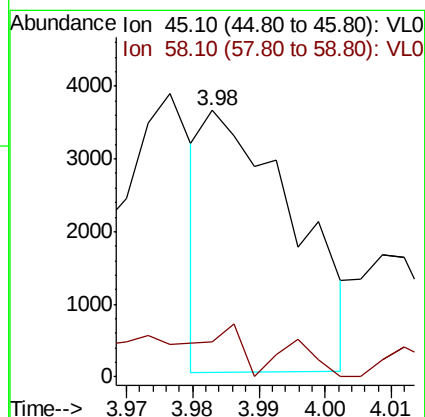
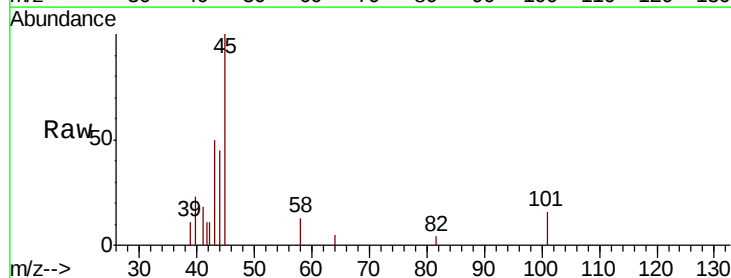
Acq: 24 Mar 2022 1:08

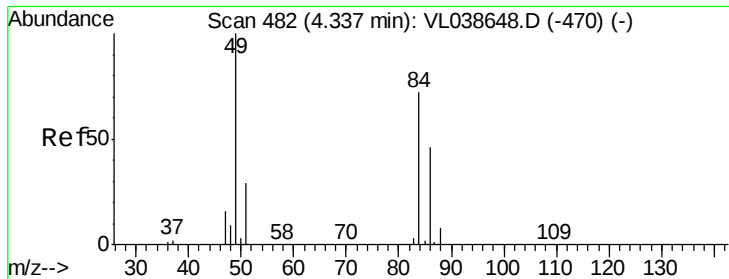
Tgt Ion: 45 Resp: 3402

Ion Ratio Lower Upper

45 100

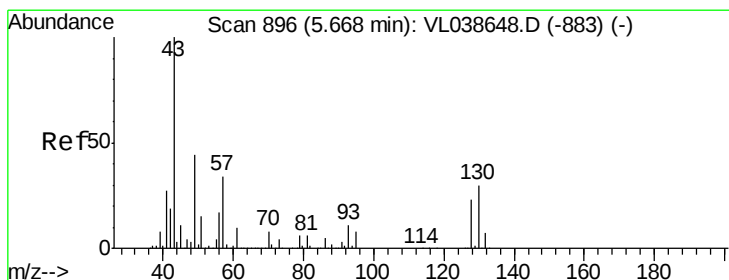
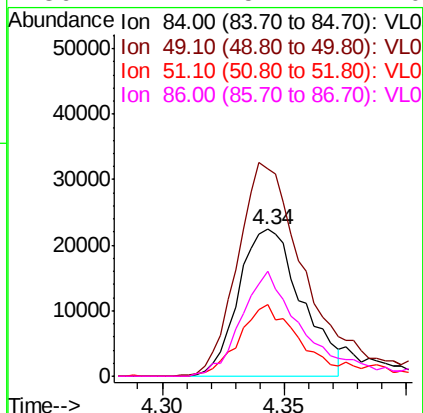
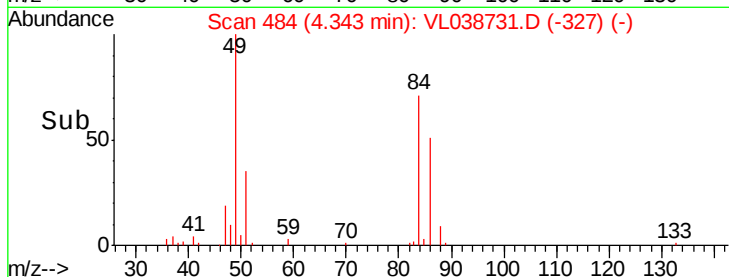
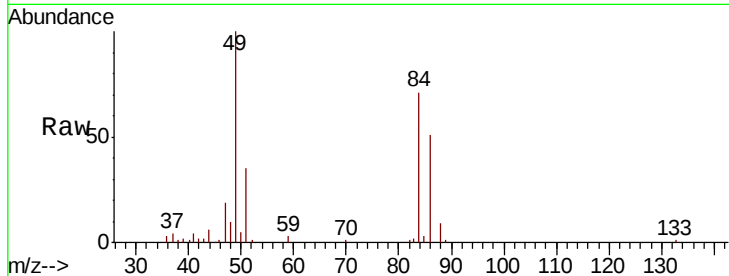
58 0.0 2.3 3.5#





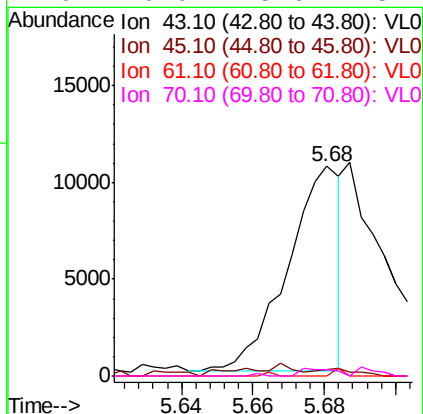
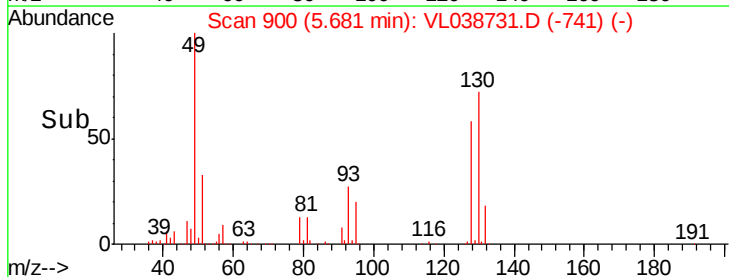
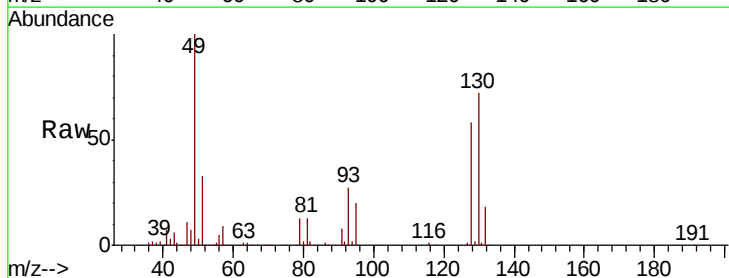
#20
Methvlene Chloride
Concen: 1.238 ppbv
RT: 4.34 Instrument :
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 1:08

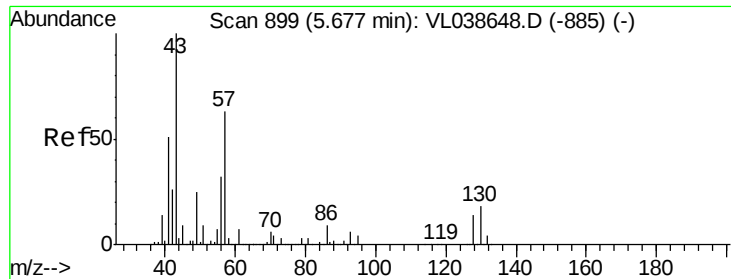
Tot Ion:	84	Resp:	40265
Ion	Ratio	Lower	Upper
84	100		
49	140.2	111.2	166.8
51	49.2	32.8	49.2
86	71.4	51.4	77.0



#25
Ethyl Acetate
Concen: 0.056 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL038731.D
Acq: 24 Mar 2022 1:08

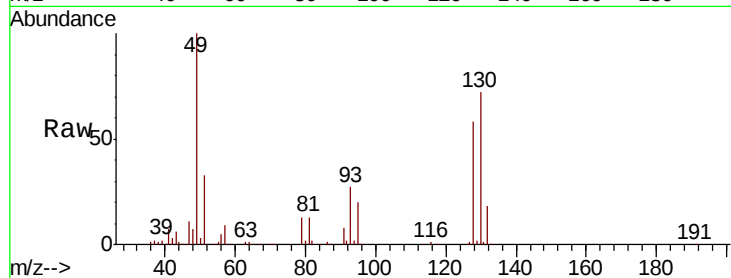
Tgt Ion:	43	Resp:	10806
Ion	Ratio	Lower	Upper
43	100		
45	9.3	8.2	12.4
61	0.0	8.3	12.5#
70	0.0	5.6	8.4#



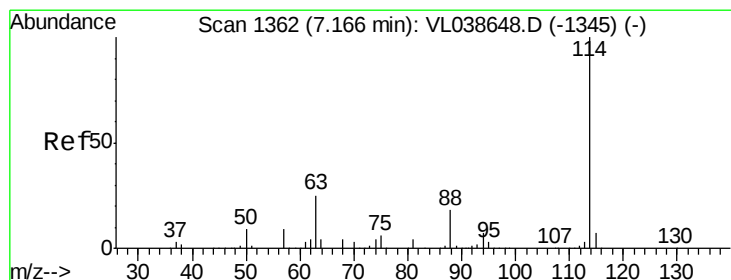
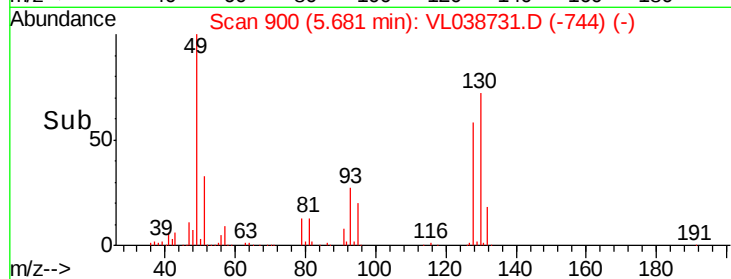
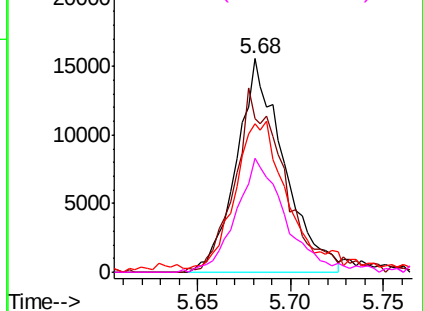


#26
Hexane
Concen: 0.318 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 1:08

Tot Ion:	57	Resp:	27698
Ion	Ratio	Lower	Upper
57	100		
41	91.5	67.0	100.4
43	76.7	184.2	276.2#
56	56.0	42.6	64.0

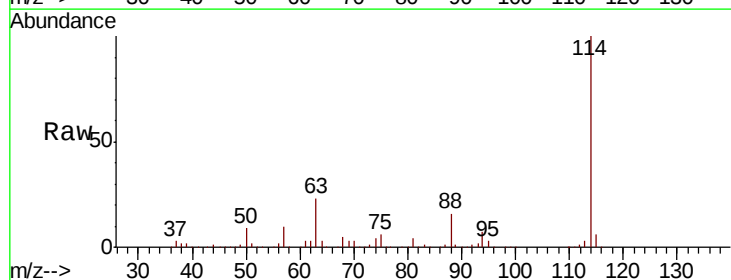


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

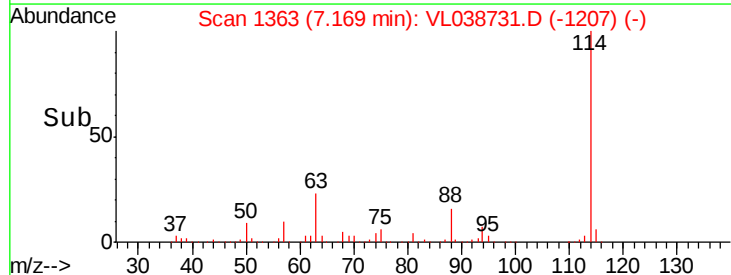
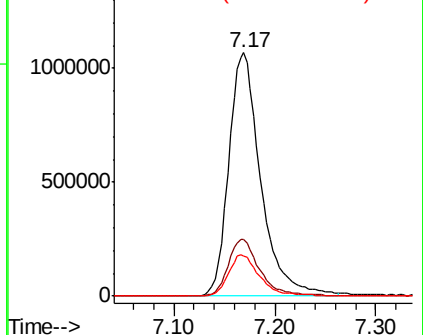


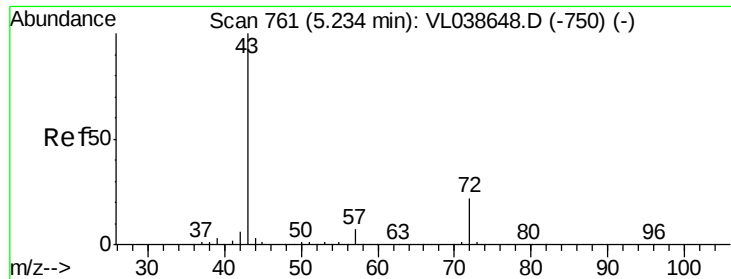
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL038731.D
Acq: 24 Mar 2022 1:08

Tgt Ion:	114	Resp:	2358964
Ion	Ratio	Lower	Upper
114	100		
63	23.1	19.4	29.0
88	16.9	13.9	20.9



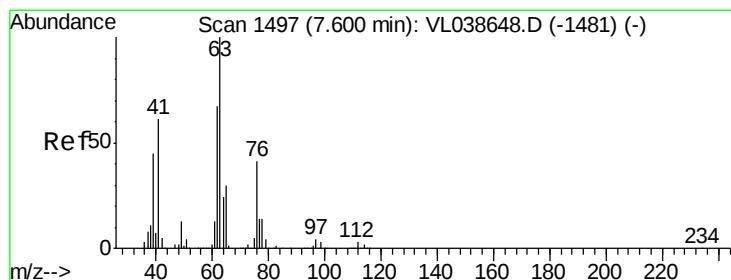
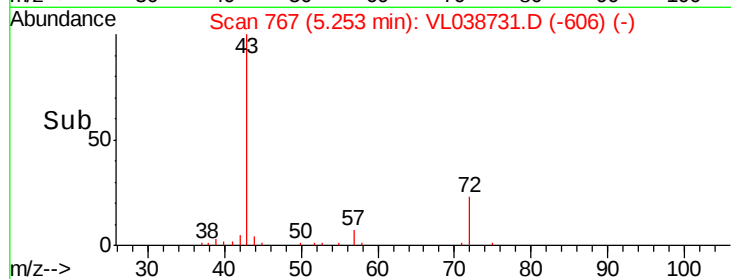
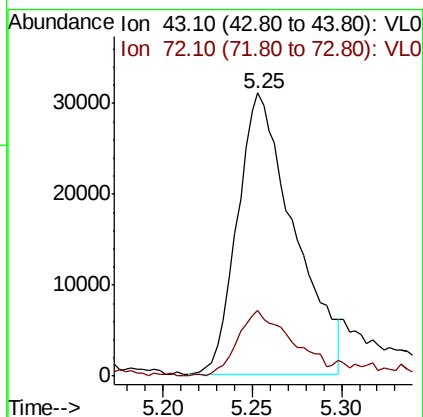
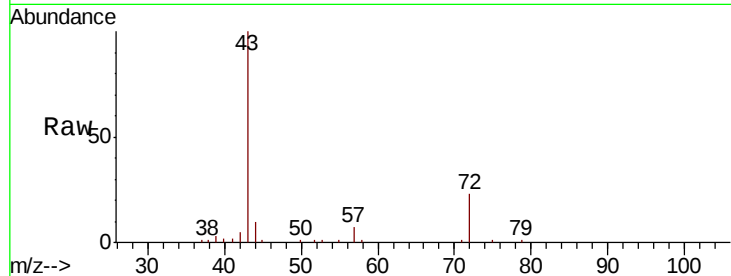
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





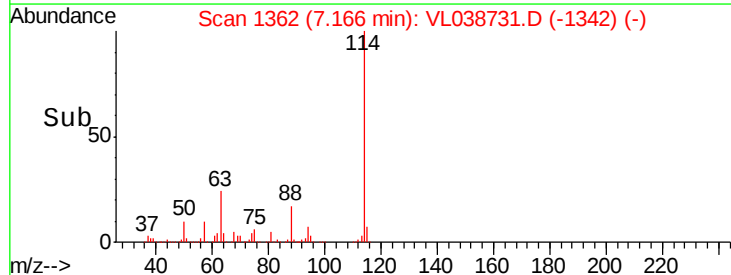
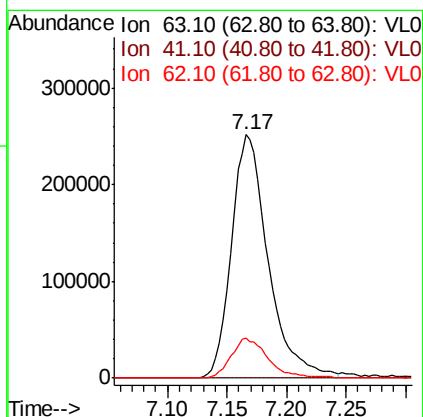
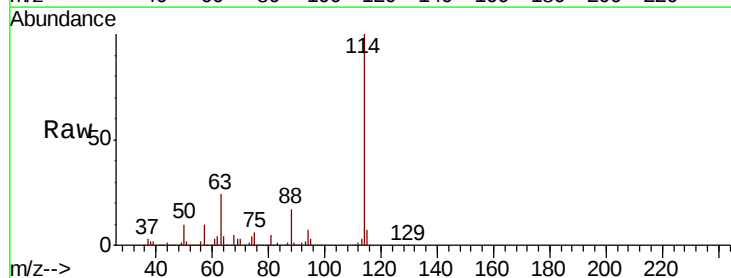
#34
 2-Butanone
 Concen: 0.736 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 1:08

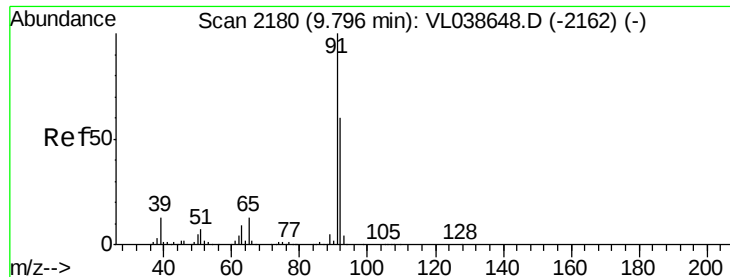
Tot Ion: 43 Resp: 68742
 Ion Ratio Lower Upper
 43 100
 72 23.8 17.8 26.8



#39
 1,2-Dichloropropane
 Concen: 7.573 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.43 min
 Lab File: VL038731.D
 Acq: 24 Mar 2022 1:08

Tgt Ion: 63 Resp: 539033
 Ion Ratio Lower Upper
 63 100
 41 0.1 49.0 73.6#
 62 16.3 53.9 80.9#





#53

Toluene

Concen: 0.049 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

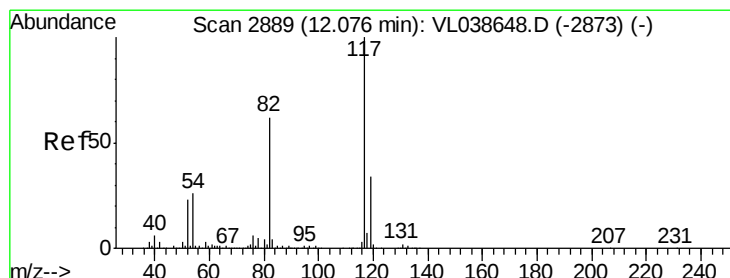
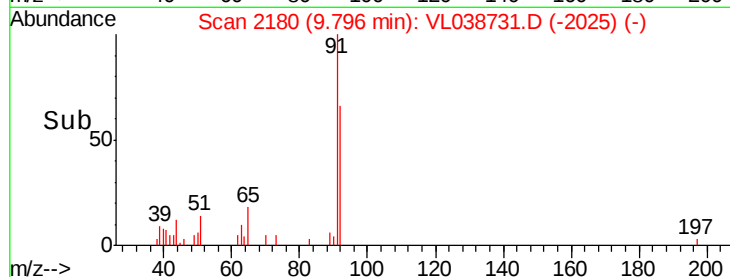
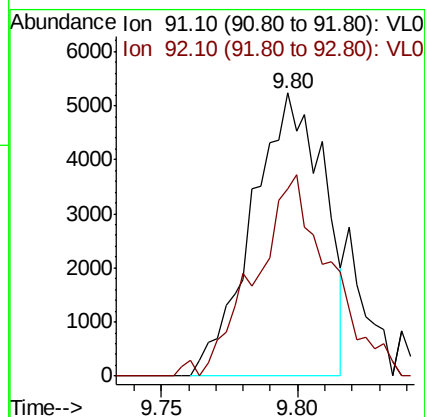
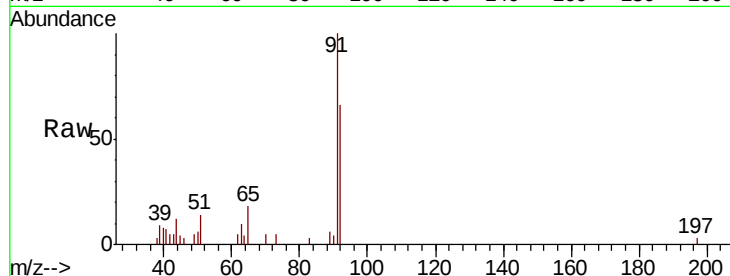
Acq: 24 Mar 2022 1:08

Tot Ion: 91 Resp: 9550

Ion Ratio Lower Upper

91 100

92 77.3 48.7 73.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038731.D

Acq: 24 Mar 2022 1:08

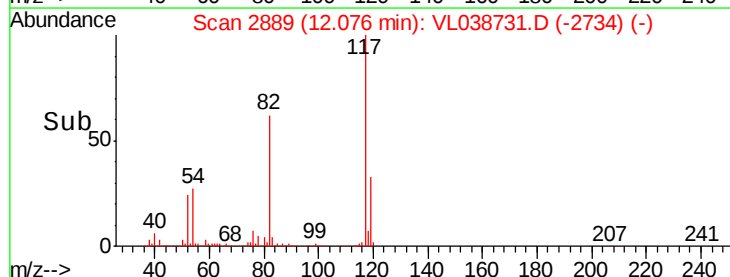
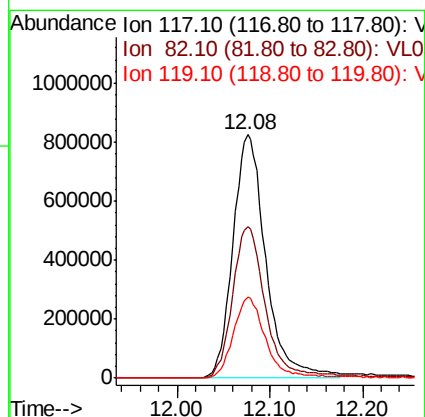
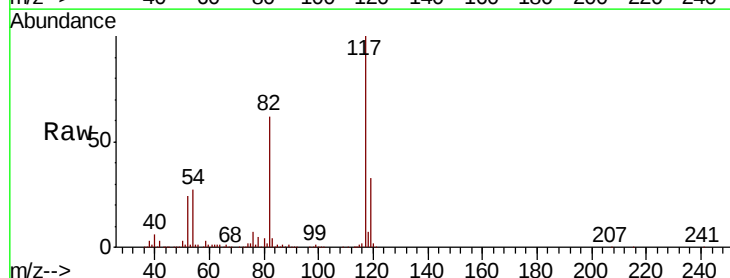
Tgt Ion: 117 Resp: 2031008

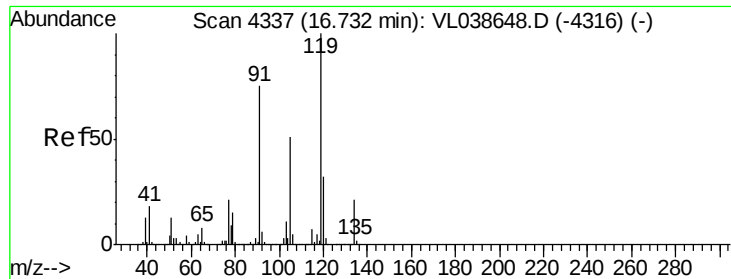
Ion Ratio Lower Upper

117 100

82 65.0 51.6 77.4

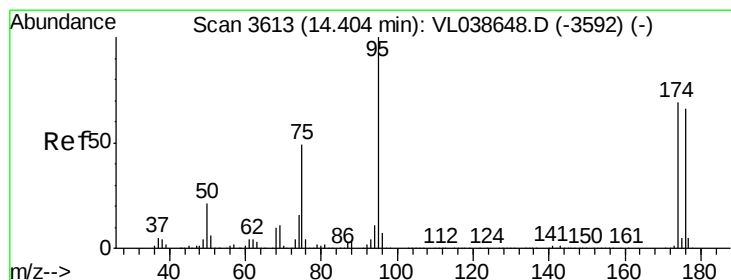
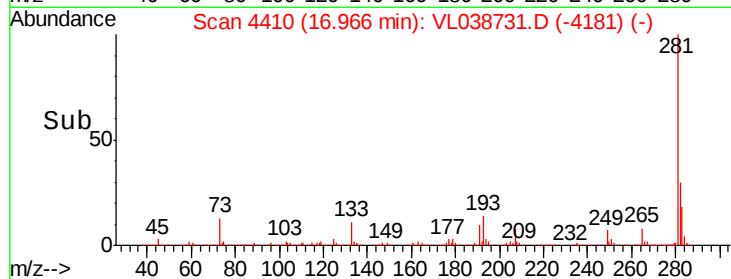
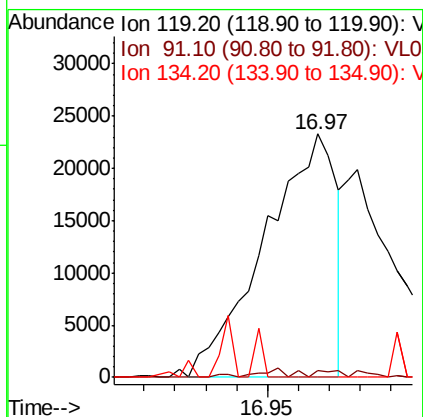
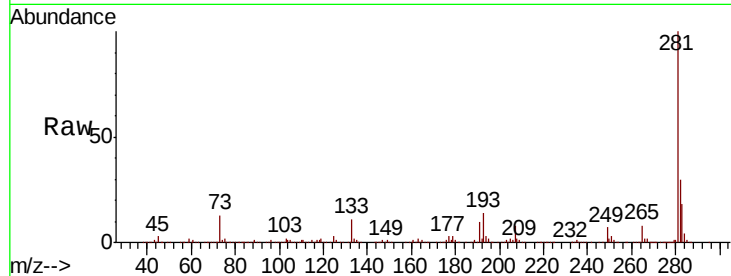
119 33.7 26.9 40.3





#65
 tert-Butylbenzene
 Concen: 0.140 ppbv
 RT: 16.97
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 24 Mar 2022 1:08

Tot Ion: 119 Resp: 37336
 Ion Ratio Lower Upper
 119 100
 91 1.6 61.2 91.8#
 134 7.8 16.3 24.5#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.383 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T.: -0.00 min
 Lab File: VL038731.D
 Acq: 24 Mar 2022 1:08

Tgt Ion: 95 Resp: 1461141
 Ion Ratio Lower Upper
 95 100
 174 71.7 56.1 84.1
 175 5.1 4.2 6.2

