

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038228.D
 Acq On : 22 Dec 2021 00:54
 Operator : SY/AP
 Sample : M5118-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 08:29:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	747379	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	2023208	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	1759117	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1407729	10.38	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

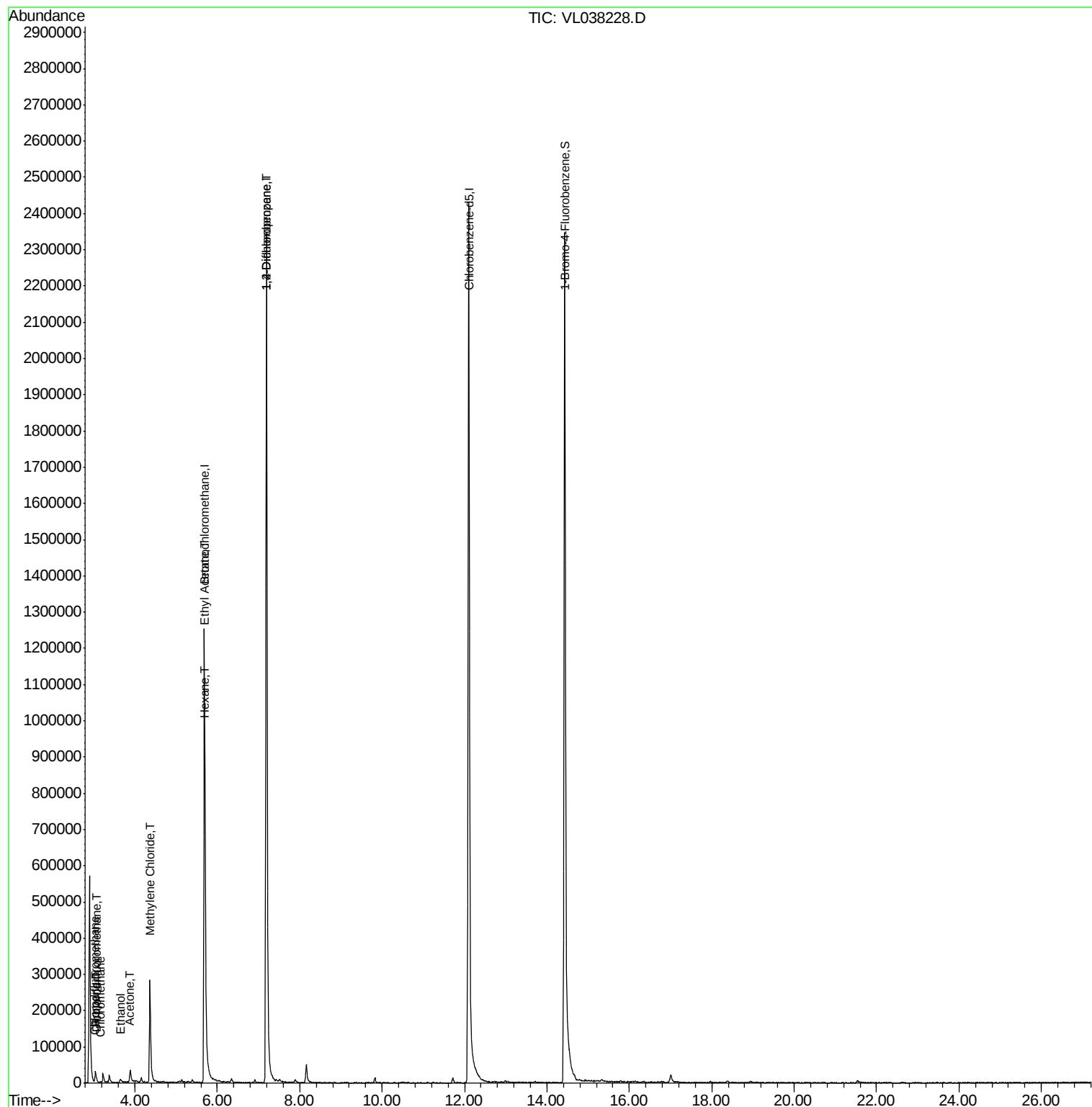
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	6302	0.045	ppbv #	75
3) Chlorodifluoromethane	3.01	51	5507	0.035	ppbv #	78
4) Chloromethane	3.16	50	2483	0.046	ppbv	94
9) Propene	3.04	41	8237	0.151	ppbv	92
13) Ethanol	3.64	45	4381	0.474	ppbv #	100
15) Acetone	3.89	43	28869	0.385	ppbv #	85
20) Methylene Chloride	4.37	84	125530	2.964	ppbv	95
25) Ethyl Acetate	5.70	43	18130	0.089	ppbv #	78
26) Hexane	5.71	57	45392	0.445	ppbv #	43
39) 1,2-Dichloropropane	7.19	63	530288	7.301	ppbv #	26

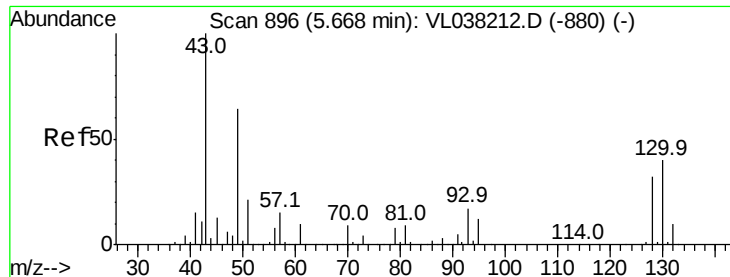
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Dec 2021 00:54

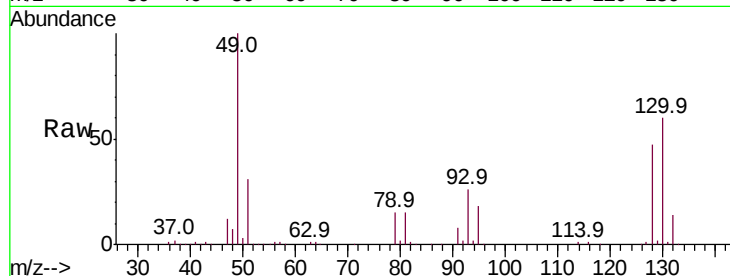
Tot Ion: 49 Resp: 747379

Ion Ratio Lower Upper

49 100

128 47.4 26.9 80.6

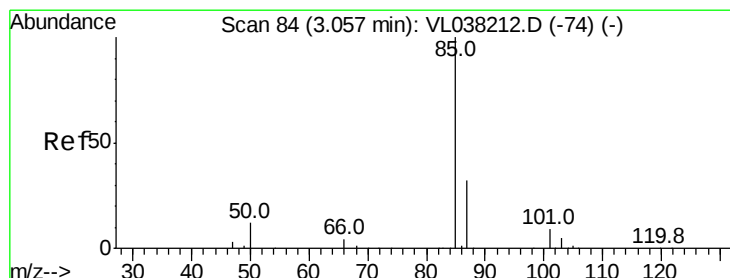
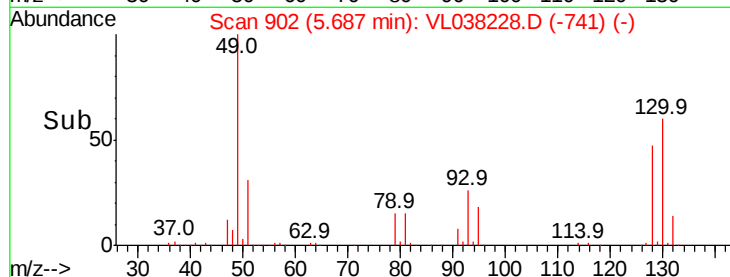
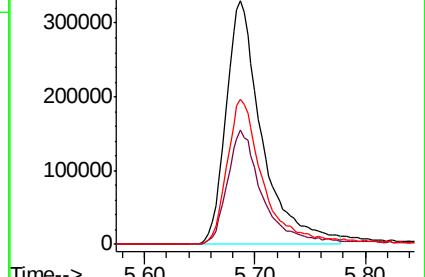
130 61.7 32.3 96.9



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: 0.045 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.01 min

Lab File: VL038228.D

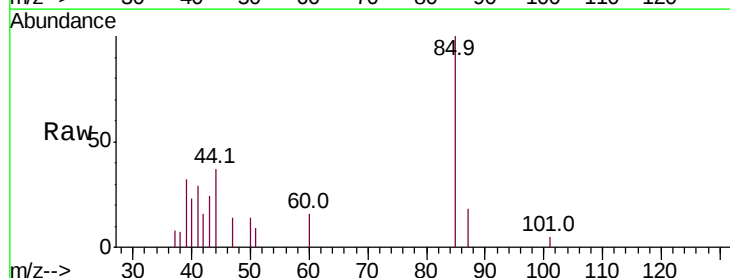
Acq: 22 Dec 2021 00:54

Tgt Ion: 85 Resp: 6302

Ion Ratio Lower Upper

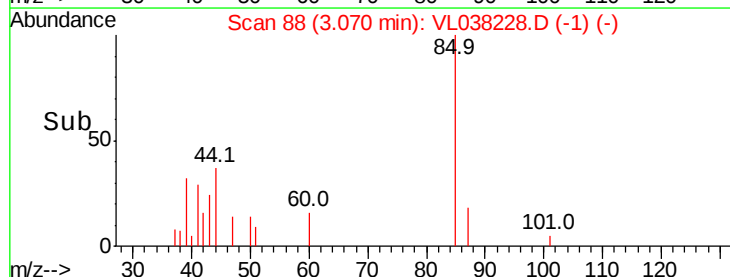
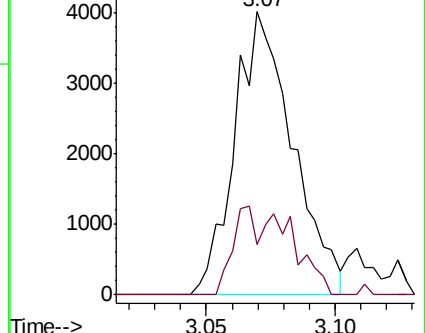
85 100

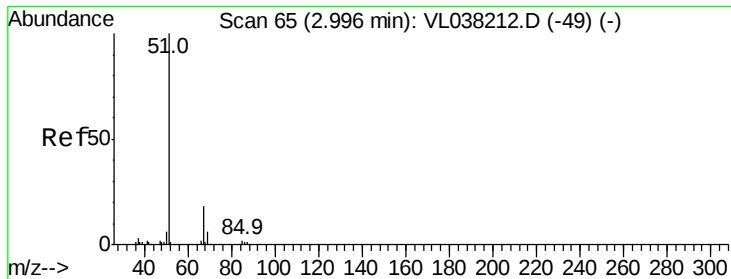
87 17.9 25.4 38.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

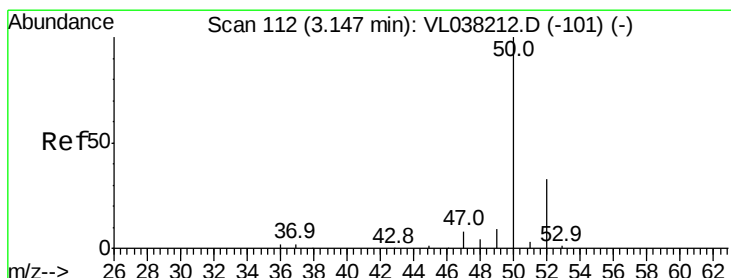
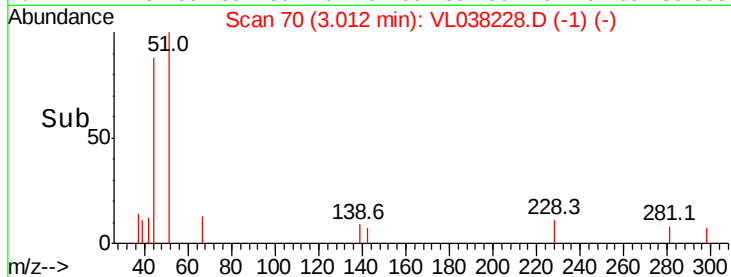
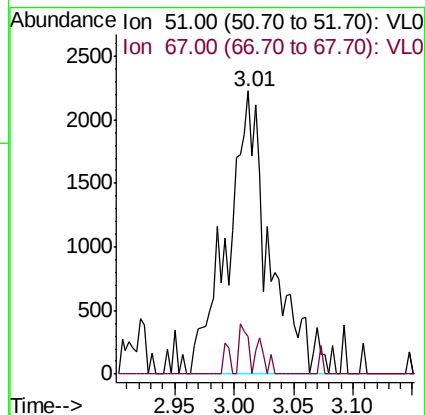
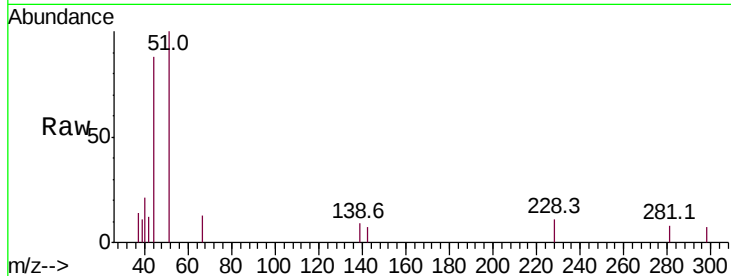
Acq: 22 Dec 2021 00:54

Tot Ion: 51 Resp: 5507

Ion Ratio Lower Upper

51 100

67 7.9 14.0 21.0#



#4

Chloromethane

Concen: 0.046 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.02 min

Lab File: VL038228.D

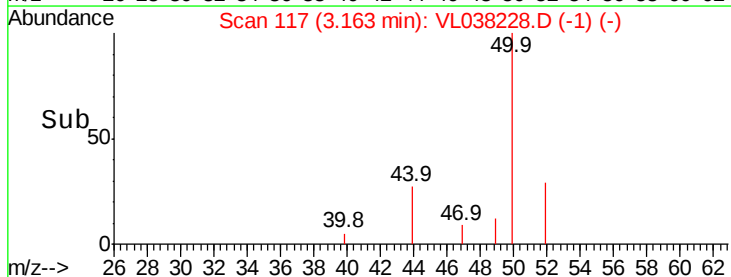
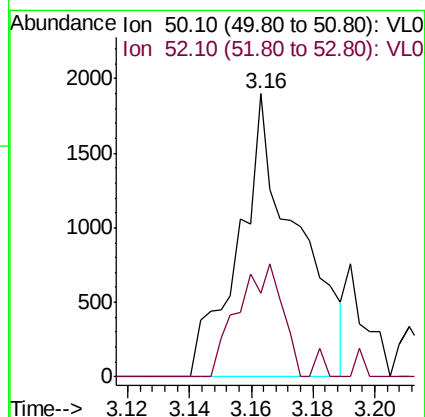
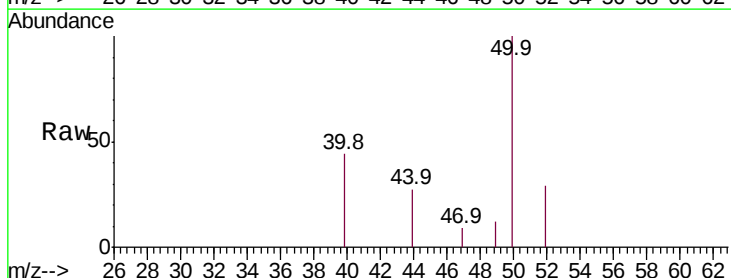
Acq: 22 Dec 2021 00:54

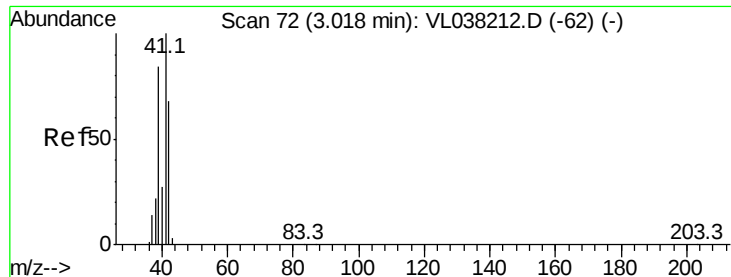
Tgt Ion: 50 Resp: 2483

Ion Ratio Lower Upper

50 100

52 29.4 26.2 39.2





#9

Propene

Concen: 0.151 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

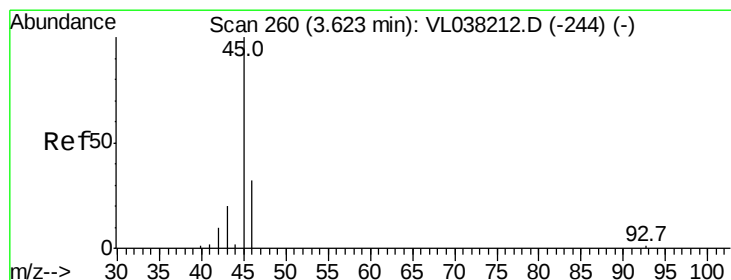
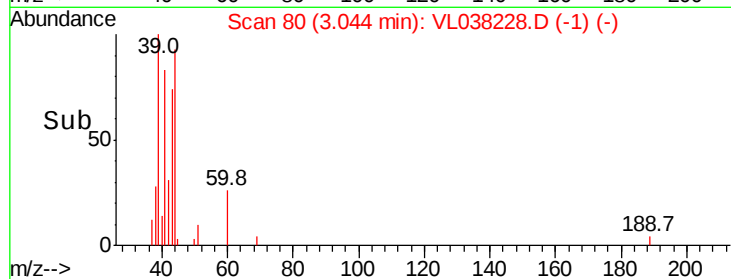
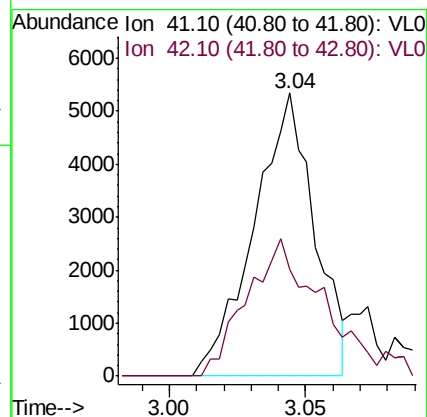
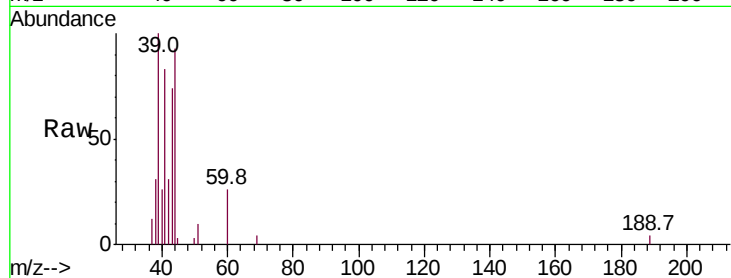
Acq: 22 Dec 2021 00:54

Tot Ion: 41 Resp: 8237

Ion Ratio Lower Upper

41 100

42 63.1 55.5 83.3



#13

Ethanol

Concen: 0.474 ppbv

RT: 3.64 min Scan# 265

Delta R.T. 0.02 min

Lab File: VL038228.D

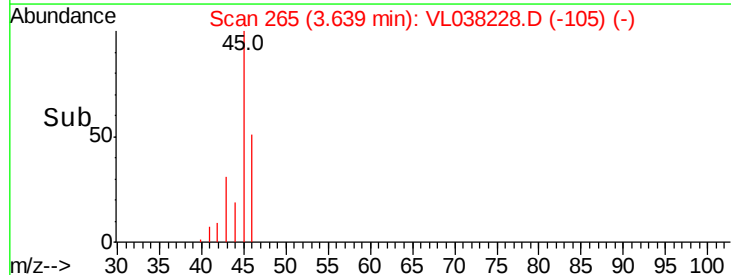
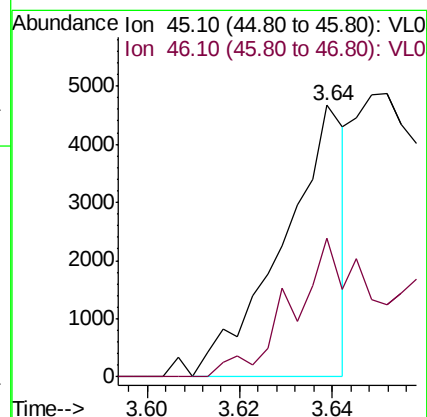
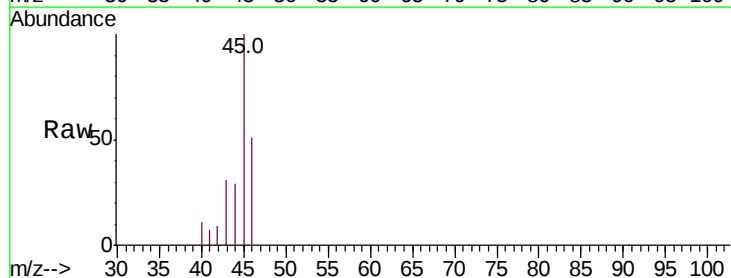
Acq: 22 Dec 2021 00:54

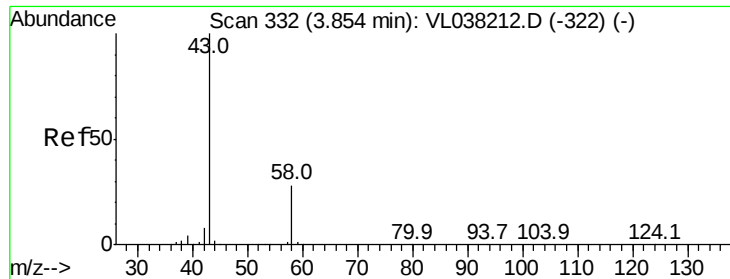
Tgt Ion: 45 Resp: 4381

Ion Ratio Lower Upper

45 100

46 120.8 0.0 0.0#





#15

Acetone

Concen: 0.385 ppbv

RT: 3.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

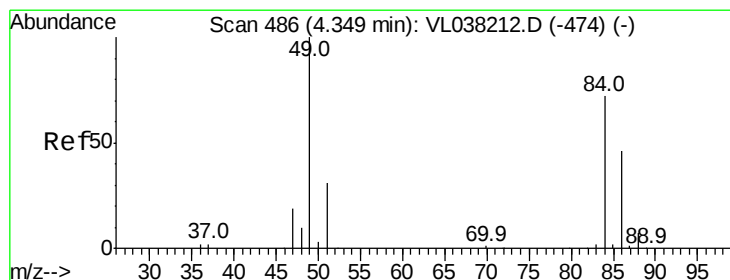
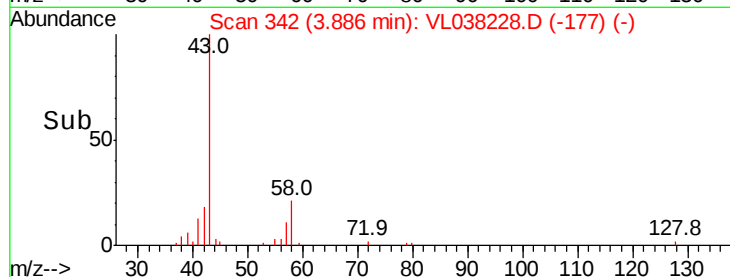
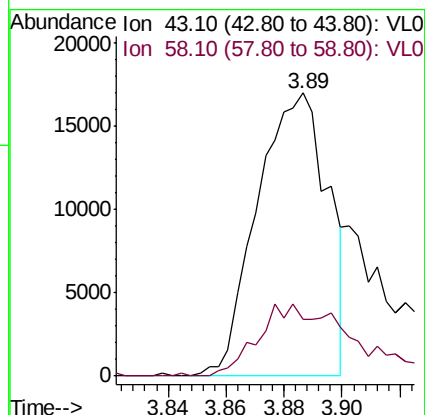
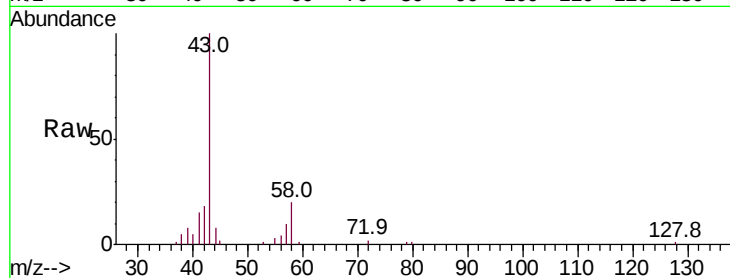
Acq: 22 Dec 2021 00:54

Tot Ion: 43 Resp: 28869

Ion Ratio Lower Upper

43 100

58 37.1 23.3 34.9#



#20

Methylene Chloride

Concen: 2.964 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.02 min

Lab File: VL038228.D

Acq: 22 Dec 2021 00:54

Tgt Ion: 84 Resp: 125530

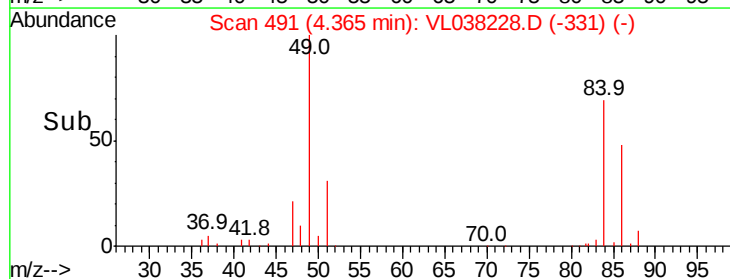
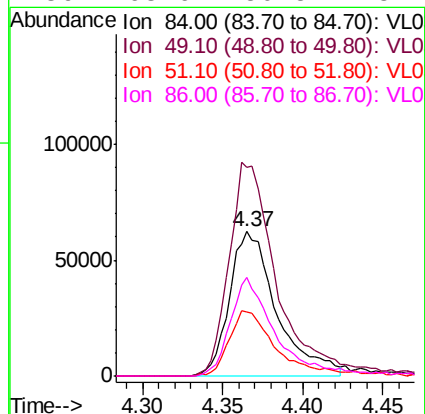
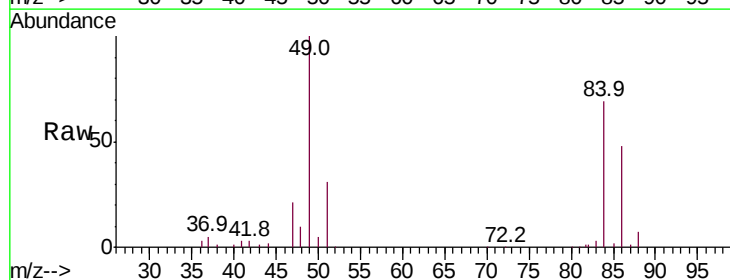
Ion Ratio Lower Upper

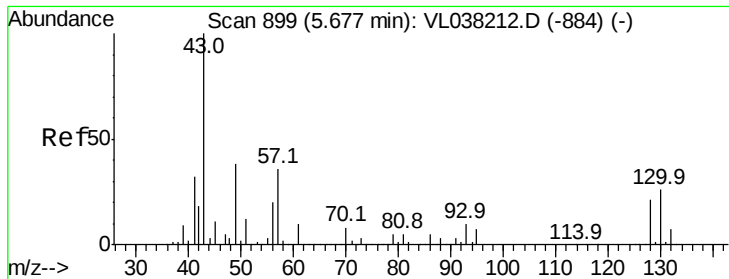
84 100

49 144.2 110.6 166.0

51 44.4 34.2 51.2

86 68.6 50.5 75.7





#25

Ethyl Acetate

Concen: 0.089 ppbv

RT: 5.70 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Dec 2021 00:54

Tot Ion: 43 Resp: 18130

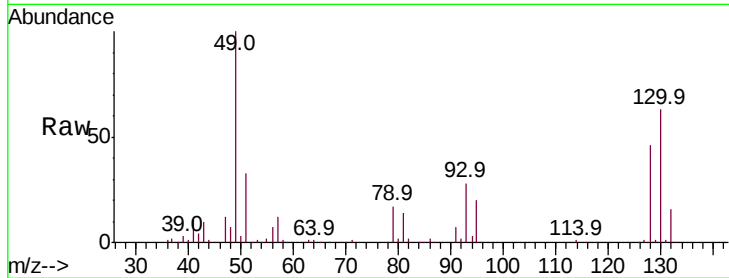
Ion Ratio Lower Upper

43 100

45 0.7 7.9 11.9#

61 0.0 8.1 12.1#

70 2.7 5.5 8.3#



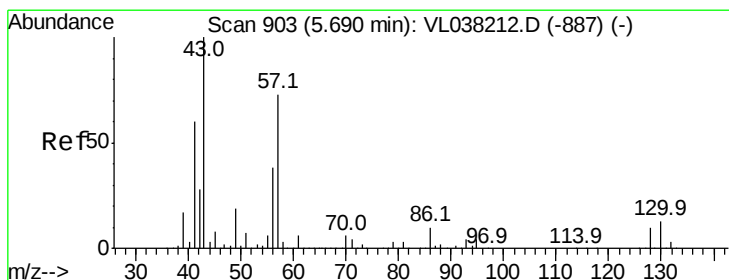
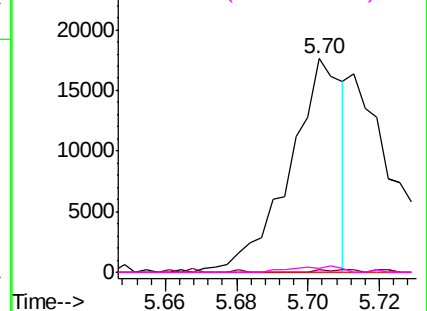
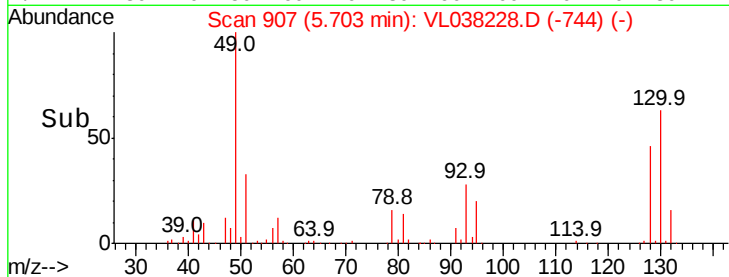
Abundance

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: 0.445 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.02 min

Lab File: VL038228.D

Acq: 22 Dec 2021 00:54

Tgt Ion: 57 Resp: 45392

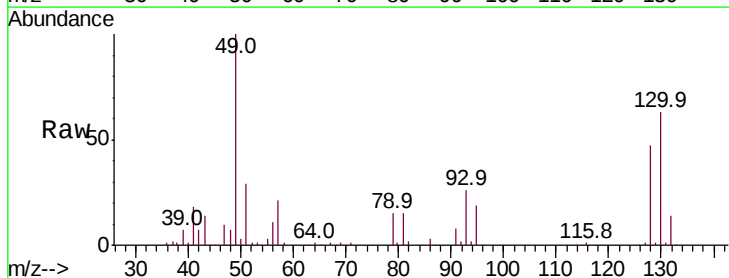
Ion Ratio Lower Upper

57 100

41 98.6 69.0 103.6

43 78.8 171.2 256.8#

56 59.5 41.5 62.3



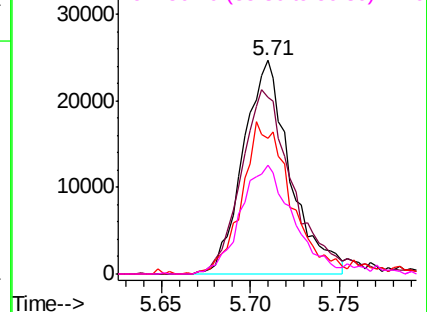
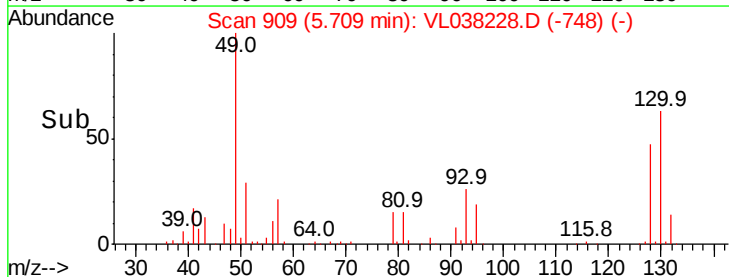
Abundance

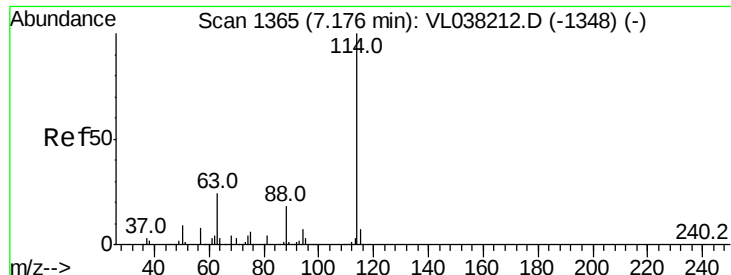
Ion 57.10 (56.80 to 57.80): VL0

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: 7.19

Instrument: MSVOA_L

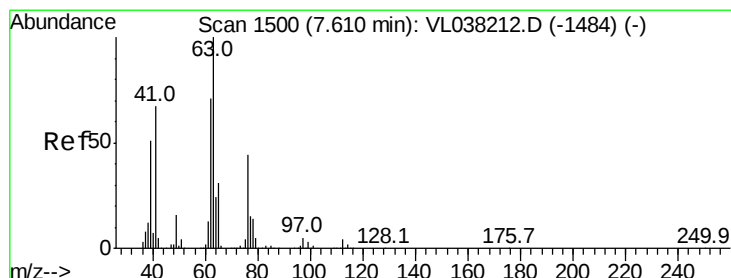
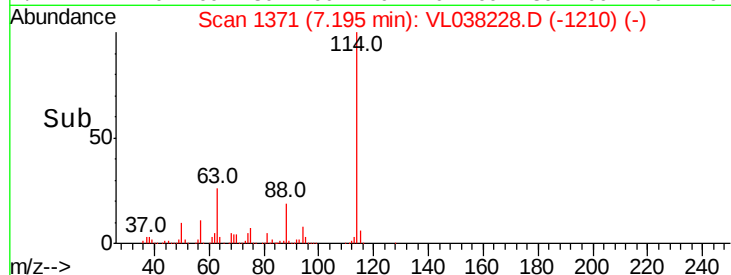
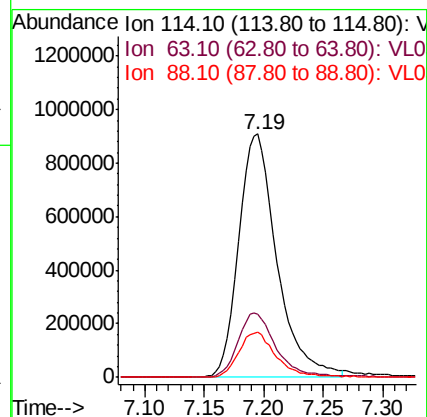
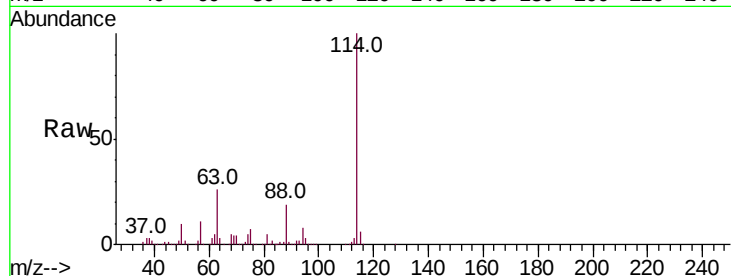
Delta R.T.

Lab File: ClientSampleId:

Acq: 22 Dec 2021 00:54

Tot Ion: 114 Resp: 2023208

Ion	Ratio	Lower	Upper
114	100		
63	26.9	19.7	29.5
88	18.8	14.3	21.5



#39

1,2-Dichloropropane

Concen: 7.301 ppbv

RT: 7.19 min Scan# 1370

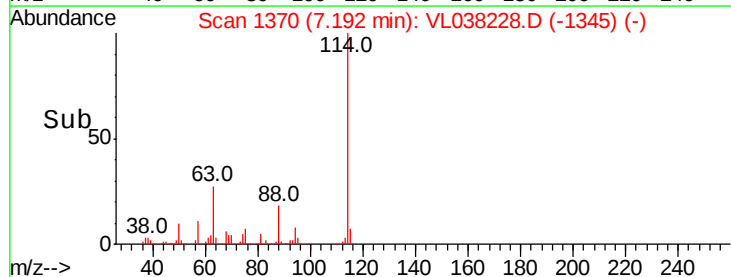
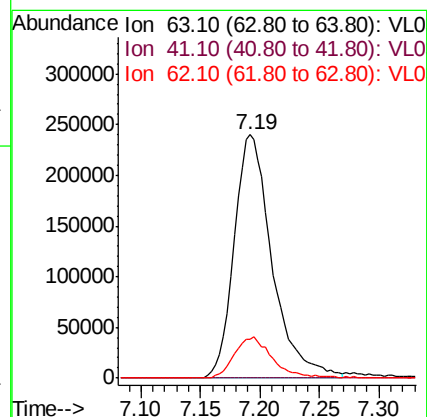
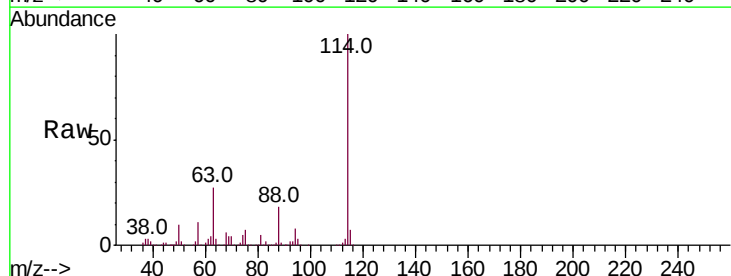
Delta R.T. -0.42 min

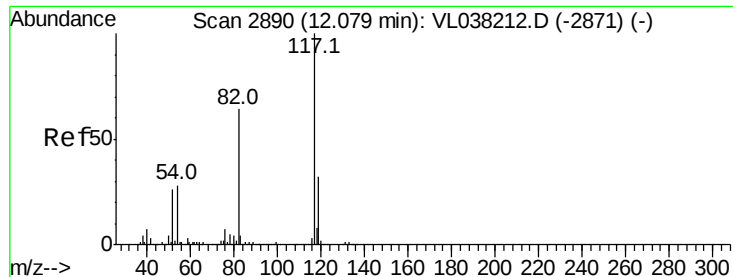
Lab File: VL038228.D

Acq: 22 Dec 2021 00:54

Tgt Ion: 63 Resp: 530288

Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.4	80.2#
62	16.2	56.5	84.7#

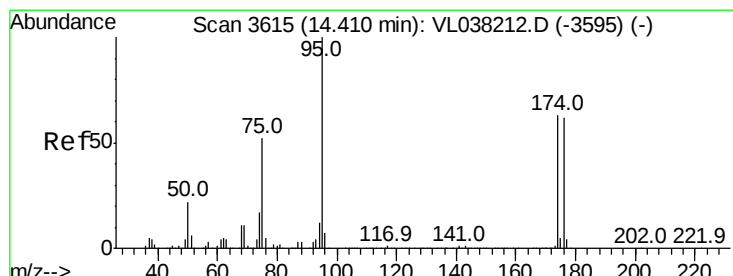
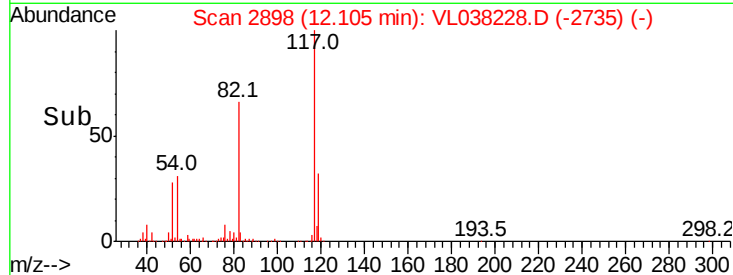
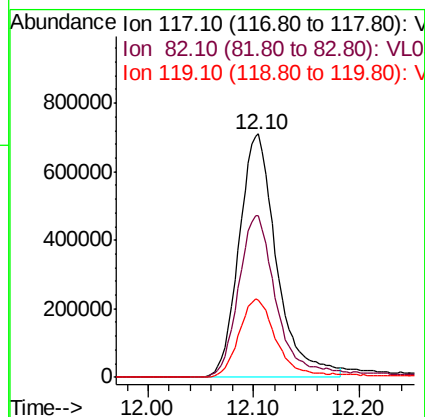
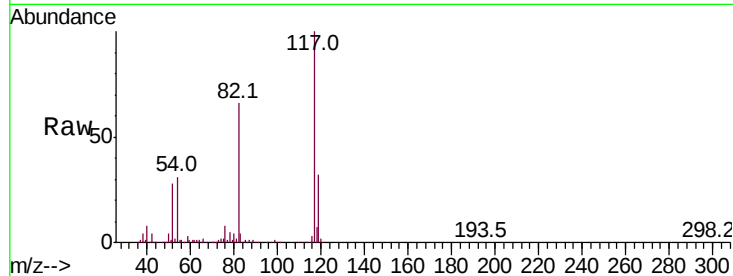




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 22 Dec 2021 00:54

Tot Ion: 117 Resp: 1759117

Ion	Ratio	Lower	Upper
117	100		
82	72.1	53.3	79.9
119	33.2	25.5	38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.385 ppbv
RT: 14.43 min Scan# 3622
Delta R.T.: 0.02 min
Lab File: VL038228.D
Acq: 22 Dec 2021 00:54

Tgt Ion: 95 Resp: 1407729

Ion	Ratio	Lower	Upper
95	100		
174	61.6	54.6	81.8
175	4.3	4.1	6.1

