

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038099.D
 Acq On : 23 Nov 2021 14:44
 Operator : SY/AP
 Sample : M4805-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PURE-BARREDL

Quant Time: Nov 24 06:54:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	976613	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2653261	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2298976	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1793917	10.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.20%

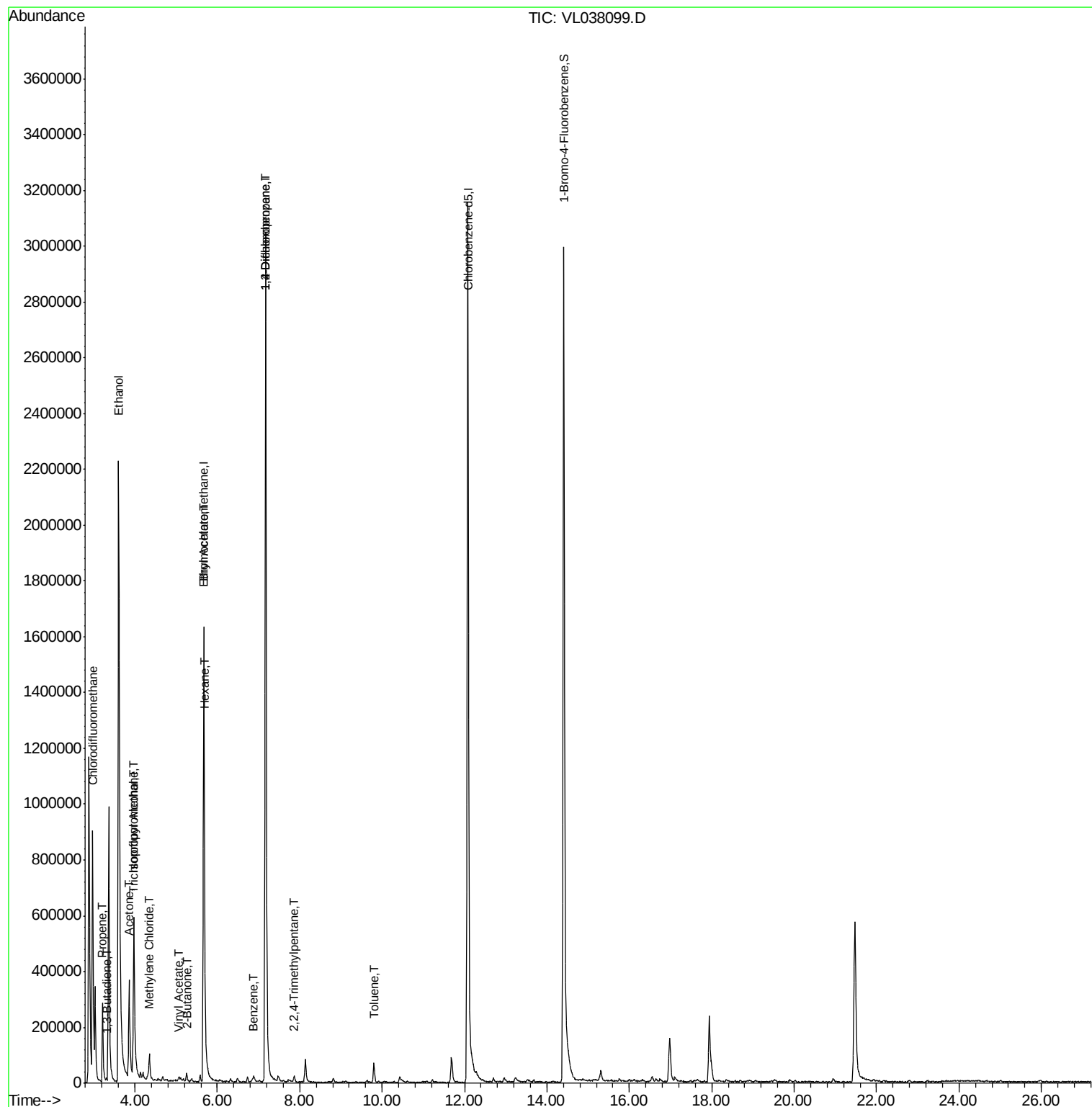
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	757291	3.692	ppbv #	61
9) Propene	3.21	41	99307	1.315	ppbv	95
11) Trichlorofluoromethane	3.95	101	35868	0.234	ppbv	95
13) Ethanol	3.61	45	3279864	449.342	ppbv	90
15) Acetone	3.85	43	447036	5.280	ppbv	99
16) 1,3-Butadiene	3.31	39	3657	0.055	ppbv #	9
19) Isopropyl Alcohol	3.97	45	775558	12.677	ppbv	100
20) Methylene Chloride	4.35	84	36558	0.771	ppbv #	94
23) Vinyl Acetate	5.07	43	8491	0.069	ppbv #	58
25) Ethyl Acetate	5.68	43	23318	0.083	ppbv #	75
26) Hexane	5.69	57	30208	0.223	ppbv #	76
34) 2-Butanone	5.25	43	29911	0.280	ppbv #	86
36) Benzene	6.89	78	10514	0.040	ppbv #	76
39) 1,2-Dichloropropane	7.17	63	662736	6.528	ppbv #	27
44) 2,2,4-Trimethylpentane	7.87	57	17546	0.040	ppbv #	80
53) Toluene	9.80	91	48203	0.158	ppbv	98

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

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-PURE-BARREDL

Acq: 23 Nov 2021 14:44

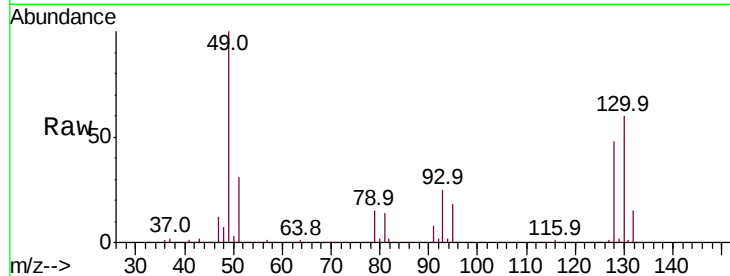
Tot Ion: 49 Resp: 976613

Ion Ratio Lower Upper

49 100

128 48.2 26.5 79.5

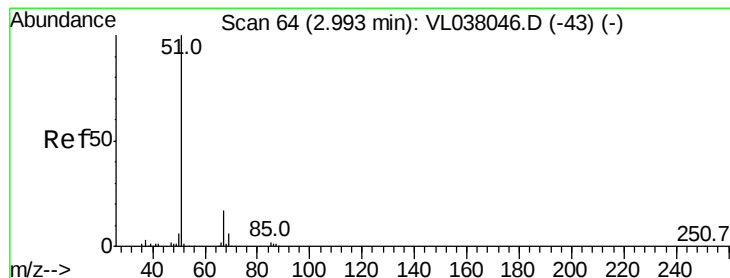
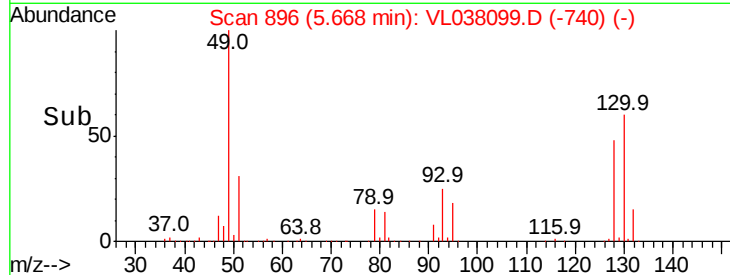
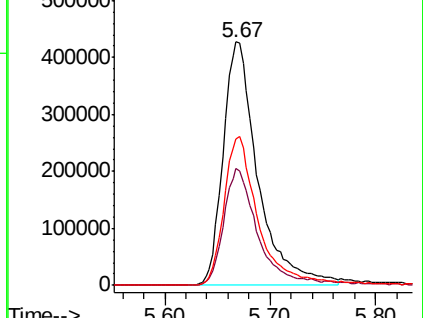
130 61.2 32.5 97.4



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



#3

Chlorodifluoromethane

Concen: 3.692 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL038099.D

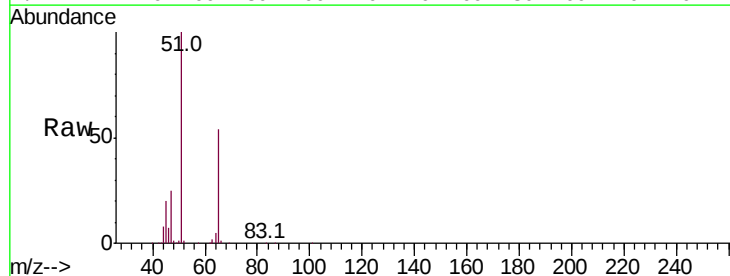
Acq: 23 Nov 2021 14:44

Tgt Ion: 51 Resp: 757291

Ion Ratio Lower Upper

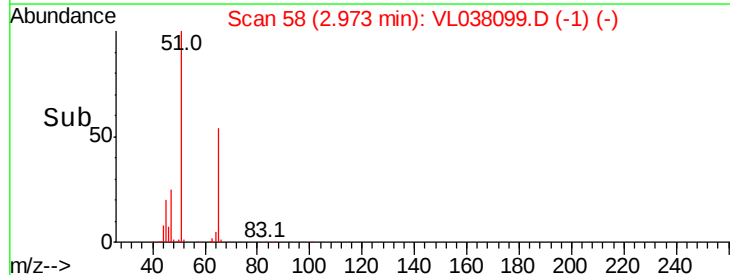
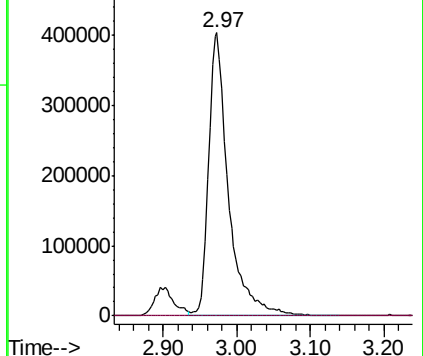
51 100

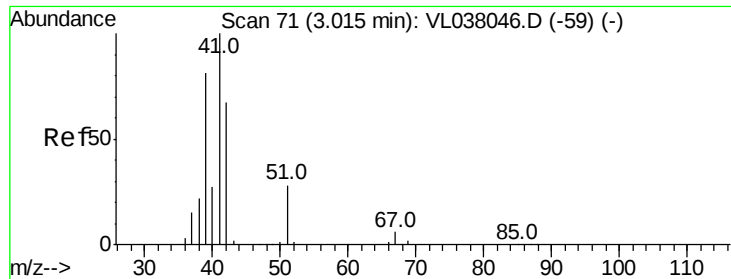
67 0.2 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.315 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

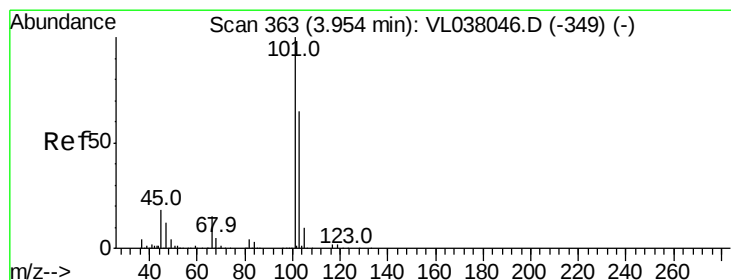
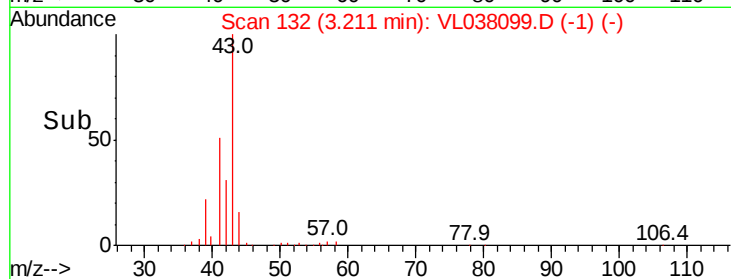
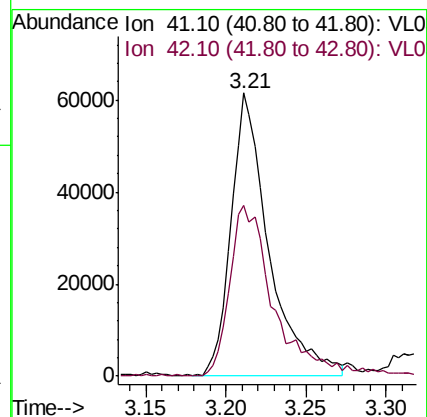
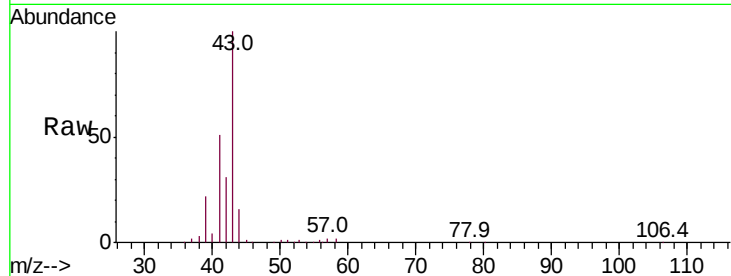
Acq: 23 Nov 2021 14:44

Tot Ion: 41 Resp: 99307

Ion Ratio Lower Upper

41 100

42 71.4 53.8 80.8



#11

Trichlorofluoromethane

Concen: 0.234 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL038099.D

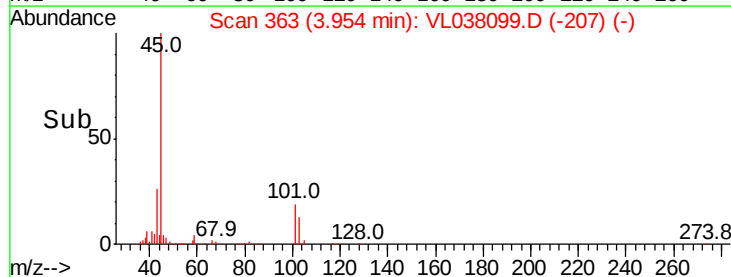
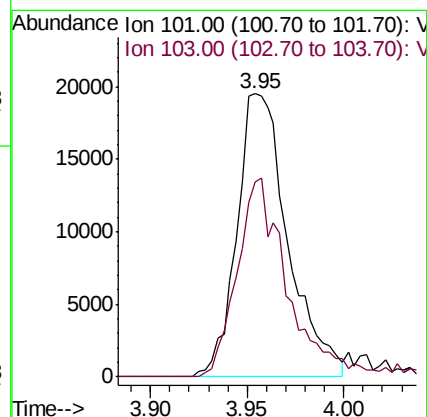
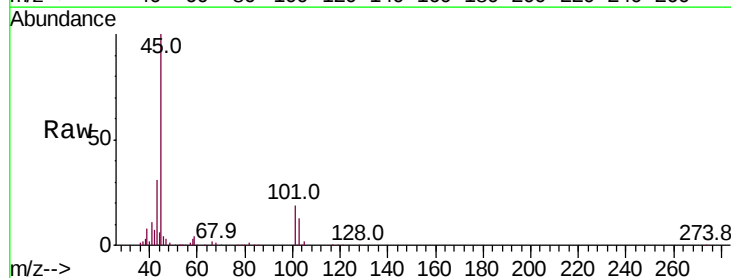
Acq: 23 Nov 2021 14:44

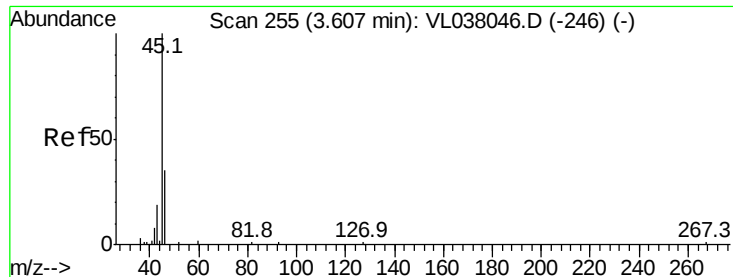
Tgt Ion: 101 Resp: 35868

Ion Ratio Lower Upper

101 100

103 69.0 51.8 77.6





#13

Ethanol

Concen: 449.342 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

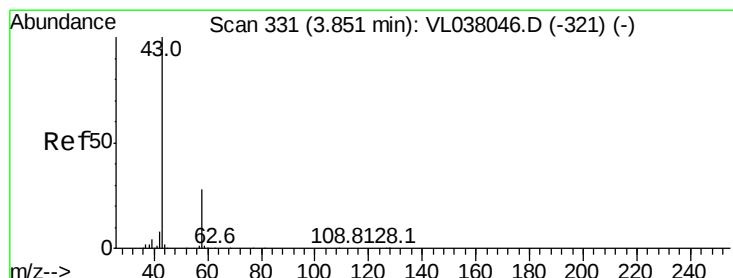
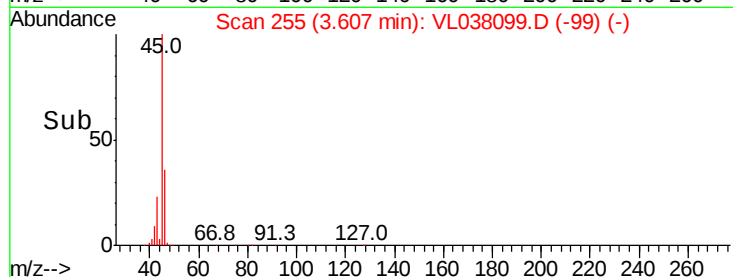
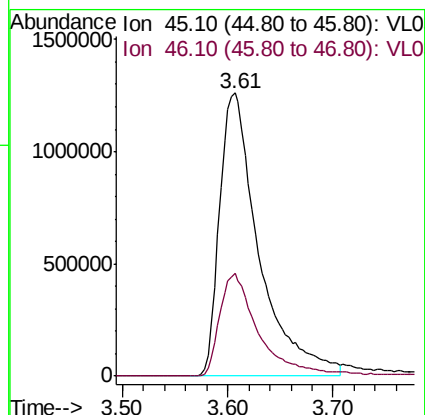
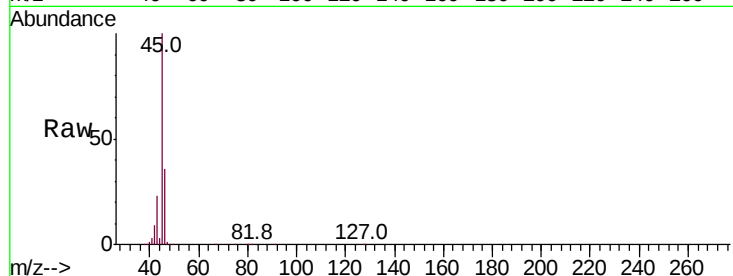
Acq: 23 Nov 2021 14:44

Tot Ion: 45 Resp: 3279864

Ion Ratio Lower Upper

45 100

46 37.5 17.6 70.2



#15

Acetone

Concen: 5.280 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL038099.D

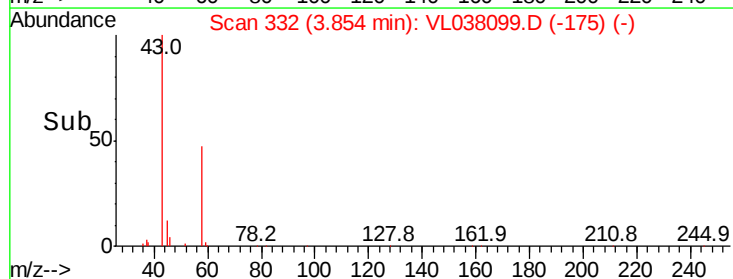
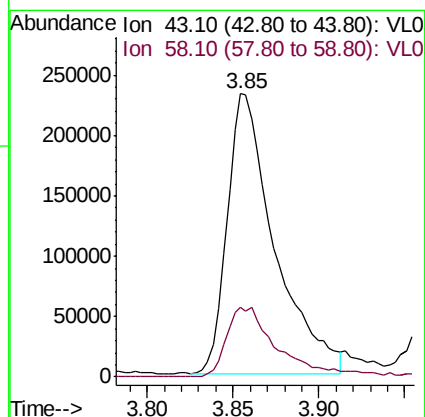
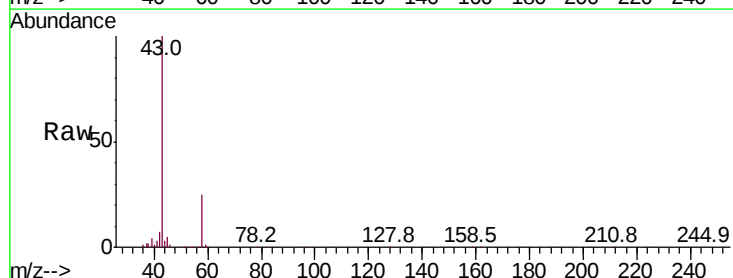
Acq: 23 Nov 2021 14:44

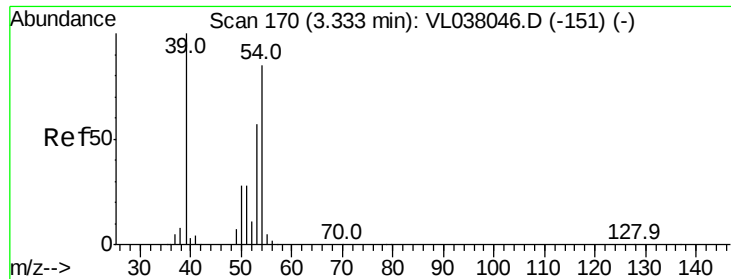
Tgt Ion: 43 Resp: 447036

Ion Ratio Lower Upper

43 100

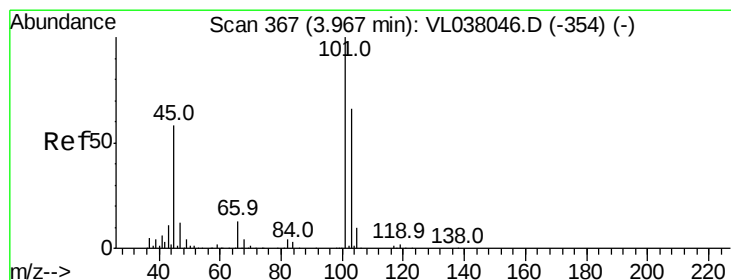
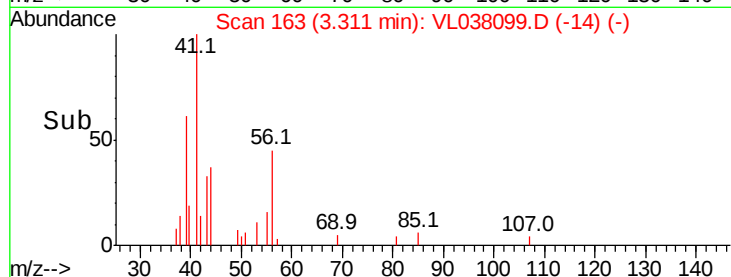
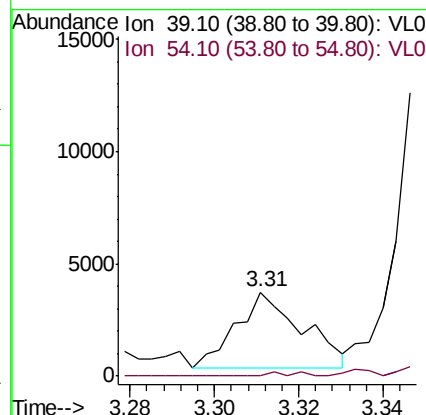
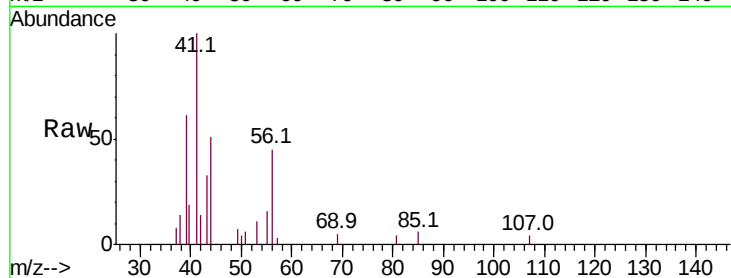
58 27.3 22.4 33.6





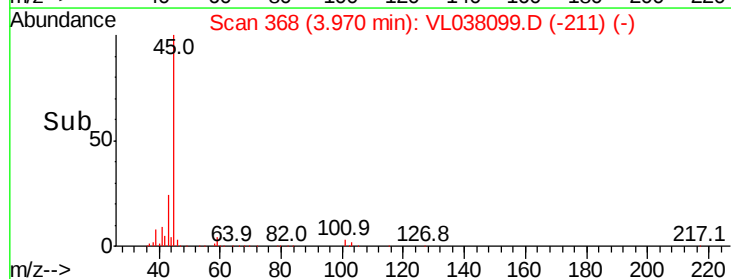
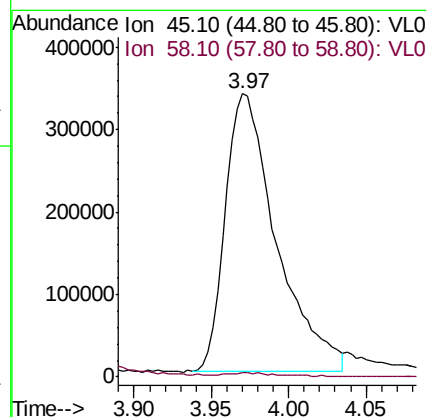
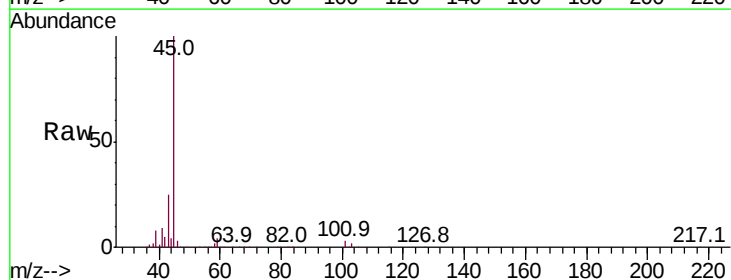
#16
 1,3-Butadiene
 Concen: 0.055 ppbv
 RT: 3.31 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: IA-PURE-BARREDL
 Acq: 23 Nov 2021 14:44

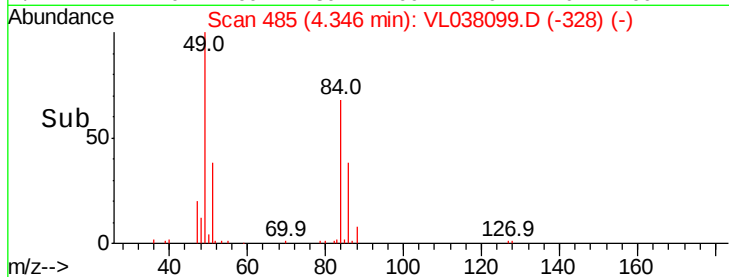
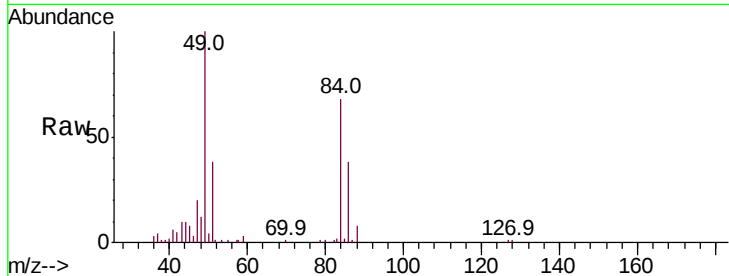
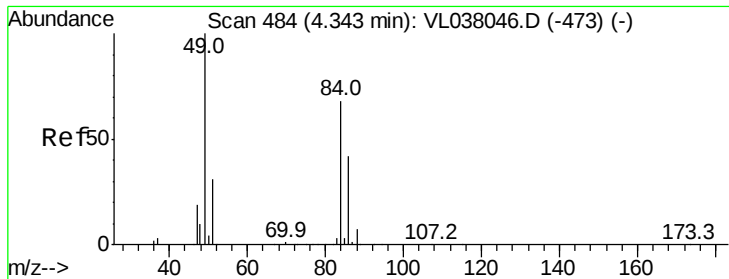
Tot Ion: 39 Resp: 3657
 Ion Ratio Lower Upper
 39 100
 54 0.0 64.4 96.6#



#19
 Isopropyl Alcohol
 Concen: 12.677 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VL038099.D
 Acq: 23 Nov 2021 14:44

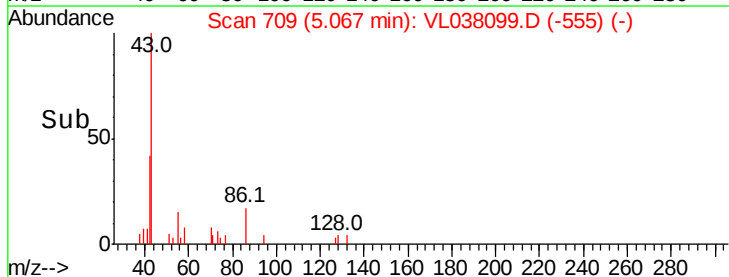
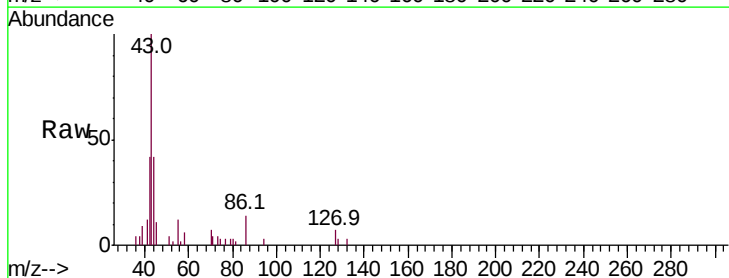
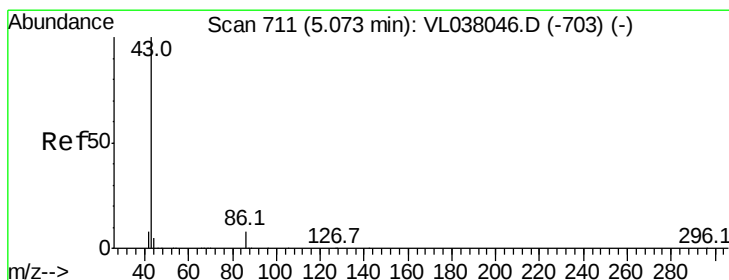
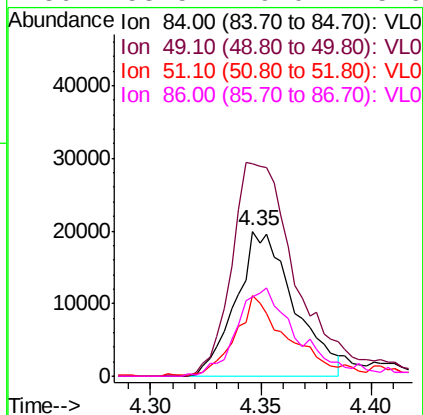
Tgt Ion: 45 Resp: 775558
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.0





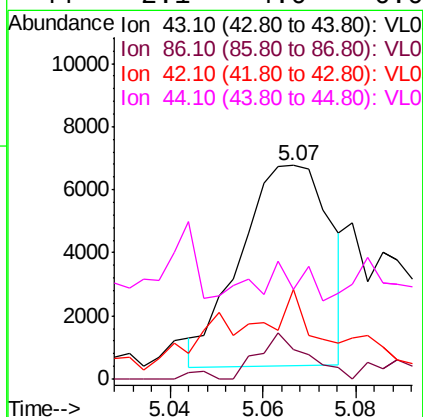
#20
Methvlene Chloride
Concen: 0.771 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 14:44

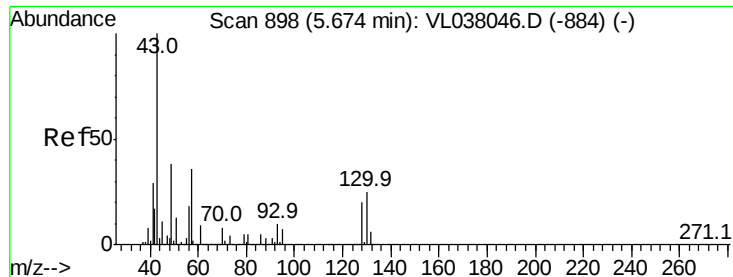
Tot Ion:	84	Resp:	36558
Ion	Ratio	Lower	Upper
84	100		
49	146.3	118.2	177.2
51	56.2	36.8	55.2#
86	53.5	49.0	73.6



#23
Vinyl Acetate
Concen: 0.069 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL038099.D
Acq: 23 Nov 2021 14:44

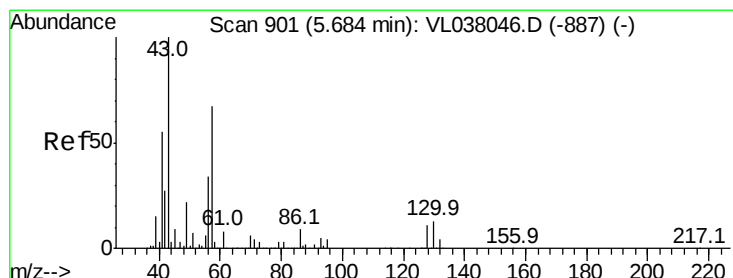
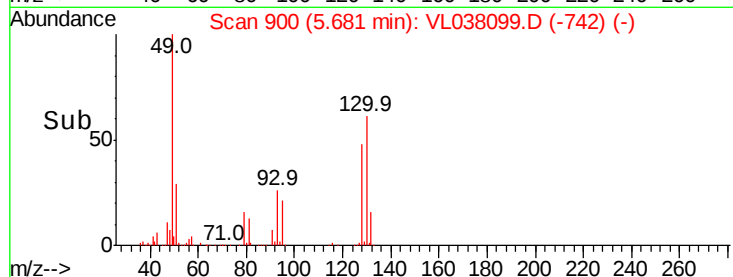
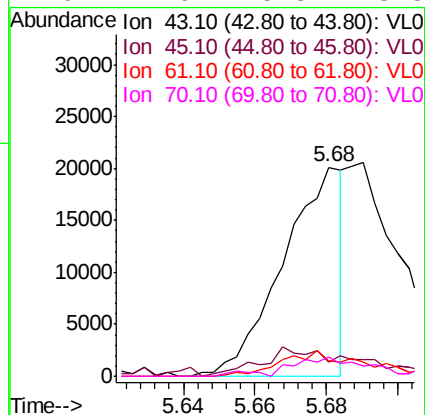
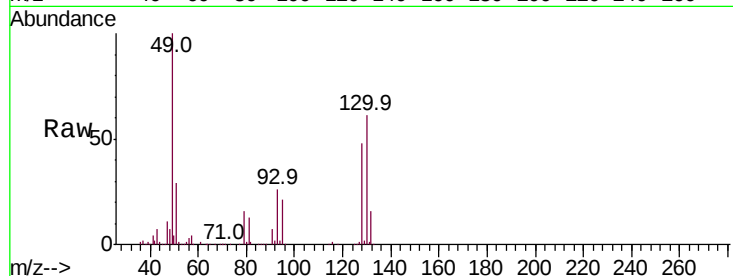
Tgt Ion:	43	Resp:	8491
Ion	Ratio	Lower	Upper
43	100		
86	13.4	5.3	7.9#
42	36.7	7.0	10.6#
44	2.1	4.0	6.0#





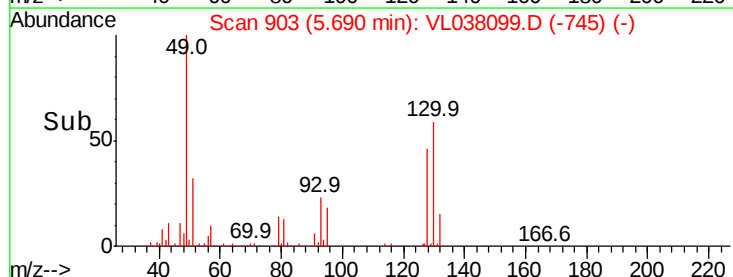
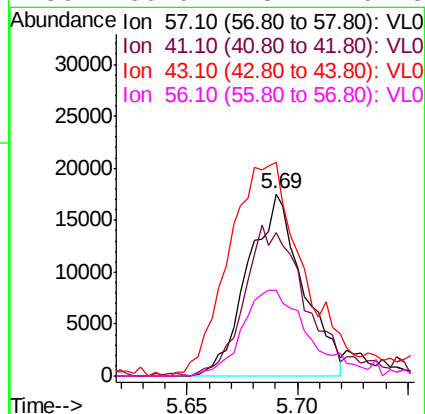
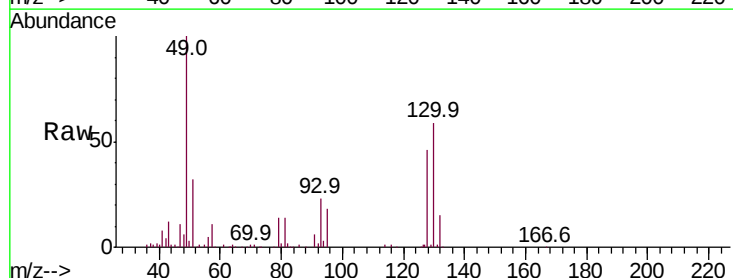
#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 14:44

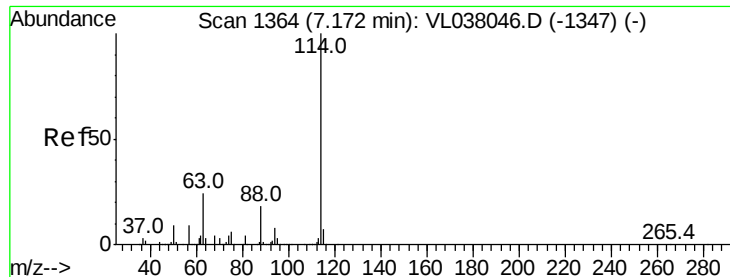
Tot Ion	Ratio	Lower	Upper
43	100		
45	22.6	7.9	11.9#
61	18.0	7.8	11.6#
70	12.6	5.8	8.8#



#26
Hexane
Concen: 0.223 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038099.D
Acq: 23 Nov 2021 14:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	100.2	71.4	107.2
43	167.2	174.6	261.8#
56	60.9	43.2	64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 14:44

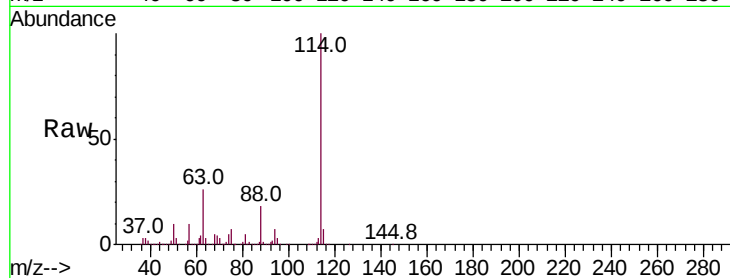
Tot Ion:114 Resp: 2653261

Ion Ratio Lower Upper

114 100

63 25.5 19.7 29.5

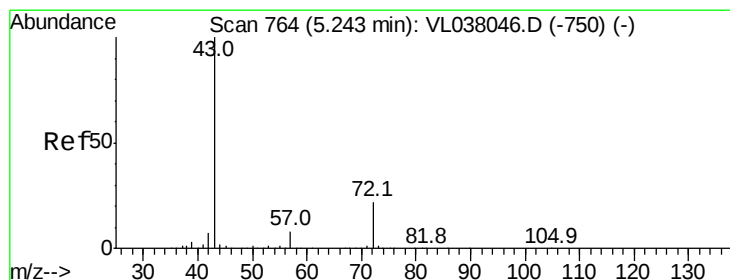
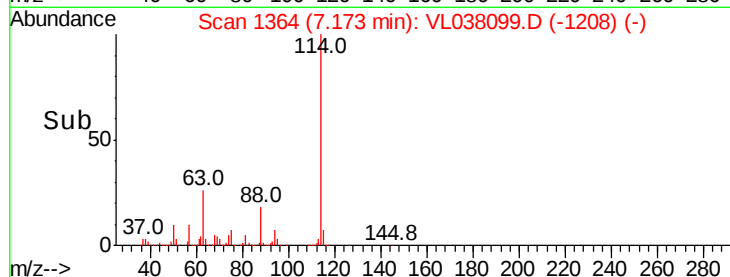
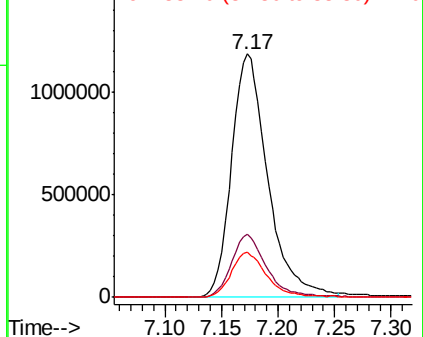
88 18.6 14.4 21.6



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: 0.280 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL038099.D

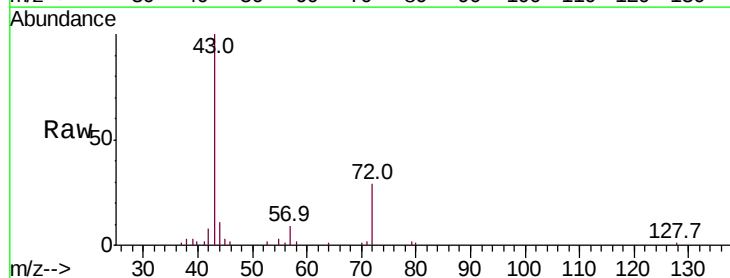
Acq: 23 Nov 2021 14:44

Tgt Ion: 43 Resp: 29911

Ion Ratio Lower Upper

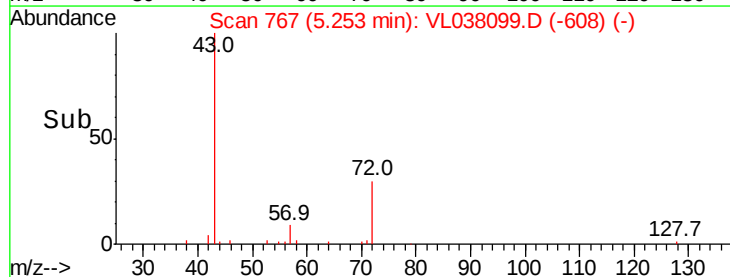
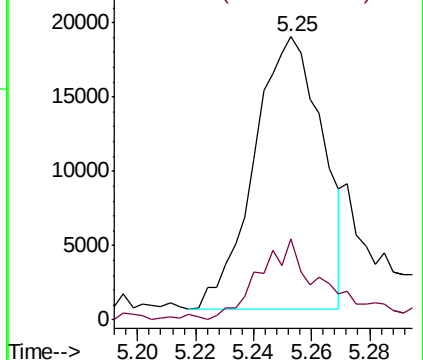
43 100

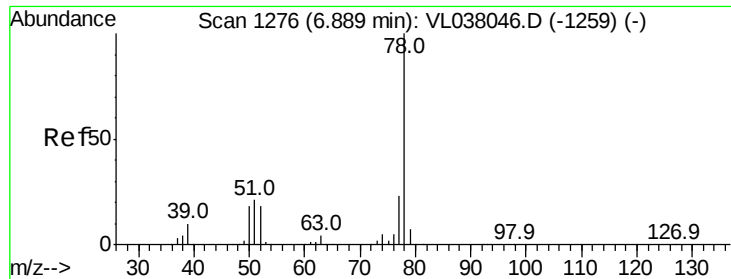
72 30.5 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

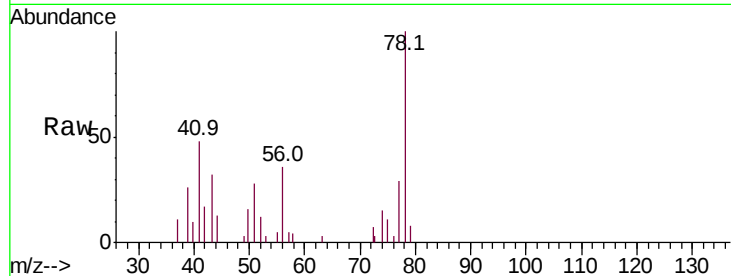
Ion 72.10 (71.80 to 72.80): VL0



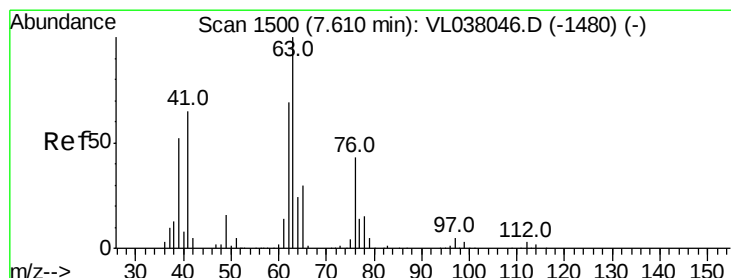
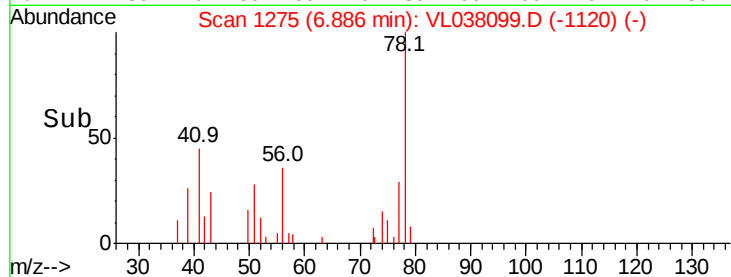
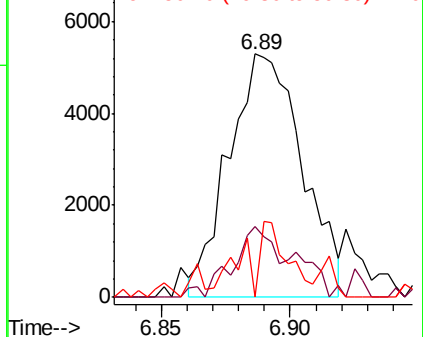


#36
Benzene
Concen: 0.040 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: IA-PURE-BARREDL
Acq: 23 Nov 2021 14:44

Tot Ion: 78 Resp: 10514
Ion Ratio Lower Upper
78 100
77 27.4 18.2 27.4#
50 0.0 14.7 22.1#

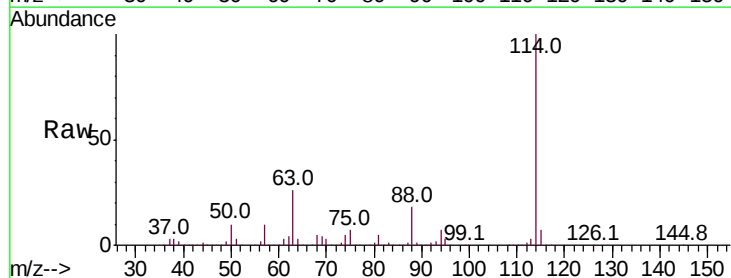


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

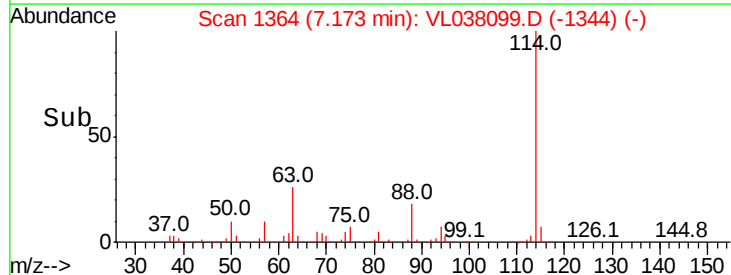
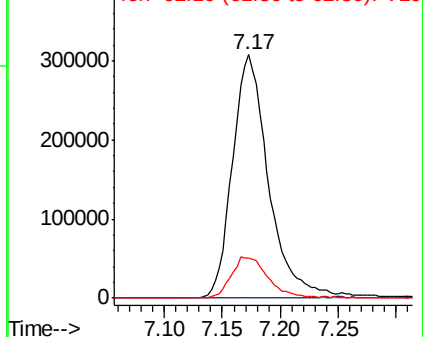


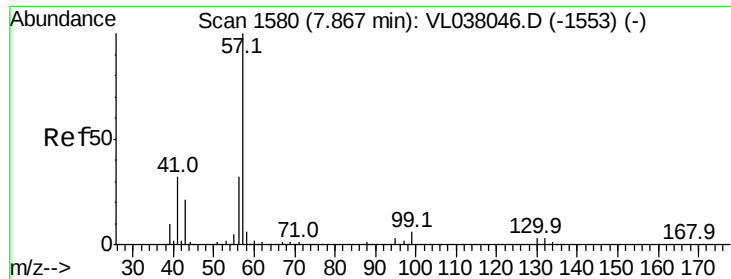
#39
1,2-Dichloropropane
Concen: 6.528 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.44 min
Lab File: VL038099.D
Acq: 23 Nov 2021 14:44

Tgt Ion: 63 Resp: 662736
Ion Ratio Lower Upper
63 100
41 0.0 52.3 78.5#
62 16.5 55.1 82.7#



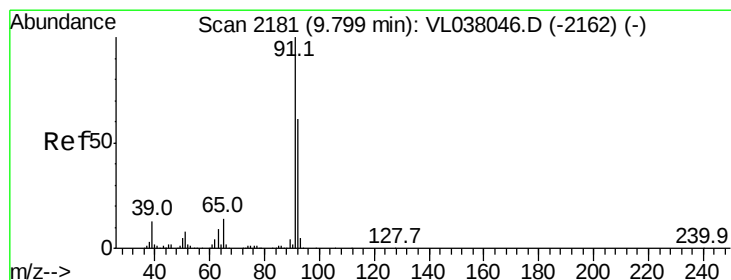
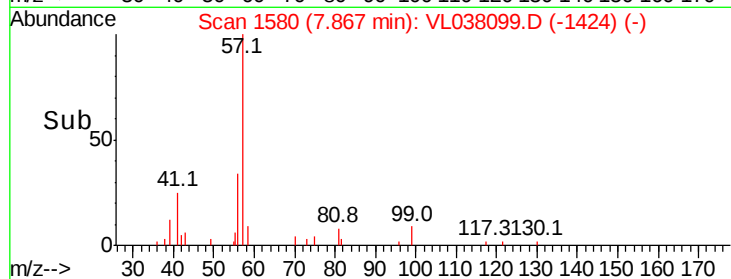
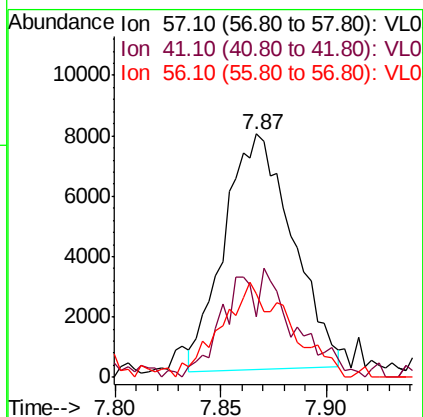
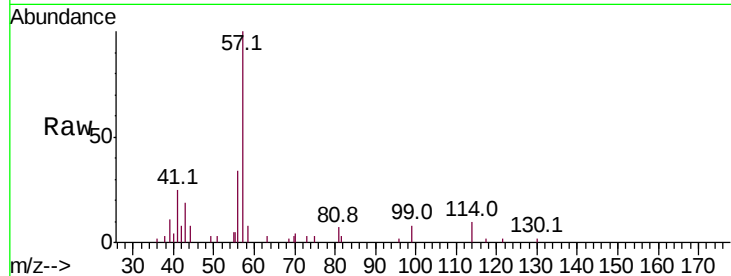
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0





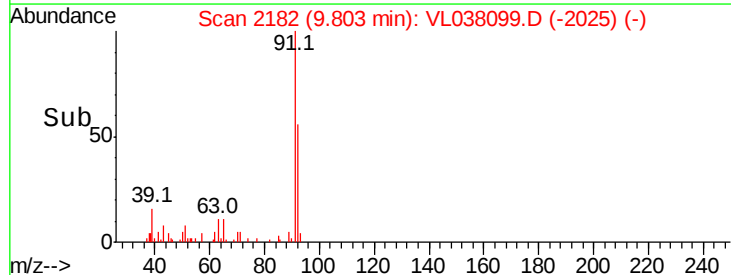
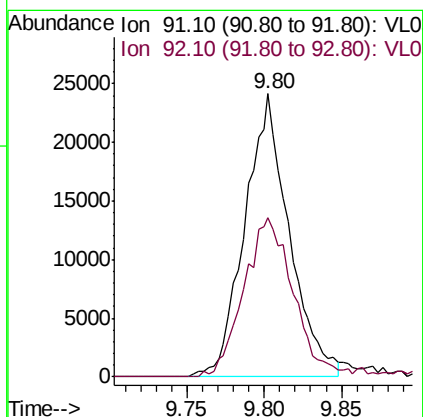
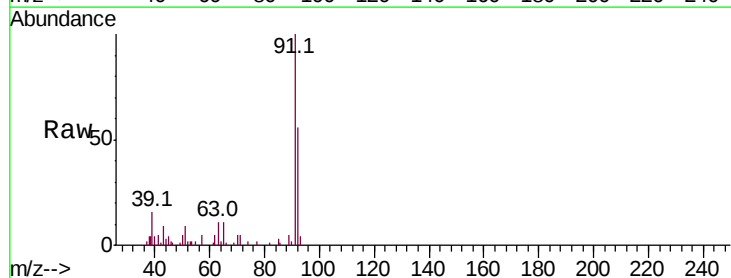
#44
 2,2,4-Trimethylpentane
 Concen: 0.040 ppbv
 RT: 7.87
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId:
 Acq: 23 Nov 2021 14:44

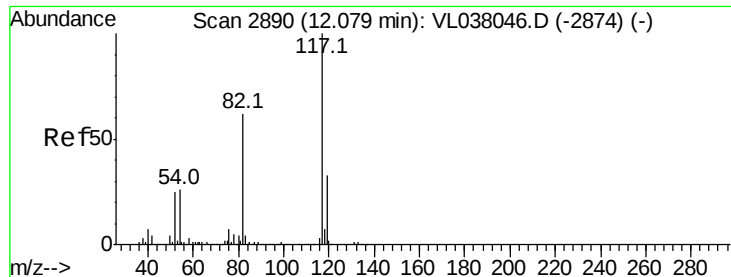
Tot Ion: 57 Resp: 17546
 Ion Ratio Lower Upper
 57 100
 41 46.2 25.8 38.6#
 56 40.8 25.6 38.4#



#53
 Toluene
 Concen: 0.158 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. 0.00 min
 Lab File: VL038099.D
 Acq: 23 Nov 2021 14:44

Tgt Ion: 91 Resp: 48203
 Ion Ratio Lower Upper
 91 100
 92 63.3 49.7 74.5

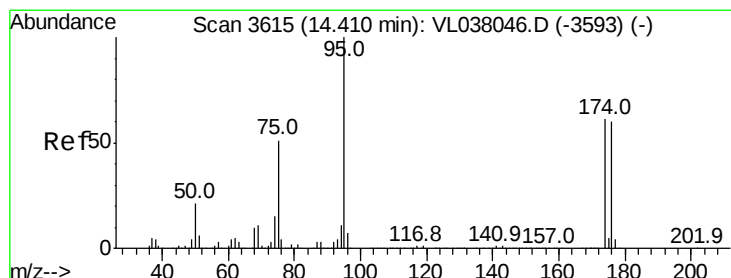
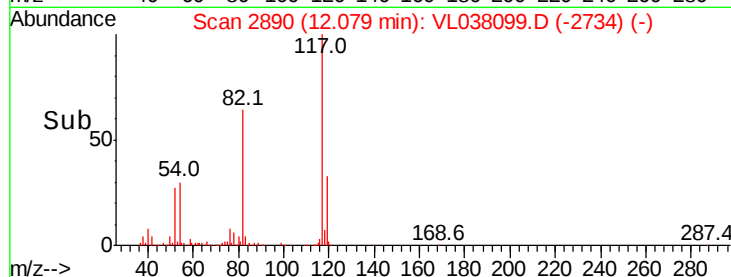
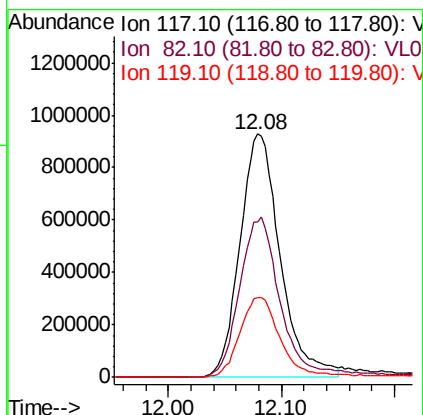
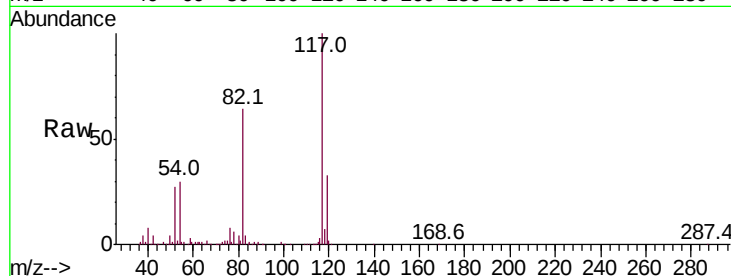




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.: 0.00 min
Lab File: ClientSampleId :
Acq: 23 Nov 2021 14:44

Tot Ion: 117 Resp: 2298976

Ion	Ratio	Lower	Upper
117	100		
82	70.5	52.8	79.2
119	34.3	26.8	40.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.818 ppbv
RT: 14.41 min Scan# 3615
Delta R.T.: 0.00 min
Lab File: VL038099.D
Acq: 23 Nov 2021 14:44

Tgt Ion: 95 Resp: 1793917

Ion	Ratio	Lower	Upper
95	100		
174	63.6	53.1	79.7
175	4.6	4.0	6.0

