

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072522\
 Data File : VL039531.D
 Acq On : 26 Jul 2022 00:51
 Operator : SY/AP
 Sample : N3842-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Jul 26 08:07:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1041033	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2874165	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	2446544	10.00	ppbv	0.02

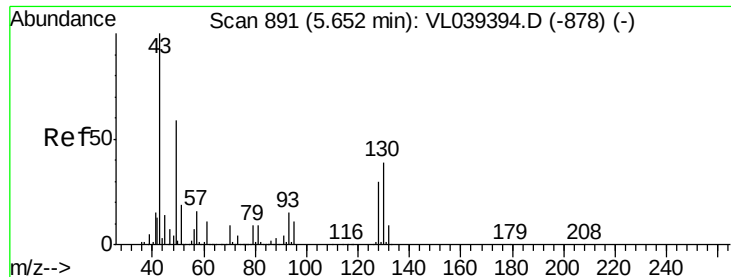
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1870006	10.30	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	33626	0.224 ppbv	91
3) Chlorodifluoromethane	3.00	51	90703	0.687 ppbv #	84
4) Chloromethane	3.15	50	40944	0.567 ppbv	88
9) Propene	3.02	41	53369	0.895 ppbv #	82
11) Trichlorofluoromethane	3.96	101	41491	0.248 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	8290	0.066 ppbv	93
13) Ethanol	3.60	45	287831	83.176 ppbv	76
15) Acetone	3.85	43	1811846	14.711 ppbv	98
16) 1,3-Butadiene	3.32	39	4907	0.077 ppbv #	65
19) Isopropyl Alcohol	3.96	45	2008334	30.571 ppbv #	94
20) Methylene Chloride	4.35	84	370284	7.543 ppbv	94
21) Allyl Chloride	4.36	41	3201	0.038 ppbv #	22
23) Vinyl Acetate	5.07	43	96091	1.167 ppbv #	81
25) Ethyl Acetate	5.69	43	229749	0.910 ppbv #	83
26) Hexane	5.69	57	146972	1.444 ppbv #	45
29) Chloroform	5.76	83	11435	0.065 ppbv	99
34) 2-Butanone	5.25	43	143404	0.991 ppbv	99
36) Benzene	6.90	78	19264	0.087 ppbv #	87
39) 1,2-Dichloropropane	7.18	63	709043	8.532 ppbv #	24
44) 2,2,4-Trimethylpentane	7.88	57	16701	0.044 ppbv #	14
53) Toluene	9.81	91	146833	0.572 ppbv	97
60) o-Xylene	13.69	91	31222	0.118 ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	53642	0.170 ppbv #	70
76) 1,4-Dichlorobenzene	17.14	146	10325	0.055 ppbv #	1

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

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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 26 Jul 2022 00:51

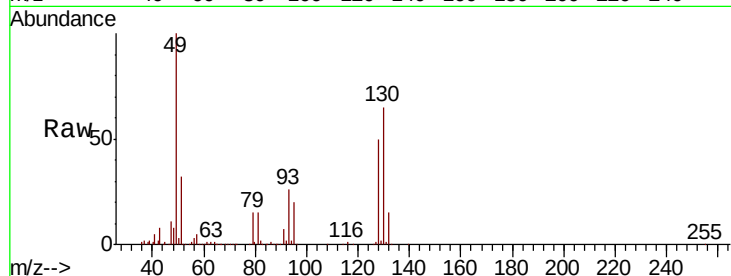
Tot Ion: 49 Resp: 1041033

Ion	Ratio	Lower	Upper
49	100		
128	53.6	26.7	80.0
130	69.2	34.3	102.8

49 100

128 53.6 26.7 80.0

130 69.2 34.3 102.8



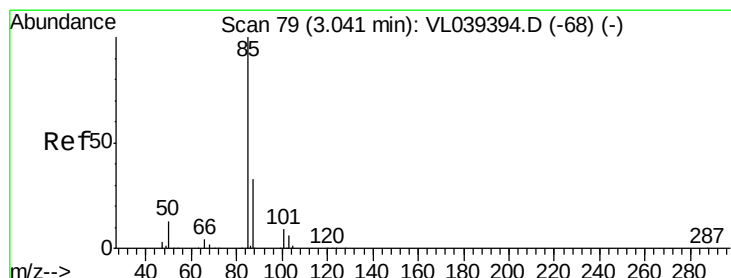
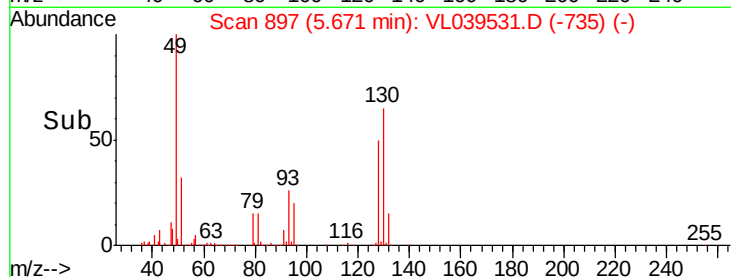
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 0.224 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL039531.D

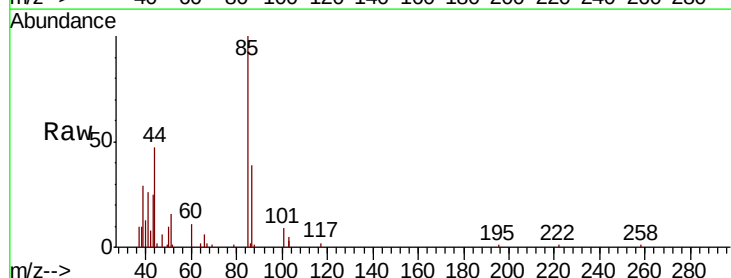
Acq: 26 Jul 2022 00:51

Tgt Ion: 85 Resp: 33626

Ion	Ratio	Lower	Upper
85	100		
87	38.5	26.7	40.1

85 100

87 38.5 26.7 40.1

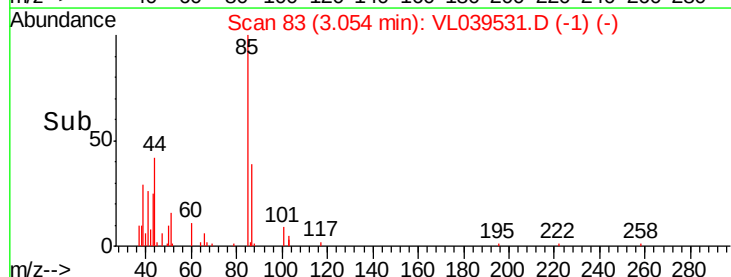


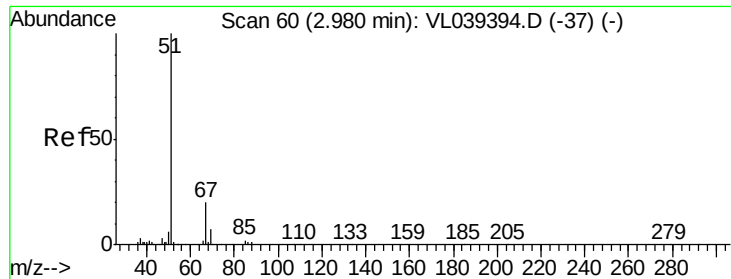
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

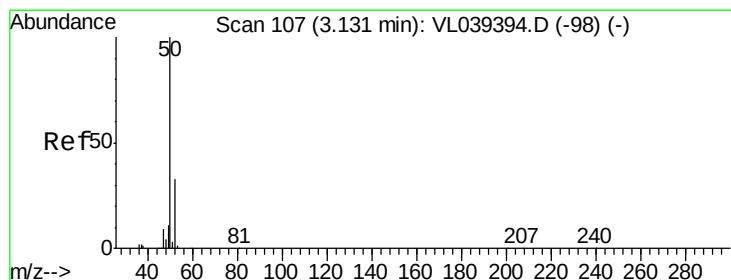
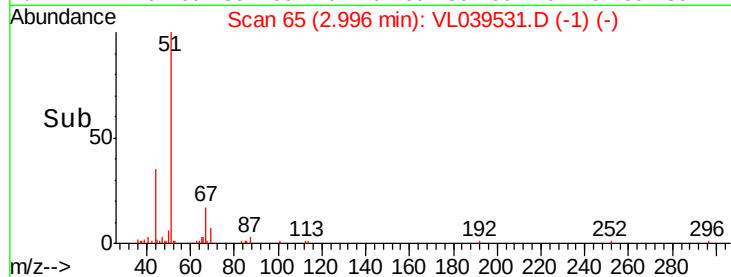
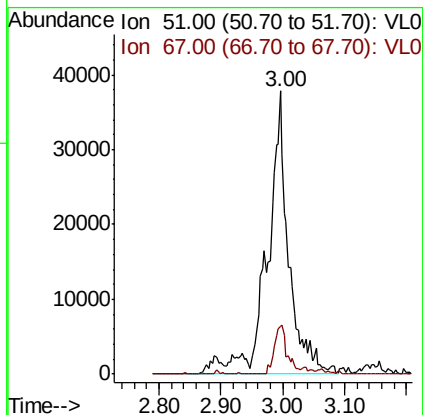
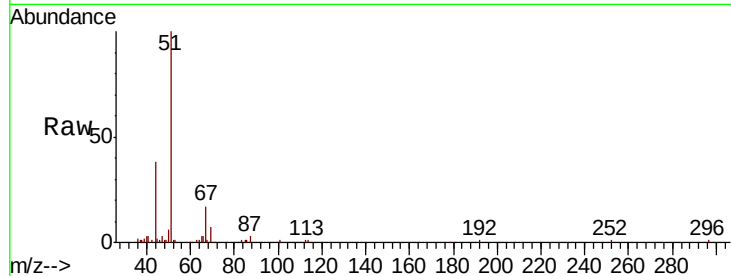
Time-->





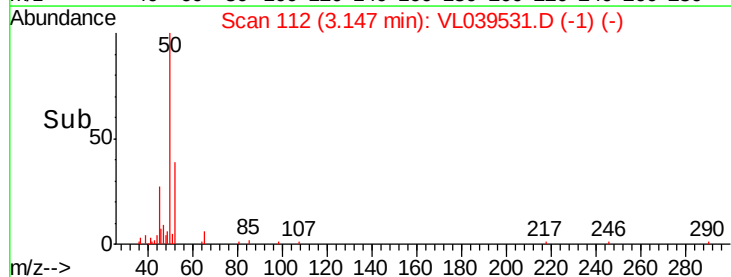
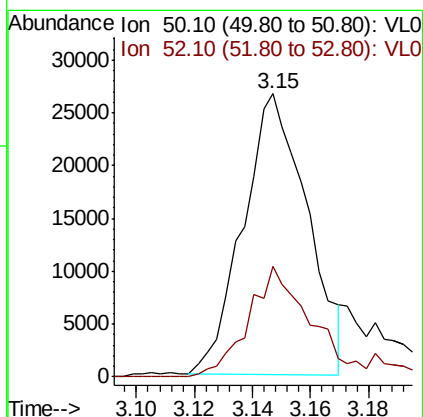
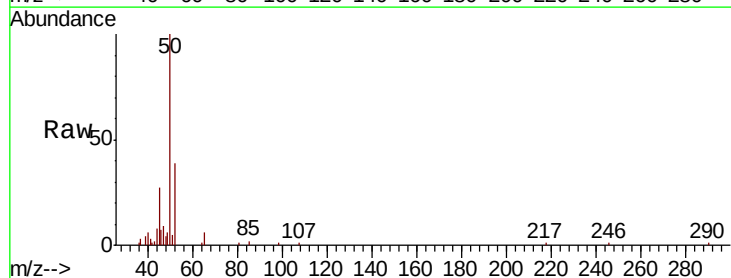
#3
 Chlorodifluoromethane
 Concen: 0.687 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jul 2022 00:51

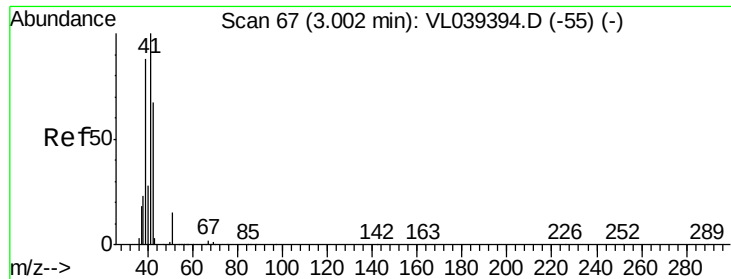
Tot Ion: 51 Resp: 90703
 Ion Ratio Lower Upper
 51 100
 67 12.5 15.7 23.5#



#4
 Chloromethane
 Concen: 0.567 ppbv
 RT: 3.15 min Scan# 112
 Delta R.T. 0.02 min
 Lab File: VL039531.D
 Acq: 26 Jul 2022 00:51

Tgt Ion: 50 Resp: 40944
 Ion Ratio Lower Upper
 50 100
 52 39.7 26.5 39.7





#9

Propene

Concen: 0.895 ppbv

RT: 3.02 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

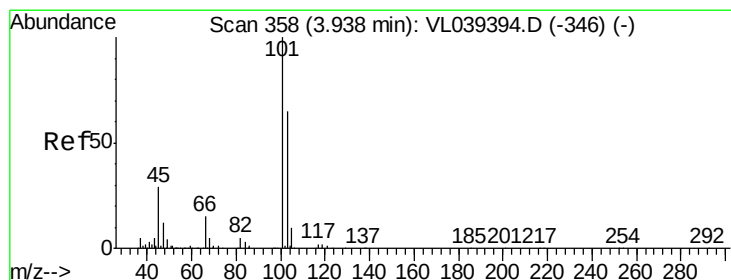
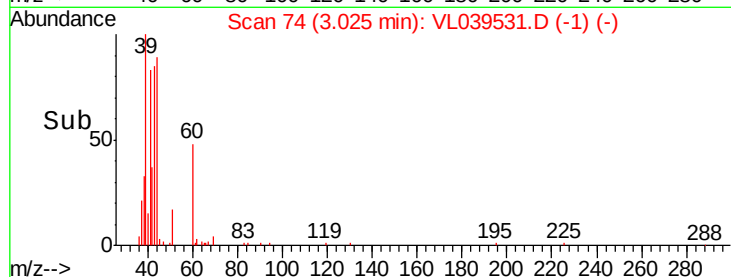
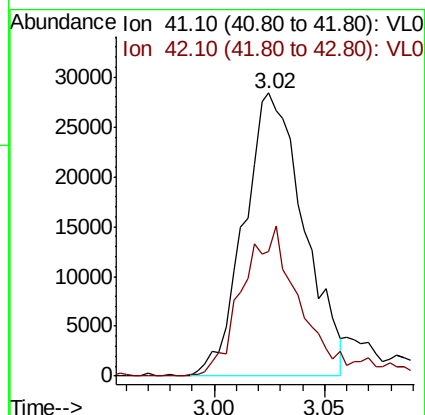
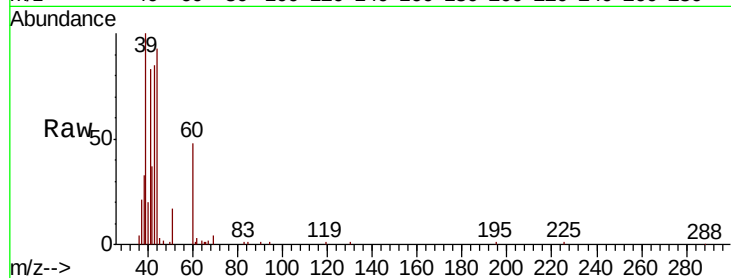
Acq: 26 Jul 2022 00:51

Tot Ion: 41 Resp: 53369

Ion Ratio Lower Upper

41 100

42 54.0 55.2 82.8#



#11

Trichlorofluoromethane

Concen: 0.248 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL039531.D

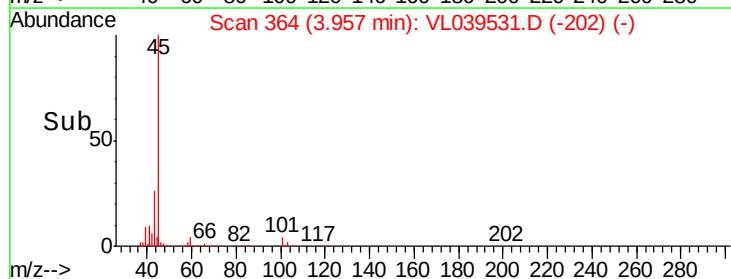
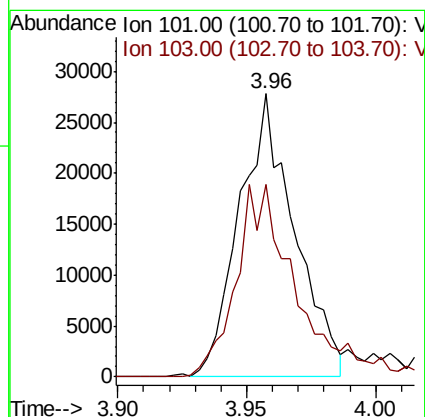
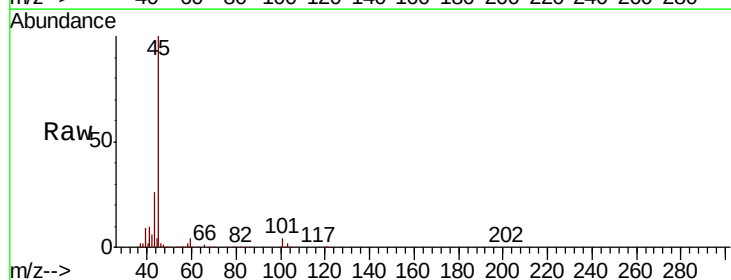
Acq: 26 Jul 2022 00:51

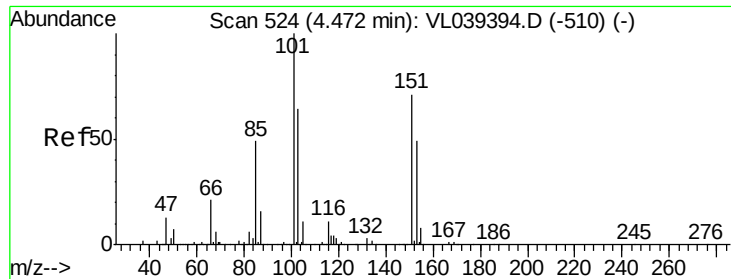
Tgt Ion: 101 Resp: 41491

Ion Ratio Lower Upper

101 100

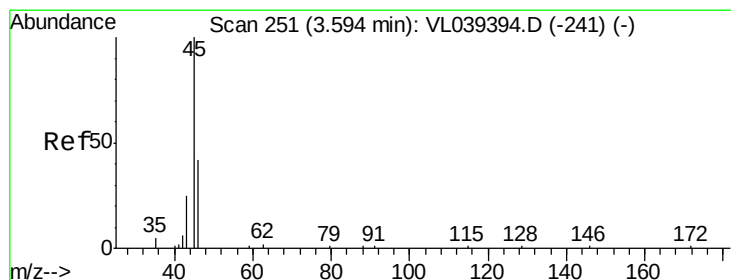
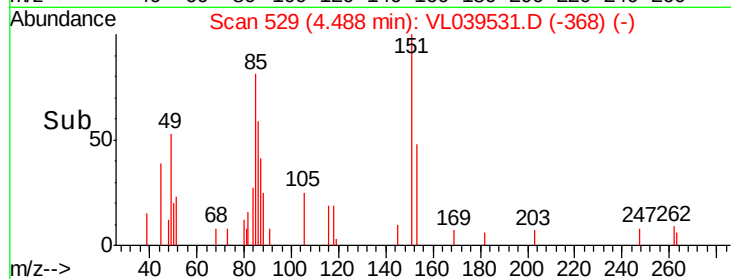
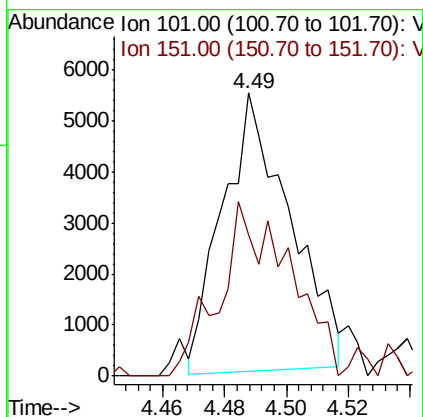
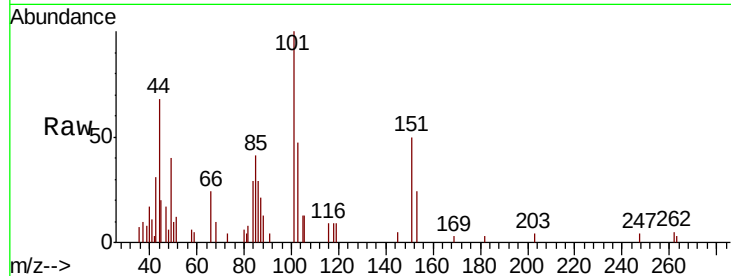
103 67.3 51.8 77.8





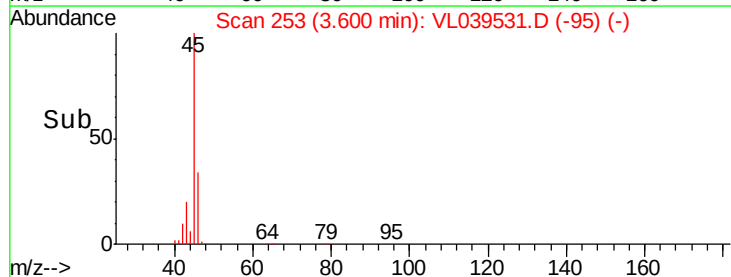
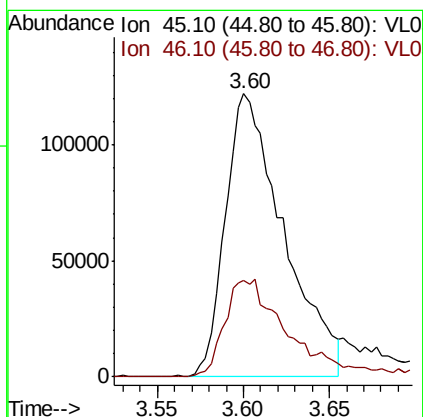
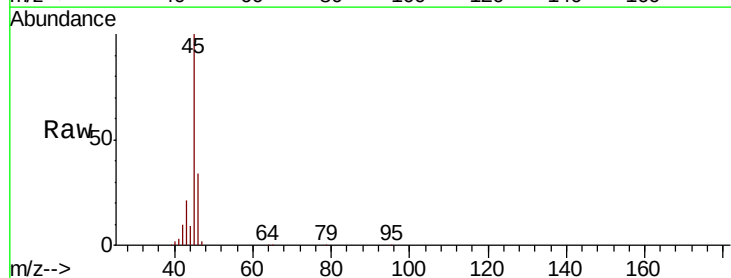
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.066 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jul 2022 00:51

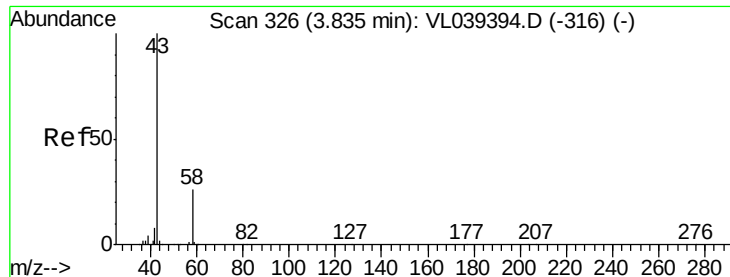
Tot Ion:101 Resp: 8290
 Ion Ratio Lower Upper
 101 100
 151 67.7 58.9 88.3



#13
 Ethanol
 Concen: 83.176 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. 0.01 min
 Lab File: VL039531.D
 Acq: 26 Jul 2022 00:51

Tgt Ion: 45 Resp: 287831
 Ion Ratio Lower Upper
 45 100
 46 39.1 22.8 91.2





#15

Acetone

Concen: 14.711 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

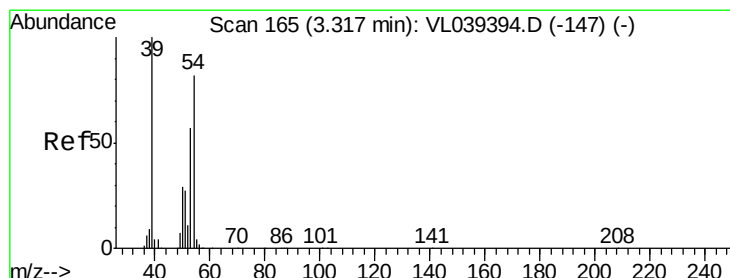
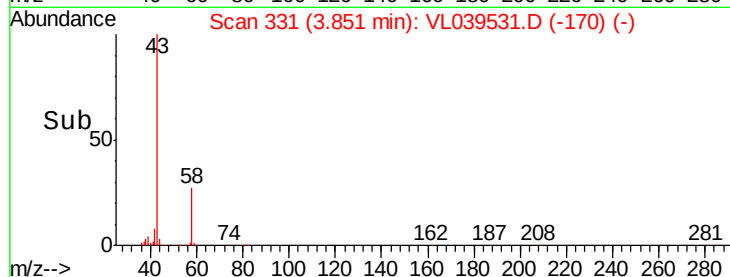
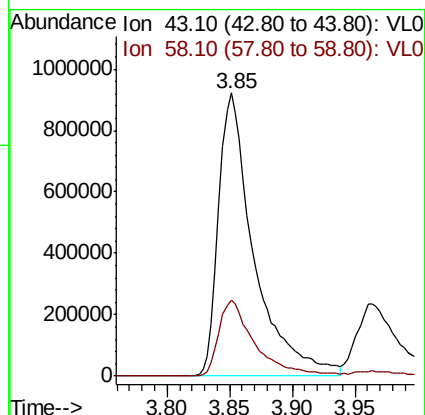
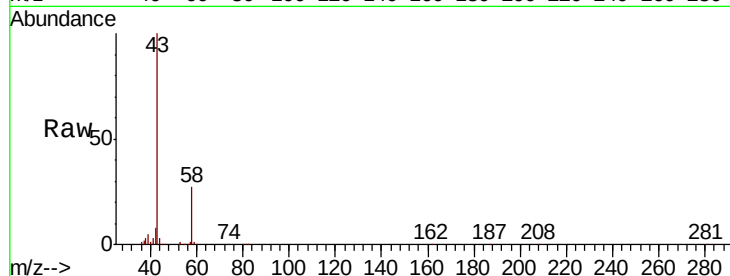
Acq: 26 Jul 2022 00:51

Tot Ion: 43 Resp: 1811846

Ion Ratio Lower Upper

43 100

58 27.6 21.0 31.6



#16

1,3-Butadiene

Concen: 0.077 ppbv

RT: 3.32 min Scan# 165

Delta R.T. 0.00 min

Lab File: VL039531.D

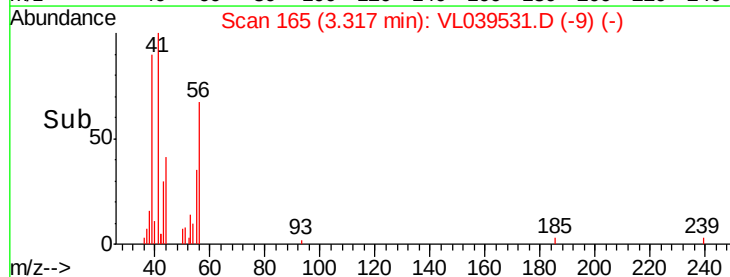
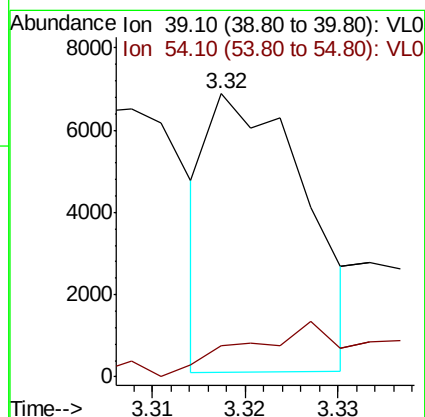
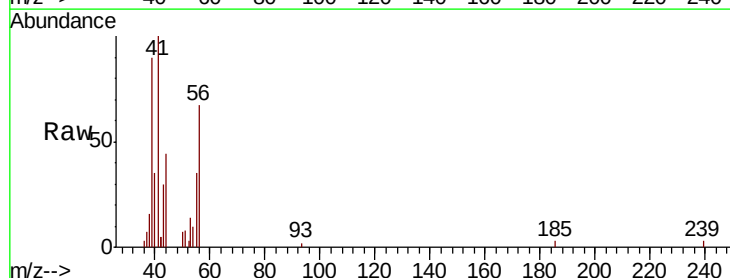
Acq: 26 Jul 2022 00:51

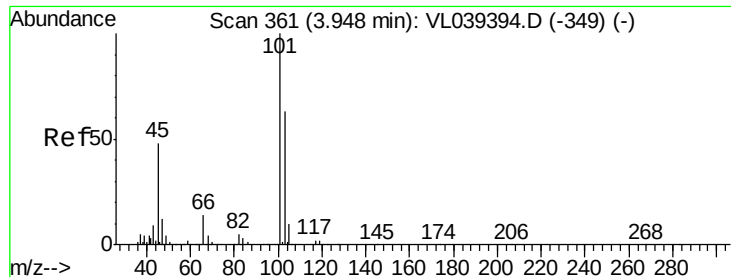
Tgt Ion: 39 Resp: 4907

Ion Ratio Lower Upper

39 100

54 48.4 63.7 95.5#





#19

Isopropyl Alcohol

Concen: 30.571 ppbv

RT: 3.96

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

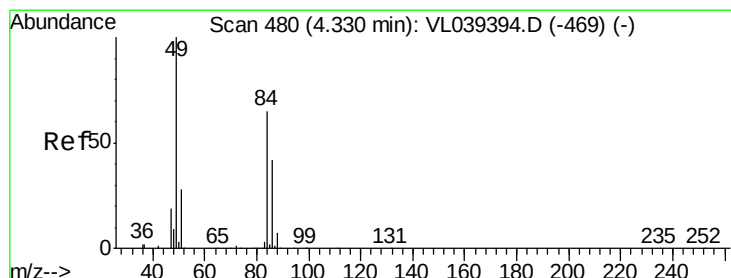
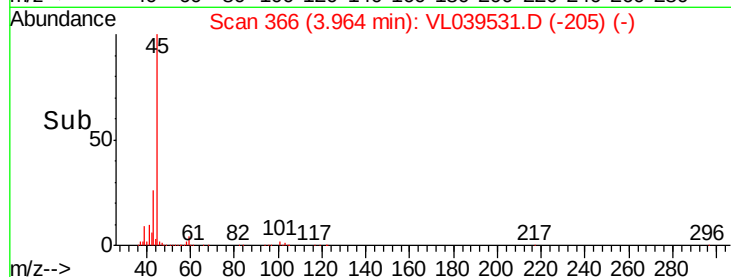
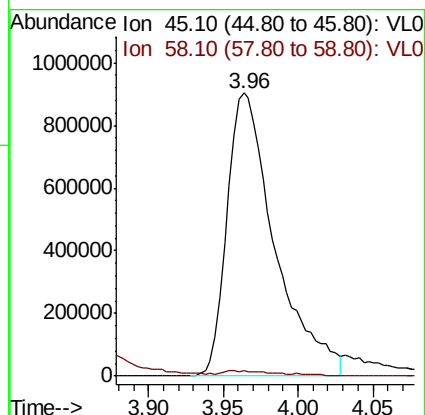
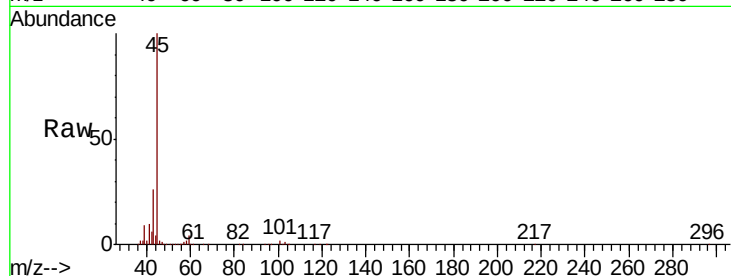
Acq: 26 Jul 2022 00:51

Tot Ion: 45 Resp: 2008334

Ion Ratio Lower Upper

45 100

58 2.1 3.2 4.8#



#20

Methylene Chloride

Concen: 7.543 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL039531.D

Acq: 26 Jul 2022 00:51

Tgt Ion: 84 Resp: 370284

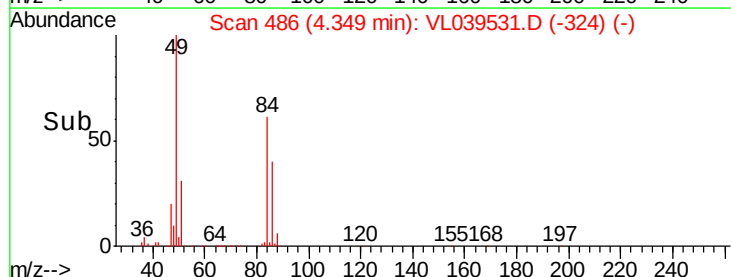
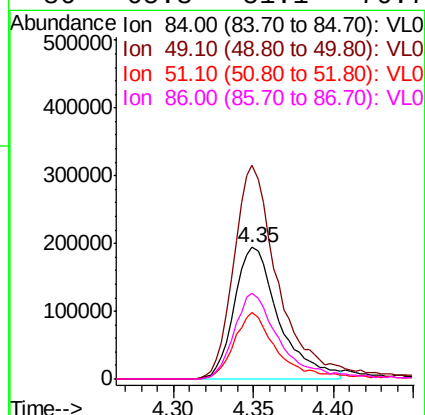
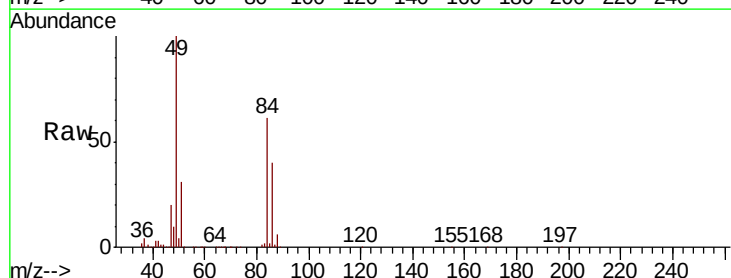
Ion Ratio Lower Upper

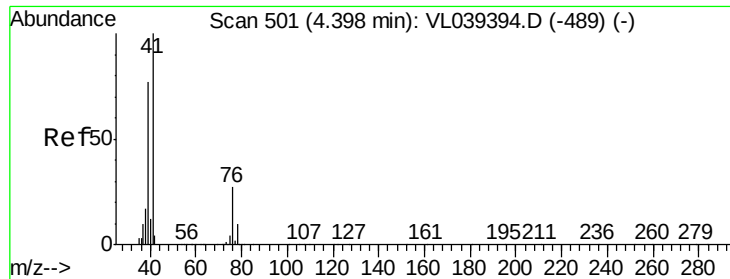
84 100

49 162.2 123.1 184.7

51 50.6 34.4 51.6

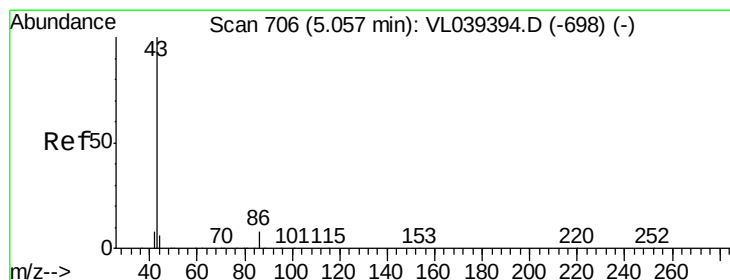
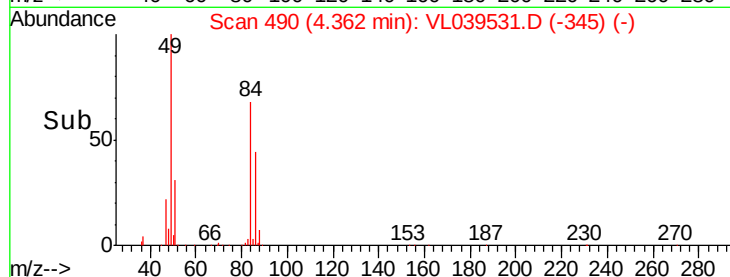
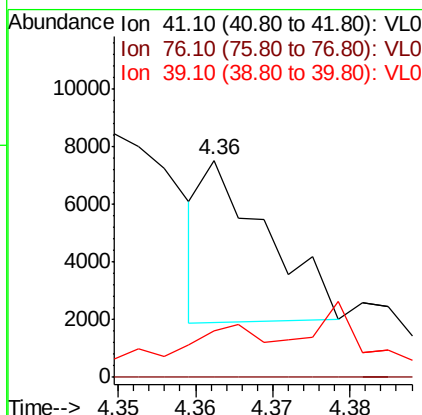
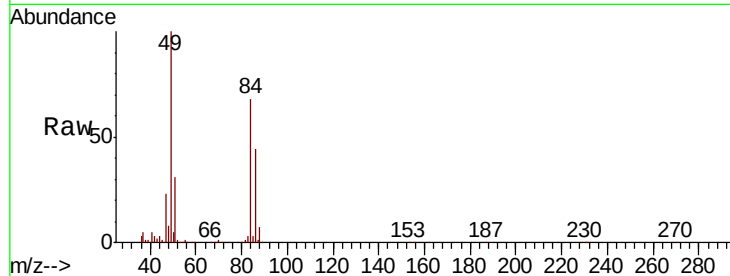
86 65.3 51.1 76.7





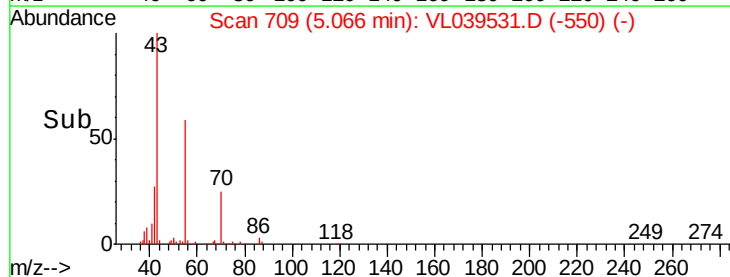
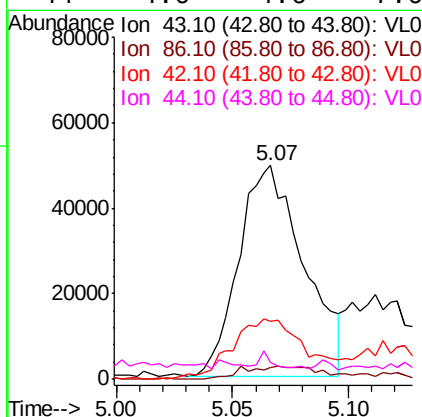
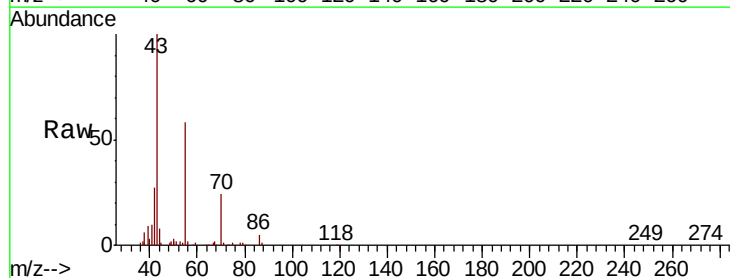
#21
 Allvl Chloride
 Concen: 0.038 ppbv
 RT: 4.36
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jul 2022 00:51

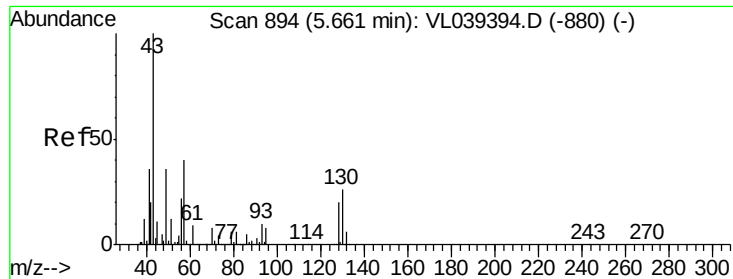
Tot Ion:	41	Resp:	3201
Ion	Ratio	Lower	Upper
41	100		
76	6.1	24.4	36.6#
39	0.0	63.5	95.3#



#23
 Vinyl Acetate
 Concen: 1.167 ppbv
 RT: 5.07 min Scan# 709
 Delta R.T. 0.01 min
 Lab File: VL039531.D
 Acq: 26 Jul 2022 00:51

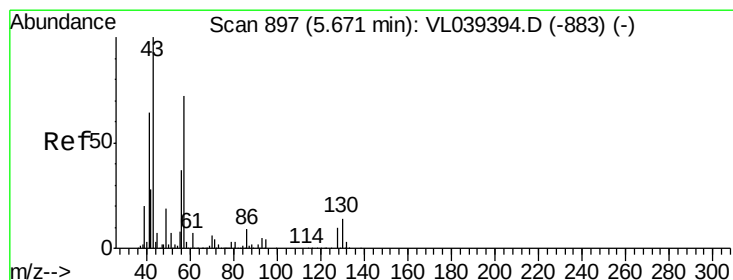
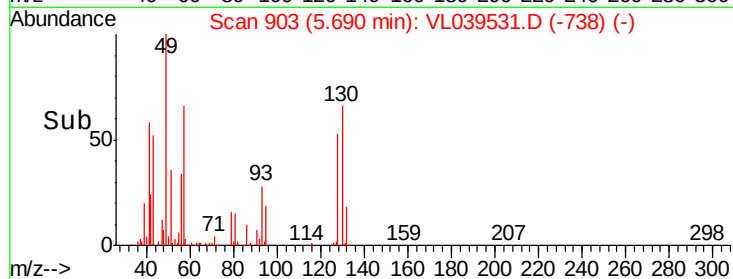
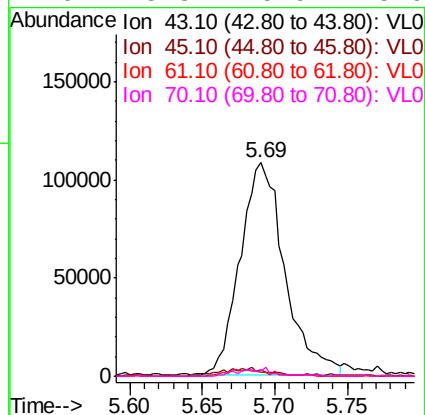
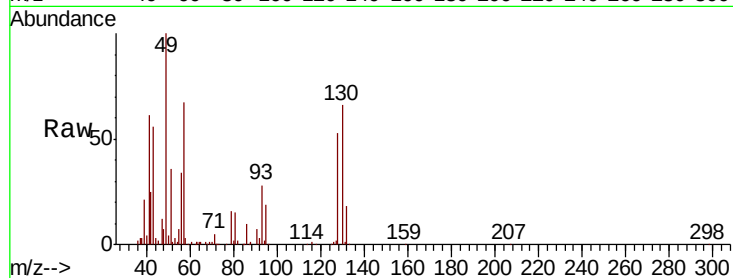
Tgt Ion:	43	Resp:	96091
Ion	Ratio	Lower	Upper
43	100		
86	5.5	5.0	7.6
42	23.9	7.7	11.5#
44	4.0	4.6	7.0#





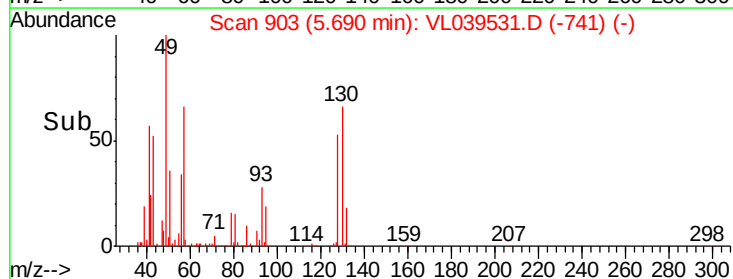
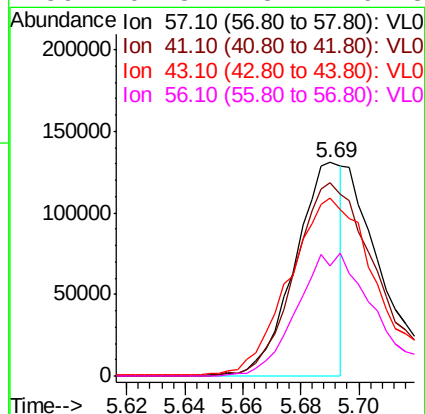
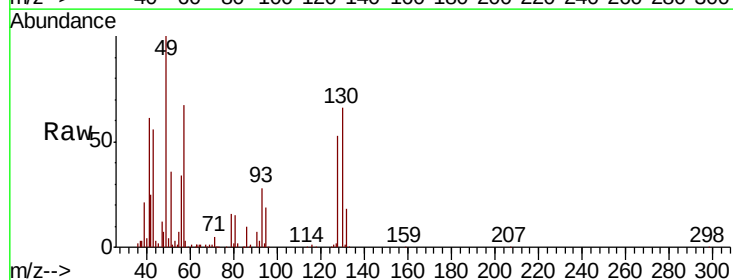
#25
Ethyl Acetate
Concen: 0.910 ppbv
RT: 5.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 26 Jul 2022 00:51

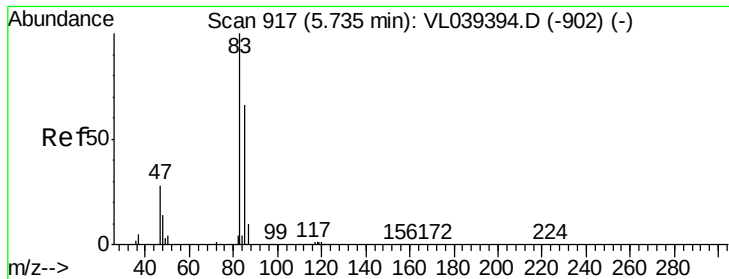
Tot Ion:	43	Resp:	229749
Ion	Ratio	Lower	Upper
43	100		
45	3.8	8.2	12.4#
61	2.9	8.3	12.5#
70	3.3	5.9	8.9#



#26
Hexane
Concen: 1.444 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.02 min
Lab File: VL039531.D
Acq: 26 Jul 2022 00:51

Tgt Ion:	57	Resp:	146972
Ion	Ratio	Lower	Upper
57	100		
41	169.8	76.9	115.3#
43	163.3	191.0	286.6#
56	102.3	43.2	64.8#





#29

Chloroform

Concen: 0.065 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

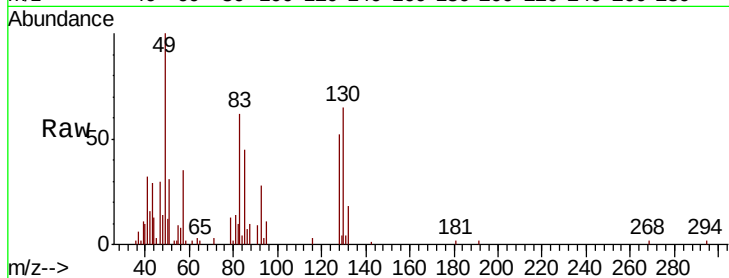
Acq: 26 Jul 2022 00:51

Tot Ion: 83 Resp: 11435

Ion Ratio Lower Upper

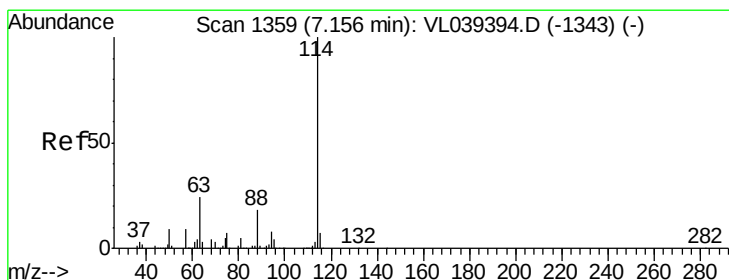
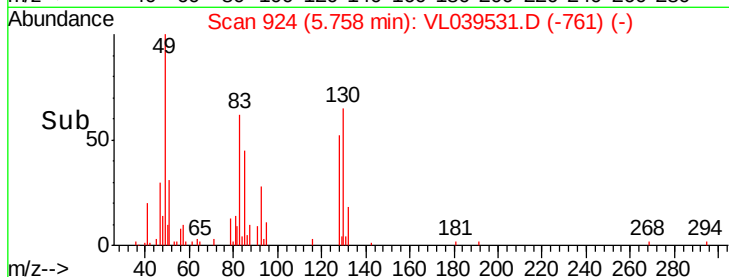
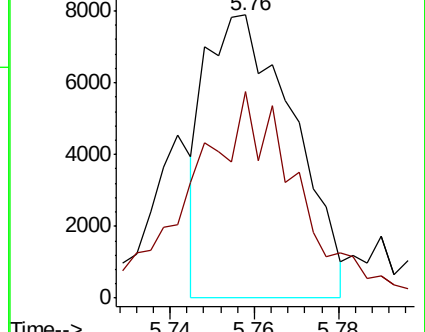
83 100

85 65.1 52.8 79.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL039531.D

Acq: 26 Jul 2022 00:51

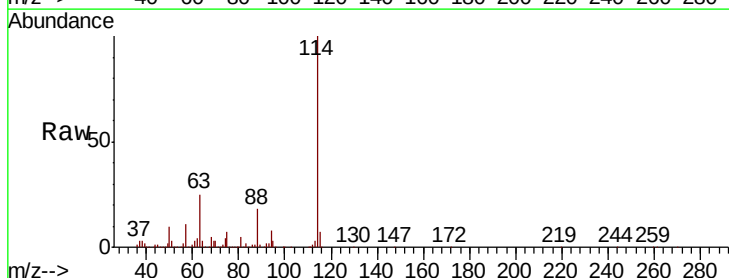
Tgt Ion: 114 Resp: 2874165

Ion Ratio Lower Upper

114 100

63 25.3 20.2 30.4

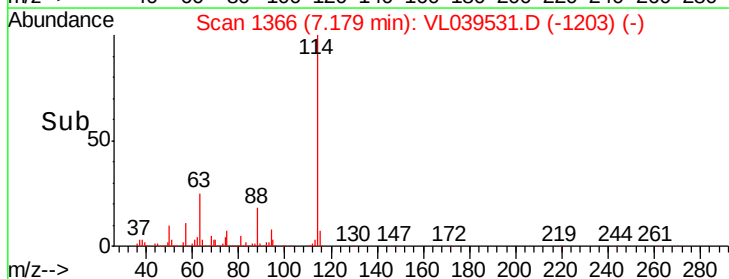
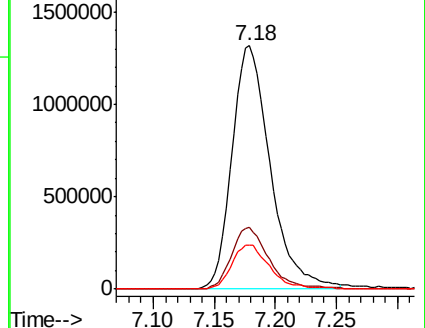
88 18.6 14.5 21.7

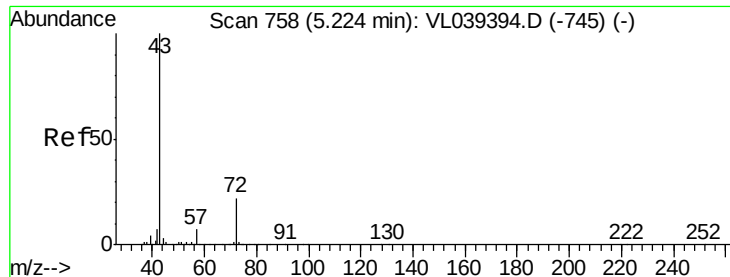


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

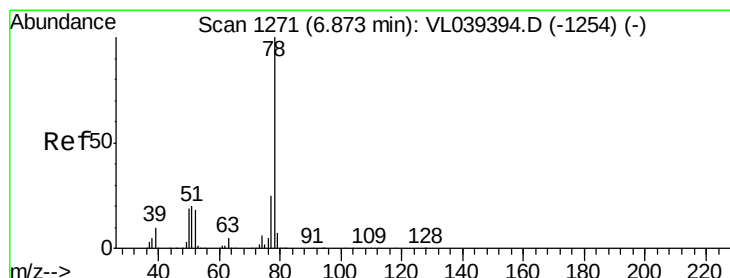
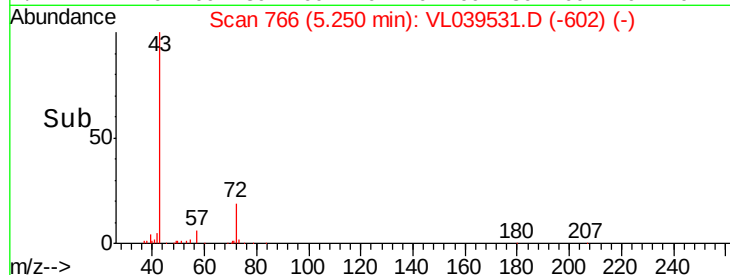
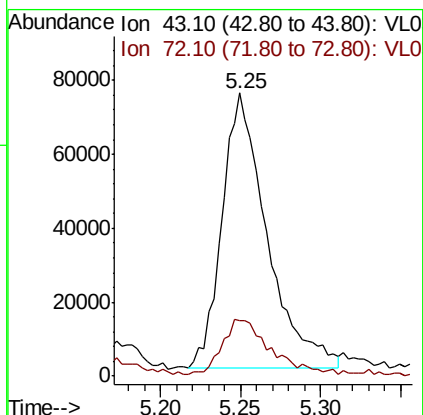
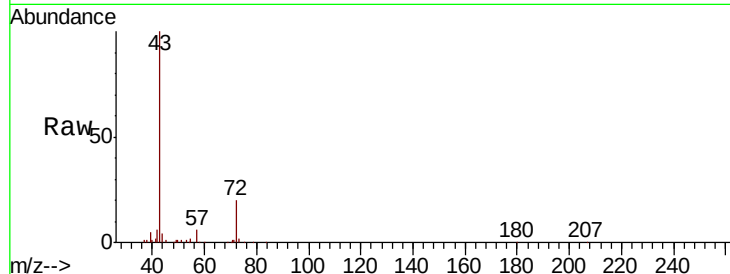
Ion 88.10 (87.80 to 88.80): VL0





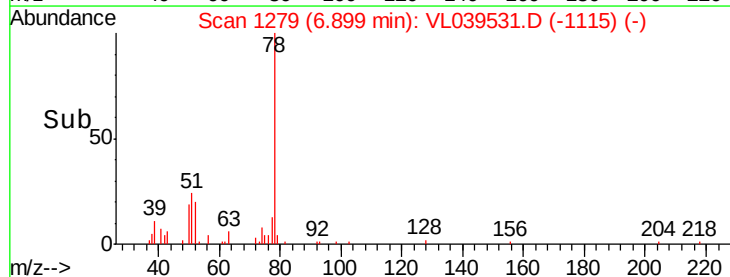
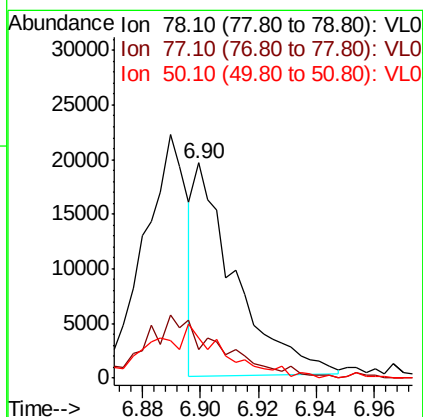
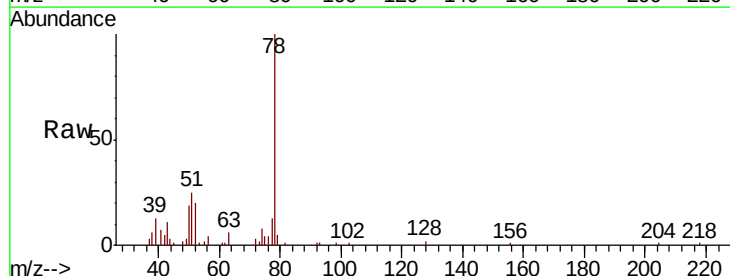
#34
 2-Butanone
 Concen: 0.991 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jul 2022 00:51

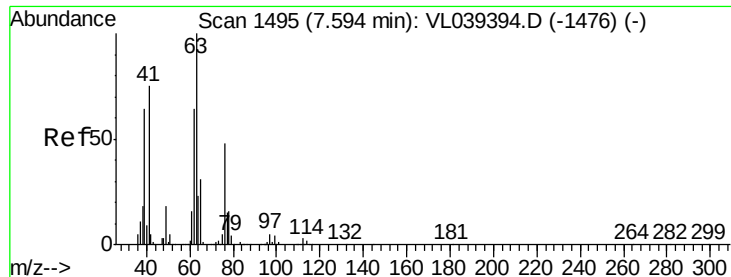
Tot Ion: 43 Resp: 143404
 Ion Ratio Lower Upper
 43 100
 72 23.1 17.9 26.9



#36
 Benzene
 Concen: 0.087 ppbv
 RT: 6.90 min Scan# 1279
 Delta R.T. 0.03 min
 Lab File: VL039531.D
 Acq: 26 Jul 2022 00:51

Tgt Ion: 78 Resp: 19264
 Ion Ratio Lower Upper
 78 100
 77 13.7 20.3 30.5#
 50 19.4 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.532 ppbv

RT: 7.18 Instrument: MSVOA_1

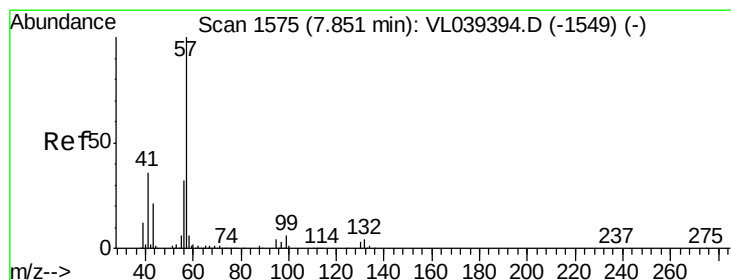
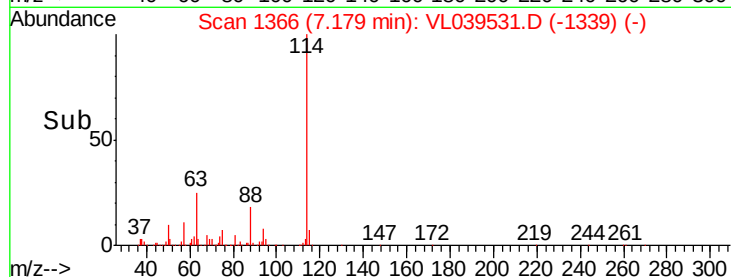
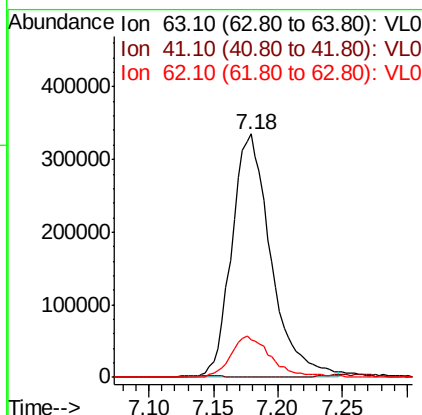
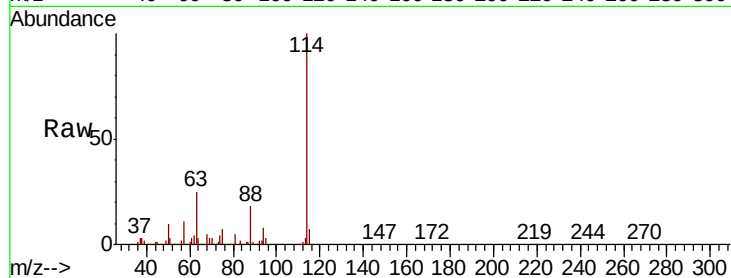
Delta R.T.

Lab File: ClientSampleId:

Acq: 26 Jul 2022 00:51

Tot Ion: 63 Resp: 709043

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	15.1	51.4	77.0#



#44

2,2,4-Trimethylpentane

Concen: 0.044 ppbv

RT: 7.88 min Scan# 1583

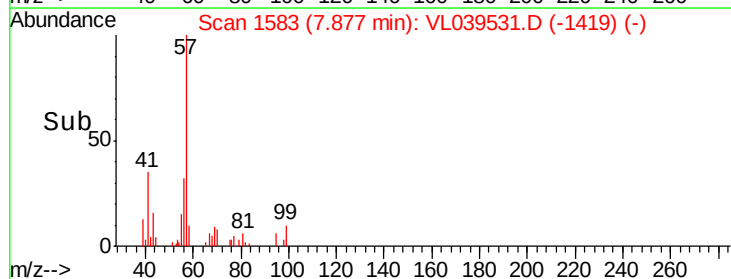
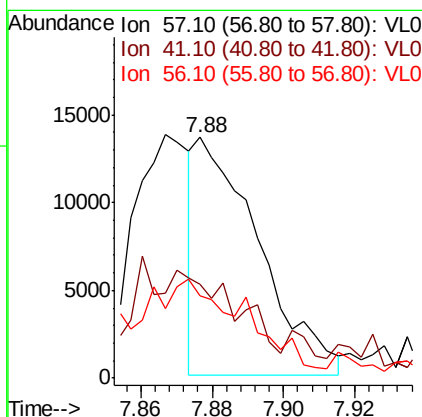
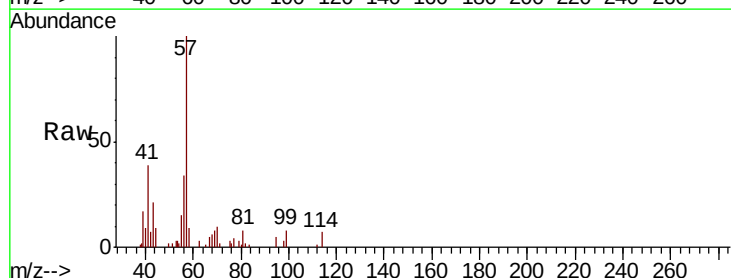
Delta R.T. 0.03 min

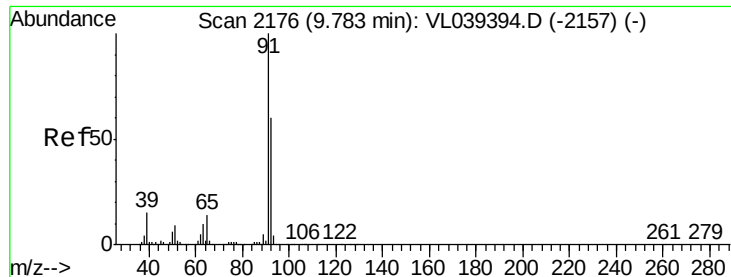
Lab File: VL039531.D

Acq: 26 Jul 2022 00:51

Tgt Ion: 57 Resp: 16701

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.4	41.2#
56	93.3	24.5	36.7#





#53

Toluene

Concen: 0.572 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

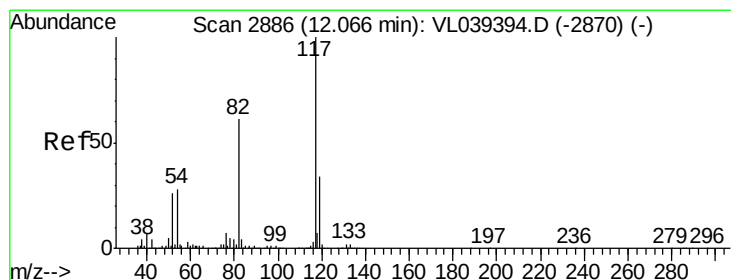
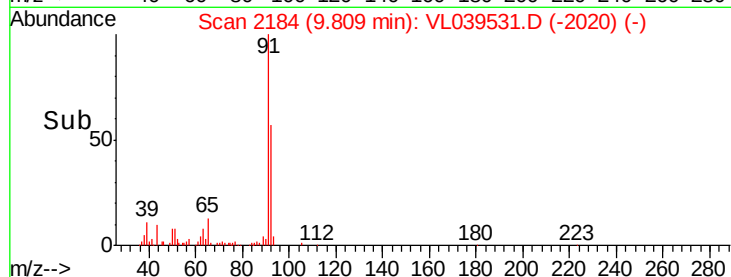
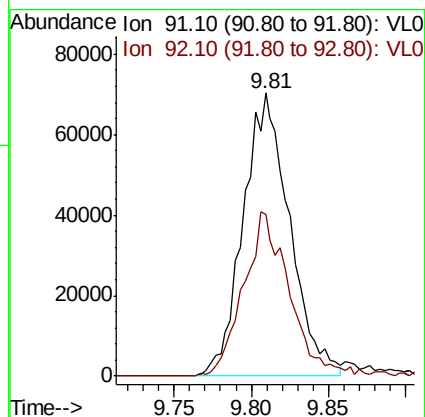
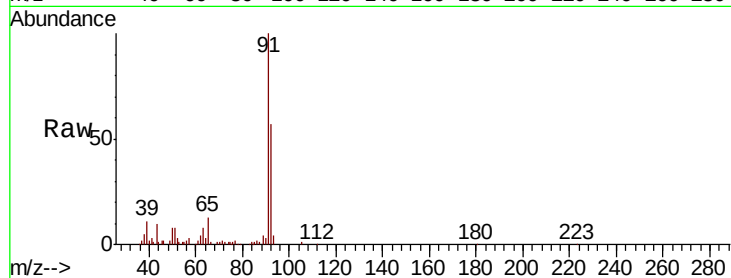
Acq: 26 Jul 2022 00:51

Tot Ion: 91 Resp: 146833

Ion Ratio Lower Upper

91 100

92 58.2 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. 0.02 min

Lab File: VL039531.D

Acq: 26 Jul 2022 00:51

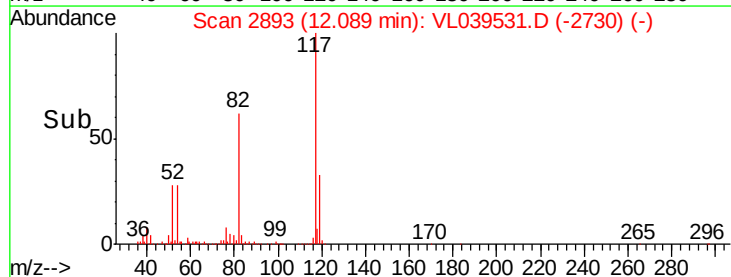
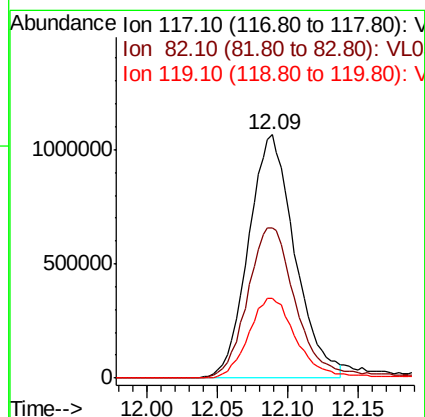
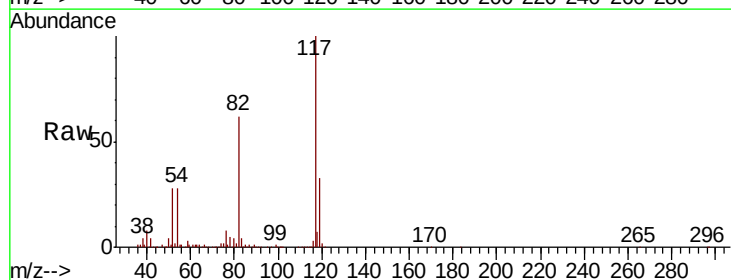
Tgt Ion: 117 Resp: 2446544

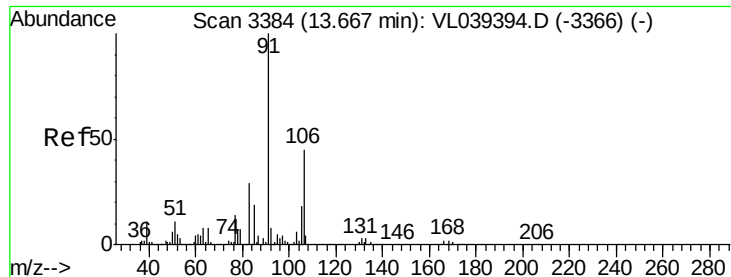
Ion Ratio Lower Upper

117 100

82 67.4 50.8 76.2

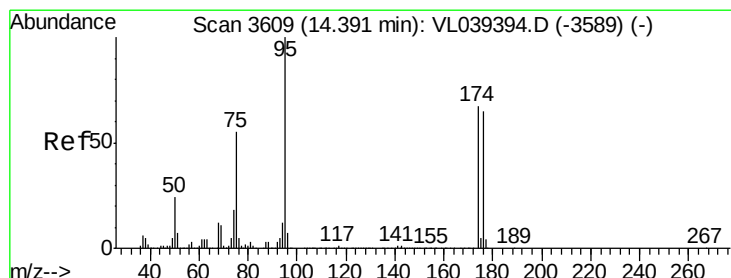
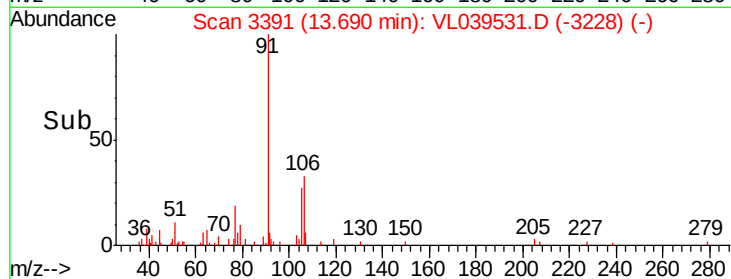
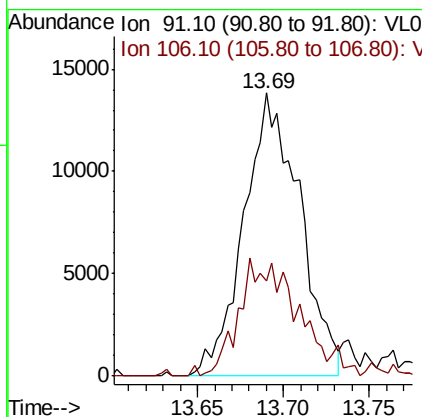
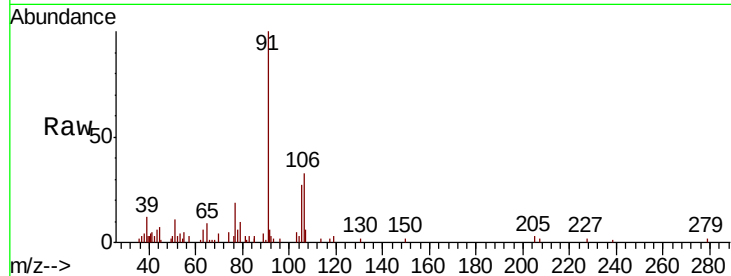
119 35.0 24.1 36.1





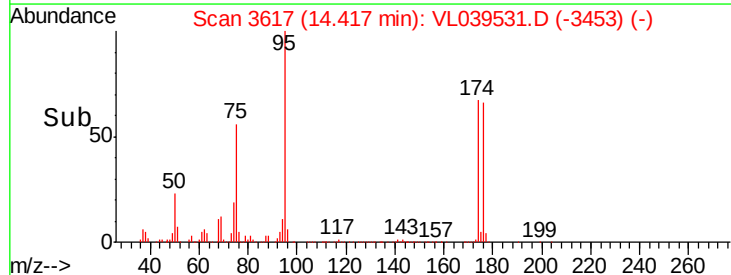
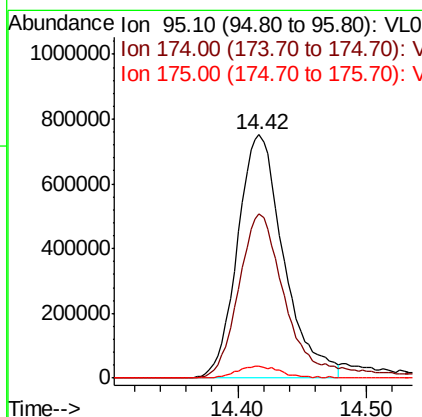
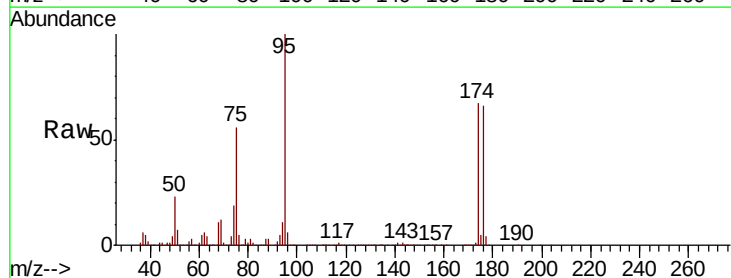
#60
o-Xylene
Concen: 0.118 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 26 Jul 2022 00:51

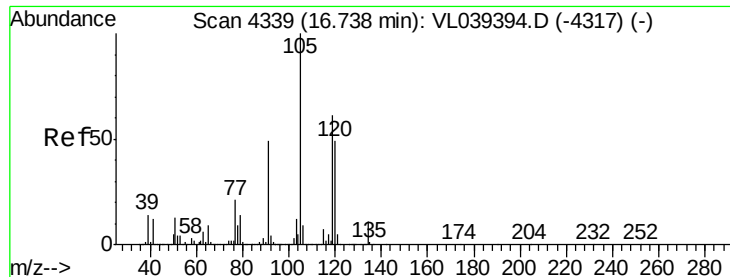
Tot Ion: 91 Resp: 31222
Ion Ratio Lower Upper
91 100
106 46.1 22.4 67.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.303 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.03 min
Lab File: VL039531.D
Acq: 26 Jul 2022 00:51

Tgt Ion: 95 Resp: 1870006
Ion Ratio Lower Upper
95 100
174 72.5 55.9 83.9
175 4.9 4.2 6.4





#74

1,2,4-Trimethylbenzene

Concen: 0.170 ppbv

RT: 16.76

Delta R.T.

Lab File:

Acq: 26 Jul 2022 00:51

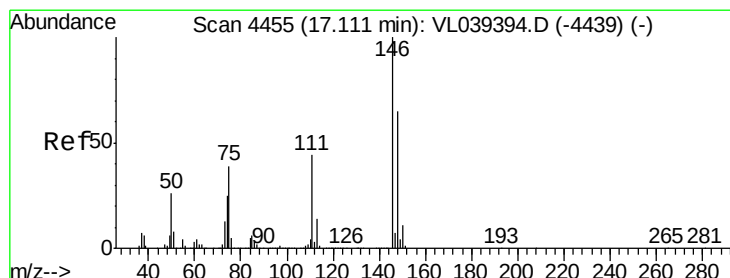
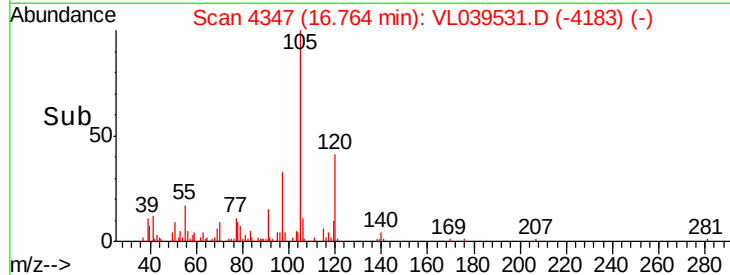
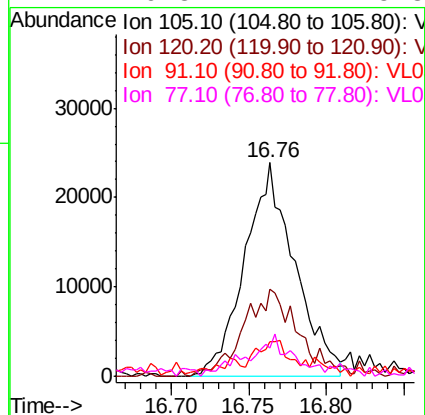
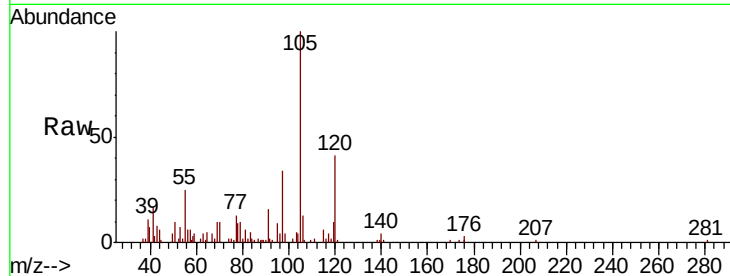
Instrument:

MSVOA_1

ClientSampleId:

OA1

Tot Ion:	105	Resp:	53642
Ion	Ratio	Lower	Upper
105	100		
120	40.8	39.5	59.3
91	14.8	39.2	58.8#
77	10.3	17.2	25.8#



#76

1,4-Dichlorobenzene

Concen: 0.055 ppbv

RT: 17.14 min Scan# 4464

Delta R.T. 0.03 min

Lab File: VL039531.D

Acq: 26 Jul 2022 00:51

Tgt Ion:	146	Resp:	10325
Ion	Ratio	Lower	Upper
146	100		
111	141.4	22.9	68.8#
148	0.0	33.6	100.8#

