

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040855.D
 Acq On : 14 Nov 2023 17:54
 Operator : SY/MD
 Sample : 05399-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Nov 16 04:49:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

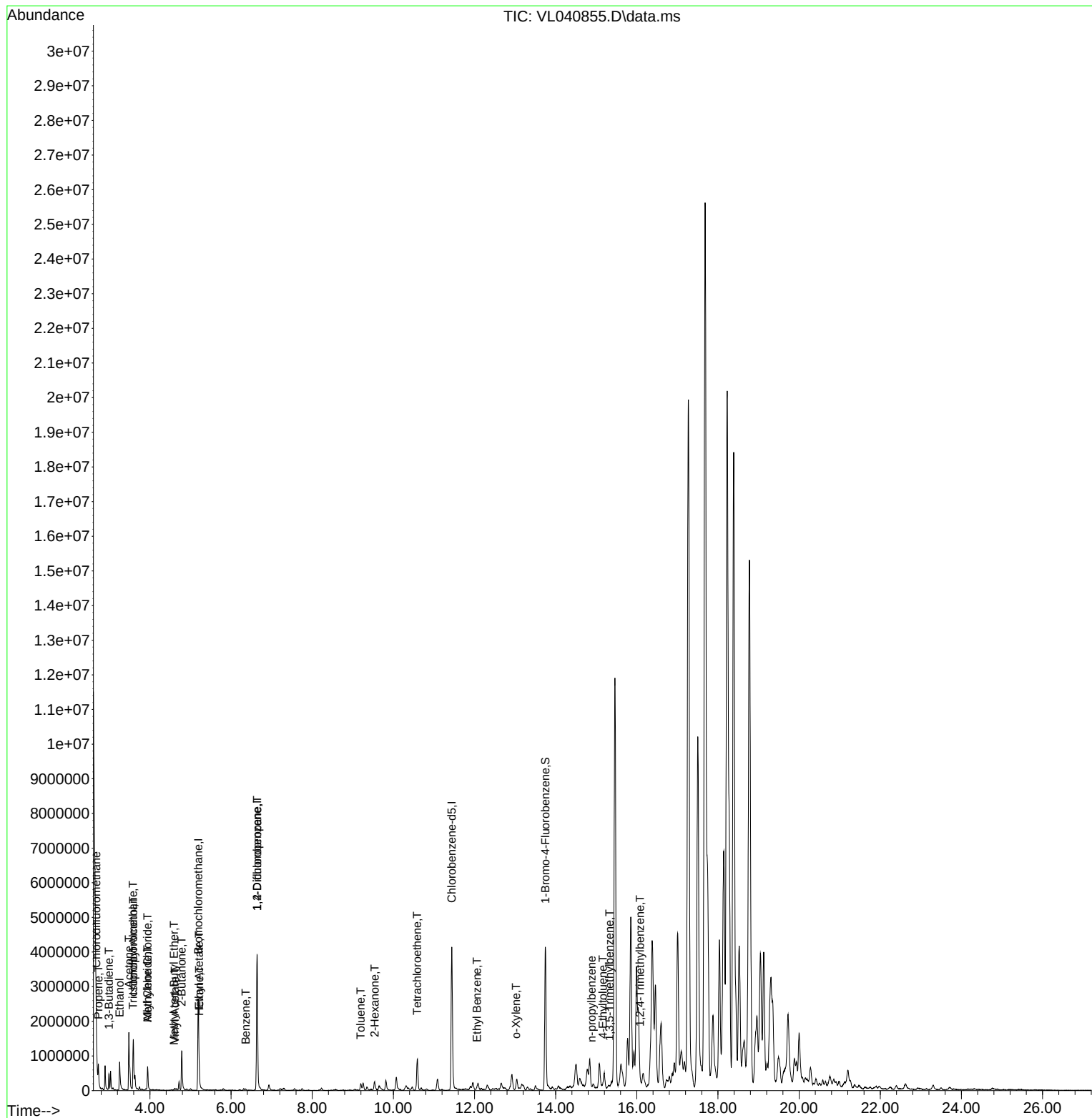
Internal Standards						
1) Bromochloromethane	5.192	49	1161250	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	3024712	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2741770	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	2139546	9.967	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.677	51	152277	0.821	ppbv #	63
9) Propene	2.729	41	119876	1.919	ppbv #	73
11) Trichlorofluoromethane	3.581	101	10040	0.056	ppbv #	73
13) Ethanol	3.253	45	825120	68.007	ppbv #	100
15) Acetone	3.481	43	1659667	13.419	ppbv	96
16) 1,3-Butadiene	2.989	39	100865	1.612	ppbv #	18
19) Isopropyl Alcohol	3.590	45	1569129	21.082	ppbv	99
20) Methylene Chloride	3.944	84	212666	4.167	ppbv	95
21) Allyl Chloride	3.944	41	8643	0.109	ppbv #	69
23) Vinyl Acetate	4.619	43	44836	0.281	ppbv #	83
25) Ethyl Acetate	5.211	43	161334	0.630	ppbv #	89
26) Hexane	5.214	57	185630	1.638	ppbv #	44
28) Methyl tert-Butyl Ether	4.594	73	7883	0.077	ppbv #	53
34) 2-Butanone	4.783	43	1312518	8.518	ppbv	99
36) Benzene	6.362	78	23121	0.094	ppbv	95
39) 1,2-Dichloropropane	6.642	63	744381	7.648	ppbv #	24
51) 2-Hexanone	9.539	43	219999	1.309	ppbv #	94
52) Tetrachloroethene	10.587	164	218456	2.643	ppbv	97
53) Toluene	9.195	91	89110	0.330	ppbv #	51
58) Ethyl Benzene	12.060	91	56026	0.157	ppbv	96
60) o-Xylene	13.024	91	71483	0.246	ppbv	98
64) n-propylbenzene	14.886	120	3300	0.031	ppbv #	1
72) 4-Ethyltoluene	15.162	105	32468	0.102	ppbv #	90
73) 1,3,5-Trimethylbenzene	15.326	105	8541	0.030	ppbv	95
74) 1,2,4-Trimethylbenzene	16.075	105	105072	0.334	ppbv #	64

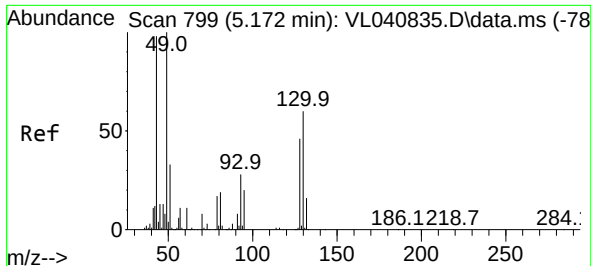
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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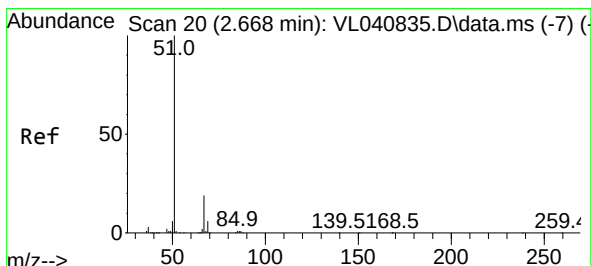
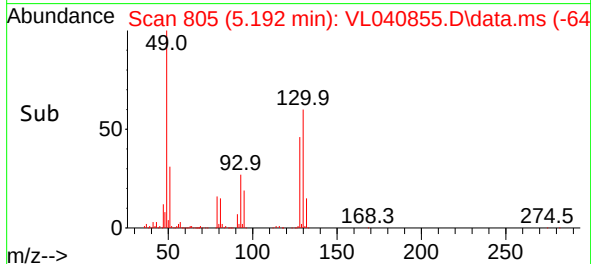
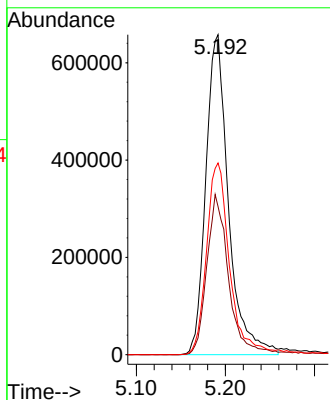
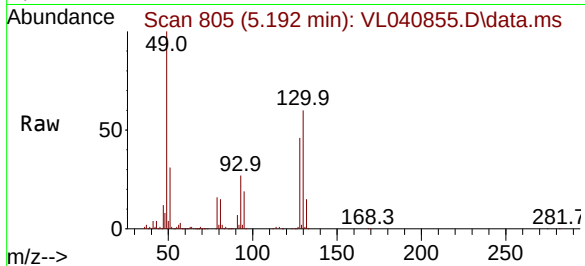




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

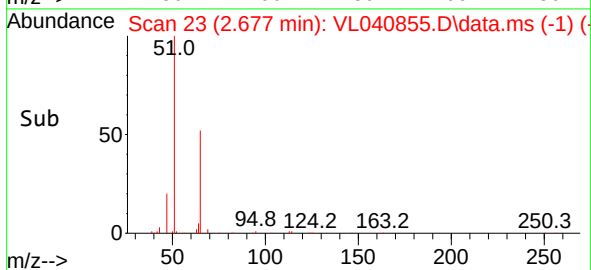
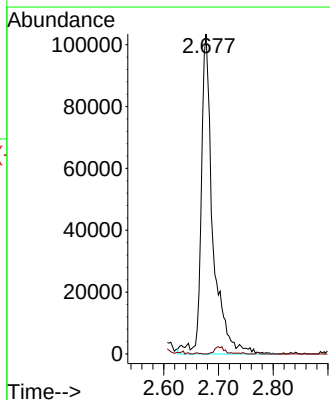
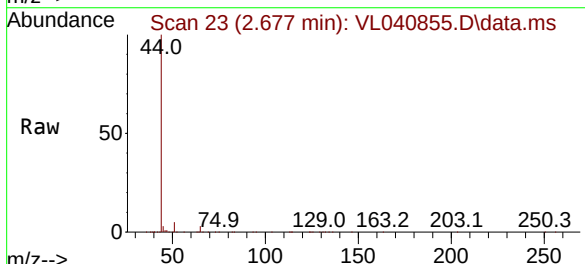
Instrument :
MSVOA_L
ClientSampleId :
SV1

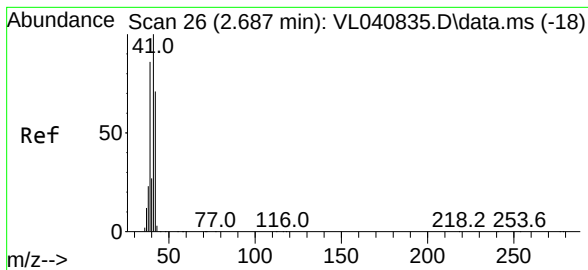
Tgt Ion: 49 Resp: 1161250
Ion Ratio Lower Upper
49 100
128 49.4 23.8 71.2
130 62.6 30.9 92.8



#3
Chlorodifluoromethane
Concen: 0.821 ppbv
RT: 2.677 min Scan# 23
Delta R.T. 0.010 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Tgt Ion: 51 Resp: 152277
Ion Ratio Lower Upper
51 100
67 2.2 15.0 22.4





#9

Propene

Concen: 1.919 ppbv

RT: 2.729 min Scan# 30

Delta R.T. 0.042 min

Lab File: VL040855.D

Acq: 14 Nov 2023 17:54

Instrument :

MSVOA_L

ClientSampleId :

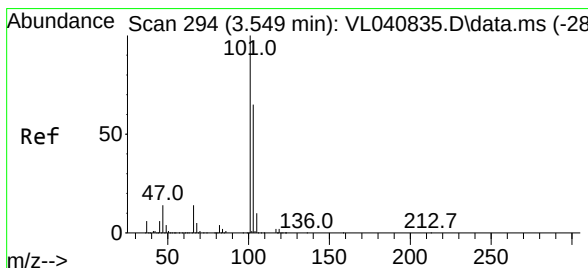
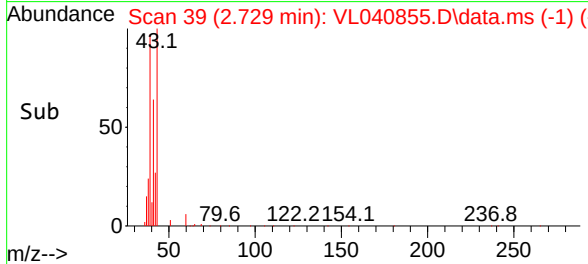
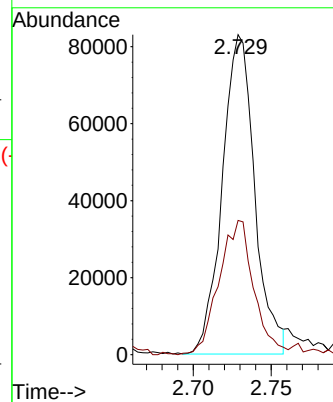
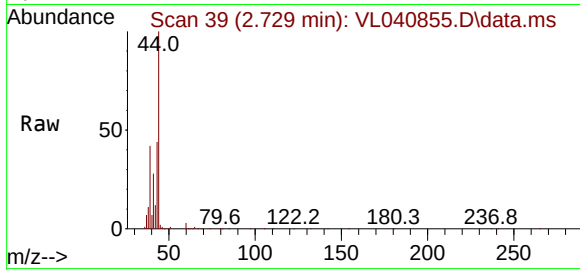
SV1

Tgt Ion: 41 Resp: 119876

Ion Ratio Lower Upper

41 100

42 48.2 56.5 84.7#



#11

Trichlorofluoromethane

Concen: 0.056 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.032 min

Lab File: VL040855.D

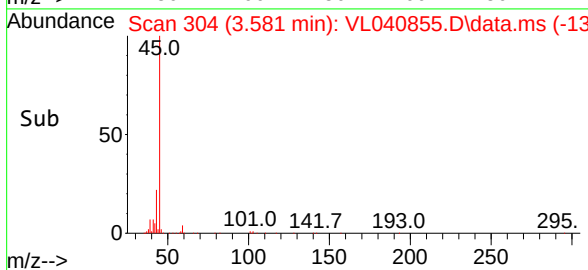
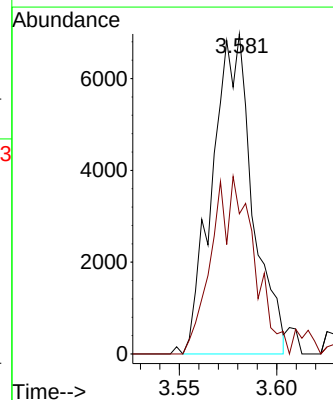
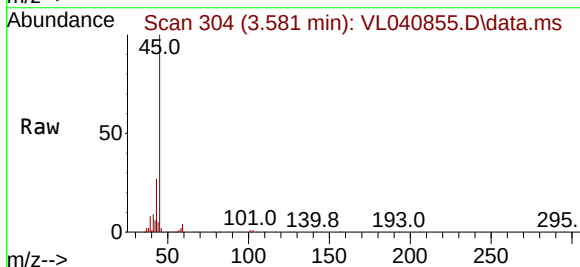
Acq: 14 Nov 2023 17:54

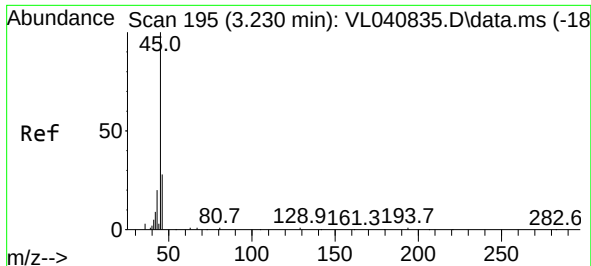
Tgt Ion:101 Resp: 10040

Ion Ratio Lower Upper

101 100

103 43.8 51.8 77.8#

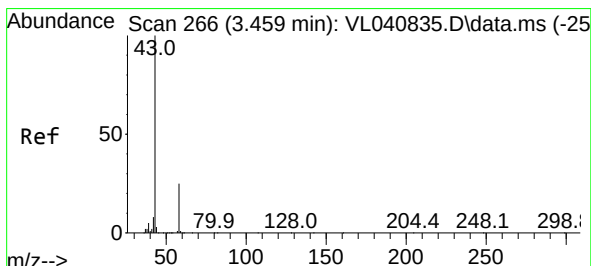
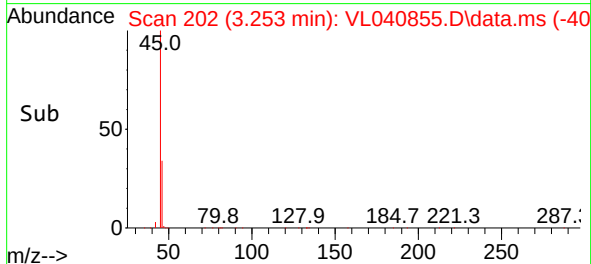
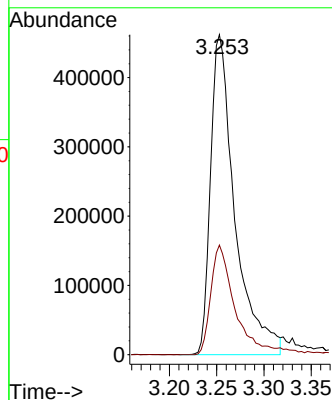
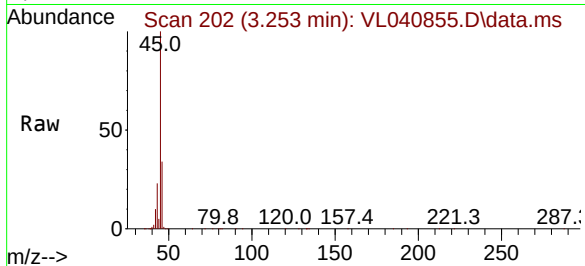




#13
Ethanol
Concen: 68.007 ppbv
RT: 3.253 min Scan# 20
Delta R.T. 0.022 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

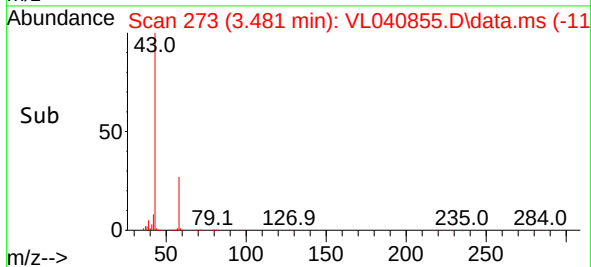
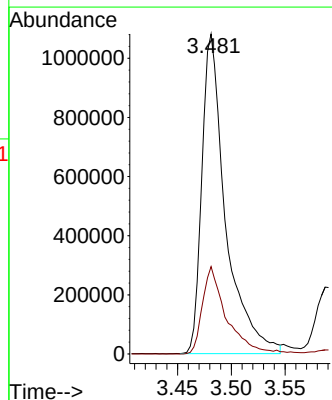
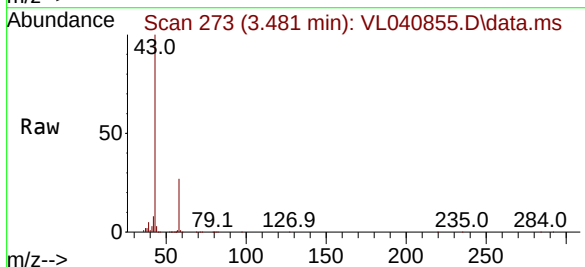
Instrument :
MSVOA_L
ClientSampleId :
SV1

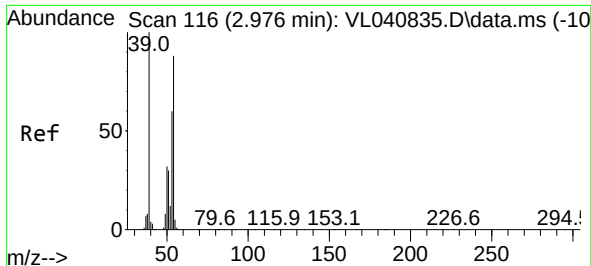
Tgt Ion: 45 Resp: 825120
Ion Ratio Lower Upper
45 100
46 36.3 0.0 0.0#



#15
Acetone
Concen: 13.419 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.022 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Tgt Ion: 43 Resp: 1659667
Ion Ratio Lower Upper
43 100
58 28.0 20.9 31.3





#16

1,3-Butadiene

Concen: 1.612 ppbv

RT: 2.989 min Scan# 116

Delta R.T. 0.013 min

Lab File: VL040855.D

Acq: 14 Nov 2023 17:54

Instrument :

MSVOA_L

ClientSampleId :

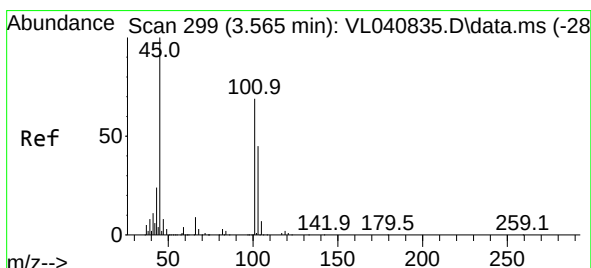
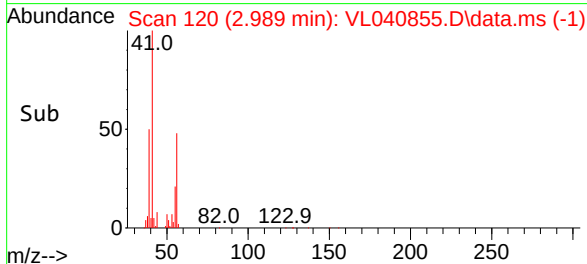
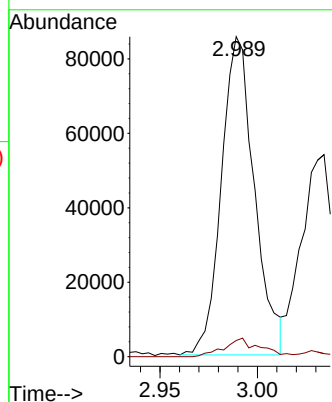
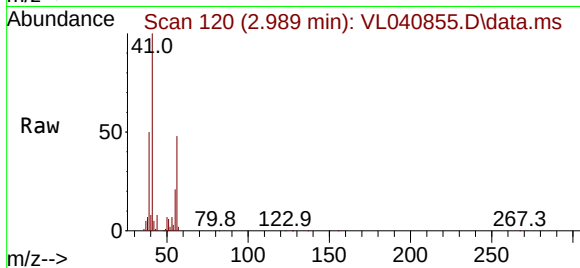
SV1

Tgt Ion: 39 Resp: 100865

Ion Ratio Lower Upper

39 100

54 6.4 61.8 92.6#



#19

Isopropyl Alcohol

Concen: 21.082 ppbv

RT: 3.590 min Scan# 307

Delta R.T. 0.026 min

Lab File: VL040855.D

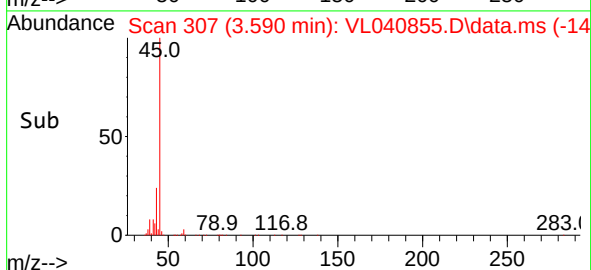
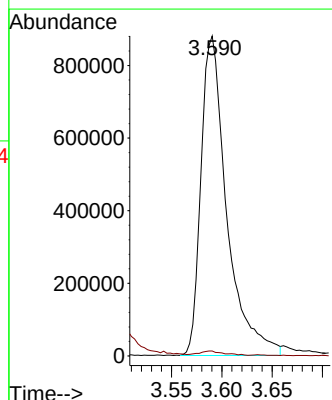
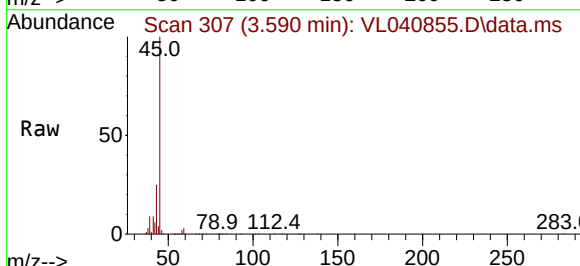
Acq: 14 Nov 2023 17:54

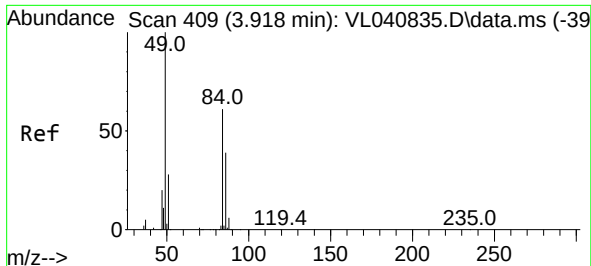
Tgt Ion: 45 Resp: 1569129

Ion Ratio Lower Upper

45 100

58 1.6 1.6 2.4



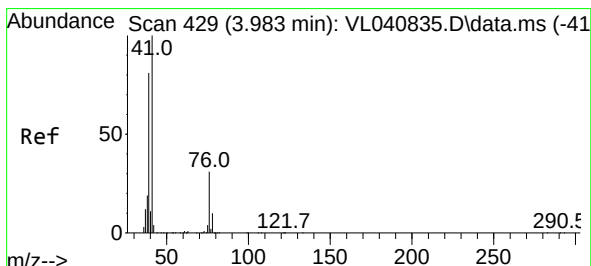
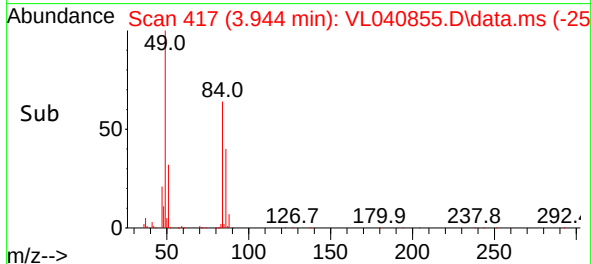
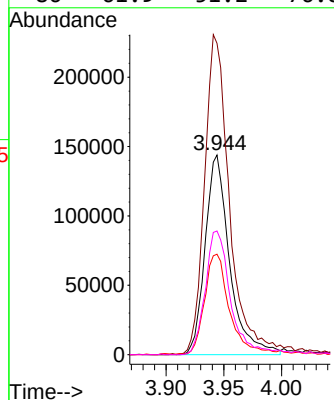
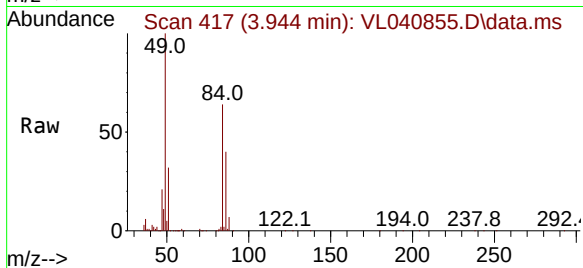


#20
Methylene Chloride
Concen: 4.167 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 212666

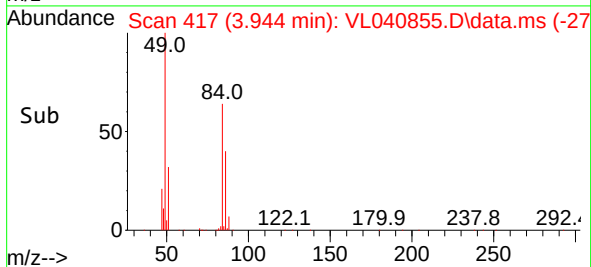
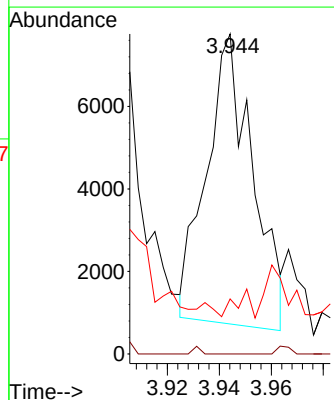
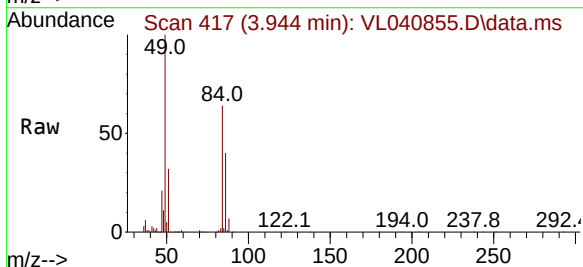
Ion	Ratio	Lower	Upper
84	100		
49	155.6	131.0	196.4
51	49.7	36.9	55.3
86	61.9	51.2	76.8

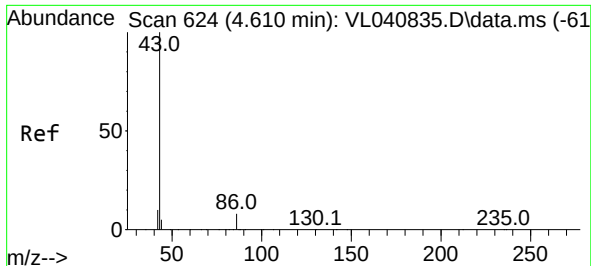


#21
Allyl Chloride
Concen: 0.109 ppbv
RT: 3.944 min Scan# 417
Delta R.T. -0.039 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Tgt Ion: 41 Resp: 8643

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	64.8	68.1	102.1#

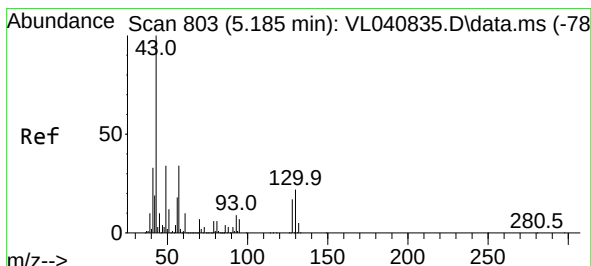
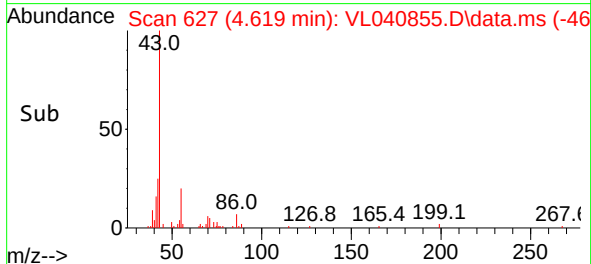
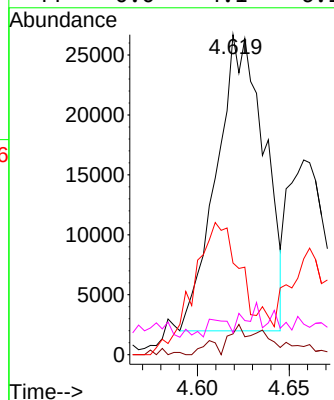
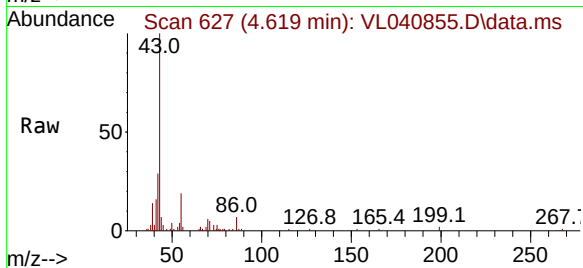




#23
 Vinyl Acetate
 Concen: 0.281 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. 0.010 min
 Lab File: VL040855.D
 Acq: 14 Nov 2023 17:54

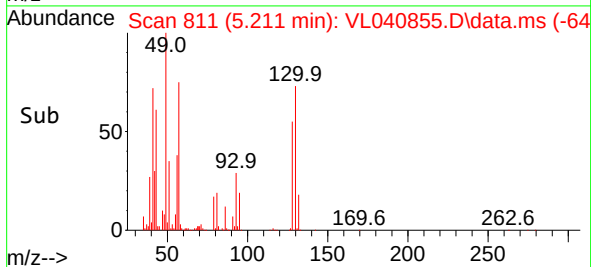
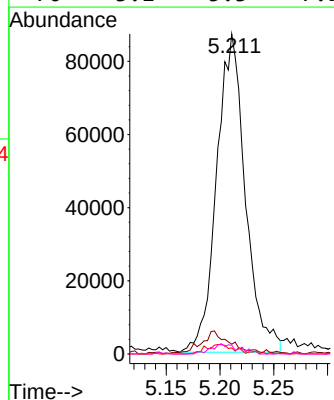
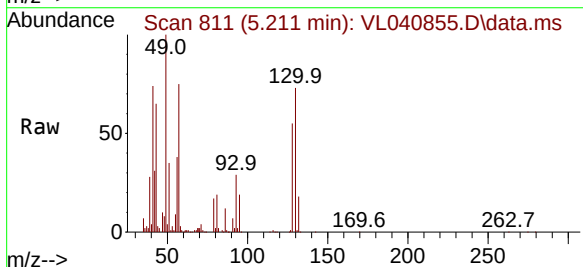
Instrument :
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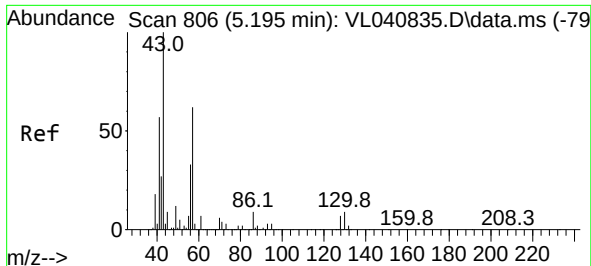
Tgt Ion:	43	Resp:	44836
Ion	Ratio	Lower	Upper
43	100		
86	6.3	5.5	8.3
42	20.7	8.2	12.2#
44	0.0	4.1	6.1#



#25
 Ethyl Acetate
 Concen: 0.630 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.026 min
 Lab File: VL040855.D
 Acq: 14 Nov 2023 17:54

Tgt Ion:	43	Resp:	161334
Ion	Ratio	Lower	Upper
43	100		
45	8.3	8.1	12.1
61	3.2	7.8	11.6#
70	3.1	5.3	7.9#

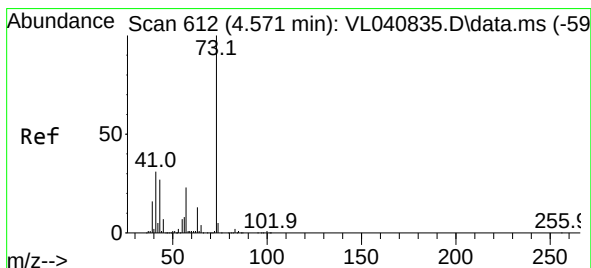
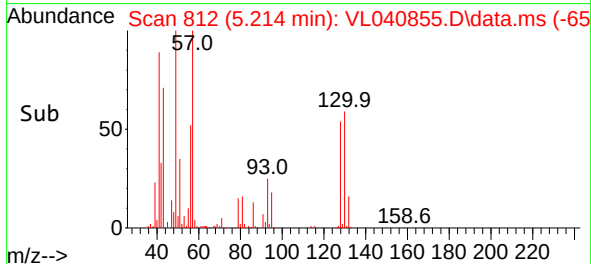
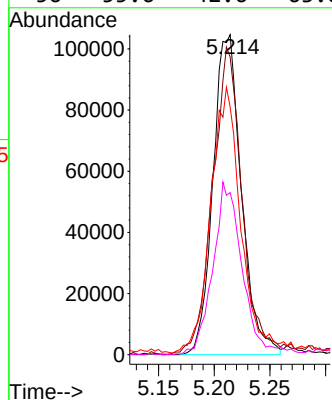
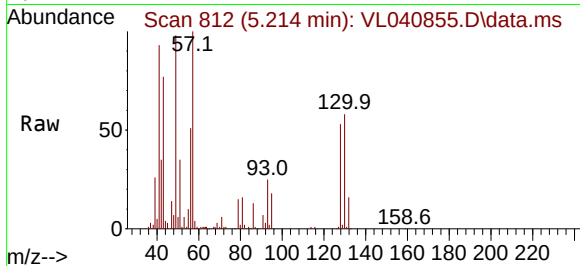




#26
Hexane
Concen: 1.638 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.019 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

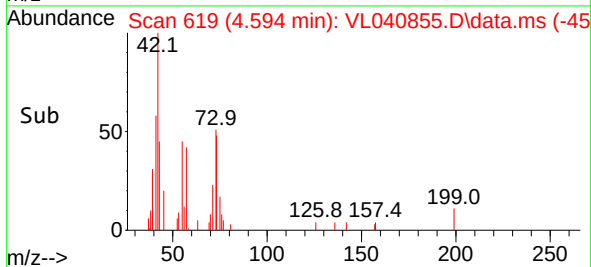
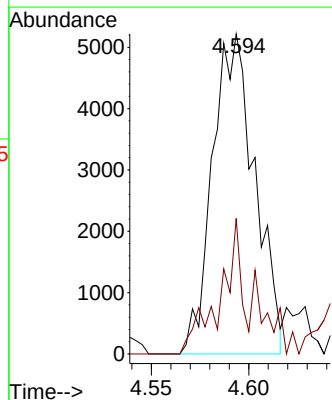
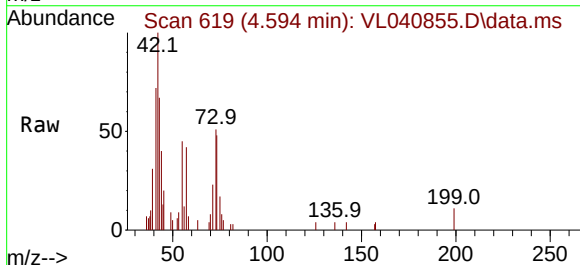
Instrument :
MSVOA_L
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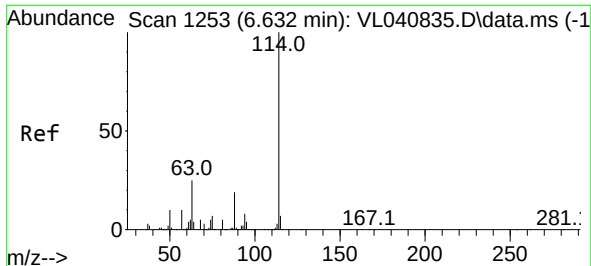
Tgt Ion: 57 Resp: 185630
Ion Ratio Lower Upper
57 100
41 104.0 75.4 113.0
43 87.7 185.9 278.9#
56 55.6 42.6 63.8



#28
Methyl tert-Butyl Ether
Concen: 0.077 ppbv
RT: 4.594 min Scan# 619
Delta R.T. 0.022 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Tgt Ion: 73 Resp: 7883
Ion Ratio Lower Upper
73 100
57 0.0 18.0 27.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL040855.D

Acq: 14 Nov 2023 17:54

Instrument :

MSVOA_L

ClientSampleId :

SV1

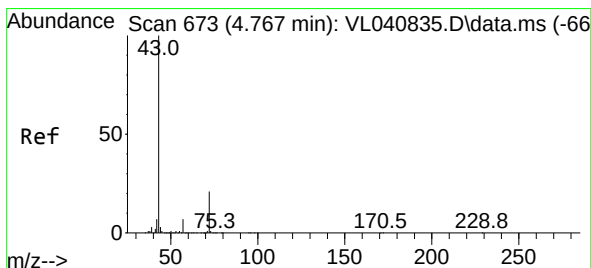
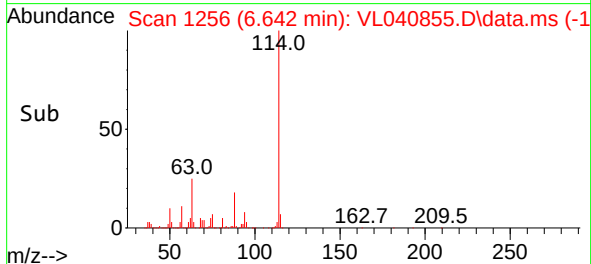
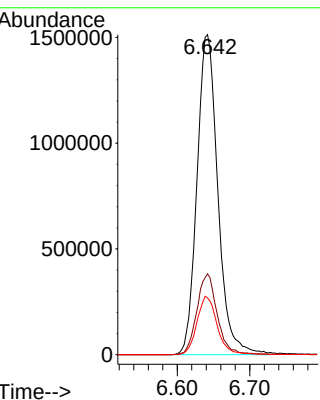
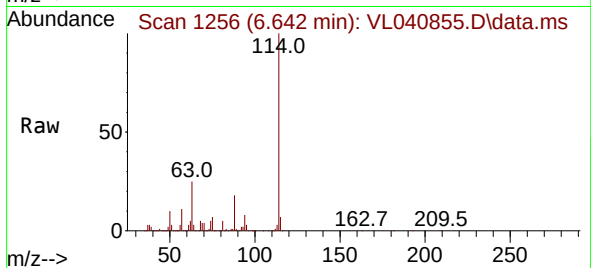
Tgt Ion:114 Resp: 3024712

Ion Ratio Lower Upper

114 100

63 24.9 20.9 31.3

88 17.9 14.3 21.5



#34

2-Butanone

Concen: 8.518 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.016 min

Lab File: VL040855.D

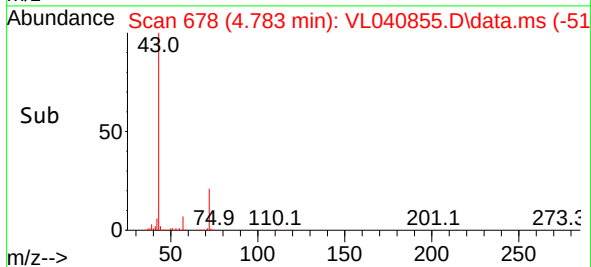
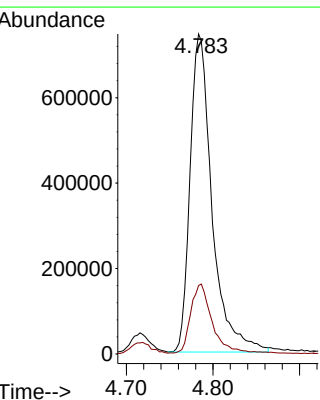
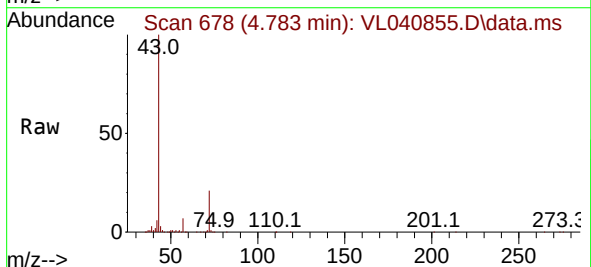
Acq: 14 Nov 2023 17:54

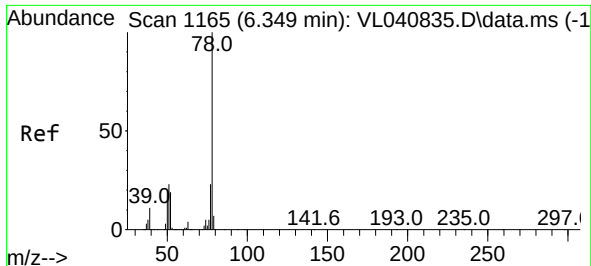
Tgt Ion: 43 Resp: 1312518

Ion Ratio Lower Upper

43 100

72 21.9 17.2 25.8

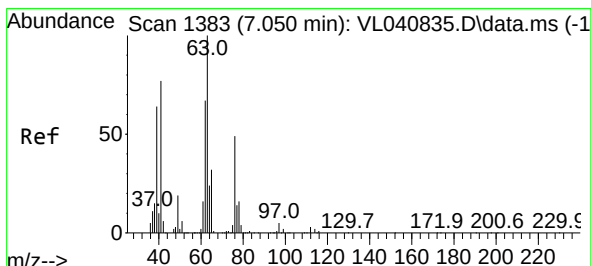
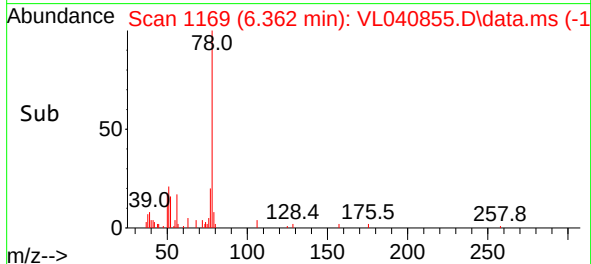
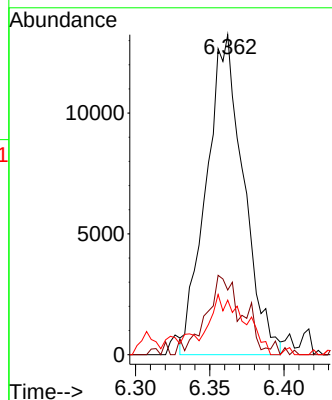
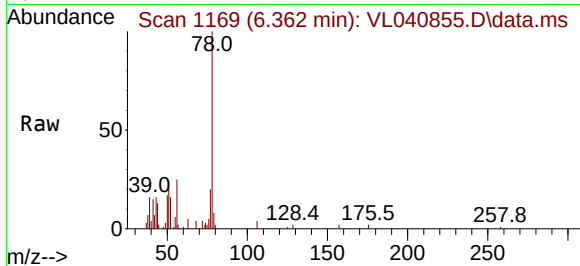




#36
Benzene
Concen: 0.094 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. 0.013 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

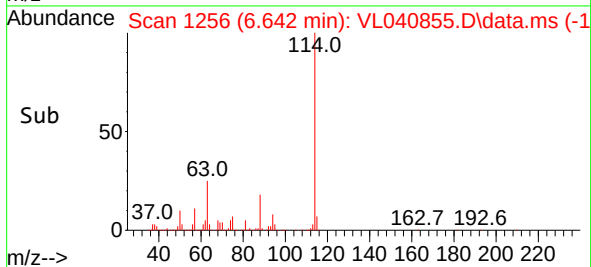
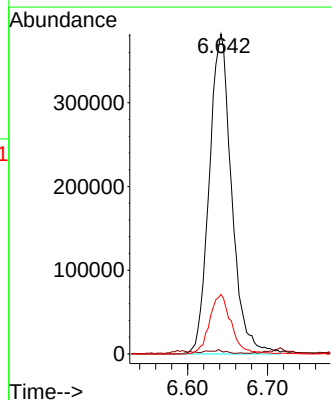
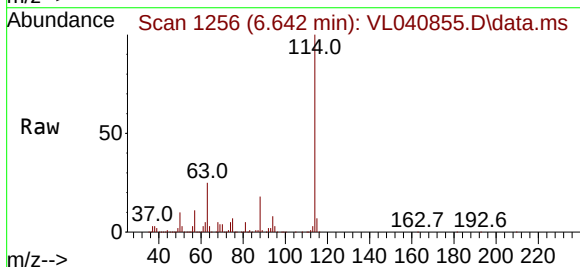
Instrument :
MSVOA_L
ClientSampleId :
SV1

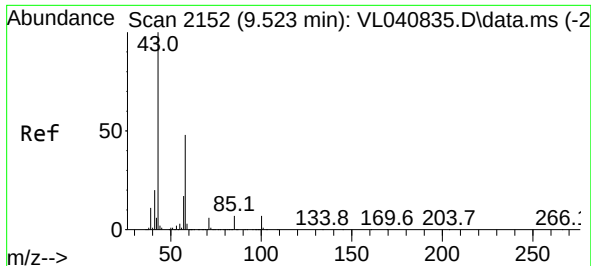
Tgt Ion: 78 Resp: 23121
Ion Ratio Lower Upper
78 100
77 21.0 18.4 27.6
50 17.8 16.2 24.2



#39
1,2-Dichloropropane
Concen: 7.648 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.408 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Tgt Ion: 63 Resp: 744381
Ion Ratio Lower Upper
63 100
41 0.1 61.5 92.3#
62 18.6 53.9 80.9#

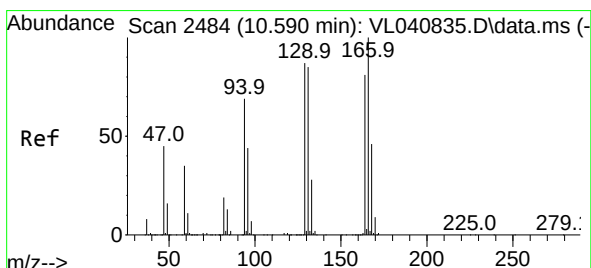
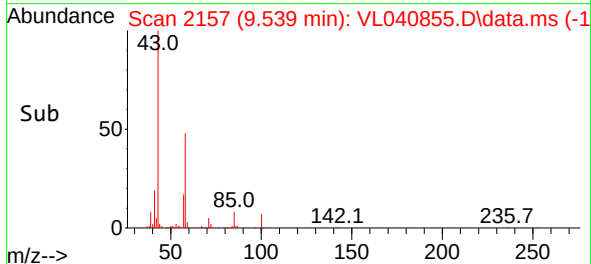
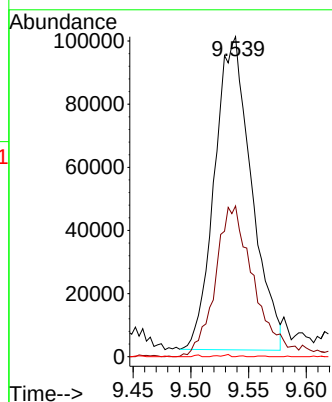
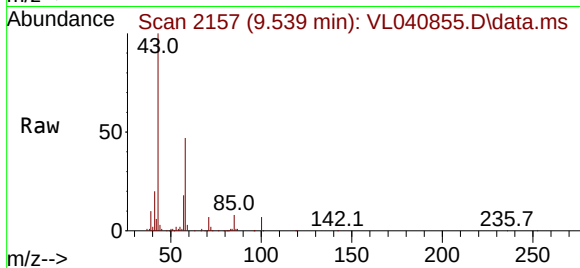




#51
2-Hexanone
Concen: 1.309 ppbv
RT: 9.539 min Scan# 2152
Delta R.T. 0.016 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

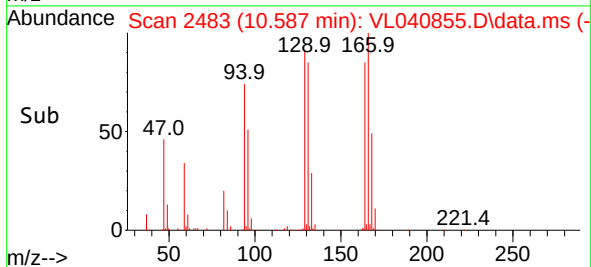
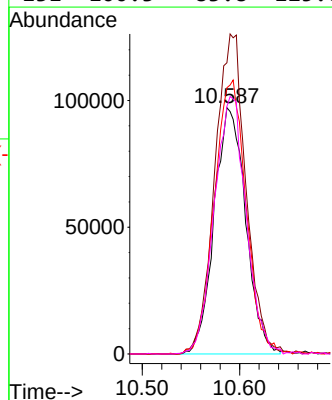
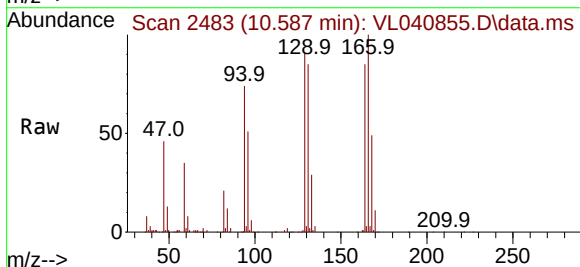
Instrument :
MSVOA_L
ClientSampleId :
SV1

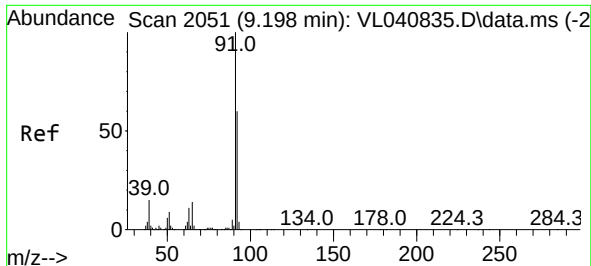
Tgt Ion: 43 Resp: 219999
Ion Ratio Lower Upper
43 100
58 50.6 37.4 56.2
98 0.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 2.643 ppbv
RT: 10.587 min Scan# 2483
Delta R.T. -0.003 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Tgt Ion:164 Resp: 218456
Ion Ratio Lower Upper
164 100
166 118.1 98.3 147.5
129 108.2 85.1 127.7
131 100.3 83.8 125.6

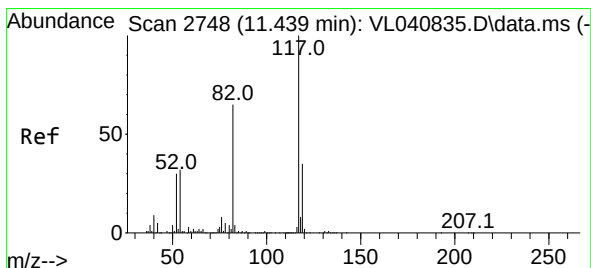
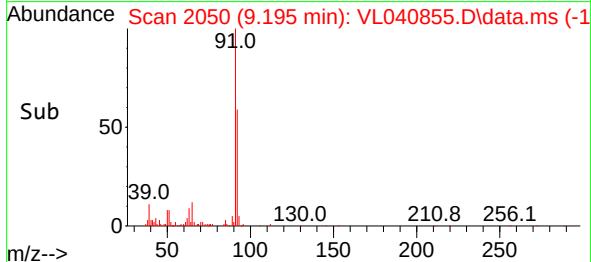
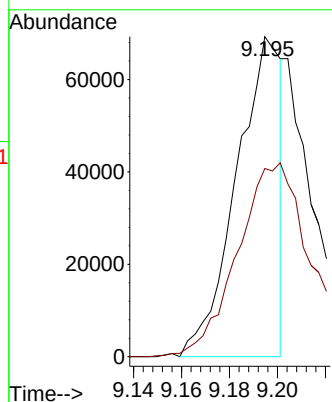
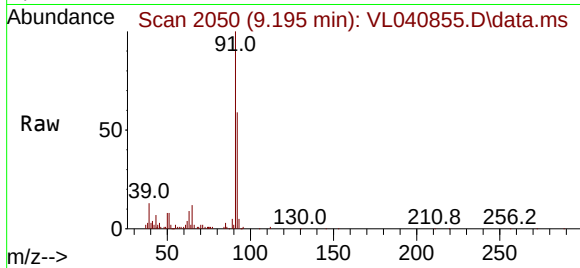




#53
Toluene
Concen: 0.330 ppbv
RT: 9.195 min Scan# 2051
Delta R.T. -0.003 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

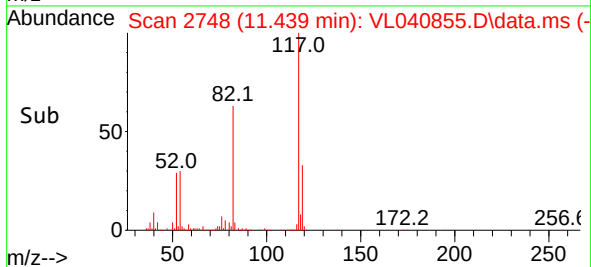
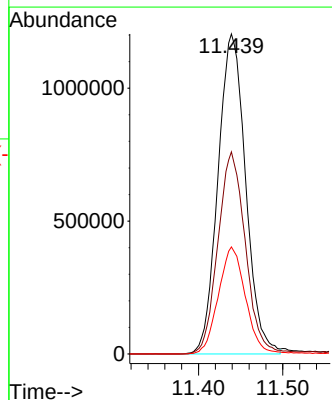
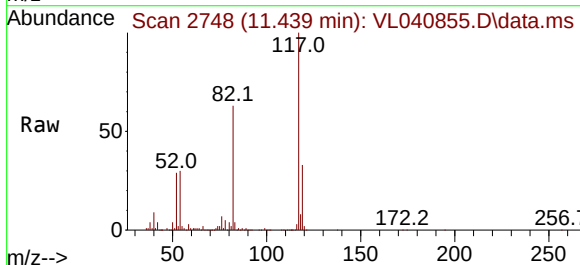
Instrument :
MSVOA_L
ClientSampleId :
SV1

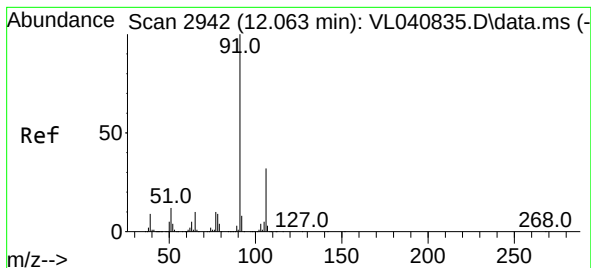
Tgt Ion: 91 Resp: 89110
Ion Ratio Lower Upper
91 100
92 99.6 49.4 74.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. -0.000 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

Tgt Ion: 117 Resp: 2741770
Ion Ratio Lower Upper
117 100
82 63.9 50.6 75.8
119 33.2 23.3 34.9





#58

Ethyl Benzene

Concen: 0.157 ppbv

RT: 12.060 min Scan# 2941

Delta R.T. -0.003 min

Lab File: VL040855.D

Acq: 14 Nov 2023 17:54

Instrument :

MSVOA_L

ClientSampleId :

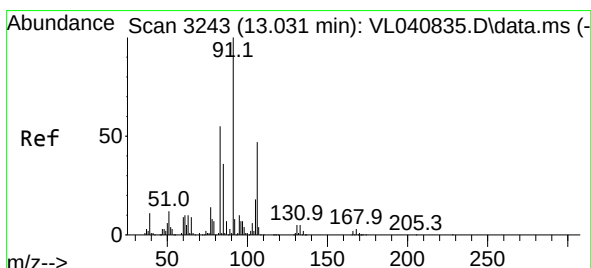
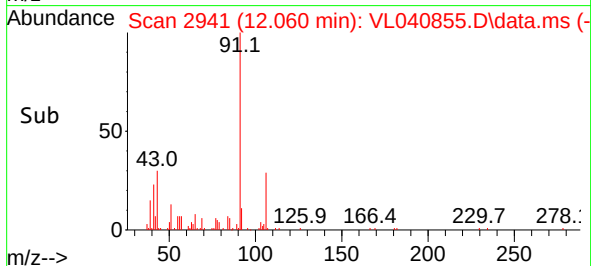
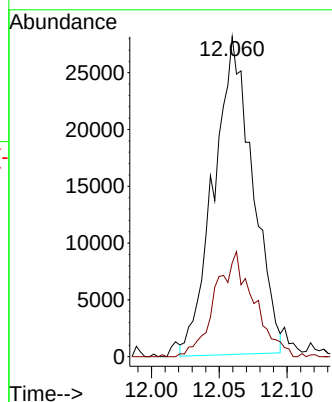
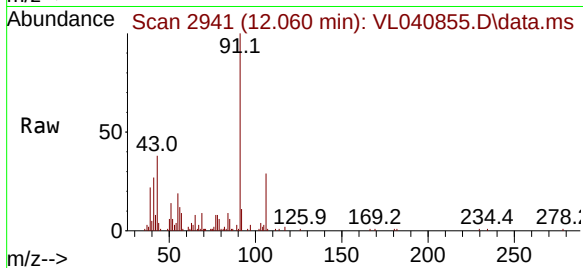
SV1

Tgt Ion: 91 Resp: 56026

Ion Ratio Lower Upper

91 100

106 29.5 25.2 37.8



#60

o-Xylene

Concen: 0.246 ppbv

RT: 13.024 min Scan# 3241

Delta R.T. -0.007 min

Lab File: VL040855.D

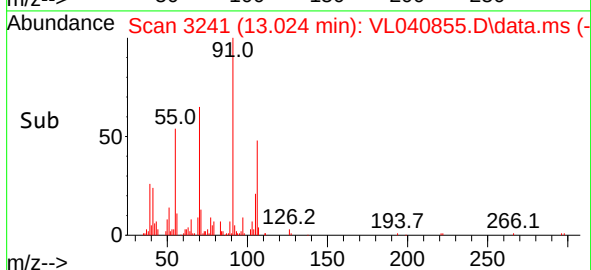
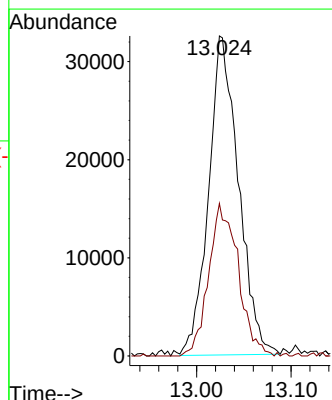
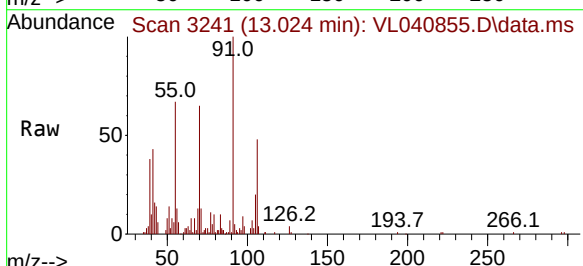
Acq: 14 Nov 2023 17:54

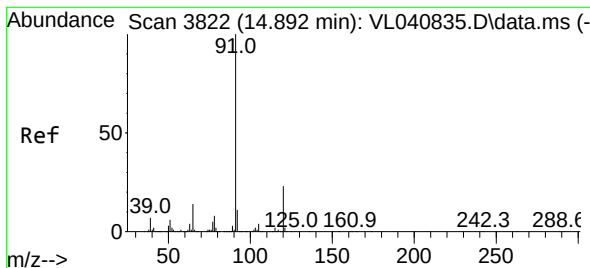
Tgt Ion: 91 Resp: 71483

Ion Ratio Lower Upper

91 100

106 47.3 22.9 68.5





#64

n-propylbenzene

Concen: 0.031 ppbv

RT: 14.886 min Scan# 31

Delta R.T. -0.007 min

Lab File: VL040855.D

Acq: 14 Nov 2023 17:54

Instrument :

MSVOA_L

ClientSampleId :

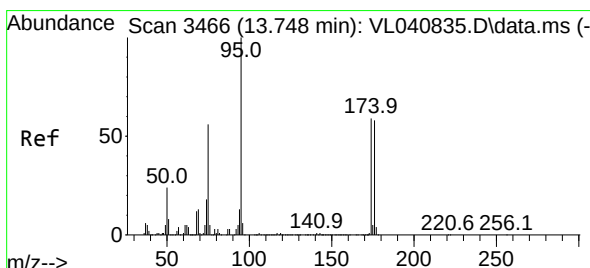
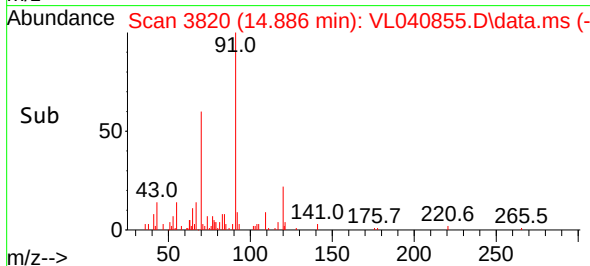
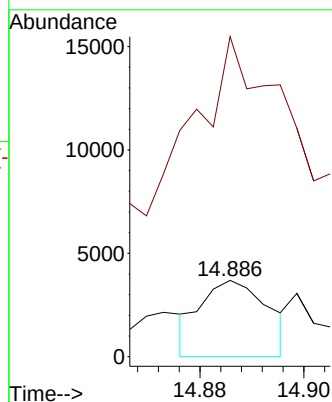
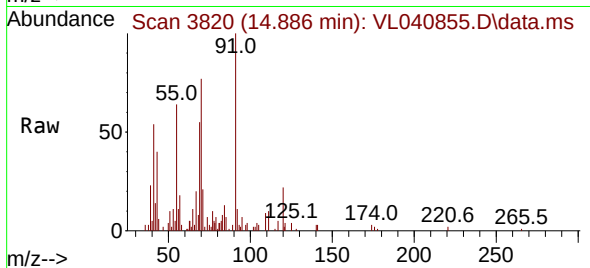
SV1

Tgt Ion:120 Resp: 3300

Ion Ratio Lower Upper

120 100

91 1273.6 381.1 571.7#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.967 ppbv

RT: 13.744 min Scan# 3465

Delta R.T. -0.003 min

Lab File: VL040855.D

Acq: 14 Nov 2023 17:54

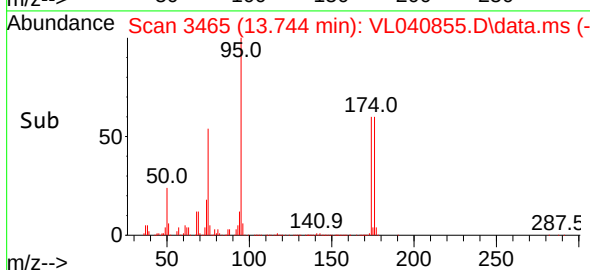
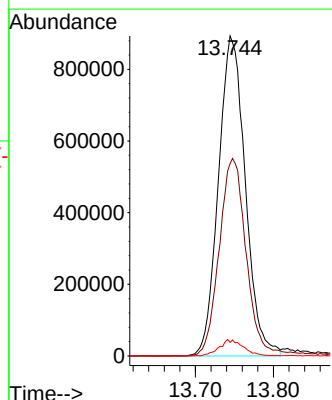
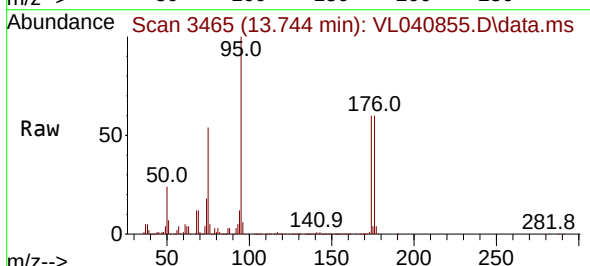
Tgt Ion: 95 Resp: 2139546

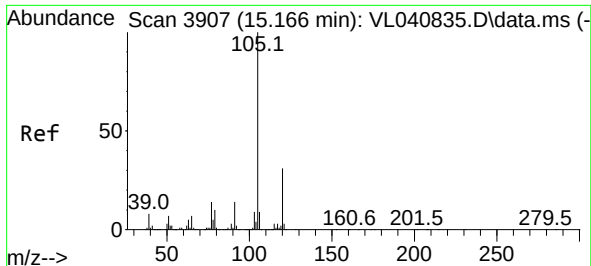
Ion Ratio Lower Upper

95 100

174 63.3 47.5 71.3

175 4.6 3.6 5.4

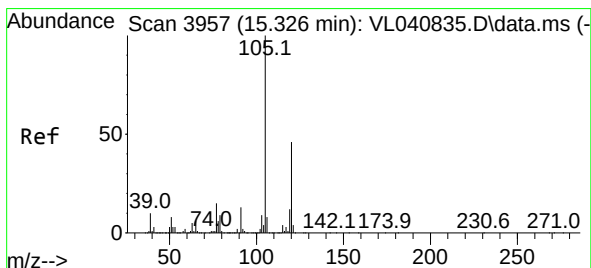
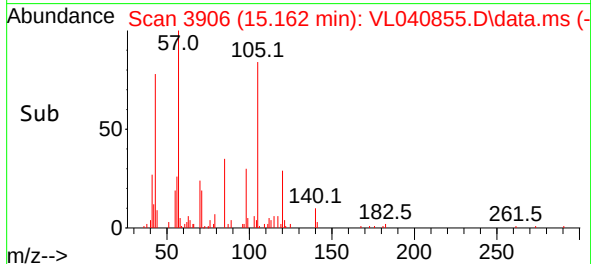
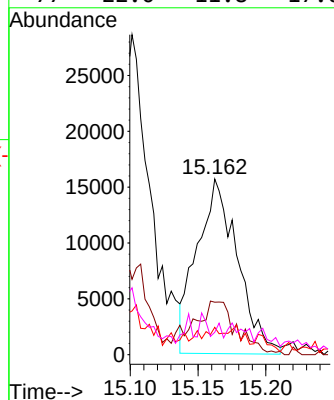
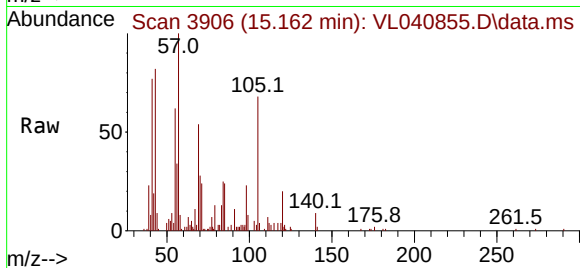




#72
4-Ethyltoluene
Concen: 0.102 ppbv
RT: 15.162 min Scan# 3906
Delta R.T. -0.003 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

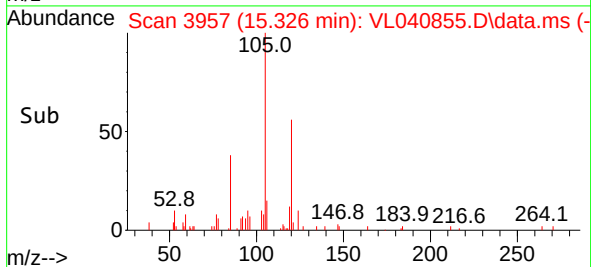
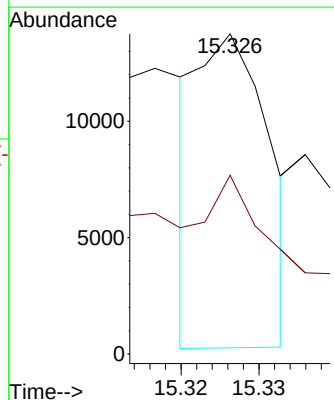
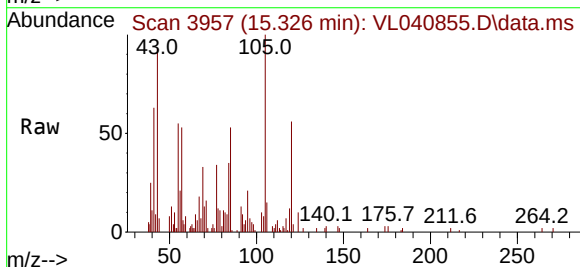
Instrument :
MSVOA_L
ClientSampleId :
SV1

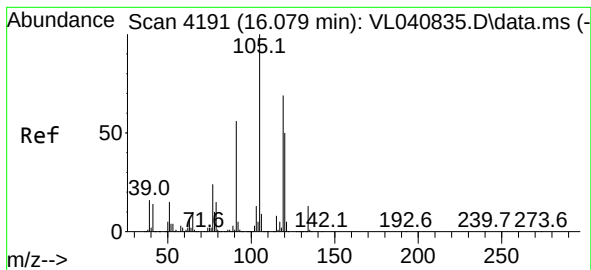
Tgt Ion:105 Resp: 32468
Ion Ratio Lower Upper
105 100
120 35.0 24.5 36.7
91 15.6 10.6 16.0
77 22.0 11.8 17.6#



#73
1,3,5-Trimethylbenzene
Concen: 0.030 ppbv
RT: 15.326 min Scan# 3957
Delta R.T. -0.000 min
Lab File: VL040855.D
Acq: 14 Nov 2023 17:54

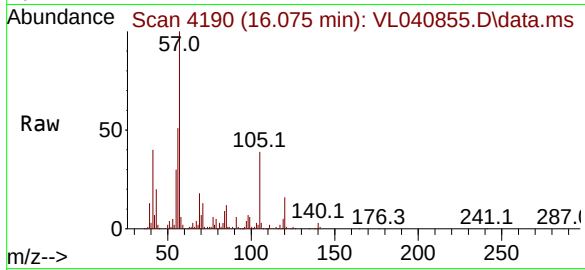
Tgt Ion:105 Resp: 8541
Ion Ratio Lower Upper
105 100
120 42.5 36.8 55.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.334 ppbv
 RT: 16.075 min Scan# 4191
 Delta R.T. -0.003 min
 Lab File: VL040855.D
 Acq: 14 Nov 2023 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	105072
Ion	Ratio	Lower	Upper
105	100		
120	38.8	40.2	60.2#
91	13.2	45.7	68.5#
77	12.6	19.2	28.8#

