

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112024\
 Data File : VL041705.D
 Acq On : 20 Nov 2024 18:35
 Operator : SY/MD
 Sample : P4911-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 05:14:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

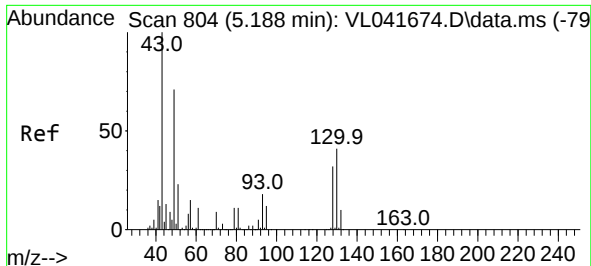
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	1055210	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.671	114	2827390	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.487	117	2487601	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1856050	10.126	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.300%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	121975	0.640	ppbv	99
3) Chlorodifluoromethane	2.693	51	75536	0.549	ppbv #	82
4) Chloromethane	2.835	50	33216	0.456	ppbv	97
9) Propene	2.893	41	86245	1.440	ppbv	94
10) Heptane	7.606	43	4289	0.032	ppbv #	27
11) Trichlorofluoromethane	3.584	101	35474	0.214	ppbv	89
12) 1,1,2-Trichlorotrifluo...	4.082	101	4728	0.039	ppbv #	13
13) Ethanol	3.262	45	1094180	298.287	ppbv	96
15) Acetone	3.488	43	1001441	7.711	ppbv	98
16) 1,3-Butadiene	2.989	39	11469	0.175	ppbv #	11
17) tert-Butyl alcohol	3.915	59	3547	0.031	ppbv #	72
19) Isopropyl Alcohol	3.603	45	1006045	16.208	ppbv	99
20) Methylene Chloride	3.954	84	100579	2.105	ppbv	95
23) Vinyl Acetate	4.642	43	5914	0.103	ppbv #	32
25) Ethyl Acetate	5.233	43	111918	0.416	ppbv #	88
26) Hexane	5.233	57	101886	0.987	ppbv #	43
34) 2-Butanone	4.812	43	55080	0.391	ppbv	100
35) Carbon Tetrachloride	6.507	117	4548	0.030	ppbv #	58
36) Benzene	6.388	78	74505	0.356	ppbv	97
39) 1,2-Dichloropropane	6.671	63	700215	8.458	ppbv #	23
44) 2,2,4-Trimethylpentane	7.346	57	30621	0.086	ppbv #	54
53) Toluene	9.246	91	47452	0.215	ppbv #	30

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

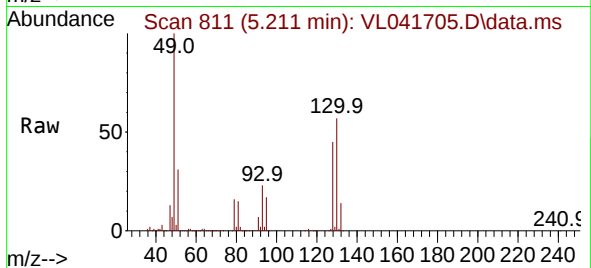
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Nov 08 01:01:00 2024
Response via : Initial Calibration



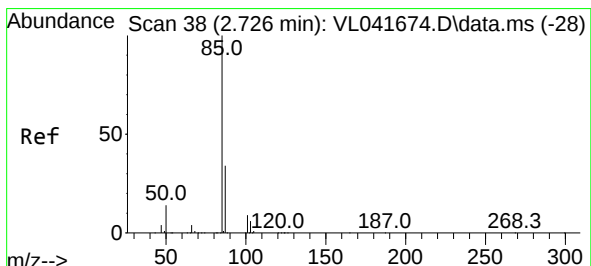
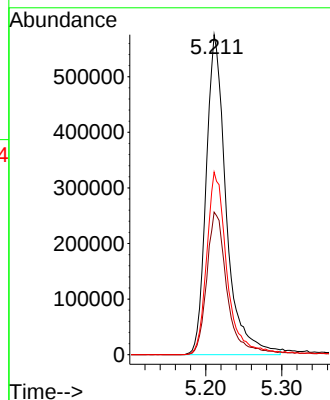
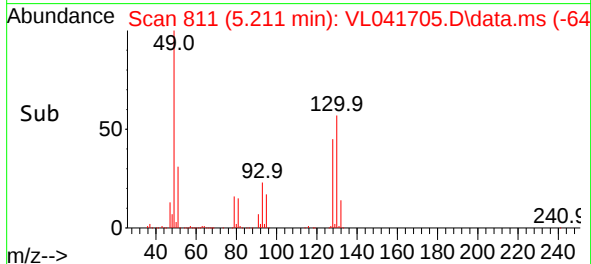


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.211 min Scan# 81
 Delta R.T. 0.023 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35

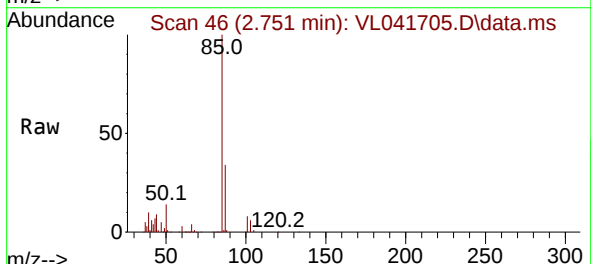
Instrument :
 MSVOA_L
 ClientSampleId :



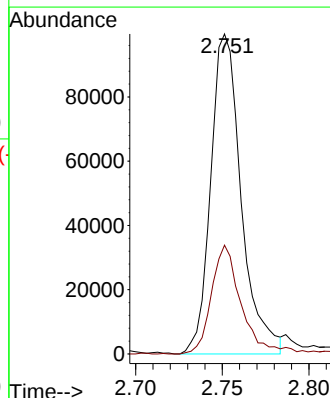
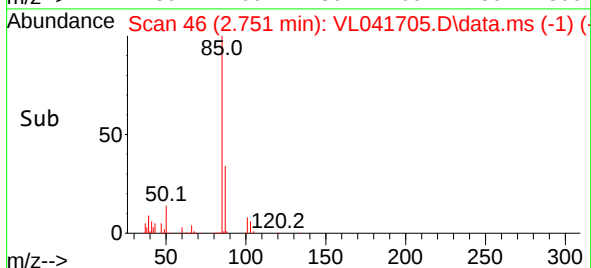
Tgt Ion: 49 Resp: 1055210
 Ion Ratio Lower Upper
 49 100
 128 46.4 23.8 71.2
 130 58.8 30.1 90.5

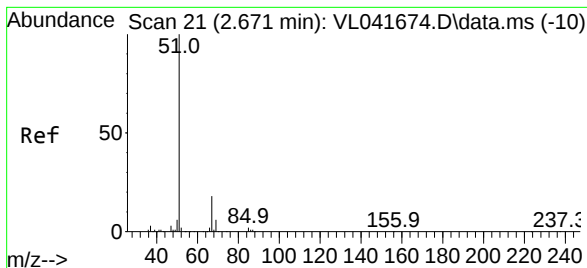


#2
 Dichlorodifluoromethane
 Concen: 0.640 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.026 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35



Tgt Ion: 85 Resp: 121975
 Ion Ratio Lower Upper
 85 100
 87 34.0 26.8 40.2





#3

Chlorodifluoromethane

Concen: 0.549 ppbv

RT: 2.693 min Scan# 21

Delta R.T. 0.022 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_L

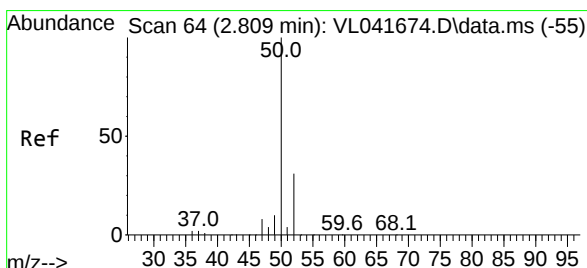
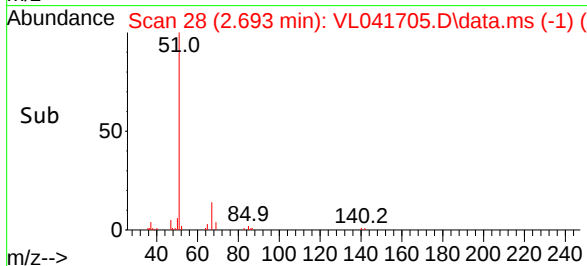
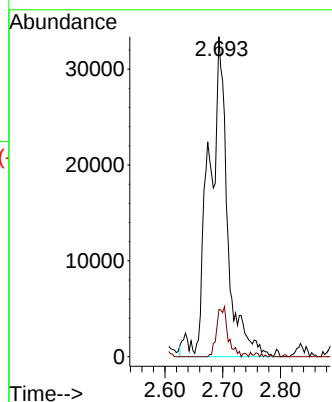
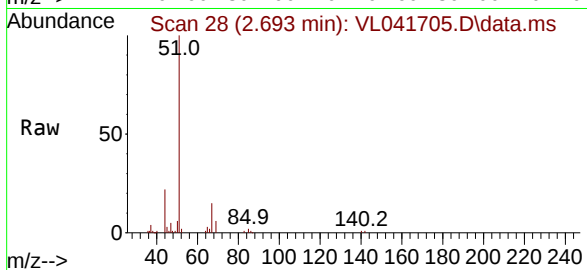
ClientSampleId :

Tgt Ion: 51 Resp: 75536

Ion Ratio Lower Upper

51 100

67 9.7 13.9 20.9#



#4

Chloromethane

Concen: 0.456 ppbv

RT: 2.835 min Scan# 72

Delta R.T. 0.026 min

Lab File: VL041705.D

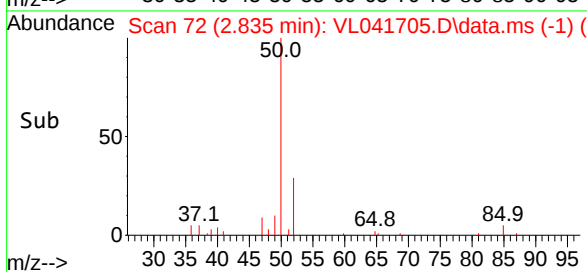
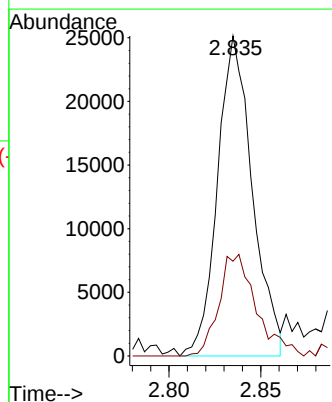
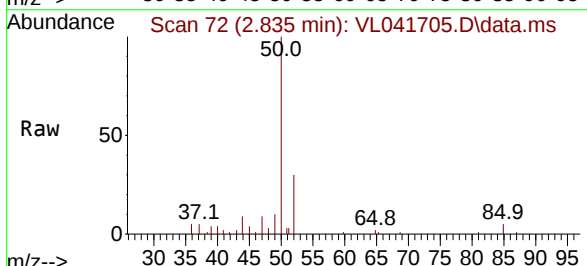
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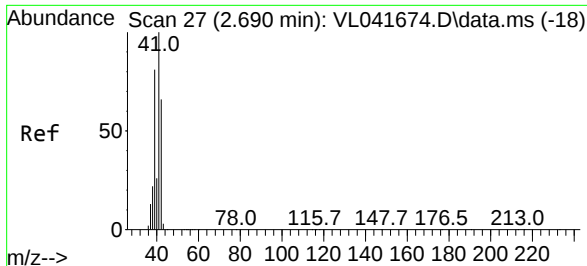
Tgt Ion: 50 Resp: 33216

Ion Ratio Lower Upper

50 100

52 29.6 24.9 37.3

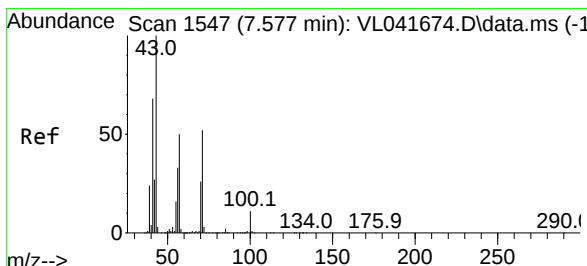
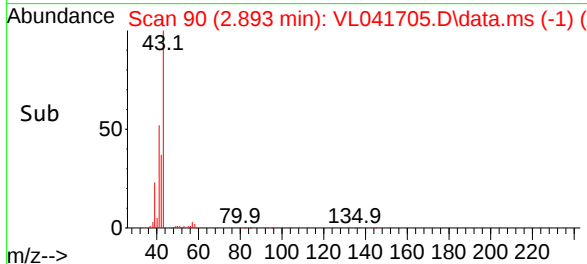
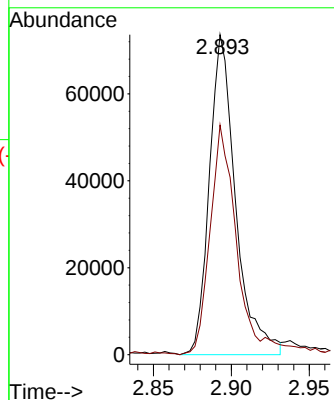
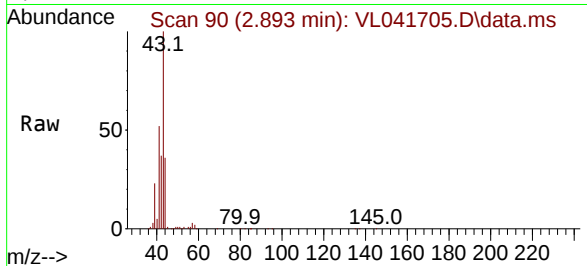




#9
Propene
Concen: 1.440 ppbv
RT: 2.893 min Scan# 90
Delta R.T. 0.203 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

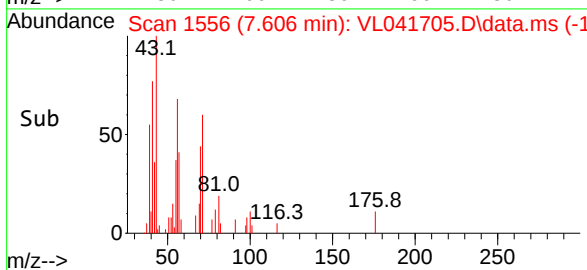
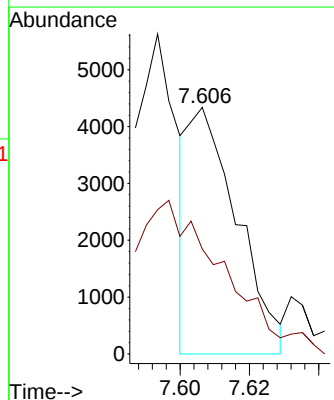
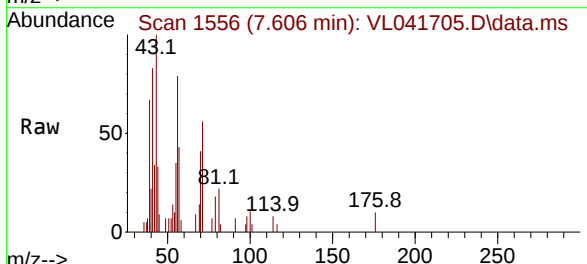
Instrument :
MSVOA_L
ClientSampleId :

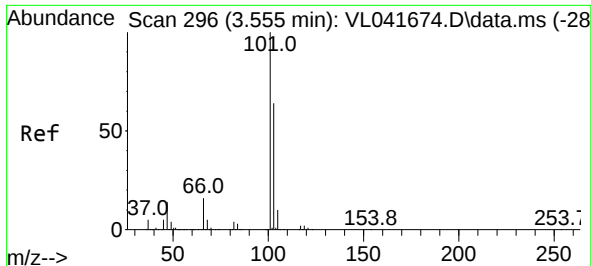
Tgt Ion: 41 Resp: 86245
Ion Ratio Lower Upper
41 100
42 73.3 55.0 82.4



#10
Heptane
Concen: 0.032 ppbv
RT: 7.606 min Scan# 1556
Delta R.T. 0.029 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

Tgt Ion: 43 Resp: 4289
Ion Ratio Lower Upper
43 100
57 0.0 40.0 60.0#

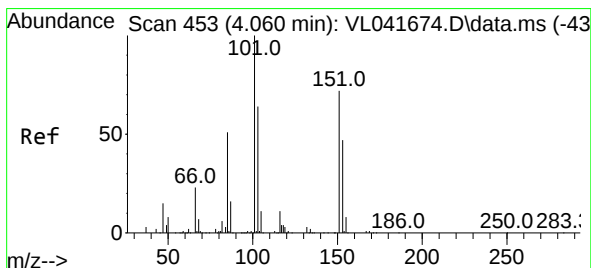
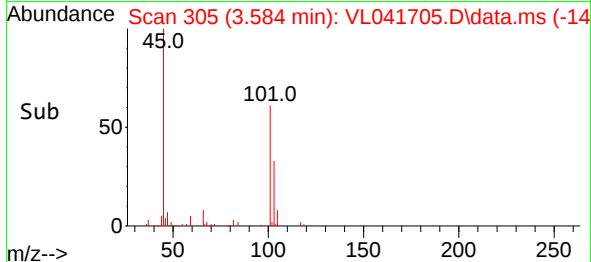
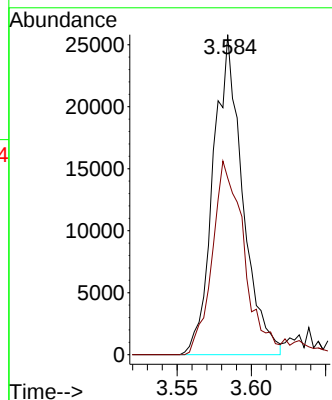
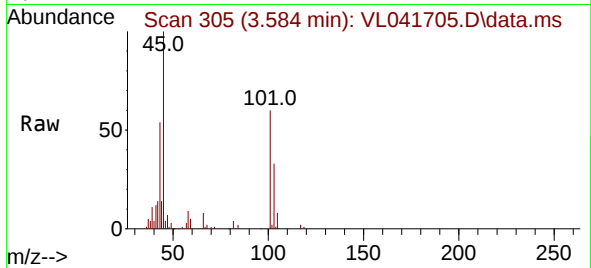




#11
 Trichlorofluoromethane
 Concen: 0.214 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.029 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35

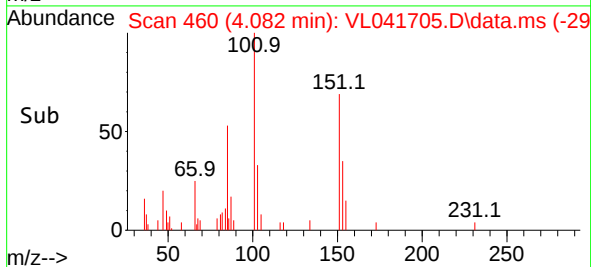
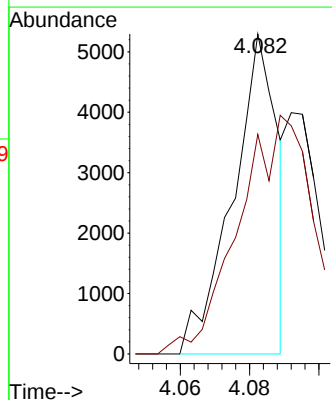
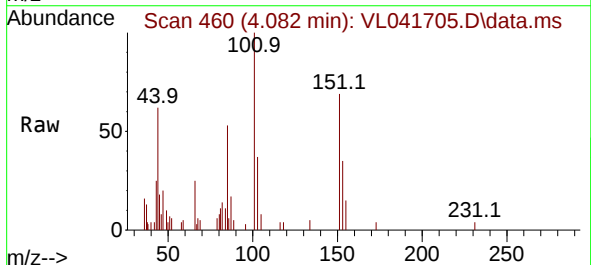
Instrument :
 MSVOA_L
 ClientSampleId :

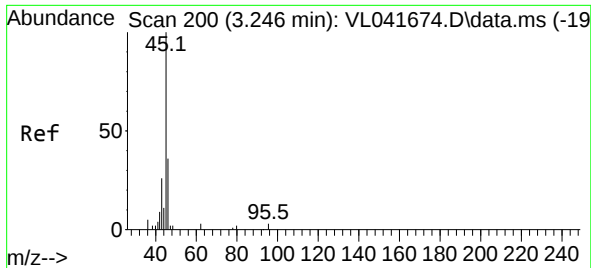
Tgt Ion:101 Resp: 35474
 Ion Ratio Lower Upper
 101 100
 103 55.2 51.0 76.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.082 min Scan# 460
 Delta R.T. 0.022 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35

Tgt Ion:101 Resp: 4728
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.1 88.7#

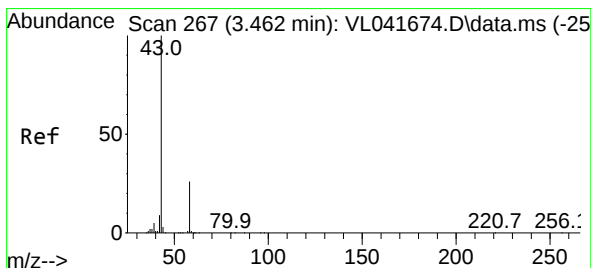
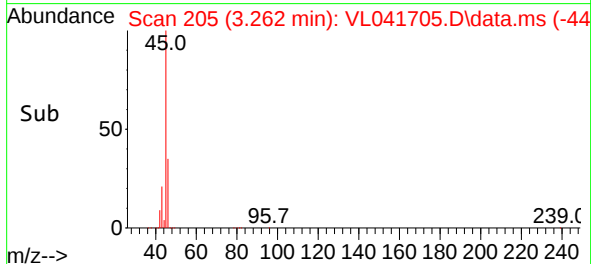
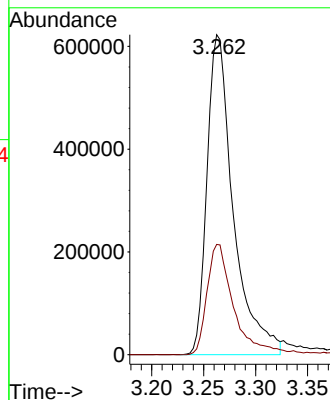
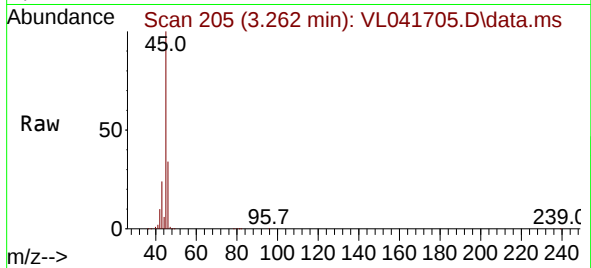




#13
 Ethanol
 Concen: 298.287 ppbv
 RT: 3.262 min Scan# 20
 Delta R.T. 0.016 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35

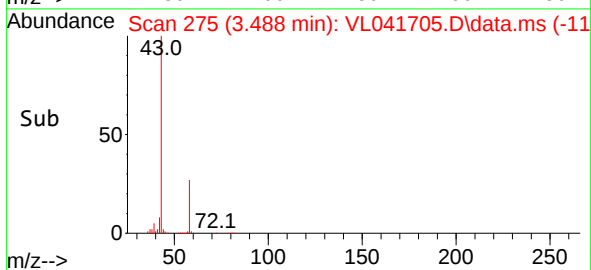
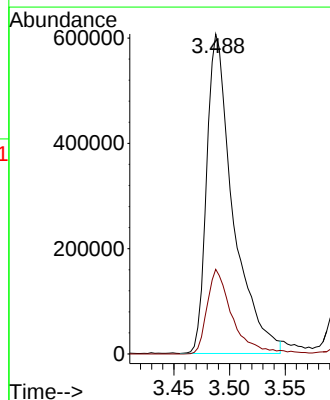
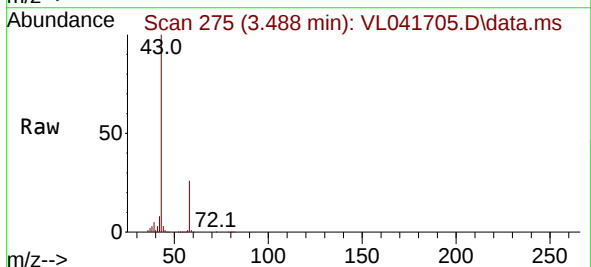
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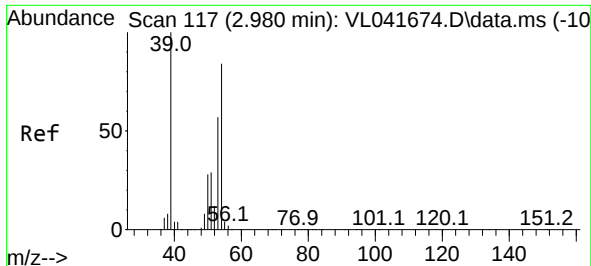
Tgt Ion: 45 Resp: 1094180
 Ion Ratio Lower Upper
 45 100
 46 36.7 13.8 55.2



#15
 Acetone
 Concen: 7.711 ppbv
 RT: 3.488 min Scan# 275
 Delta R.T. 0.026 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35

Tgt Ion: 43 Resp: 1001441
 Ion Ratio Lower Upper
 43 100
 58 25.5 21.4 32.0

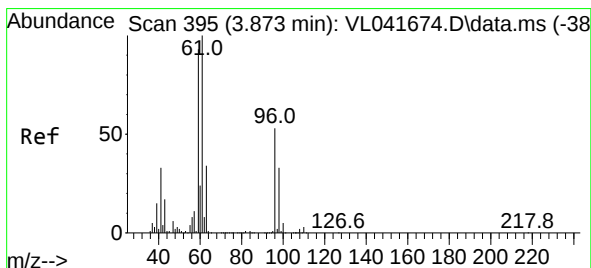
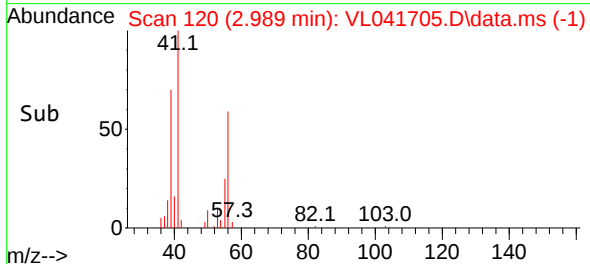
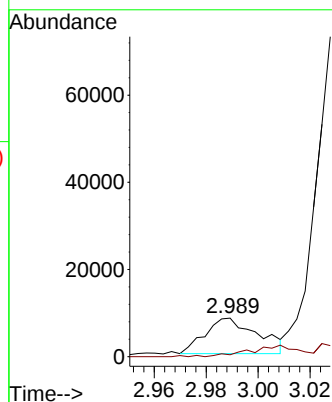
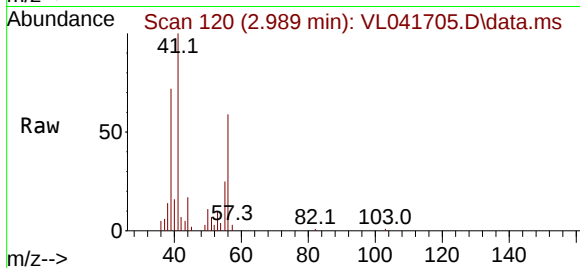




#16
1,3-Butadiene
Concen: 0.175 ppbv
RT: 2.989 min Scan# 117
Delta R.T. 0.010 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

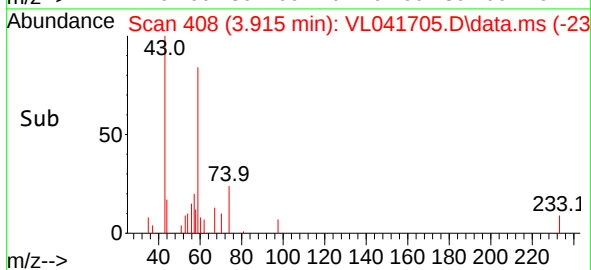
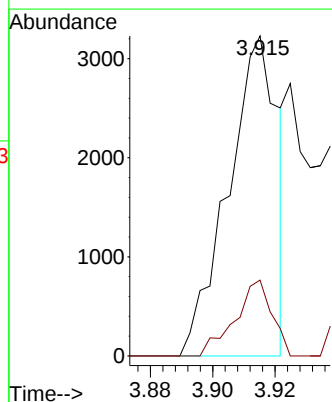
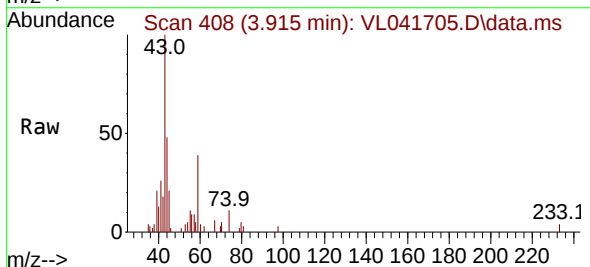
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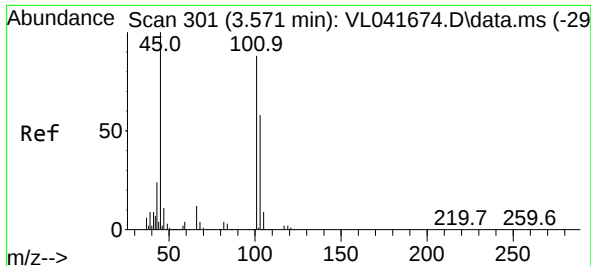
Tgt Ion: 39 Resp: 11469
Ion Ratio Lower Upper
39 100
54 0.0 61.3 91.9#



#17
tert-Butyl alcohol
Concen: 0.031 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.042 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

Tgt Ion: 59 Resp: 3547
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 16.208 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.032 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_L

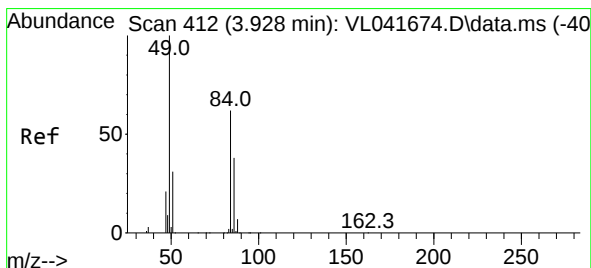
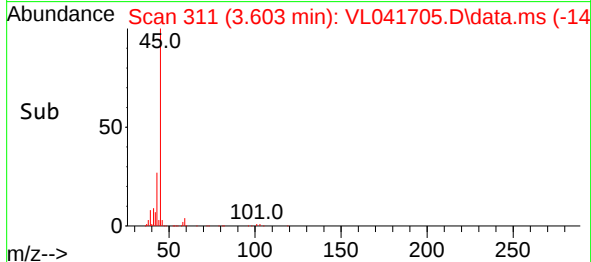
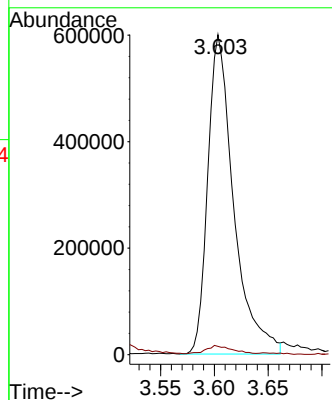
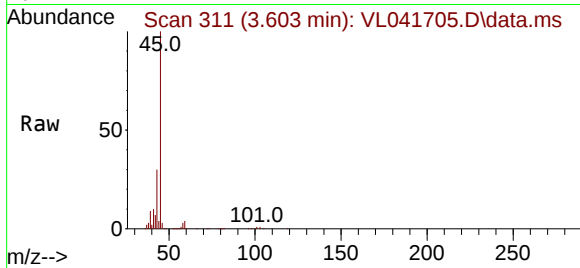
ClientSampleId :

Tgt Ion: 45 Resp: 1006045

Ion Ratio Lower Upper

45 100

58 3.4 2.5 3.7



#20

Methylene Chloride

Concen: 2.105 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.026 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

Tgt Ion: 84 Resp: 100579

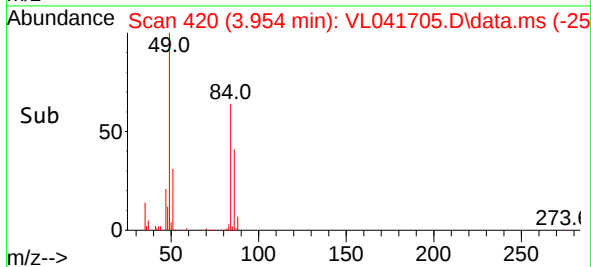
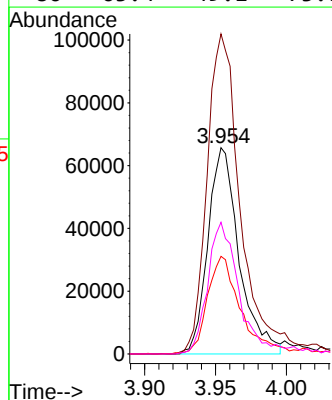
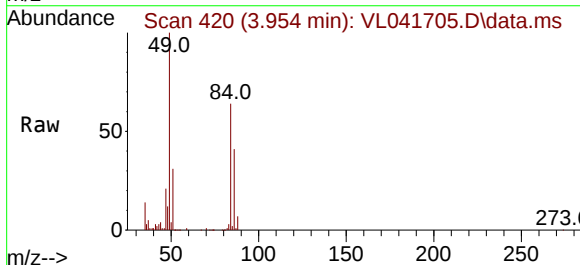
Ion Ratio Lower Upper

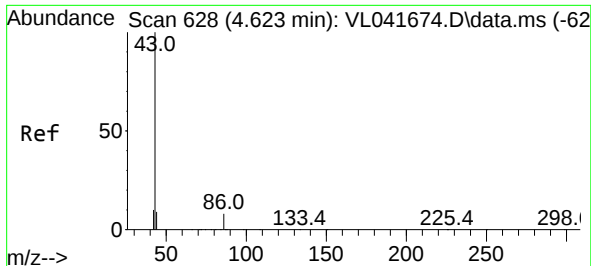
84 100

49 154.2 129.7 194.5

51 46.9 39.8 59.6

86 63.4 49.1 73.7

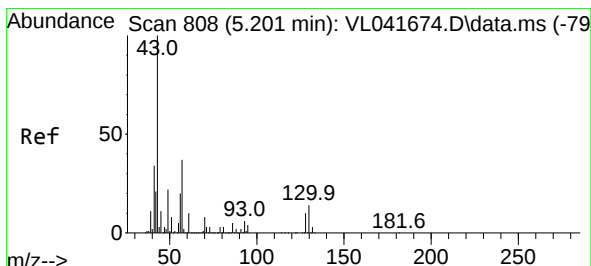
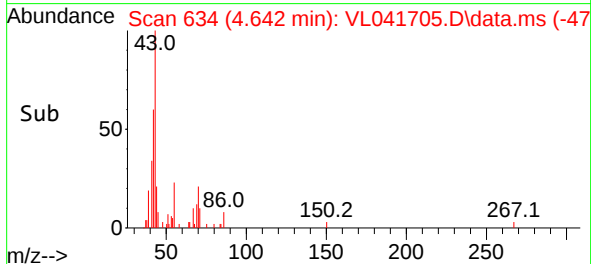
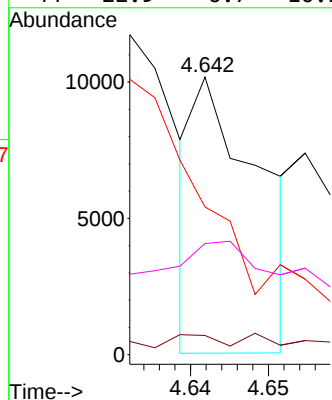
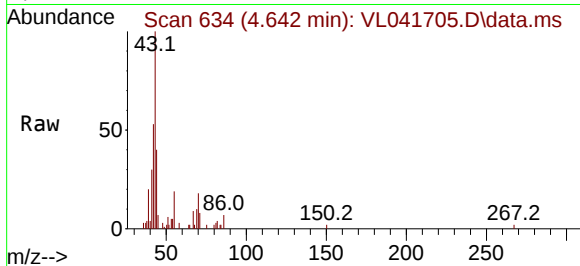




#23
 Vinyl Acetate
 Concen: 0.103 ppbv
 RT: 4.642 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35

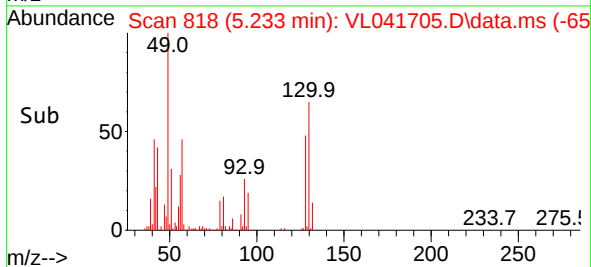
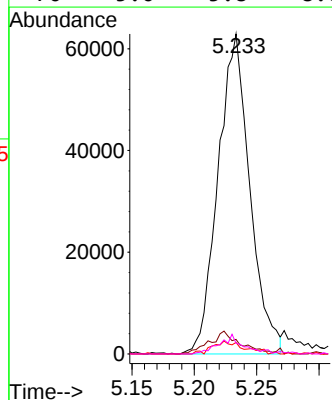
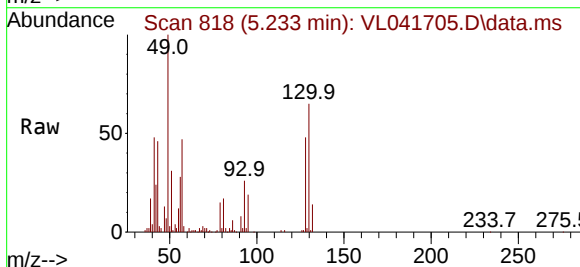
Instrument :
 MSVOA_L
 ClientSampleId :

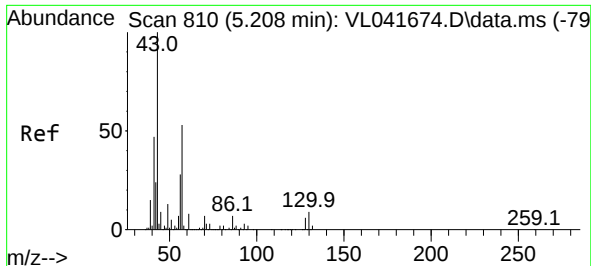
Tgt Ion:	43	Resp:	5914
Ion	Ratio	Lower	Upper
43	100		
86	9.9	5.3	7.9#
42	58.3	8.5	12.7#
44	22.9	6.7	10.1#



#25
 Ethyl Acetate
 Concen: 0.416 ppbv
 RT: 5.233 min Scan# 818
 Delta R.T. 0.032 min
 Lab File: VL041705.D
 Acq: 20 Nov 2024 18:35

Tgt Ion:	43	Resp:	111918
Ion	Ratio	Lower	Upper
43	100		
45	7.2	8.6	13.0#
61	4.0	8.4	12.6#
70	5.0	5.8	8.6#

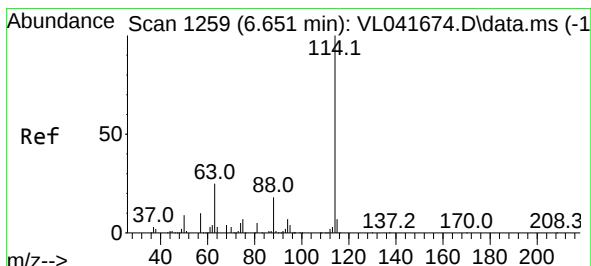
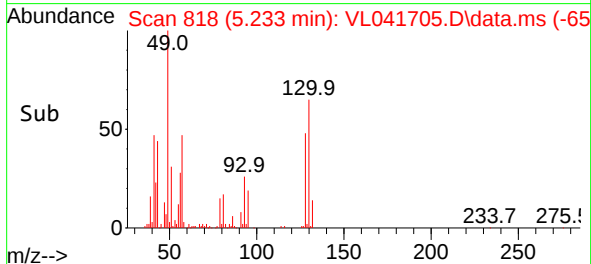
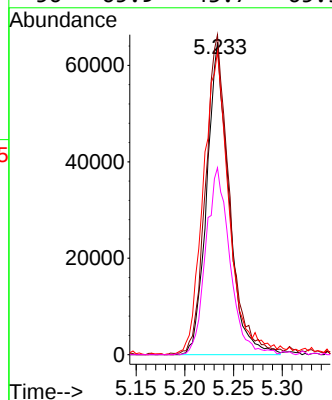
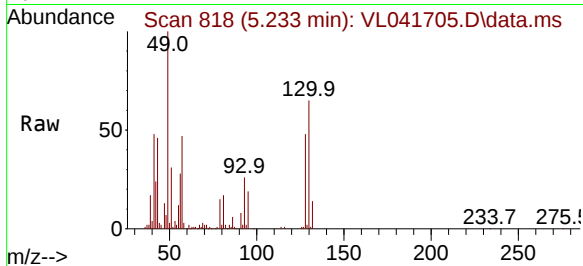




#26
Hexane
Concen: 0.987 ppbv
RT: 5.233 min Scan# 810
Delta R.T. 0.026 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

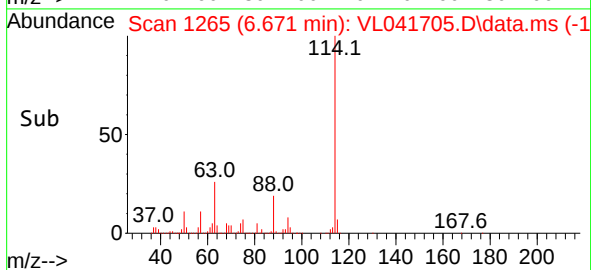
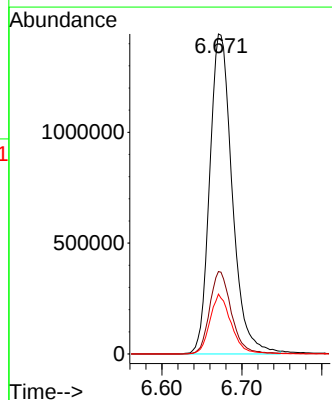
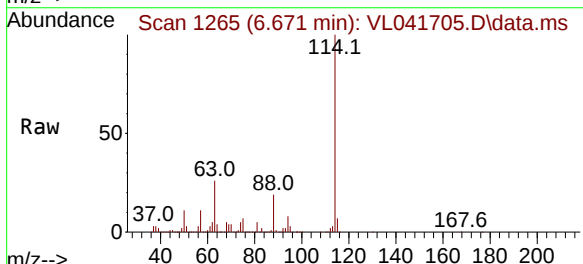
Instrument :
MSVOA_L
ClientSampleId :

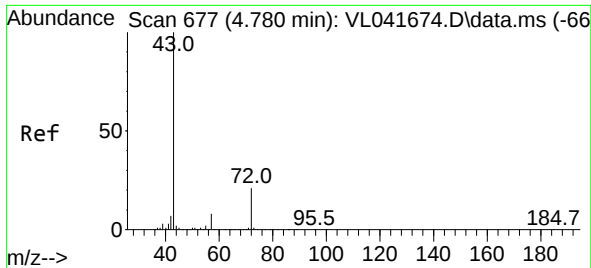
Tgt Ion: 57 Resp: 101886
Ion Ratio Lower Upper
57 100
41 112.8 76.1 114.1
43 116.1 207.0 310.6#
56 65.9 43.7 65.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. 0.019 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

Tgt Ion: 114 Resp: 2827390
Ion Ratio Lower Upper
114 100
63 25.3 20.3 30.5
88 17.7 14.2 21.4

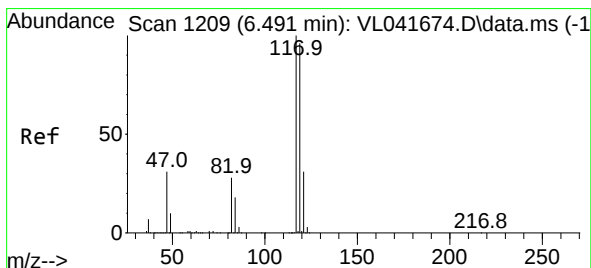
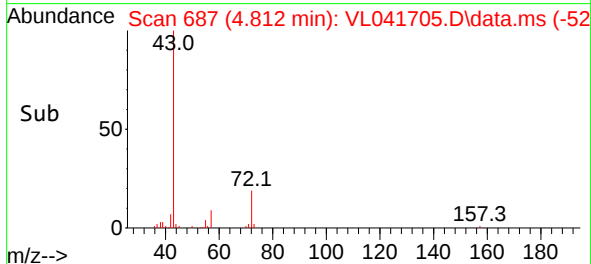
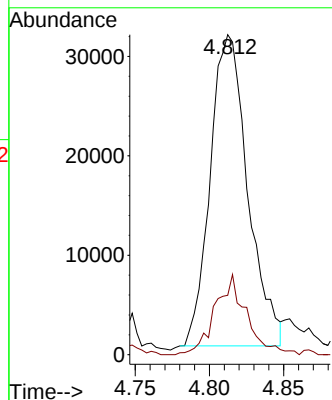
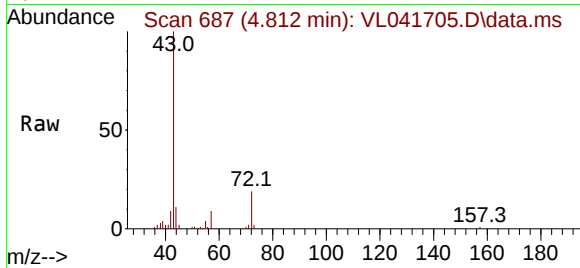




#34
2-Butanone
Concen: 0.391 ppbv
RT: 4.812 min Scan# 61
Delta R.T. 0.032 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

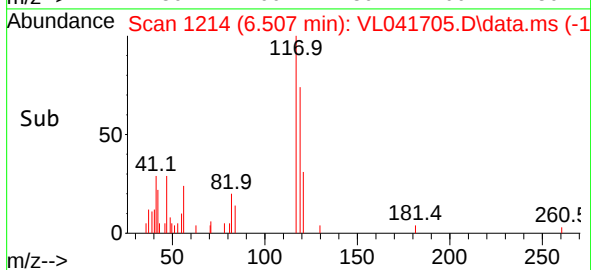
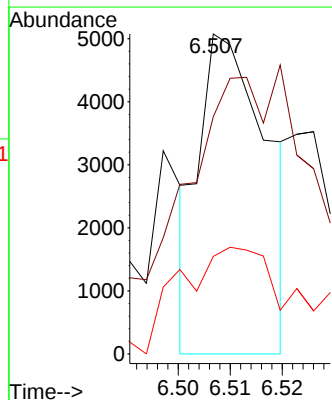
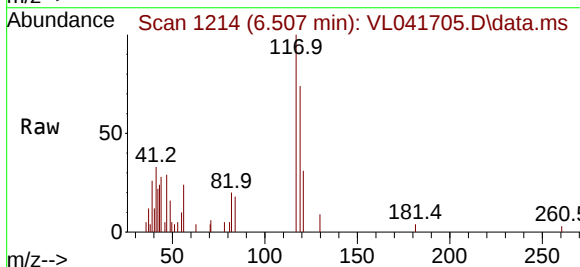
Instrument :
MSVOA_L
ClientSampleId :

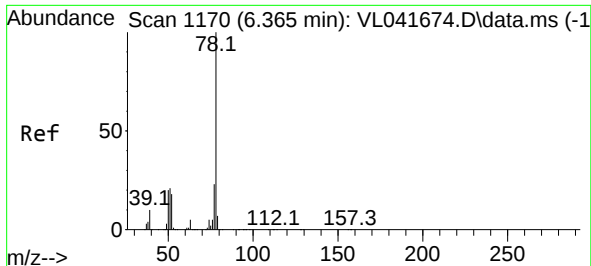
Tgt Ion: 43 Resp: 55080
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 6.507 min Scan# 1214
Delta R.T. 0.016 min
Lab File: VL041705.D
Acq: 20 Nov 2024 18:35

Tgt Ion: 117 Resp: 4548
Ion Ratio Lower Upper
117 100
119 44.7 77.2 115.8#
121 35.7 25.0 37.4





#36

Benzene

Concen: 0.356 ppbv

RT: 6.388 min Scan# 1177

Delta R.T. 0.023 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_L

ClientSampleId :

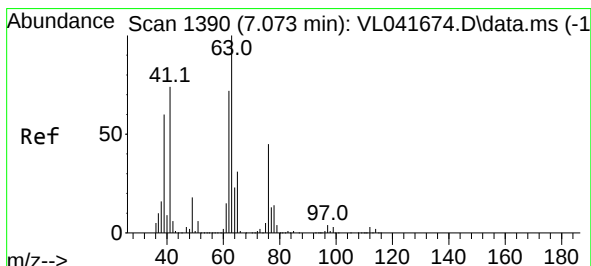
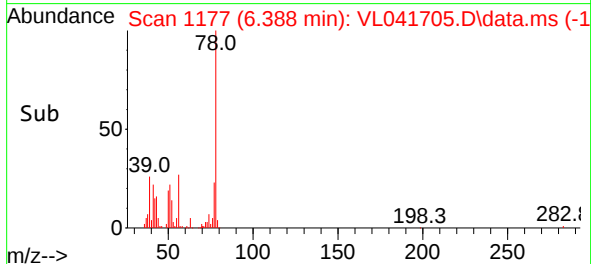
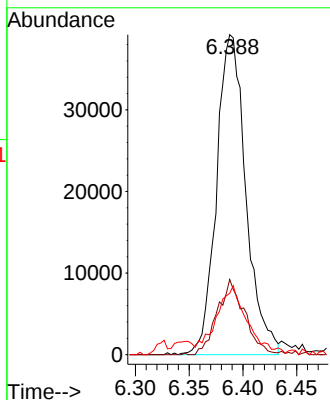
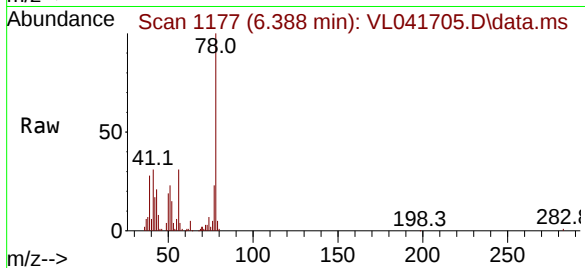
Tgt Ion: 78 Resp: 74505

Ion Ratio Lower Upper

78 100

77 23.5 18.5 27.7

50 17.1 15.6 23.4



#39

1,2-Dichloropropane

Concen: 8.458 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. -0.402 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

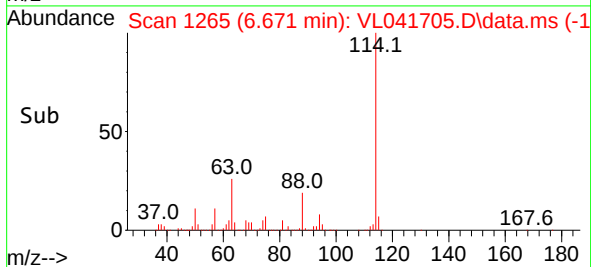
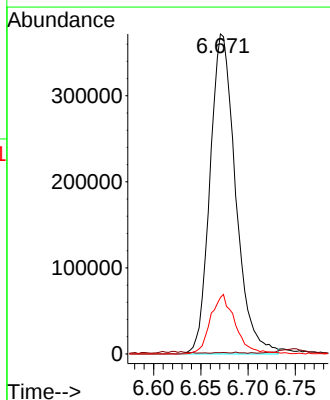
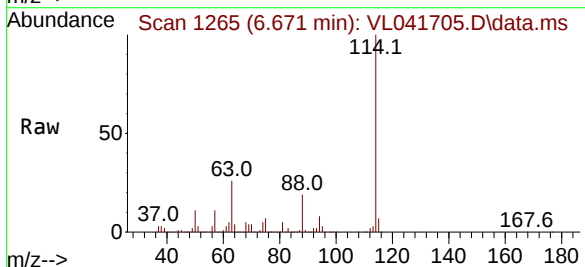
Tgt Ion: 63 Resp: 700215

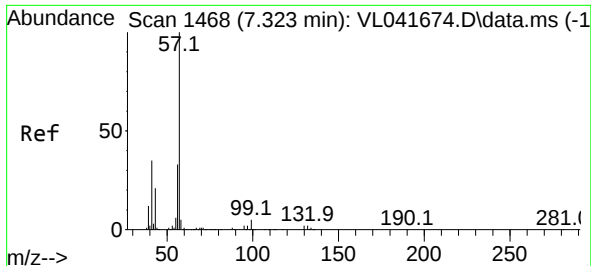
Ion Ratio Lower Upper

63 100

41 0.0 59.1 88.7#

62 17.6 57.7 86.5#





#44

2,2,4-Trimethylpentane

Concen: 0.086 ppbv

RT: 7.346 min Scan# 1468

Delta R.T. 0.022 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_L

ClientSampleId :

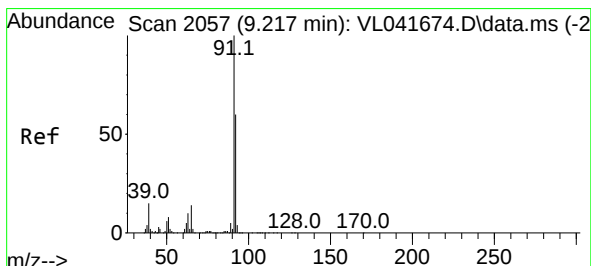
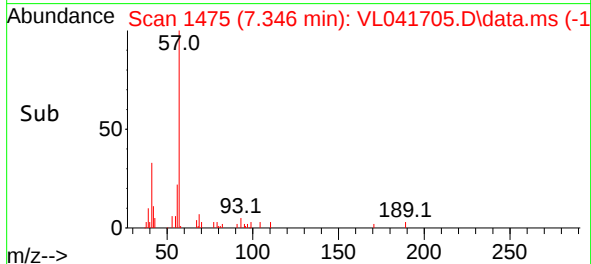
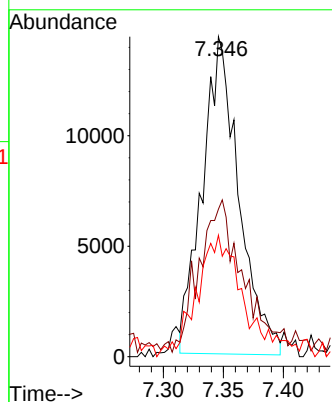
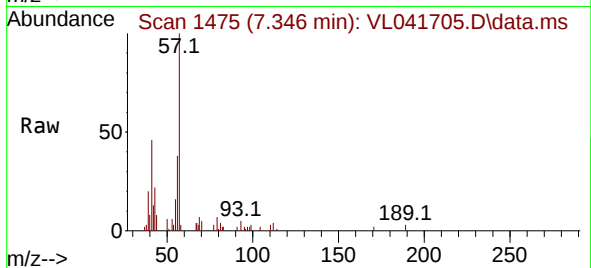
Tgt Ion: 57 Resp: 30621

Ion Ratio Lower Upper

57 100

41 66.8 27.0 40.6#

56 50.8 25.8 38.6#



#53

Toluene

Concen: 0.215 ppbv

RT: 9.246 min Scan# 2066

Delta R.T. 0.029 min

Lab File: VL041705.D

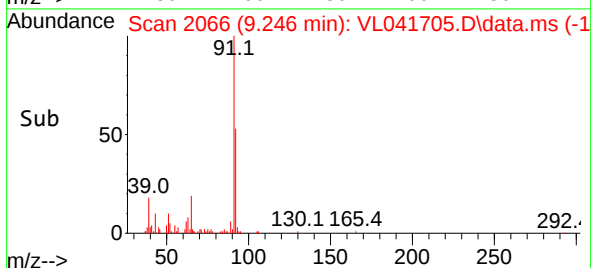
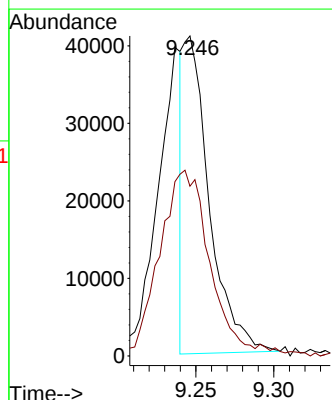
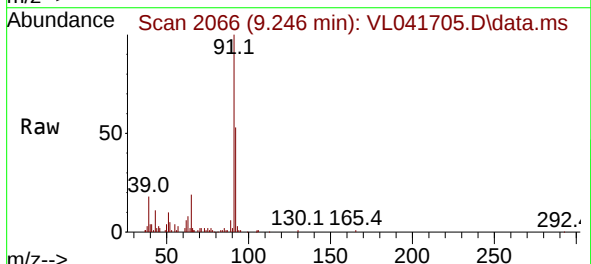
Acq: 20 Nov 2024 18:35

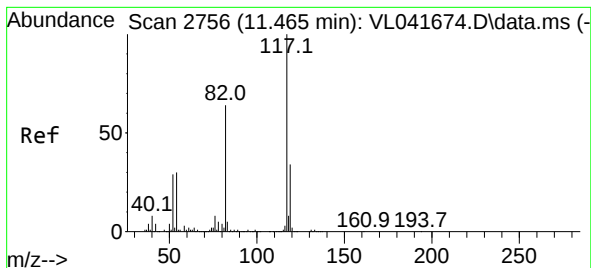
Tgt Ion: 91 Resp: 47452

Ion Ratio Lower Upper

91 100

92 114.7 49.0 73.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.487 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

Instrument :

MSVOA_L

ClientSampleId :

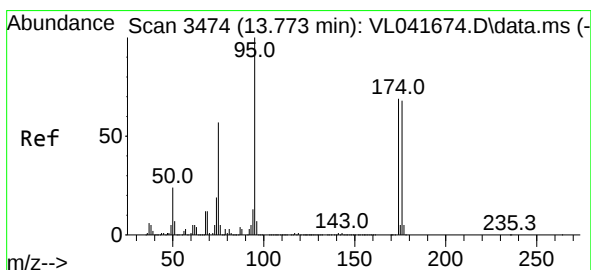
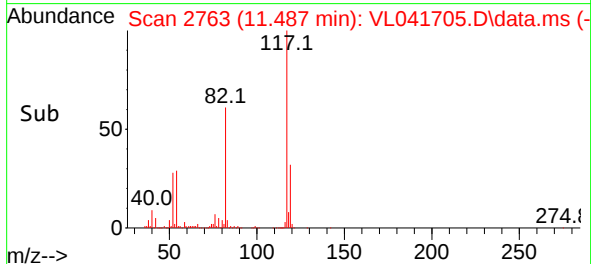
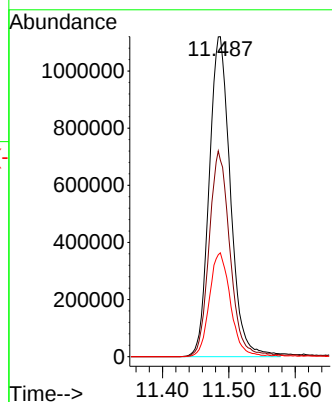
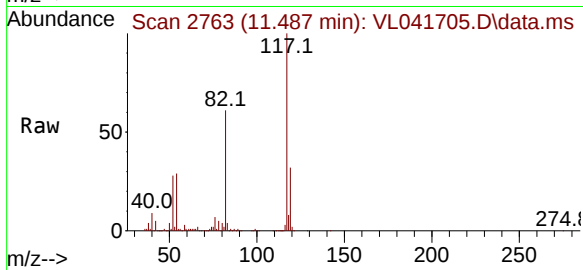
Tgt Ion:117 Resp: 2487601

Ion Ratio Lower Upper

117 100

82 64.3 49.8 74.8

119 32.7 24.2 36.4



#68

1-Bromo-4-Fluorobenzene

Concen: 10.126 ppbv

RT: 13.796 min Scan# 3481

Delta R.T. 0.023 min

Lab File: VL041705.D

Acq: 20 Nov 2024 18:35

Tgt Ion: 95 Resp: 1856050

Ion Ratio Lower Upper

95 100

174 69.1 55.6 83.4

175 5.1 4.2 6.2

