

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080824\
 Data File : VL041515.D
 Acq On : 8 Aug 2024 16:29
 Operator : SY/MD
 Sample : P3496-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5

Quant Time: Aug 09 05:56:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 06 01:32:58 2024
 Response via : Initial Calibration

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

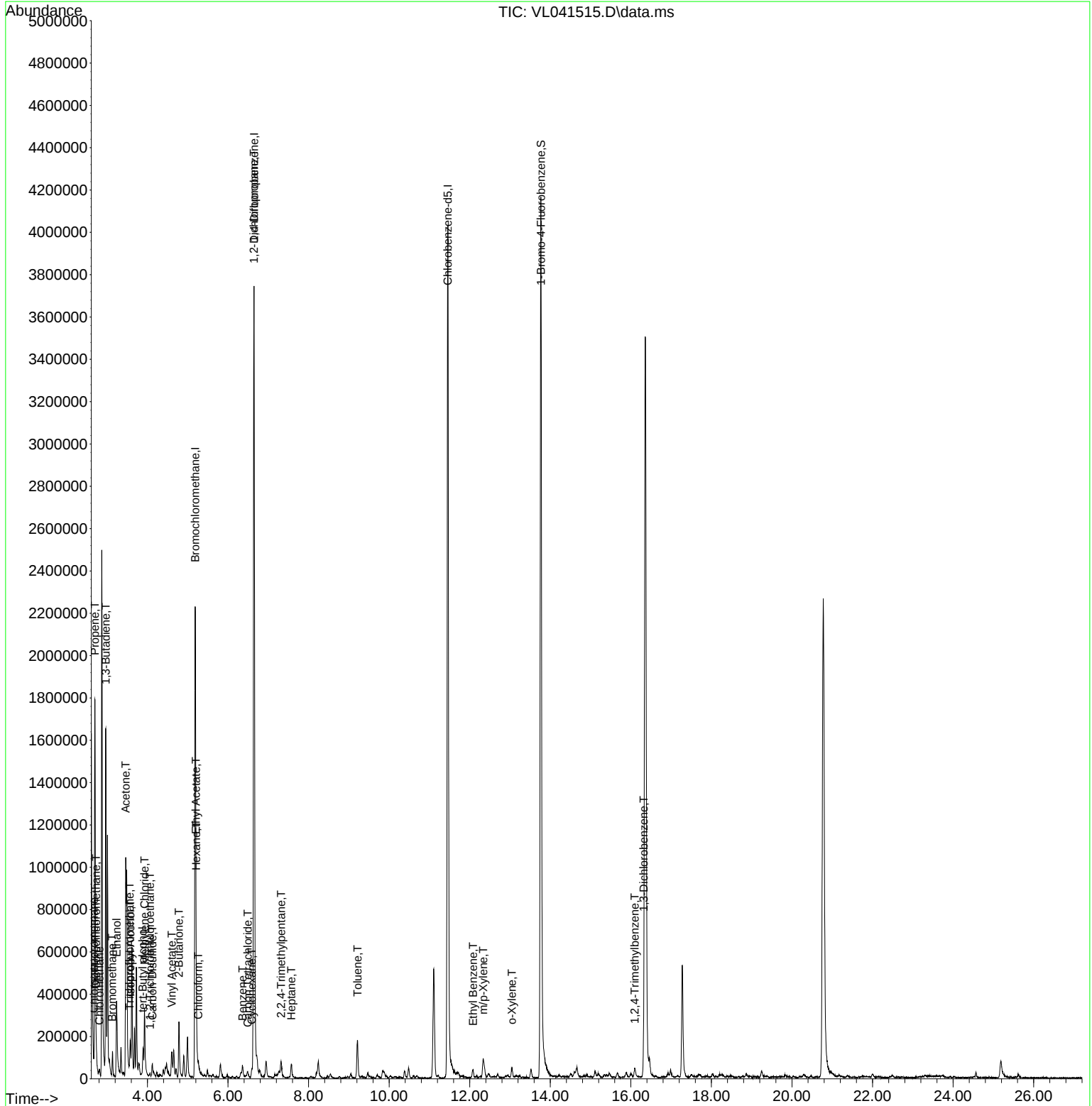
Internal Standards						
1) Bromochloromethane	5.185	49	1062298	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2829410	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2662794	10.000	ppbv	# 0.00

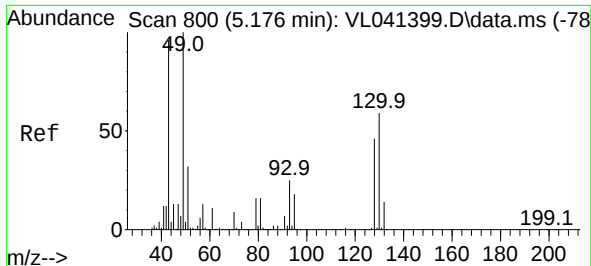
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2072887	10.116	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.725	85	28856	0.158	ppbv	98
3) Chlorodifluoromethane	2.671	51	41806	0.331	ppbv #	86
4) Chloromethane	2.806	50	23391	0.348	ppbv	93
6) Bromomethane	3.121	94	1505	0.044	ppbv #	40
9) Propene	2.693	41	723202	12.449	ppbv	89
10) Heptane	7.571	43	20931	0.160	ppbv	92
11) Trichlorofluoromethane	3.561	101	19828	0.122	ppbv	87
12) 1,1,2-Trichlorotrifluo...	4.063	101	3712	0.032	ppbv	96
13) Ethanol	3.234	45	406443	78.278	ppbv	90
15) Acetone	3.462	43	1250350	10.359	ppbv	95
16) 1,3-Butadiene	2.967	39	399148	6.190	ppbv #	19
17) tert-Butyl alcohol	3.883	59	27304	0.248	ppbv #	72
19) Isopropyl Alcohol	3.574	45	136090	1.929	ppbv #	1
20) Methylene Chloride	3.928	84	93569	2.079	ppbv	95
23) Vinyl Acetate	4.606	43	53017	0.575	ppbv #	21
25) Ethyl Acetate	5.205	43	93857	0.391	ppbv #	86
26) Hexane	5.208	57	100360	1.009	ppbv #	39
27) Carbon Disulfide	4.121	76	63107	0.542	ppbv #	91
29) Chloroform	5.262	83	5349	0.033	ppbv	89
30) Cyclohexane	6.590	84	2625	0.032	ppbv #	1
34) 2-Butanone	4.780	43	292812	2.139	ppbv	97
35) Carbon Tetrachloride	6.491	117	5160	0.033	ppbv	95
36) Benzene	6.359	78	40347	0.195	ppbv	93
39) 1,2-Dichloropropane	6.642	63	708695	8.954	ppbv #	25
44) 2,2,4-Trimethylpentane	7.320	57	28151	0.082	ppbv #	1
53) Toluene	9.217	91	124910	0.542	ppbv	95
58) Ethyl Benzene	12.082	91	15825	0.052	ppbv	94
59) m/p-Xylene	12.336	91	58286	0.220	ppbv #	51
60) o-Xylene	13.050	91	23520	0.094	ppbv	69
74) 1,2,4-Trimethylbenzene	16.095	105	27375	0.093	ppbv #	71
75) 1,3-Dichlorobenzene	16.323	146	38421	0.207	ppbv #	38

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

Quant Time: Aug 09 05:56:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Aug 06 01:32:58 2024
Response via : Initial Calibration

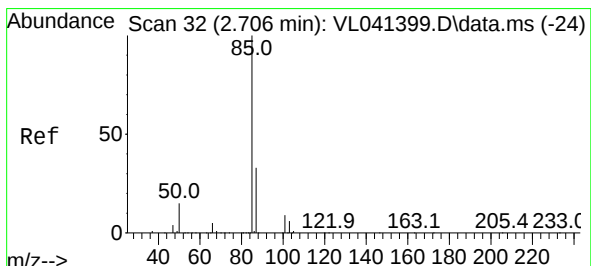
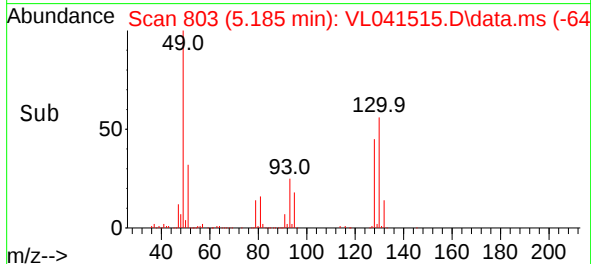
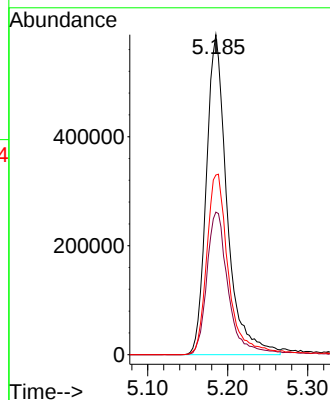
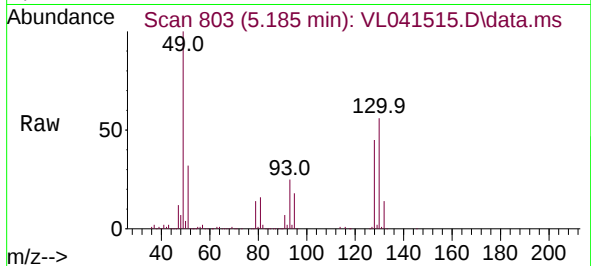




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

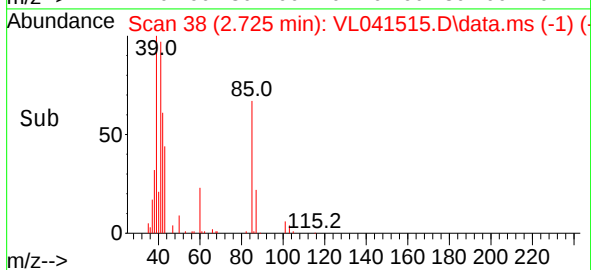
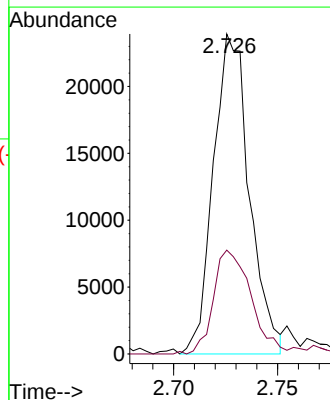
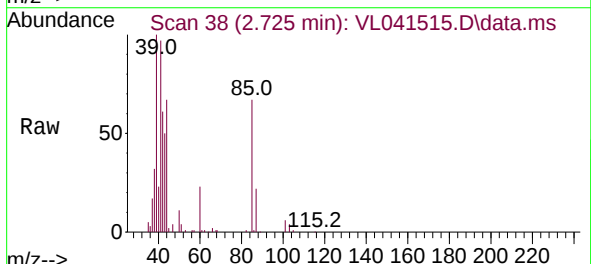
Instrument :
MSVOA_L
ClientSampleId :
SV-5

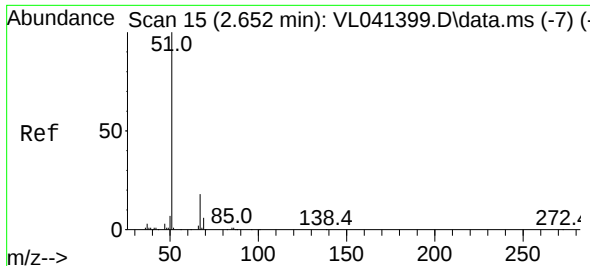
Tgt Ion: 49 Resp: 1062298
Ion Ratio Lower Upper
49 100
128 47.3 23.8 71.4
130 60.4 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.158 ppbv
RT: 2.725 min Scan# 38
Delta R.T. -0.007 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion: 85 Resp: 28856
Ion Ratio Lower Upper
85 100
87 31.7 26.0 39.0

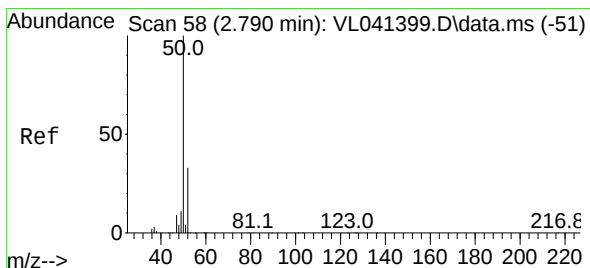
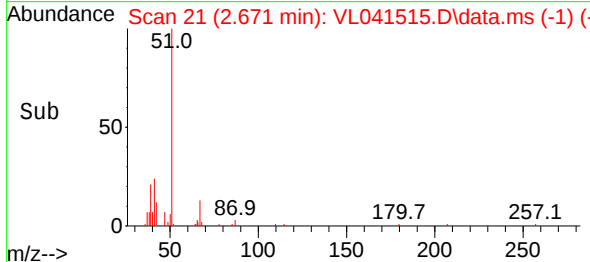
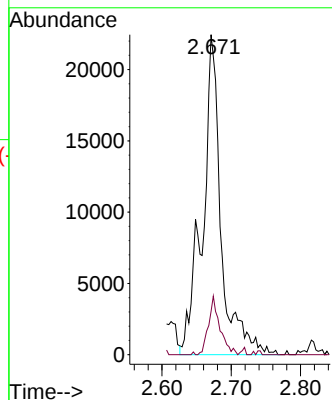
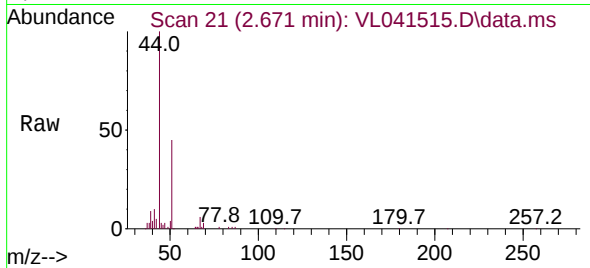




#3
Chlorodifluoromethane
Concen: 0.331 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

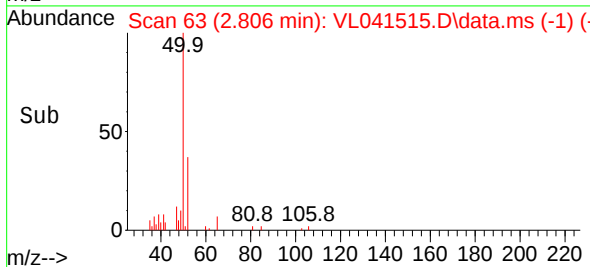
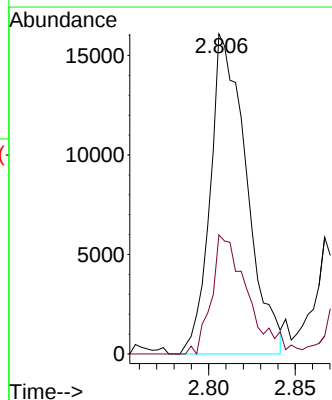
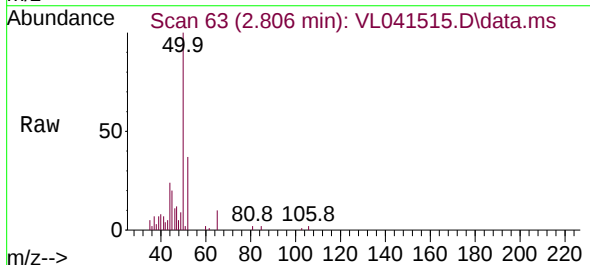
Instrument :
MSVOA_L
ClientSampleId :
SV-5

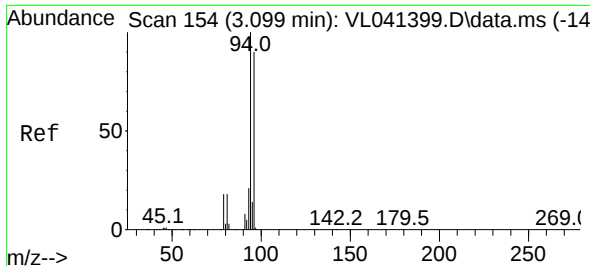
Tgt Ion: 51 Resp: 41806
Ion Ratio Lower Upper
51 100
67 11.7 14.5 21.7#



#4
Chloromethane
Concen: 0.348 ppbv
RT: 2.806 min Scan# 63
Delta R.T. -0.010 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion: 50 Resp: 23391
Ion Ratio Lower Upper
50 100
52 36.5 26.1 39.1





#6

Bromomethane

Concen: 0.044 ppbv

RT: 3.121 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

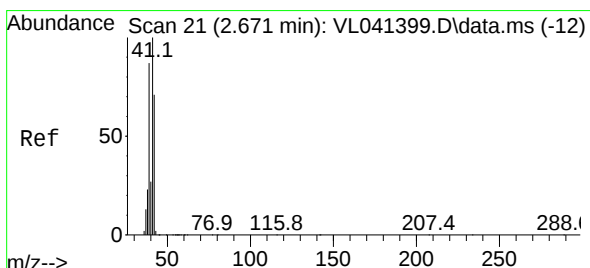
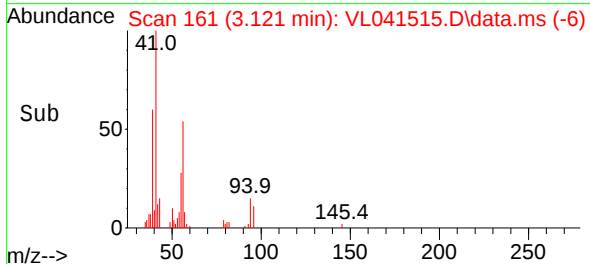
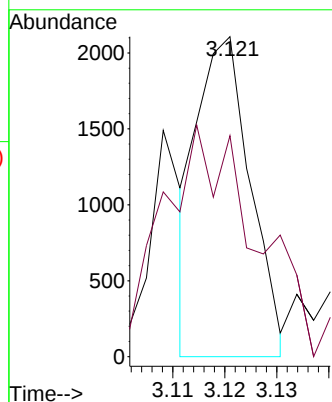
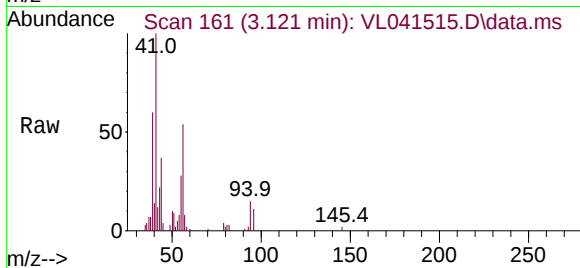
SV-5

Tgt Ion: 94 Resp: 1505

Ion Ratio Lower Upper

94 100

96 33.5 72.3 108.5#



#9

Propene

Concen: 12.449 ppbv

RT: 2.693 min Scan# 28

Delta R.T. -0.003 min

Lab File: VL041515.D

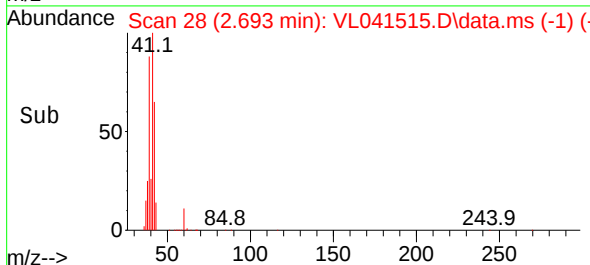
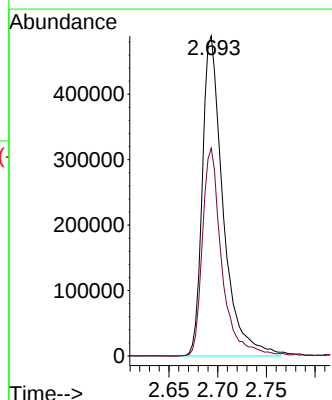
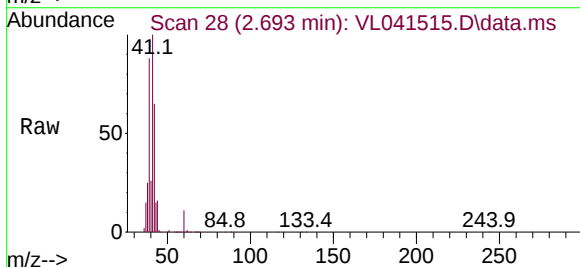
Acq: 8 Aug 2024 16:29

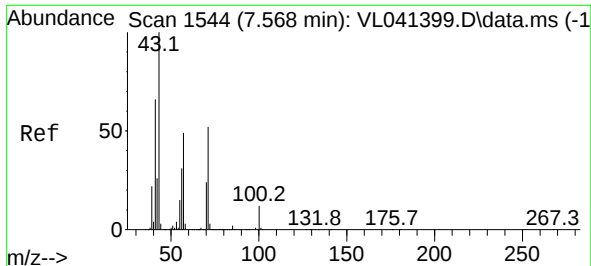
Tgt Ion: 41 Resp: 723202

Ion Ratio Lower Upper

41 100

42 61.3 55.9 83.9

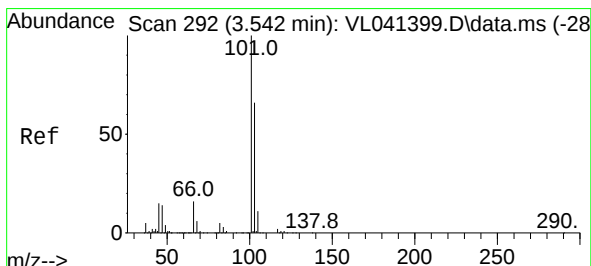
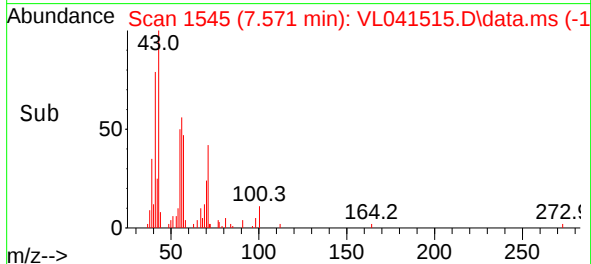
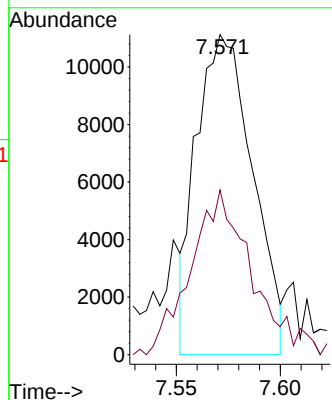
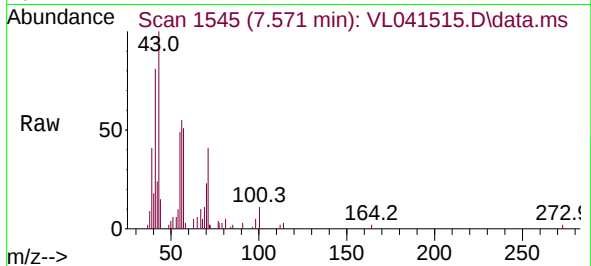




#10
Heptane
Concen: 0.160 ppbv
RT: 7.571 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

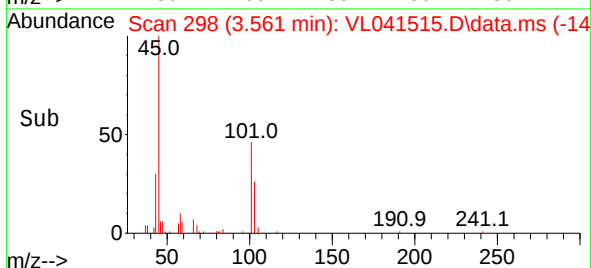
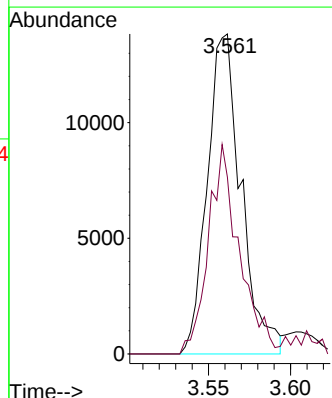
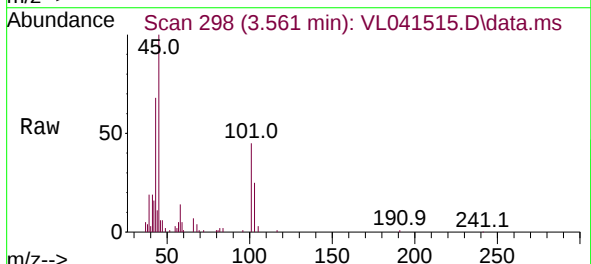
Instrument :
MSVOA_L
ClientSampleId :
SV-5

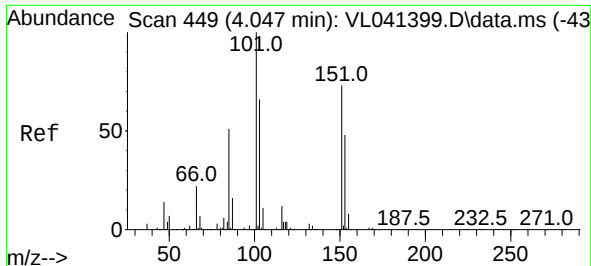
Tgt Ion: 43 Resp: 20931
Ion Ratio Lower Upper
43 100
57 56.4 40.5 60.7



#11
Trichlorofluoromethane
Concen: 0.122 ppbv
RT: 3.561 min Scan# 298
Delta R.T. -0.000 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion:101 Resp: 19828
Ion Ratio Lower Upper
101 100
103 55.2 52.6 79.0

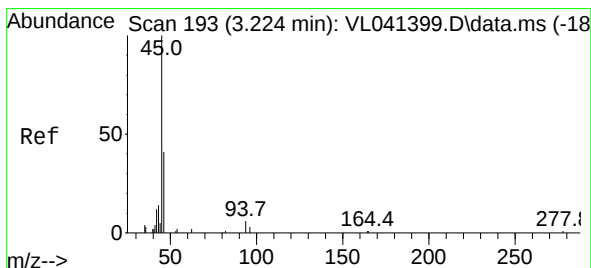
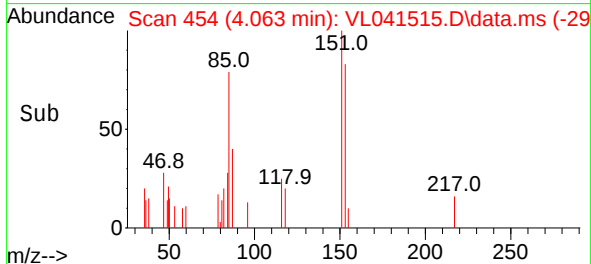
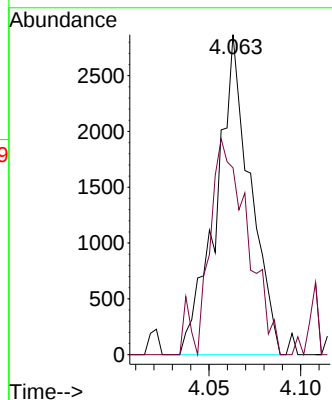
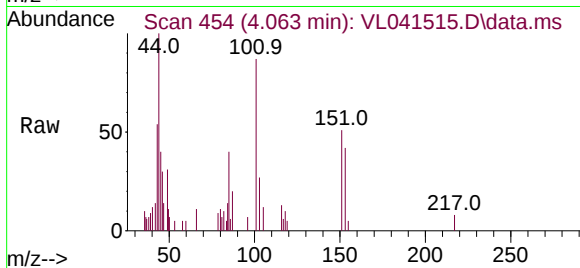




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.032 ppbv
RT: 4.063 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

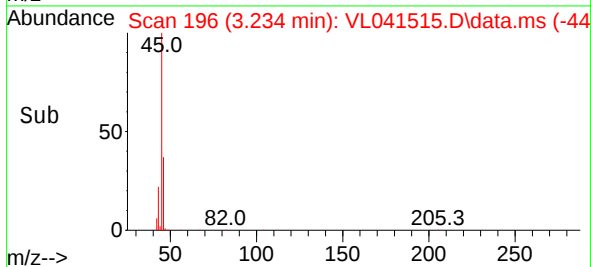
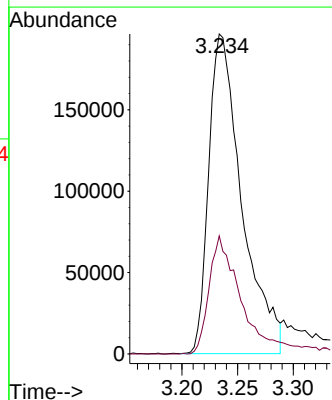
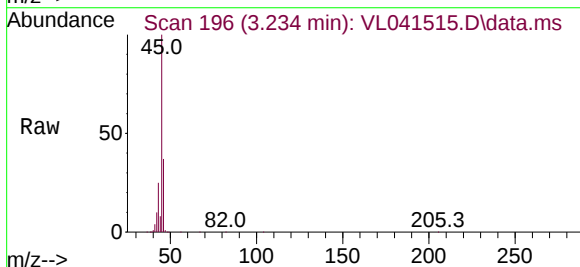
Instrument :
MSVOA_L
ClientSampleId :
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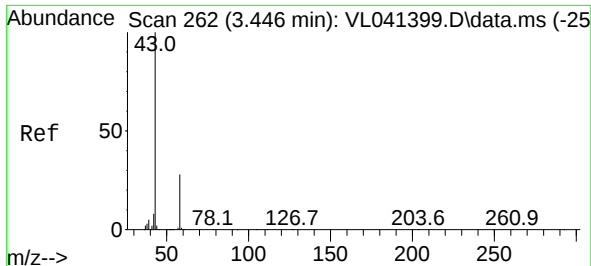
Tgt Ion:101 Resp: 3712
Ion Ratio Lower Upper
101 100
151 77.6 59.4 89.2



#13
Ethanol
Concen: 78.278 ppbv
RT: 3.234 min Scan# 196
Delta R.T. -0.010 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion: 45 Resp: 406443
Ion Ratio Lower Upper
45 100
46 39.2 13.4 53.4





#15

Acetone

Concen: 10.359 ppbv

RT: 3.462 min Scan# 2

Delta R.T. -0.006 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

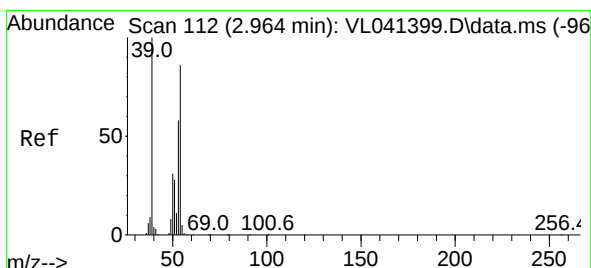
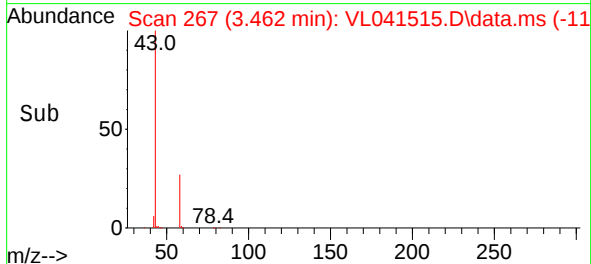
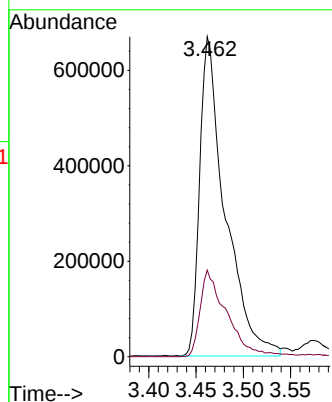
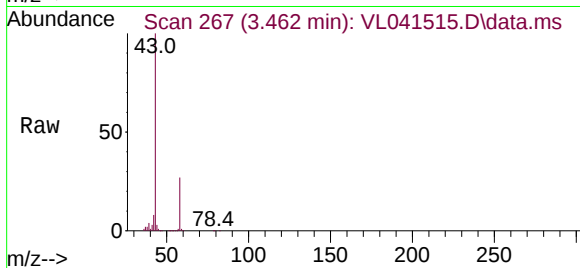
SV-5

Tgt Ion: 43 Resp: 1250350

Ion Ratio Lower Upper

43 100

58 29.2 21.4 32.2



#16

1,3-Butadiene

Concen: 6.190 ppbv

RT: 2.967 min Scan# 113

Delta R.T. -0.019 min

Lab File: VL041515.D

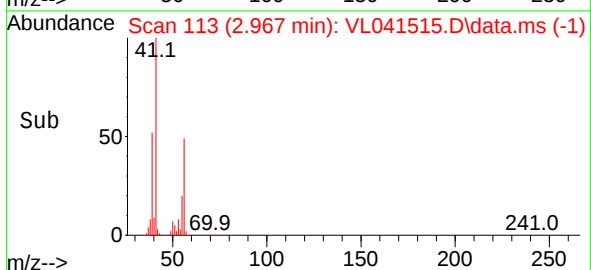
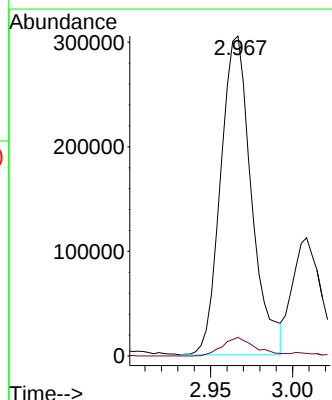
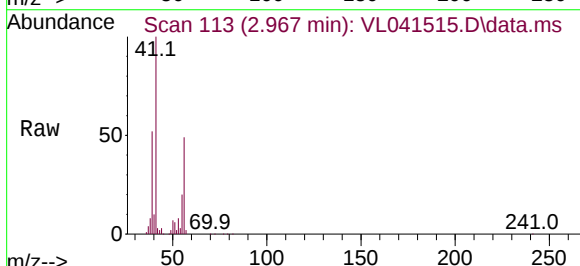
Acq: 8 Aug 2024 16:29

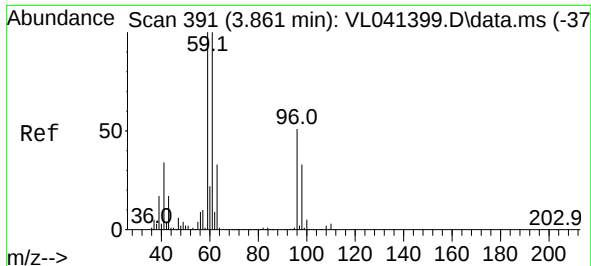
Tgt Ion: 39 Resp: 399148

Ion Ratio Lower Upper

39 100

54 7.3 62.5 93.7#





#17

tert-Butyl alcohol

Concen: 0.248 ppbv

RT: 3.883 min Scan# 301

Delta R.T. 0.006 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

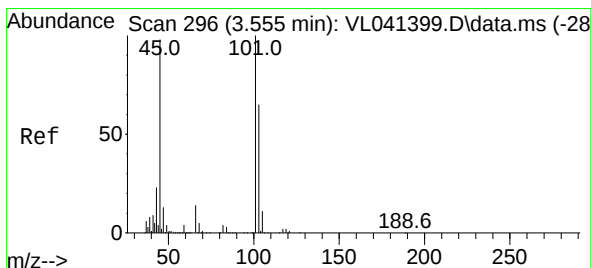
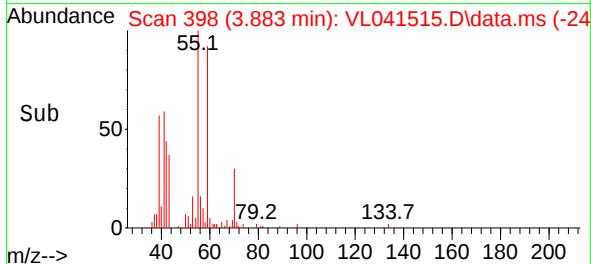
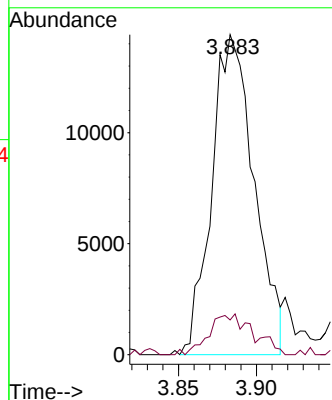
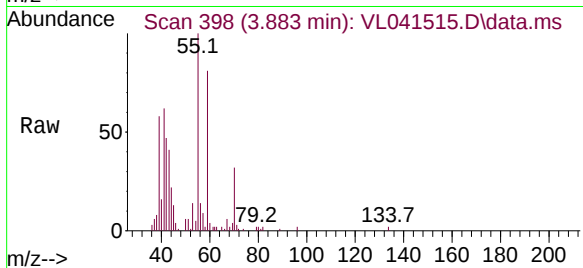
SV-5

Tgt Ion: 59 Resp: 27304

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 1.929 ppbv

RT: 3.574 min Scan# 302

Delta R.T. -0.000 min

Lab File: VL041515.D

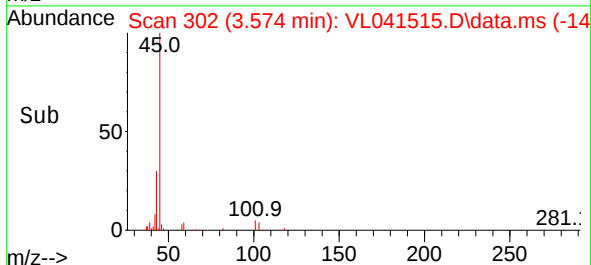
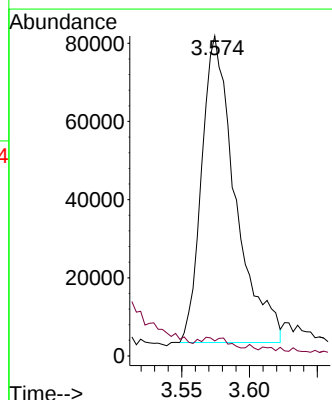
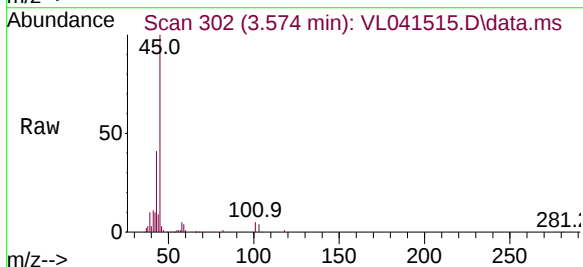
Acq: 8 Aug 2024 16:29

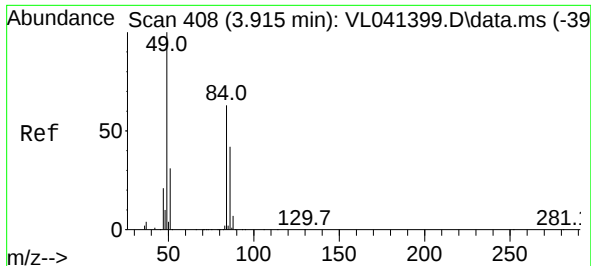
Tgt Ion: 45 Resp: 136090

Ion Ratio Lower Upper

45 100

58 268.2 1.9 2.9#



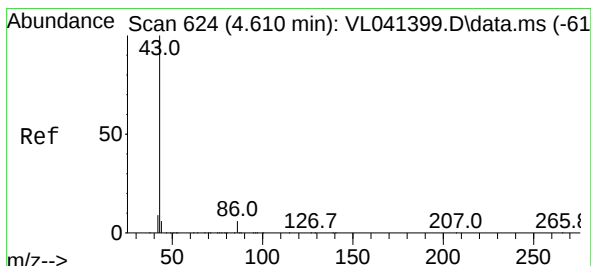
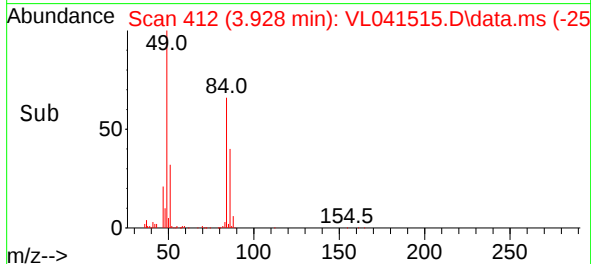
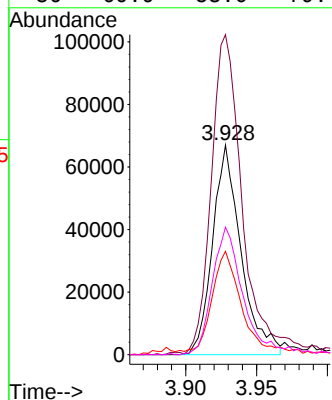
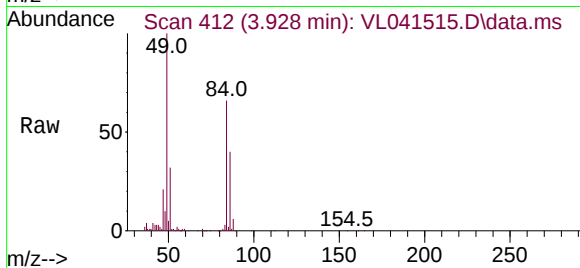


#20
Methylene Chloride
Concen: 2.079 ppbv
RT: 3.928 min Scan# 412
Delta R.T. -0.003 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Instrument :
MSVOA_L
ClientSampleId :
SV-5

Tgt Ion: 84 Resp: 93569

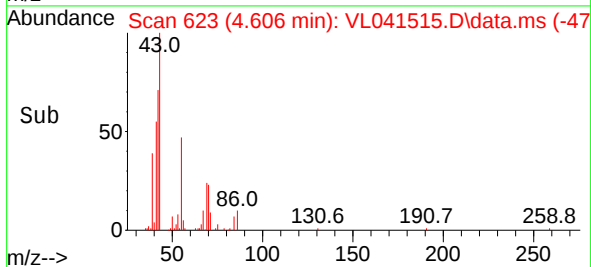
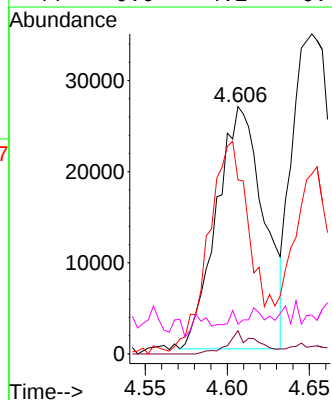
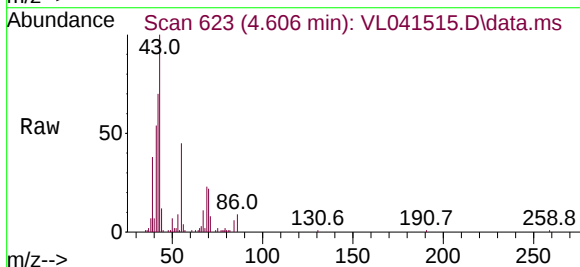
Ion	Ratio	Lower	Upper
84	100		
49	151.6	126.6	190.0
51	47.3	38.6	58.0
86	60.9	53.0	79.4

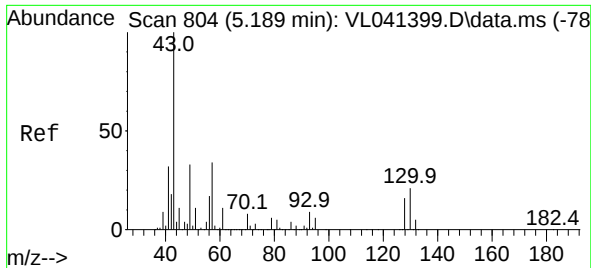


#23
Vinyl Acetate
Concen: 0.575 ppbv
RT: 4.606 min Scan# 623
Delta R.T. -0.019 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion: 43 Resp: 53017

Ion	Ratio	Lower	Upper
43	100		
86	9.6	4.6	6.8#
42	65.7	7.9	11.9#
44	0.0	4.2	6.4#





#25

Ethyl Acetate

Concen: 0.391 ppbv

RT: 5.205 min Scan# 80

Delta R.T. 0.003 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

SV-5

Tgt Ion: 43 Resp: 93857

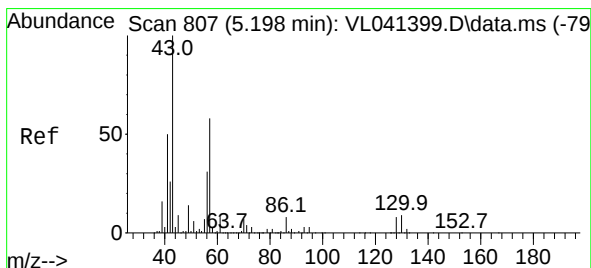
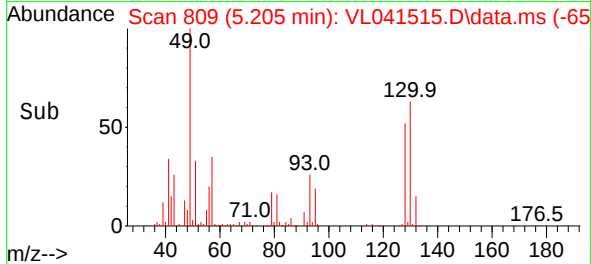
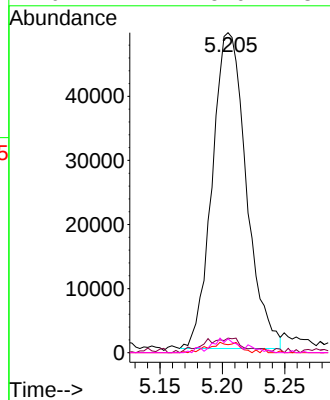
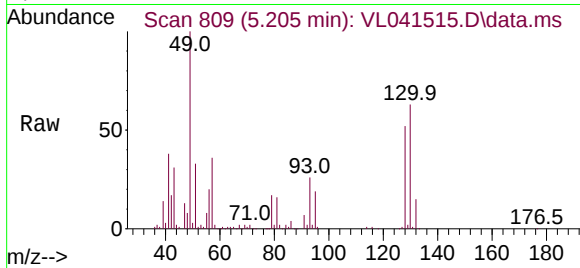
Ion Ratio Lower Upper

43 100

45 6.0 8.5 12.7#

61 3.1 8.0 12.0#

70 4.2 5.9 8.9#



#26

Hexane

Concen: 1.009 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.003 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Tgt Ion: 57 Resp: 100360

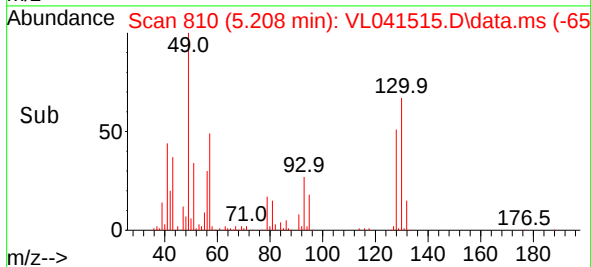
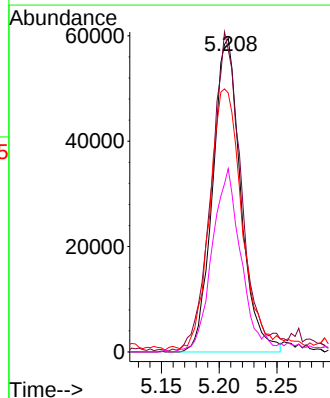
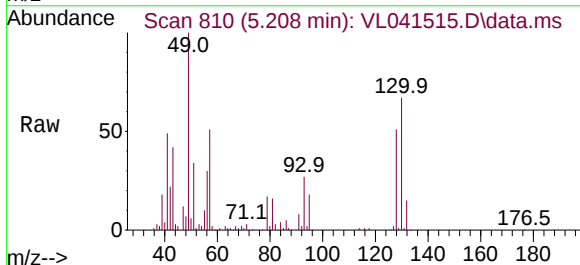
Ion Ratio Lower Upper

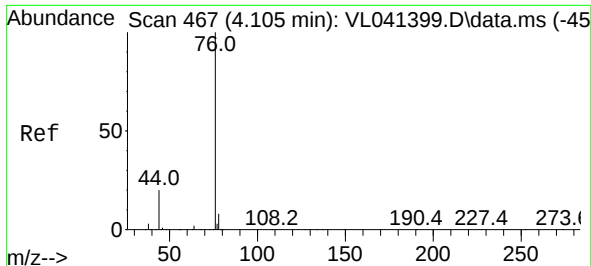
57 100

41 116.0 74.0 111.0#

43 96.7 193.6 290.4#

56 64.2 43.1 64.7





#27

Carbon Disulfide

Concen: 0.542 ppbv

RT: 4.121 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

SV-5

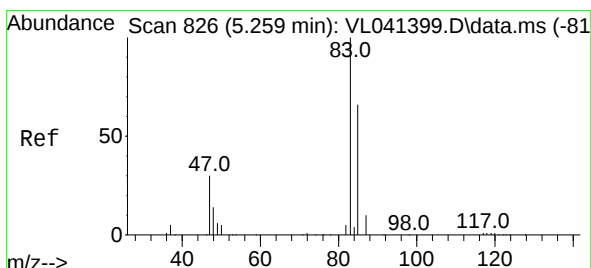
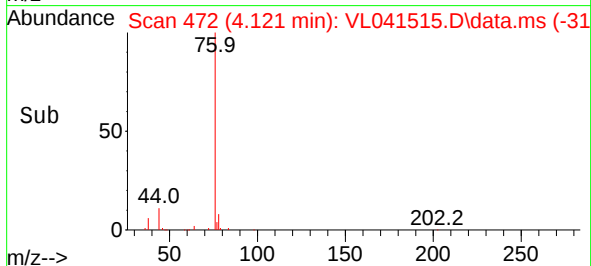
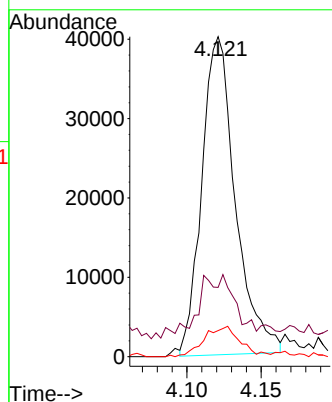
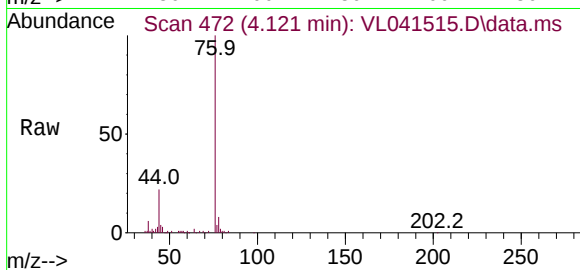
Tgt Ion: 76 Resp: 63107

Ion Ratio Lower Upper

76 100

44 24.9 15.6 23.4#

78 11.2 7.7 11.5



#29

Chloroform

Concen: 0.033 ppbv

RT: 5.262 min Scan# 827

Delta R.T. -0.010 min

Lab File: VL041515.D

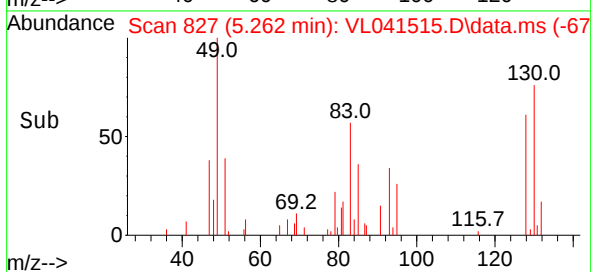
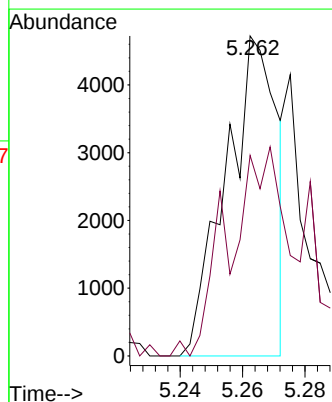
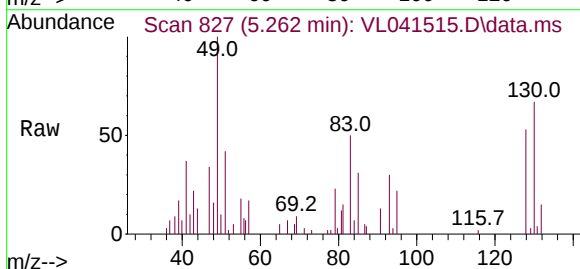
Acq: 8 Aug 2024 16:29

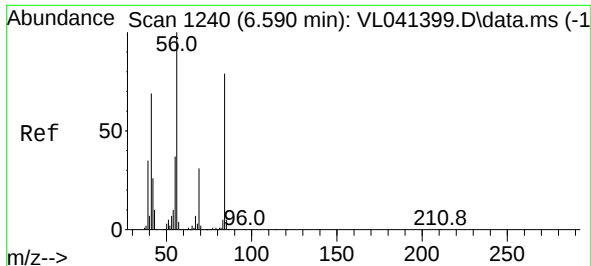
Tgt Ion: 83 Resp: 5349

Ion Ratio Lower Upper

83 100

85 58.0 53.1 79.7





#30

Cyclohexane

Concen: 0.032 ppbv

RT: 6.590 min Scan# 1240

Delta R.T. -0.007 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

SV-5

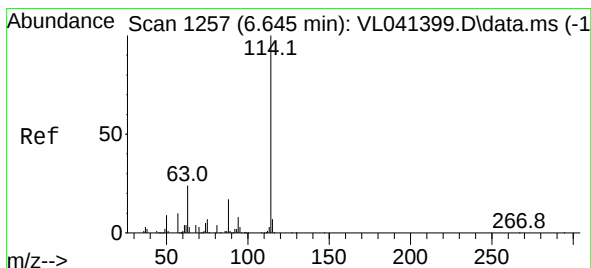
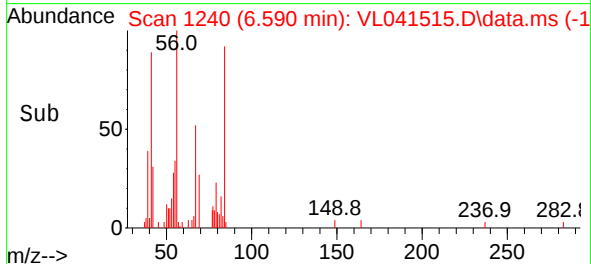
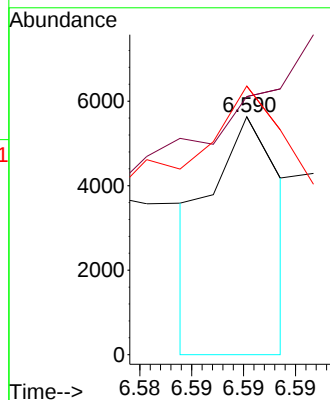
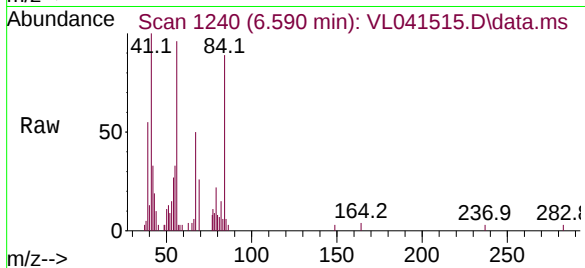
Tgt Ion: 84 Resp: 2625

Ion Ratio Lower Upper

84 100

56 0.0 111.2 166.8#

41 0.0 70.3 105.5#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 1257

Delta R.T. -0.003 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

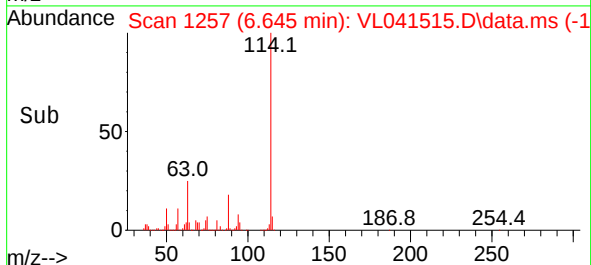
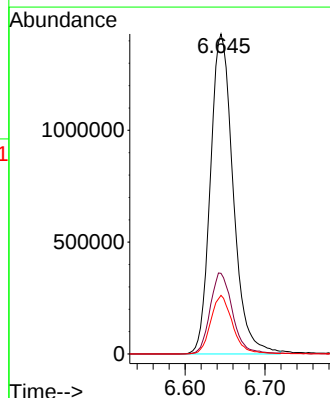
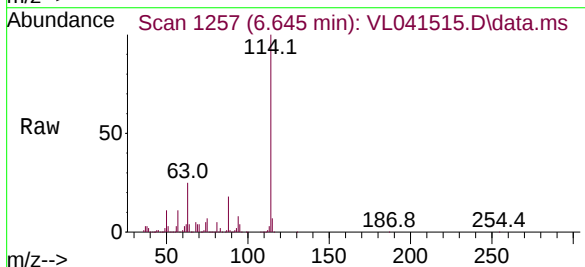
Tgt Ion: 114 Resp: 2829410

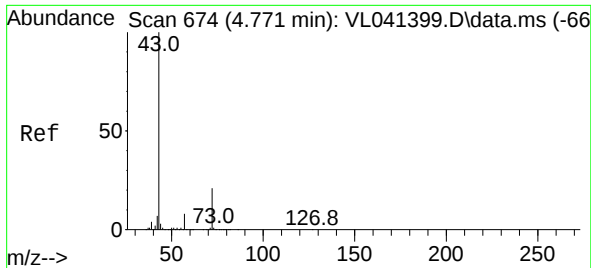
Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

88 17.7 14.3 21.5

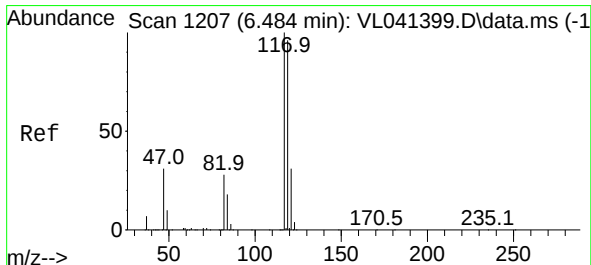
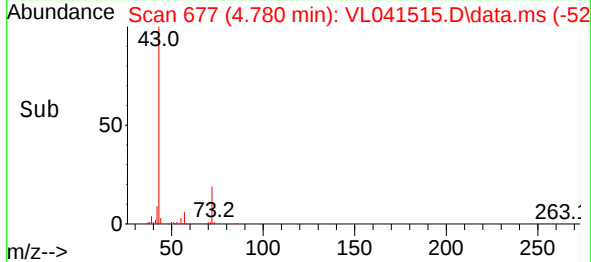
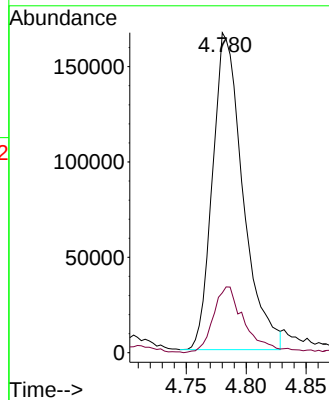
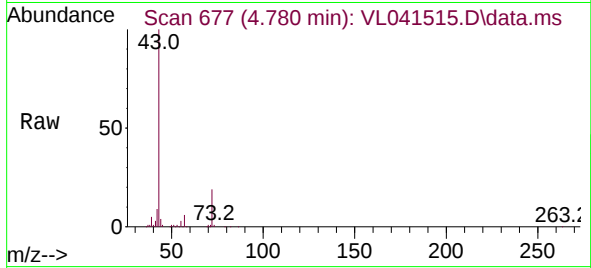




#34
2-Butanone
Concen: 2.139 ppbv
RT: 4.780 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

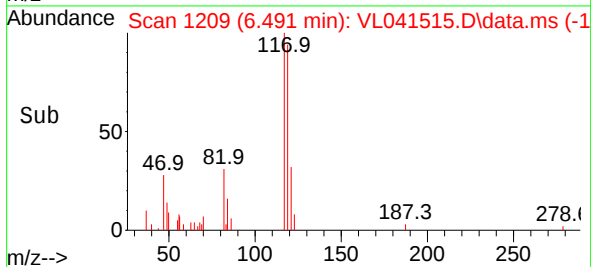
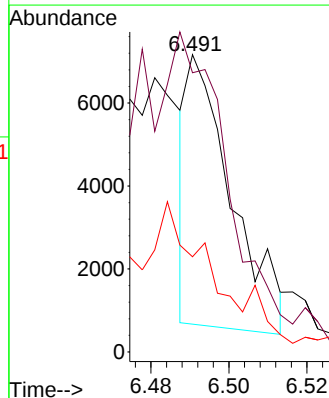
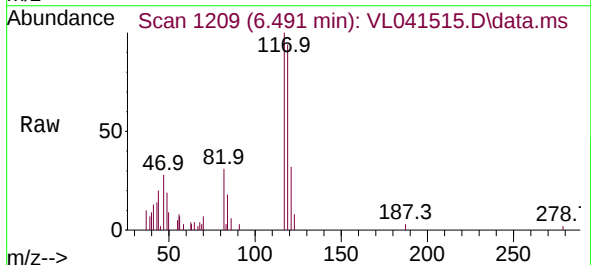
Instrument :
MSVOA_L
ClientSampleId :
SV-5

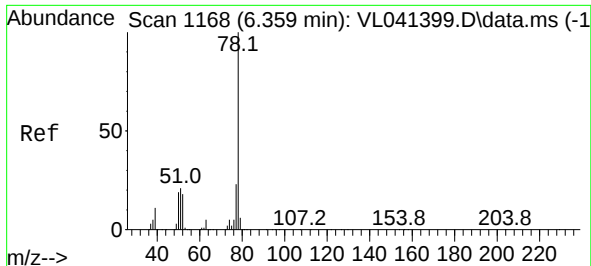
Tgt Ion: 43 Resp: 292812
Ion Ratio Lower Upper
43 100
72 23.0 17.3 25.9



#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. -0.000 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion: 117 Resp: 5160
Ion Ratio Lower Upper
117 100
119 101.8 76.6 115.0
121 32.8 25.1 37.7

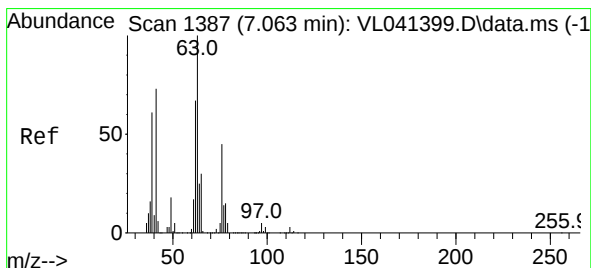
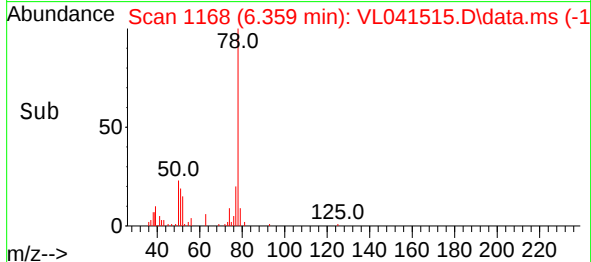
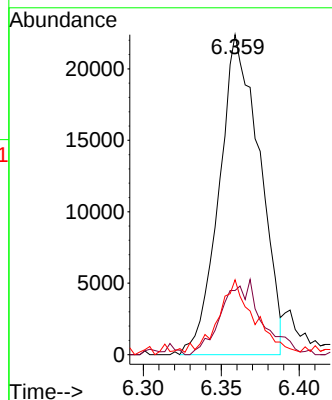
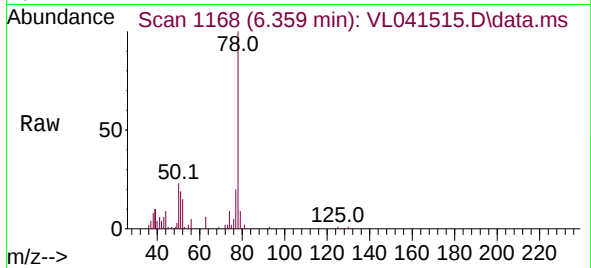




#36
Benzene
Concen: 0.195 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.010 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

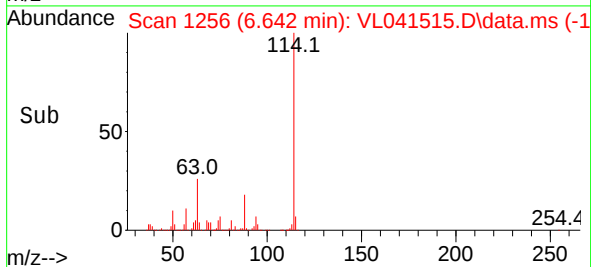
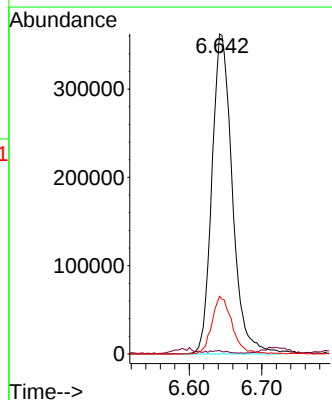
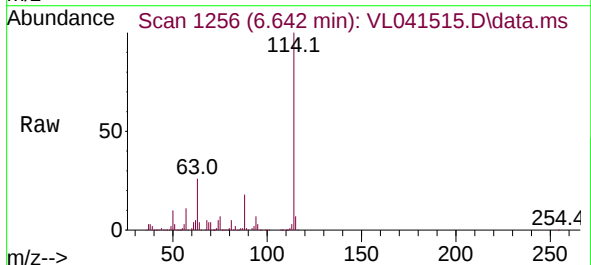
Instrument :
MSVOA_L
ClientSampleId :
SV-5

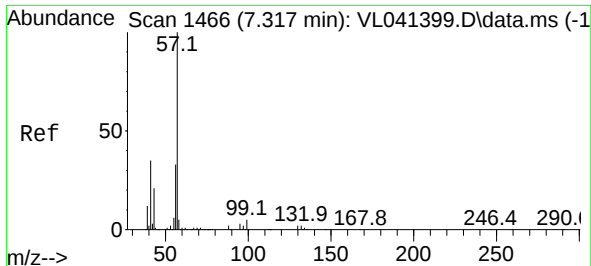
Tgt Ion: 78 Resp: 40347
Ion Ratio Lower Upper
78 100
77 18.7 18.1 27.1
50 21.5 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.954 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.428 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion: 63 Resp: 708695
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 18.0 53.9 80.9#





#44

2,2,4-Trimethylpentane

Concen: 0.082 ppbv

RT: 7.320 min Scan# 1466

Delta R.T. -0.000 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

SV-5

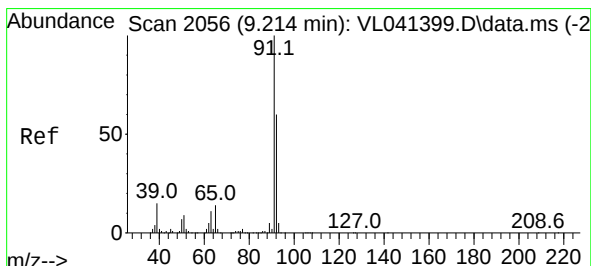
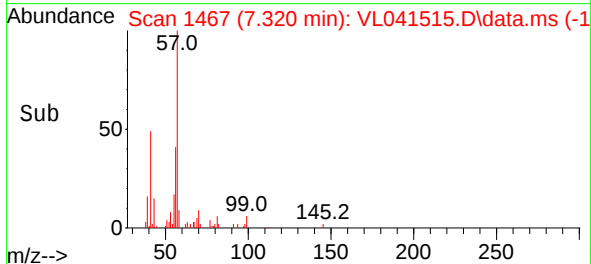
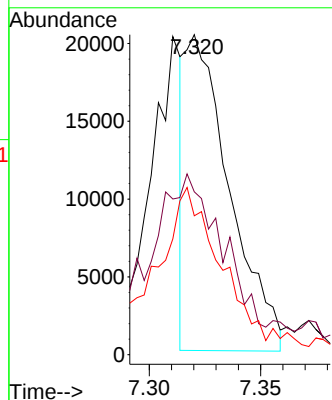
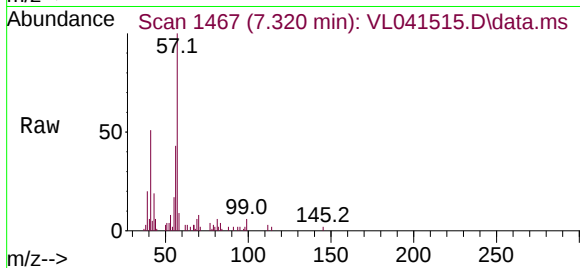
Tgt Ion: 57 Resp: 28151

Ion Ratio Lower Upper

57 100

41 109.1 27.0 40.6#

56 124.2 25.2 37.8#



#53

Toluene

Concen: 0.542 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VL041515.D

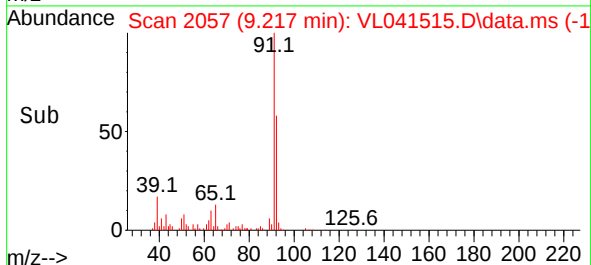
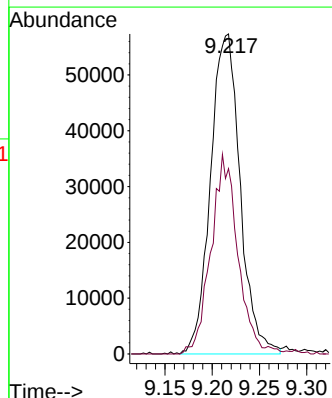
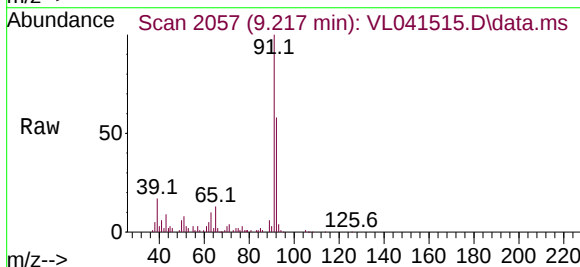
Acq: 8 Aug 2024 16:29

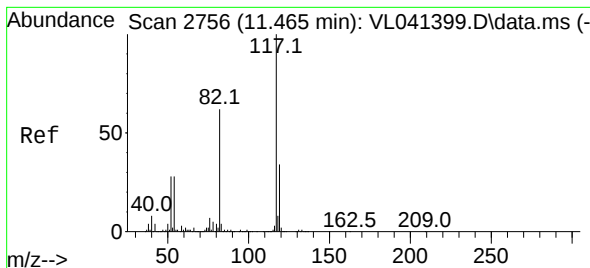
Tgt Ion: 91 Resp: 124910

Ion Ratio Lower Upper

91 100

92 57.3 48.7 73.1

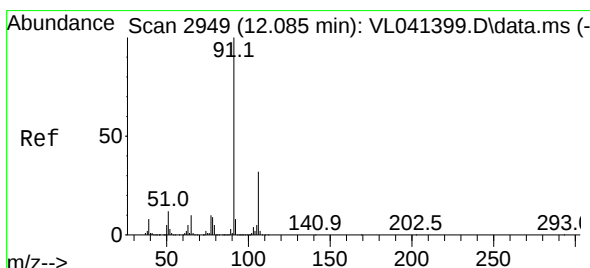
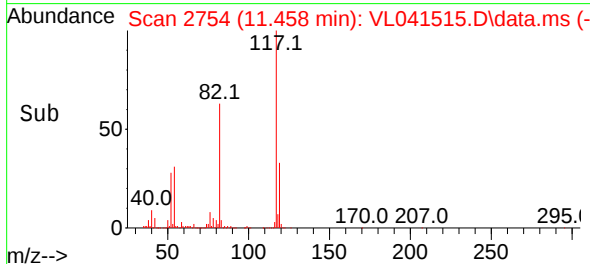
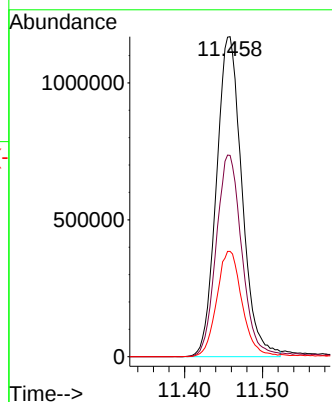
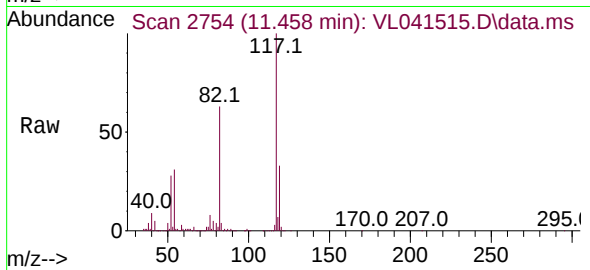




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

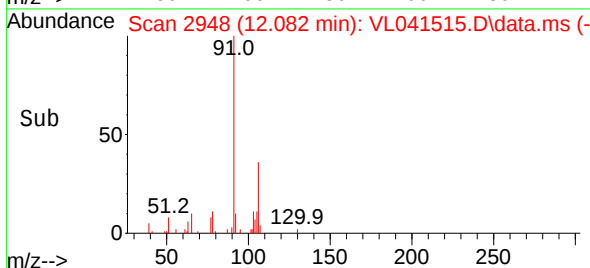
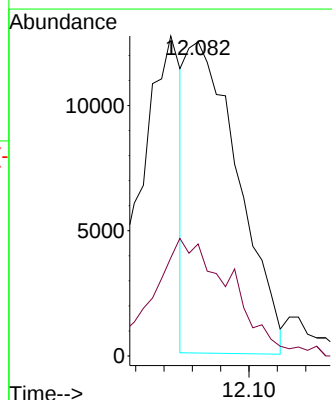
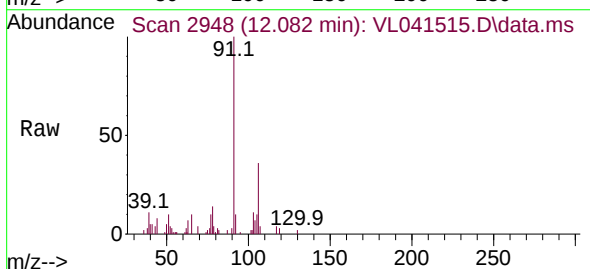
Instrument :
MSVOA_L
ClientSampleId :
SV-5

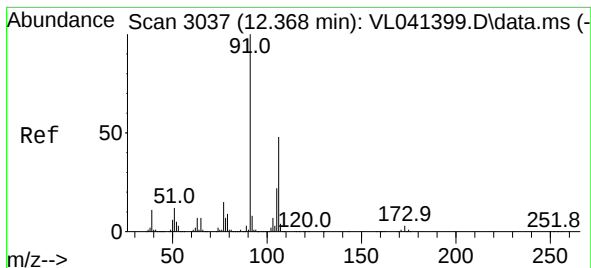
Tgt Ion:117 Resp: 2662794
Ion Ratio Lower Upper
117 100
82 64.8 51.0 76.6
119 33.5 45.2 67.8#



#58
Ethyl Benzene
Concen: 0.052 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VL041515.D
Acq: 8 Aug 2024 16:29

Tgt Ion: 91 Resp: 15825
Ion Ratio Lower Upper
91 100
106 35.6 25.8 38.8





#59

m/p-Xylene

Concen: 0.220 ppbv

RT: 12.336 min Scan# 3037

Delta R.T. -0.032 min

Lab File: VL041515.D

Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

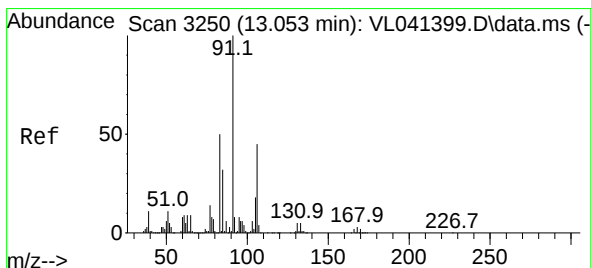
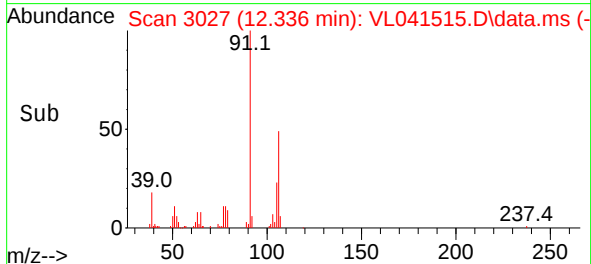
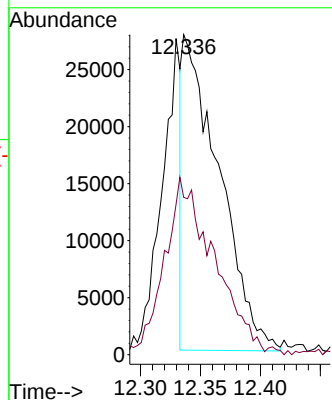
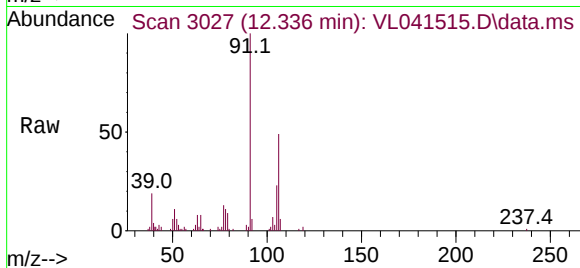
SV-5

Tgt Ion: 91 Resp: 58286

Ion Ratio Lower Upper

91 100

106 77.9 36.3 54.5#



#60

o-Xylene

Concen: 0.094 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. -0.003 min

Lab File: VL041515.D

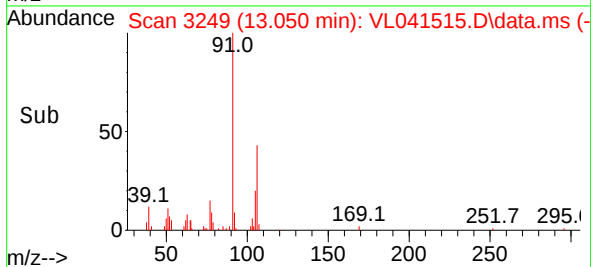
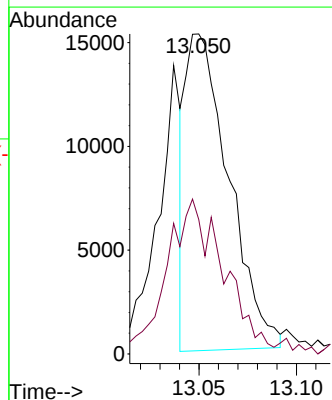
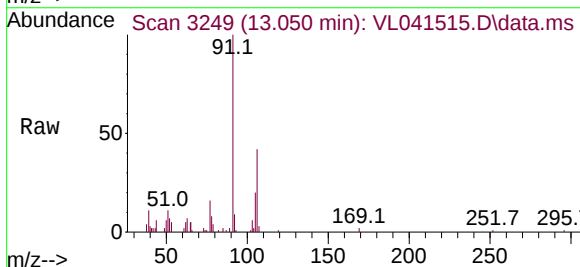
Acq: 8 Aug 2024 16:29

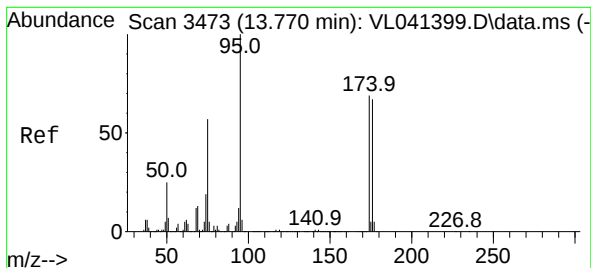
Tgt Ion: 91 Resp: 23520

Ion Ratio Lower Upper

91 100

106 66.9 23.1 69.3

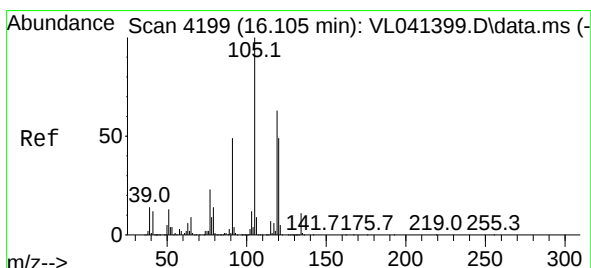
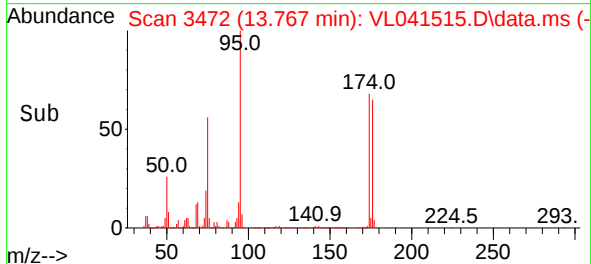
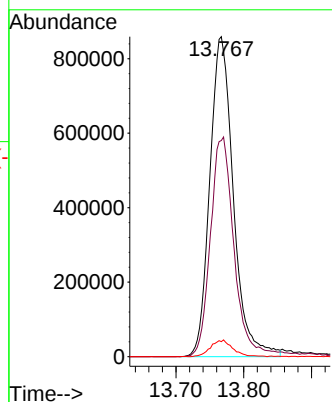
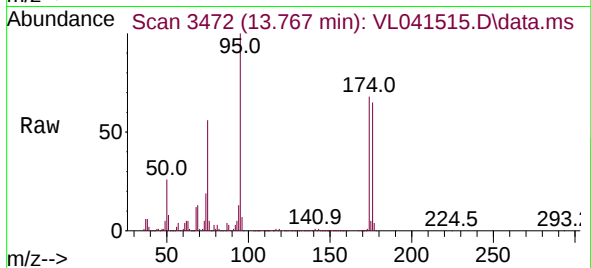




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.116 ppbv
 RT: 13.767 min Scan# 3472
 Delta R.T. -0.000 min
 Lab File: VL041515.D
 Acq: 8 Aug 2024 16:29

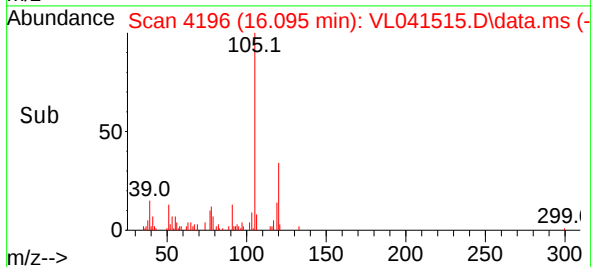
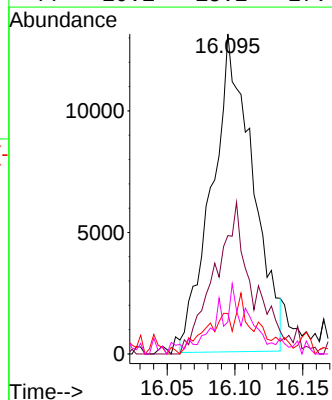
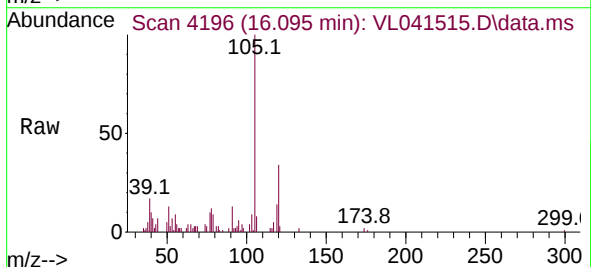
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5

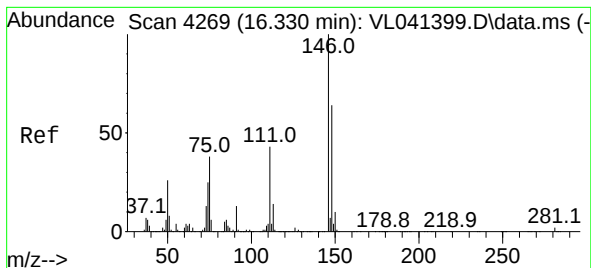
Tgt Ion: 95 Resp: 2072887
 Ion Ratio Lower Upper
 95 100
 174 70.8 56.3 84.5
 175 5.1 4.0 6.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.093 ppbv
 RT: 16.095 min Scan# 4196
 Delta R.T. -0.006 min
 Lab File: VL041515.D
 Acq: 8 Aug 2024 16:29

Tgt Ion:105 Resp: 27375
 Ion Ratio Lower Upper
 105 100
 120 38.7 39.5 59.3#
 91 13.2 39.8 59.8#
 77 20.1 18.2 27.4





#75

1,3-Dichlorobenzene

Concen: 0.207 ppbv

RT: 16.323 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041515.D

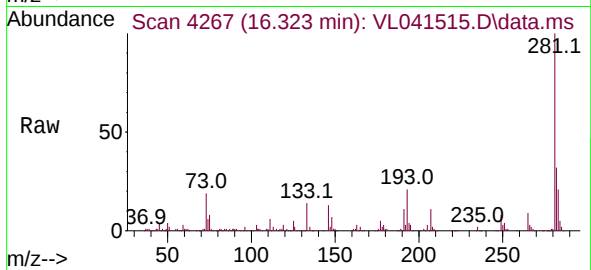
Acq: 8 Aug 2024 16:29

Instrument :

MSVOA_L

ClientSampleId :

SV-5



Tgt Ion:146 Resp: 38421

Ion Ratio Lower Upper

146 100

111 109.6 22.6 67.8#

148 93.1 32.3 96.8

