

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039996.D
 Acq On : 13 Dec 2022 4:16
 Operator : SY/MD
 Sample : N5969-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

Quant Time: Dec 13 07:14:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 23:21:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	939842	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.636	114	2499253	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.449	117	2288628	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1814507	10.380	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.710	85	33650	0.250	ppbv #	87
3) Chlorodifluoromethane	2.658	51	43261	0.334	ppbv #	89
4) Chloromethane	2.793	50	14700	0.177	ppbv	97
9) Propene	2.854	41	609777	9.982	ppbv	99
10) Heptane	7.558	43	300782	2.040	ppbv	95
11) Trichlorofluoromethane	3.542	101	105658	0.644	ppbv	89
12) 1,1,2-Trichlorotrifluo...	4.041	101	3312	0.027	ppbv #	12
13) Ethanol	3.221	45	317626	68.100	ppbv	99
15) Acetone	3.443	43	8721140	69.960	ppbv	91
16) 1,3-Butadiene	2.944	39	6896	0.111	ppbv #	8
17) tert-Butyl alcohol	3.870	59	15236	0.106	ppbv #	72
19) Isopropyl Alcohol	3.562	45	296730	4.396	ppbv #	29
20) Methylene Chloride	3.912	84	46881	0.776	ppbv	95
21) Allyl Chloride	3.880	41	2479	0.029	ppbv #	1
22) trans-1,2-Dichloroethene	4.423	96	1173	0.020	ppbv #	18
23) Vinyl Acetate	4.587	43	96367	1.882	ppbv #	2
25) Ethyl Acetate	5.192	43	107649	0.470	ppbv #	88
26) Hexane	5.192	57	124916	1.249	ppbv #	48
27) Carbon Disulfide	4.105	76	8038	0.064	ppbv #	79
29) Chloroform	5.253	83	6647	0.050	ppbv	100
30) Cyclohexane	6.591	84	7590	0.077	ppbv #	1
34) 2-Butanone	4.767	43	288069	2.409	ppbv	96
36) Benzene	6.353	78	516905	2.433	ppbv	95
39) 1,2-Dichloropropane	6.636	63	619888	7.490	ppbv #	25
41) Tetrahydrofuran	5.536	42	7455	0.090	ppbv #	36
42) Bromodichloromethane	7.230	83	11108	0.070	ppbv #	24
43) Methyl Methacrylate	7.452	69	3580	0.043	ppbv #	1
44) 2,2,4-Trimethylpentane	7.308	57	4903607	13.827	ppbv	98
50) 4-Methyl-2-Pentanone	8.182	43	97301	0.454	ppbv	98
51) 2-Hexanone	9.516	43	511150	3.074	ppbv #	30
52) Tetrachloroethene	10.600	164	1157267	14.562	ppbv	95
53) Toluene	9.201	91	249953	1.033	ppbv	99
58) Ethyl Benzene	12.069	91	61820	0.199	ppbv	93
59) m/p-Xylene	12.356	91	54717	0.211	ppbv #	30
60) o-Xylene	13.044	91	42588	0.172	ppbv #	30
61) Styrene	12.876	104	7167	0.048	ppbv #	5
62) Isopropylbenzene	14.011	105	1025628	2.870	ppbv	98
64) n-propylbenzene	14.899	120	8464	0.091	ppbv #	1
65) tert-Butylbenzene	16.089	119	21733	0.070	ppbv #	5
66) Benzyl Chloride	16.314	91	894	0.033	ppbv #	64
67) sec-Butylbenzene	16.912	105	34066	0.079	ppbv	95
69) p-Isopropyltoluene	16.982	119	66327	0.187	ppbv	96
70) n-Butylbenzene	17.883	91	7505	0.021	ppbv #	32

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Dec 02 23:21:36 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.175	105	86499	0.311	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.336	105	42625	0.167	ppbv	97
74) 1,2,4-Trimethylbenzene	16.092	105	322124	1.193	ppbv #	72
79) Naphthalene	21.375	128	16420	0.102	ppbv #	95
80) Naphthalene,2-methyl-	24.365	142	17571	0.387	ppbv #	90

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

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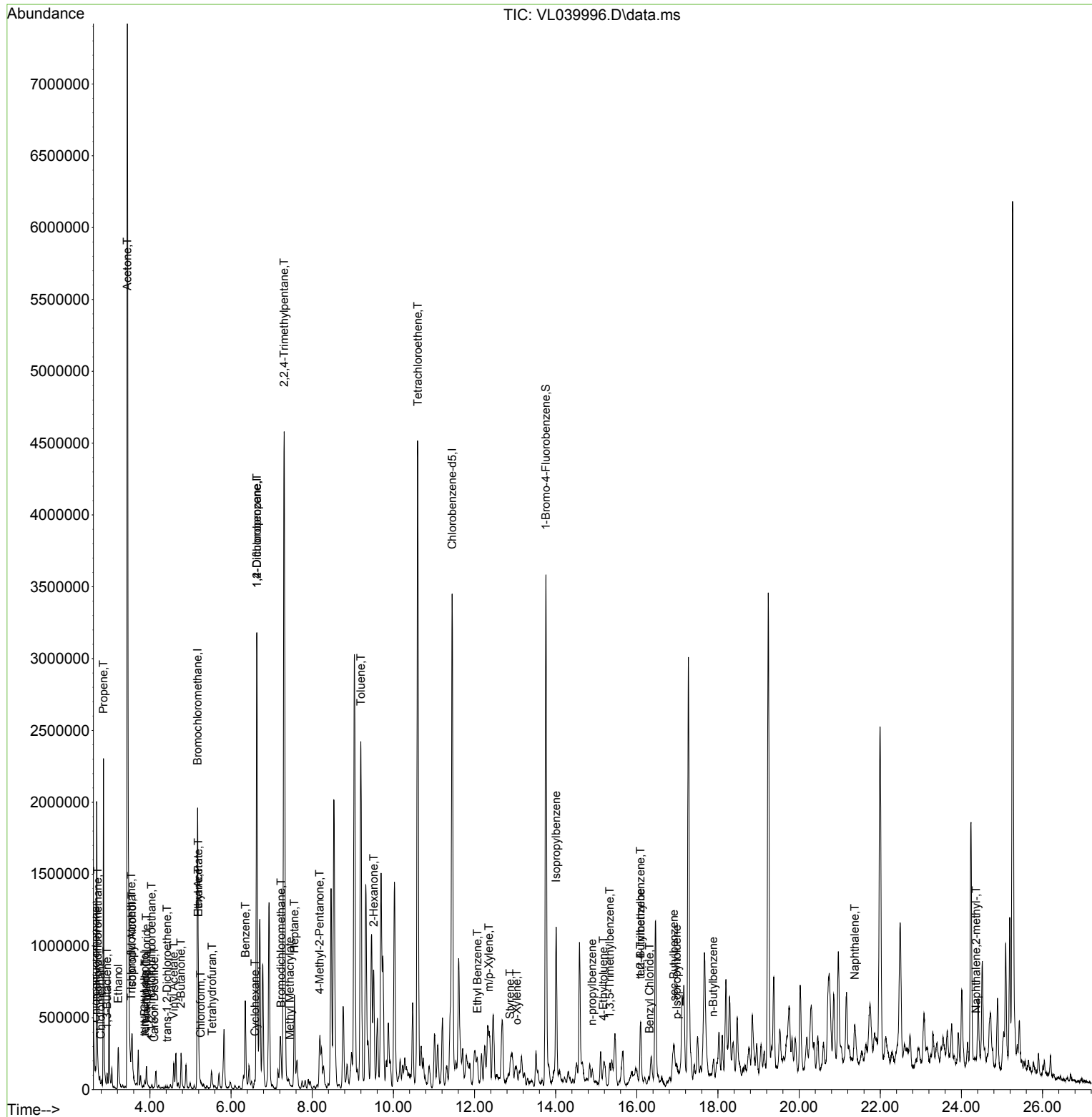
Quant Time: Dec 13 07:14:40 2022

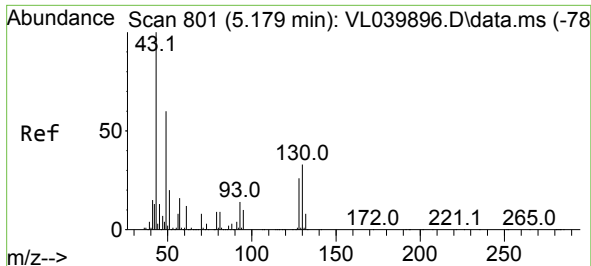
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Dec 02 23:21:36 2022

Response via : Initial Calibration

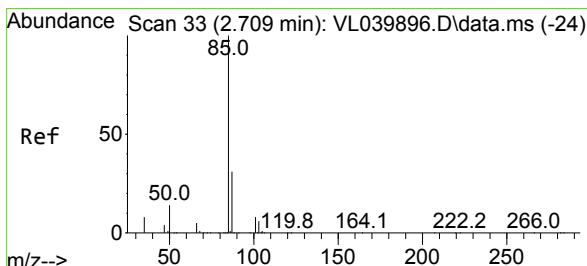
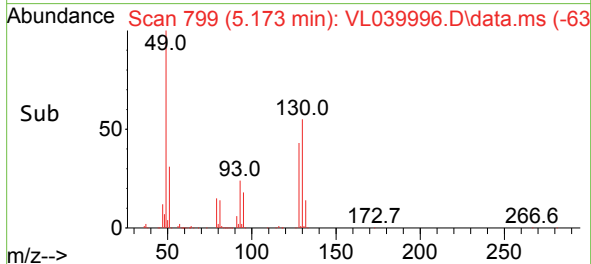
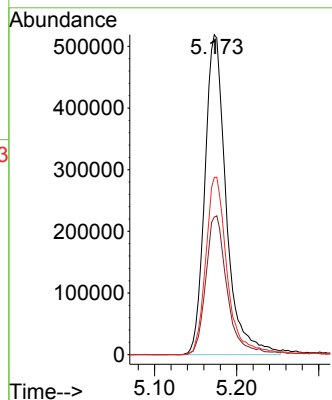
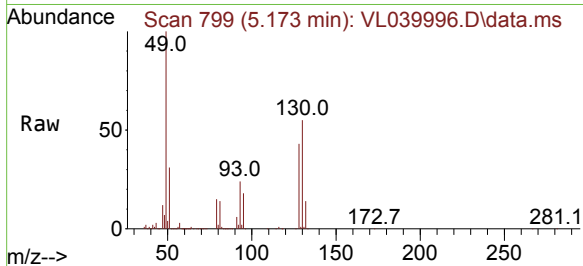




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.173 min Scan# 79
 Delta R.T. 0.017 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

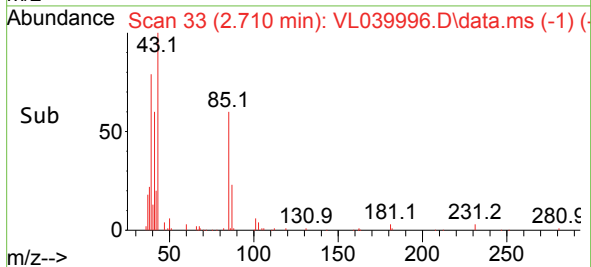
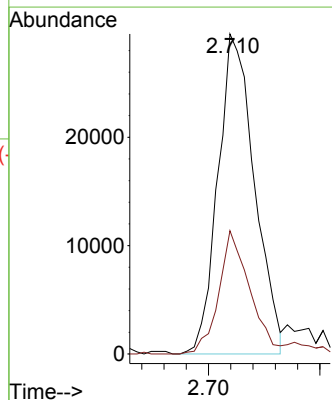
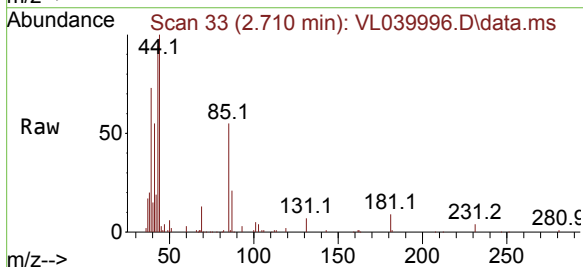
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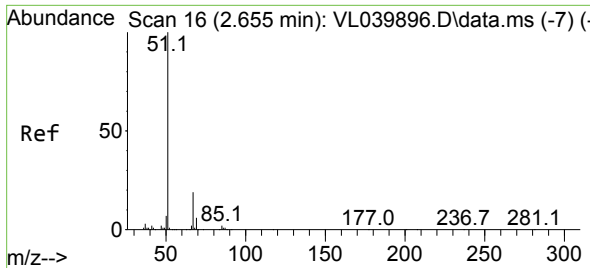
Tgt Ion: 49 Resp: 939842
 Ion Ratio Lower Upper
 49 100
 128 44.6 22.1 66.3
 130 57.0 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.250 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.013 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

Tgt Ion: 85 Resp: 33650
 Ion Ratio Lower Upper
 85 100
 87 38.5 25.0 37.4

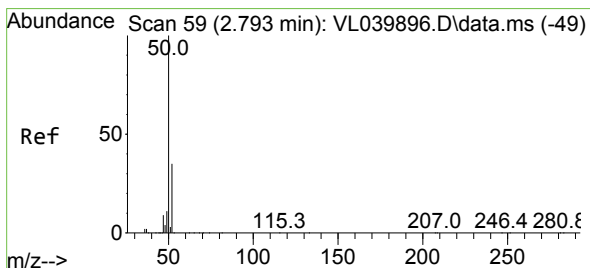
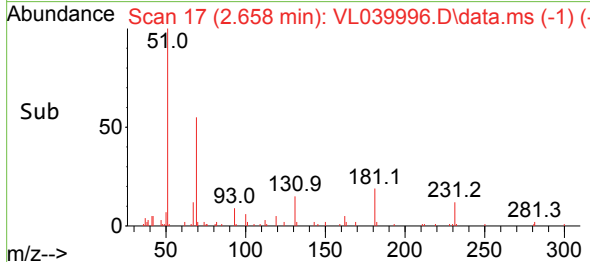
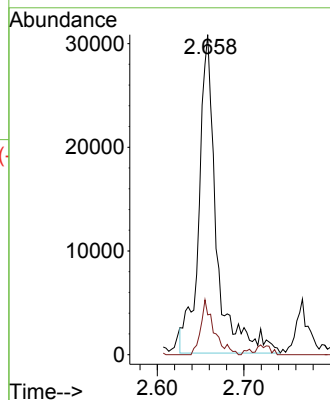
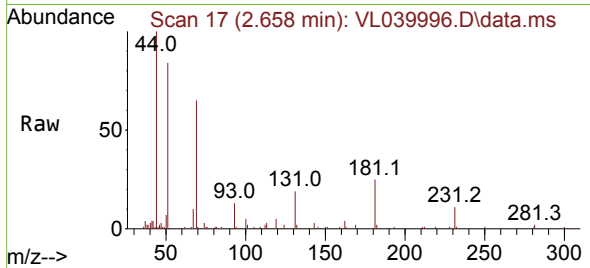




#3
Chlorodifluoromethane
Concen: 0.334 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

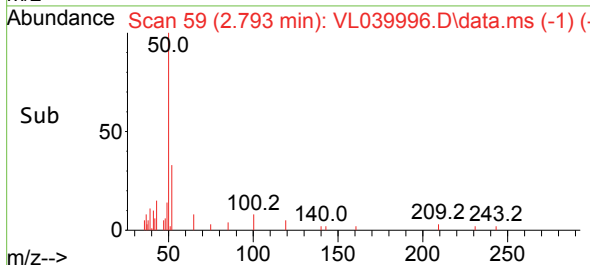
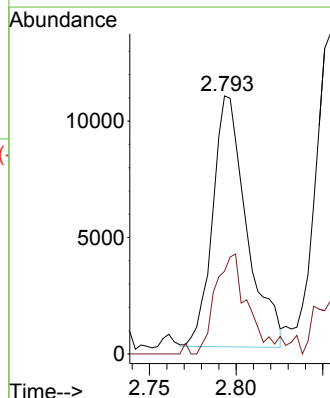
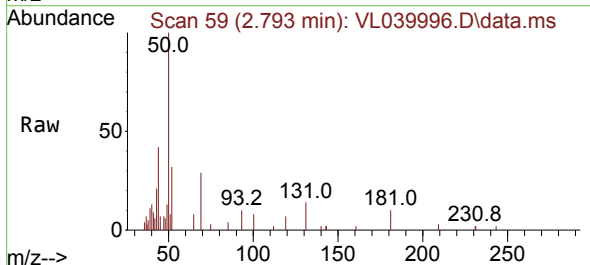
Instrument :
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ClientSampleId :
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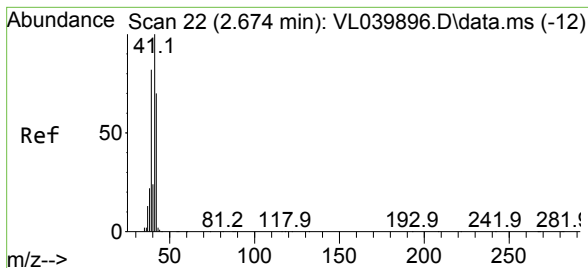
Tgt Ion: 51 Resp: 43261
Ion Ratio Lower Upper
51 100
67 13.0 14.2 21.4#



#4
Chloromethane
Concen: 0.177 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 50 Resp: 14700
Ion Ratio Lower Upper
50 100
52 33.2 27.8 41.8





#9

Propene

Concen: 9.982 ppbv

RT: 2.854 min Scan# 71

Delta R.T. 0.193 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

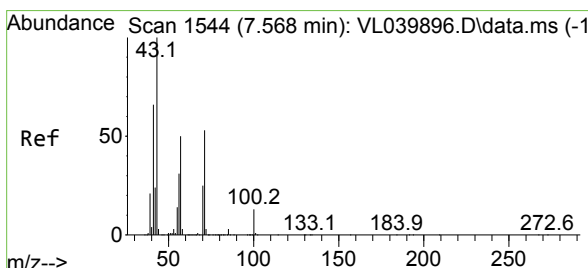
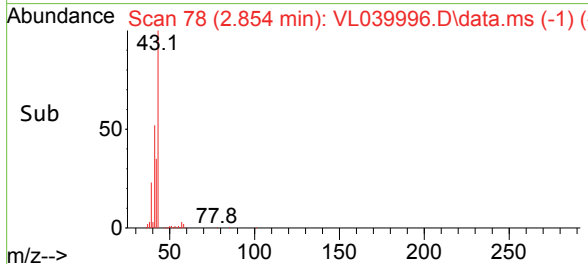
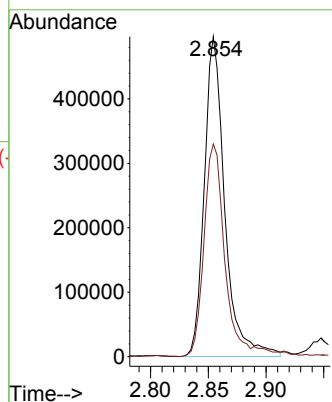
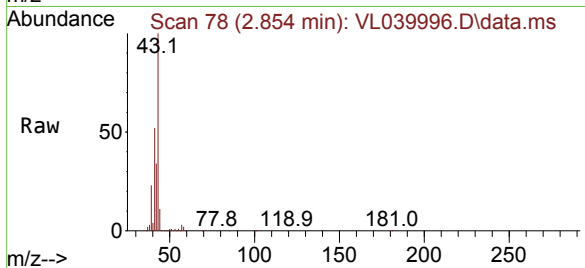
SG-2

Tgt Ion: 41 Resp: 609777

Ion Ratio Lower Upper

41 100

42 69.2 55.8 83.6



#10

Heptane

Concen: 2.040 ppbv

RT: 7.558 min Scan# 1541

Delta R.T. 0.013 min

Lab File: VL039996.D

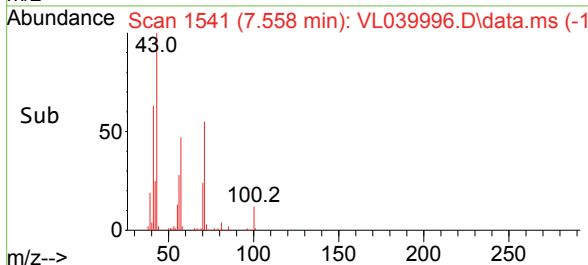
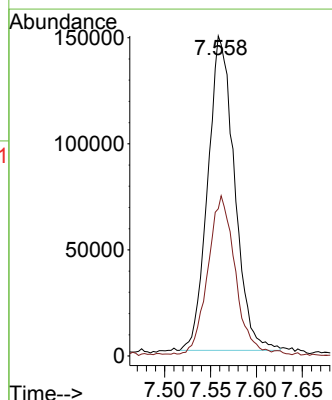
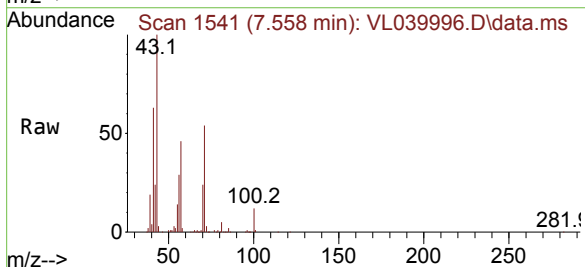
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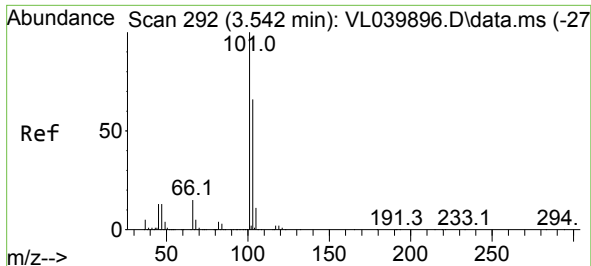
Tgt Ion: 43 Resp: 300782

Ion Ratio Lower Upper

43 100

57 54.7 40.7 61.1

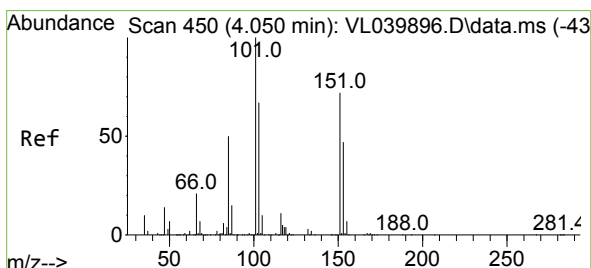
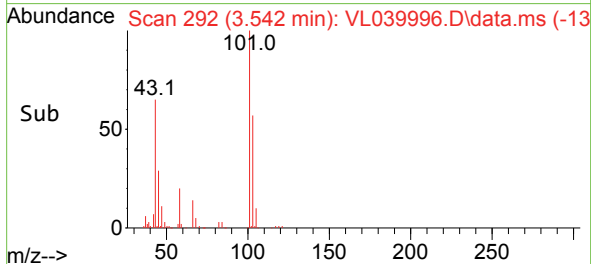
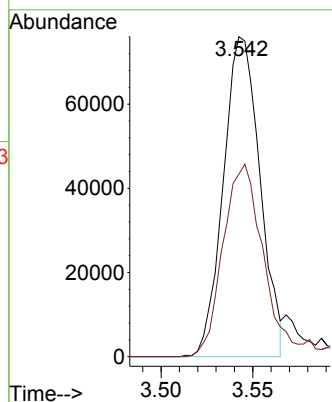
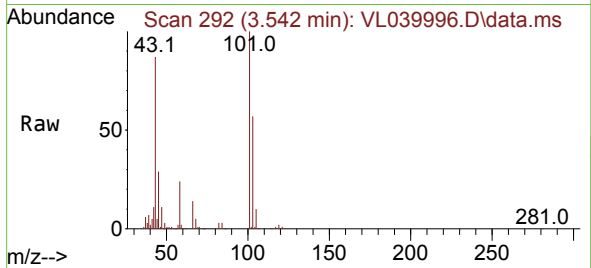




#11
 Trichlorofluoromethane
 Concen: 0.644 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. 0.013 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

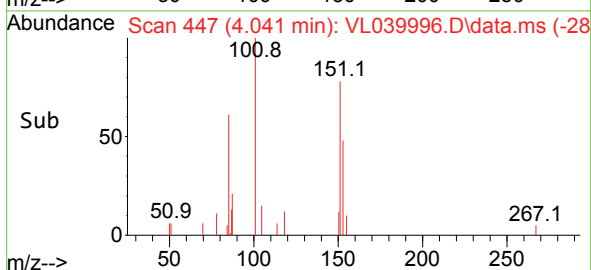
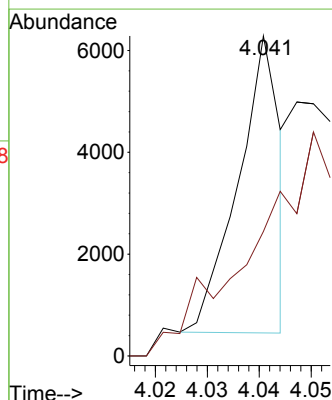
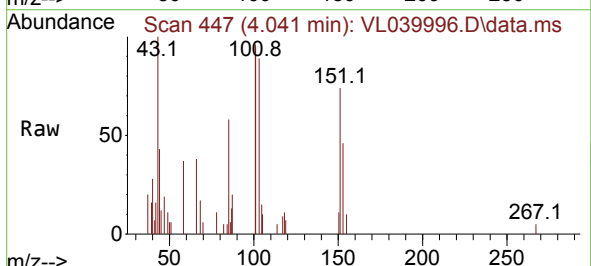
Instrument :
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 ClientSampleId :
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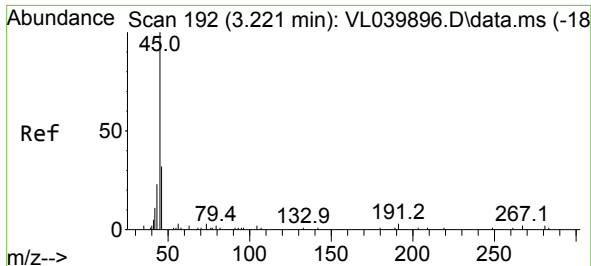
Tgt Ion:101 Resp: 105658
 Ion Ratio Lower Upper
 101 100
 103 57.1 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.027 ppbv
 RT: 4.041 min Scan# 447
 Delta R.T. 0.010 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

Tgt Ion:101 Resp: 3312
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.6 89.4#

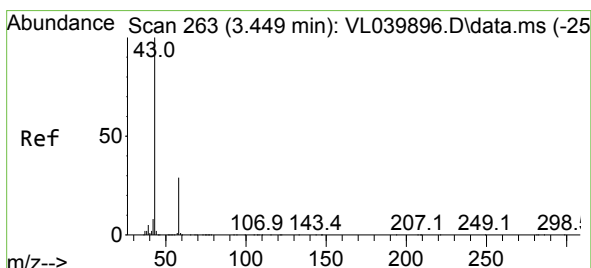
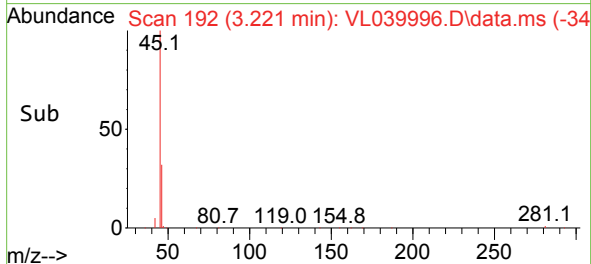
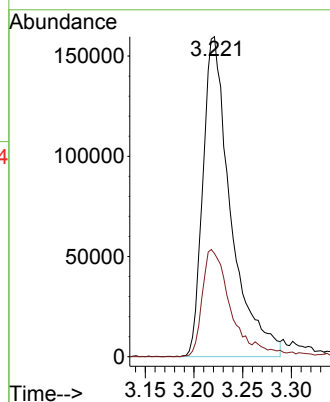
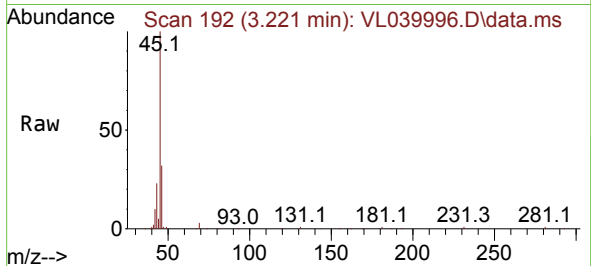




#13
Ethanol
Concen: 68.100 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.007 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

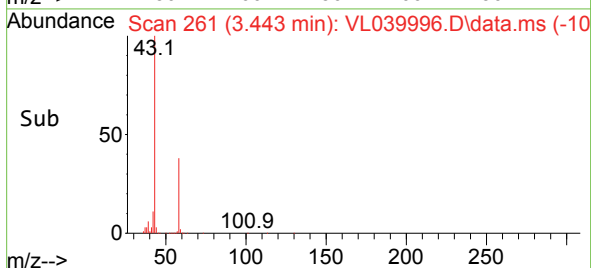
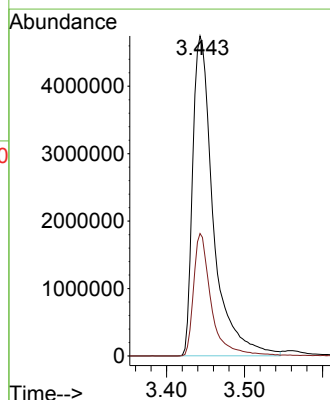
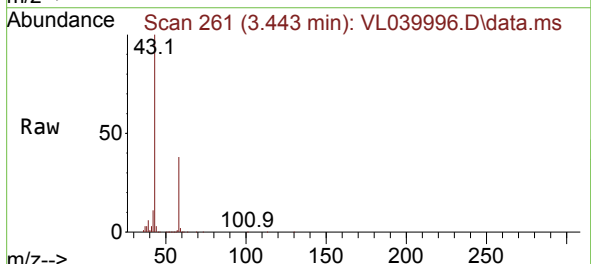
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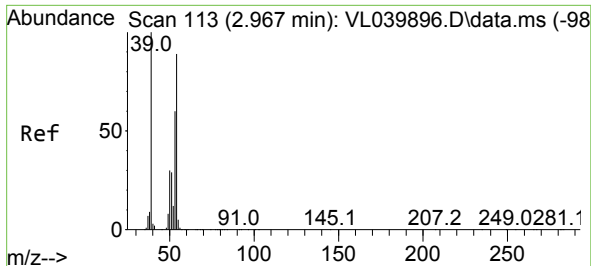
Tgt Ion: 45 Resp: 317626
Ion Ratio Lower Upper
45 100
46 35.9 14.6 58.2



#15
Acetone
Concen: 69.960 ppbv
RT: 3.443 min Scan# 261
Delta R.T. 0.010 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 43 Resp: 8721140
Ion Ratio Lower Upper
43 100
58 33.3 22.9 34.3

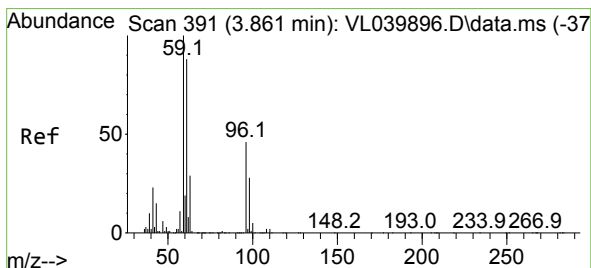
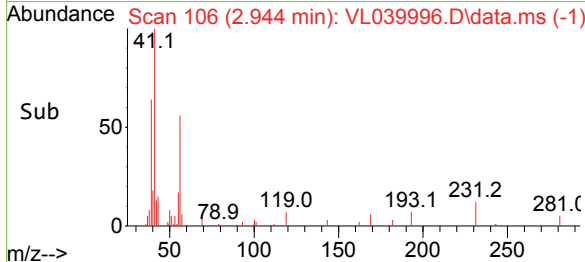
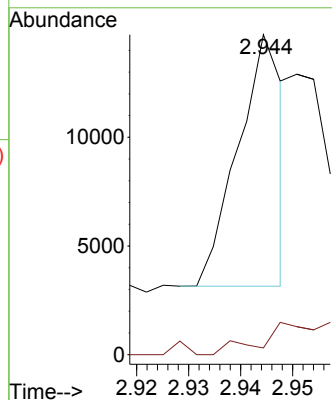
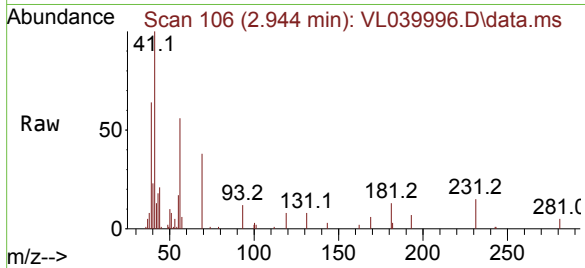




#16
1,3-Butadiene
Concen: 0.111 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.006 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

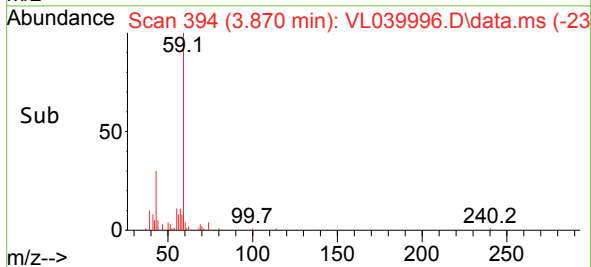
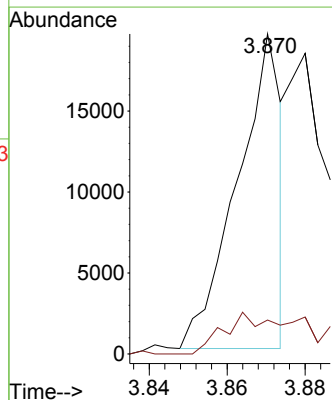
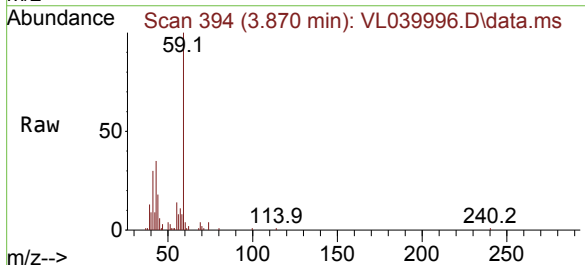
Instrument :
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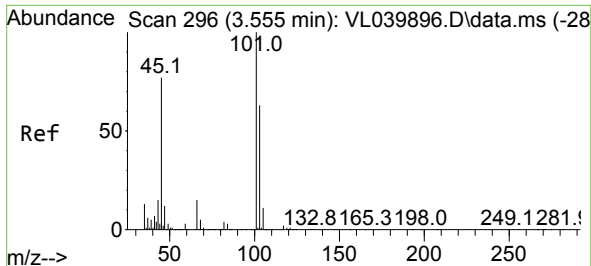
Tgt Ion: 39 Resp: 6896
Ion Ratio Lower Upper
39 100
54 0.0 66.6 99.8#



#17
tert-Butyl alcohol
Concen: 0.106 ppbv
RT: 3.870 min Scan# 394
Delta R.T. 0.026 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 59 Resp: 15236
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

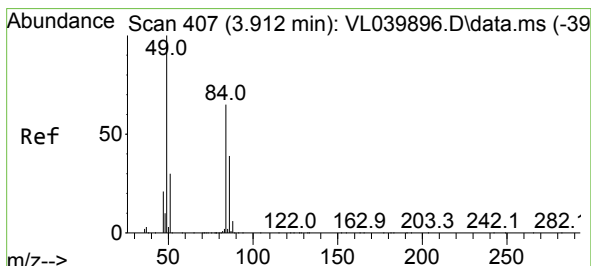
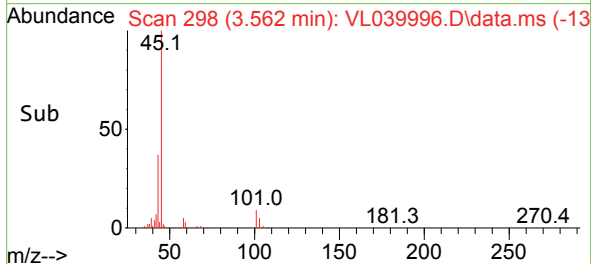
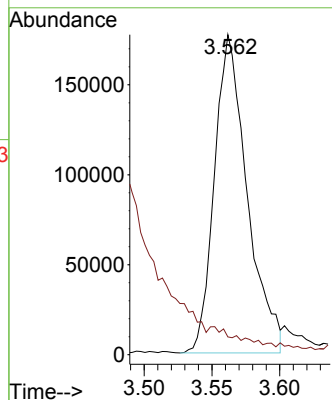
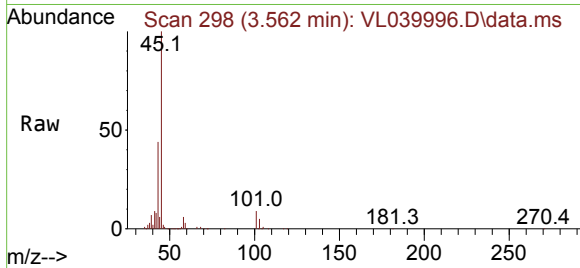




#19
Isopropyl Alcohol
Concen: 4.396 ppbv
RT: 3.562 min Scan# 296
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

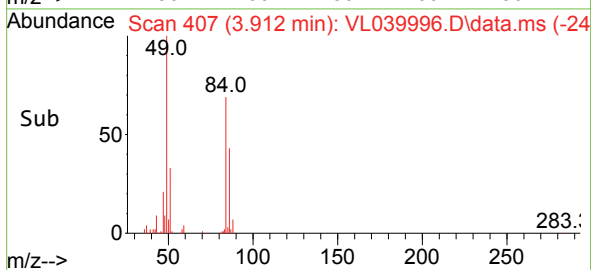
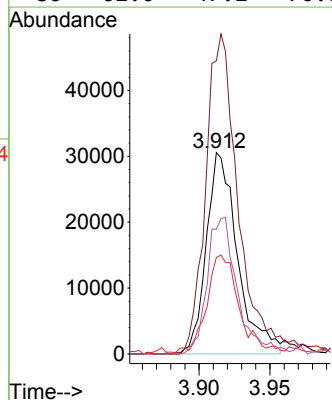
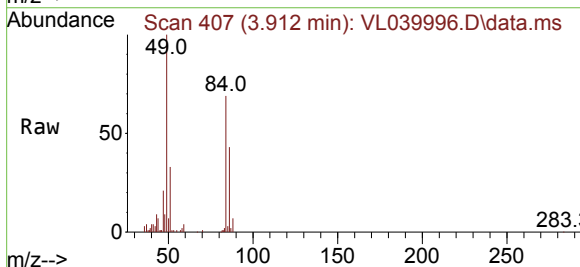
Instrument :
MSVOA_L
ClientSampleId :
SG-2

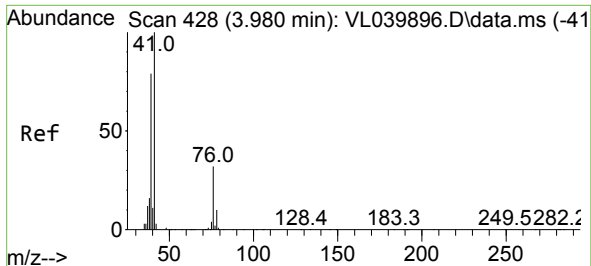
Tgt Ion: 45 Resp: 296730
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#



#20
Methylene Chloride
Concen: 0.776 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 84 Resp: 46881
Ion Ratio Lower Upper
84 100
49 143.6 122.2 183.4
51 46.0 36.3 54.5
86 62.0 47.2 70.8

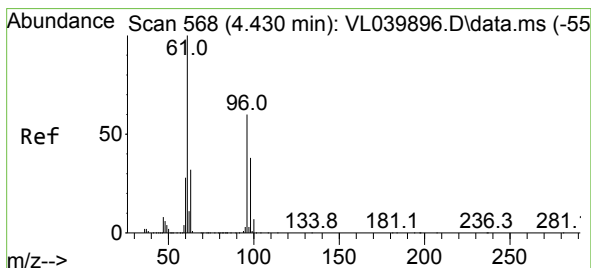
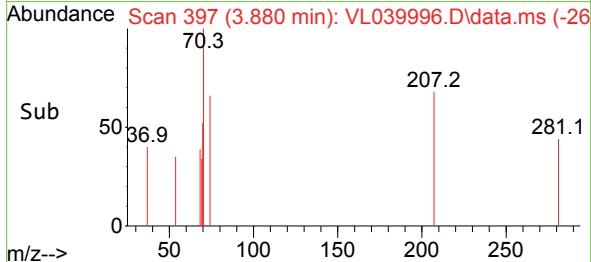
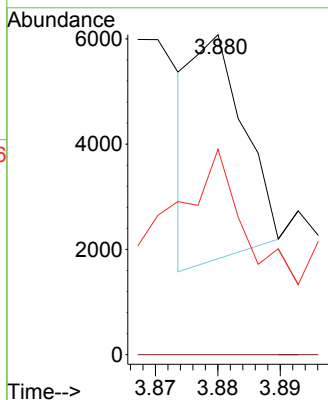
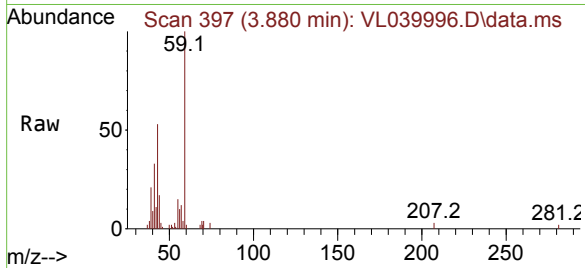




#21
 Allyl Chloride
 Concen: 0.029 ppbv
 RT: 3.880 min Scan# 397
 Delta R.T. -0.080 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

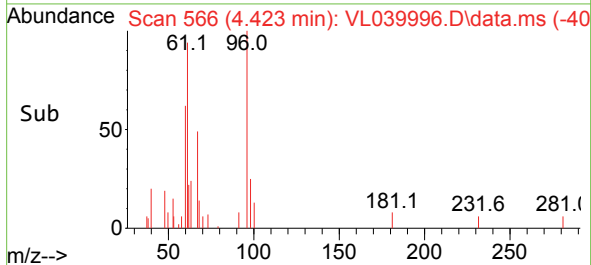
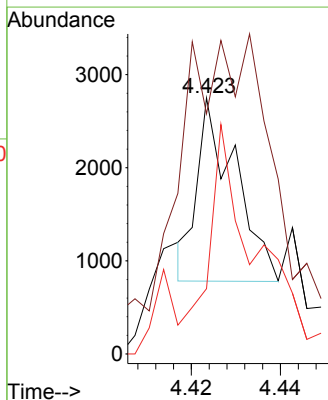
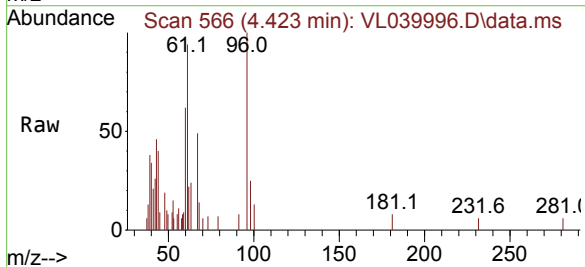
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

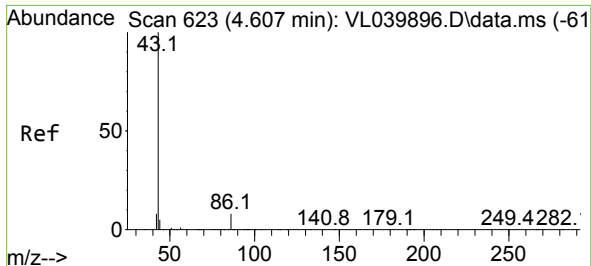
Tgt Ion: 41 Resp: 2479
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.6 38.4#
 39 217.6 65.2 97.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.020 ppbv
 RT: 4.423 min Scan# 566
 Delta R.T. 0.013 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

Tgt Ion: 96 Resp: 1173
 Ion Ratio Lower Upper
 96 100
 61 43.4 134.1 201.1#
 98 19.9 50.4 75.6#

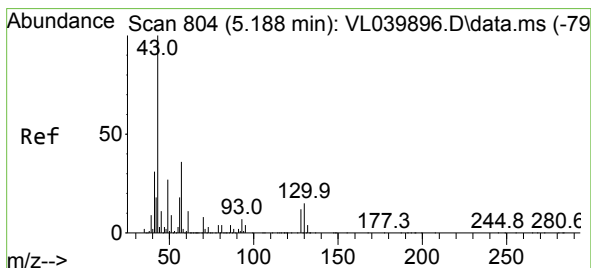
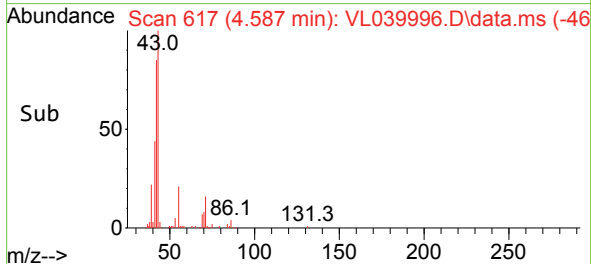
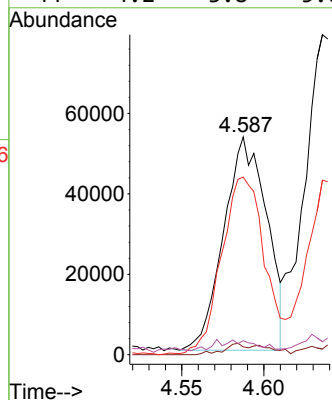
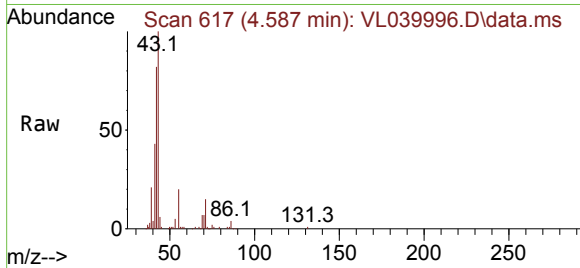




#23
 Vinyl Acetate
 Concen: 1.882 ppbv
 RT: 4.587 min Scan# 617
 Delta R.T. -0.006 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

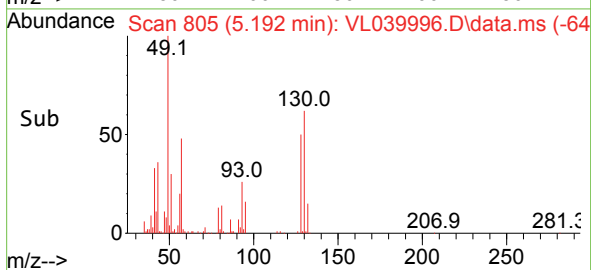
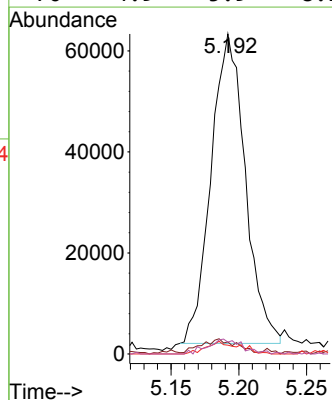
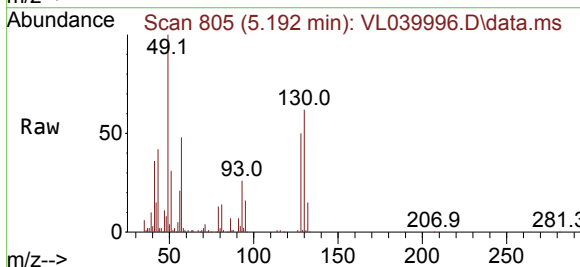
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

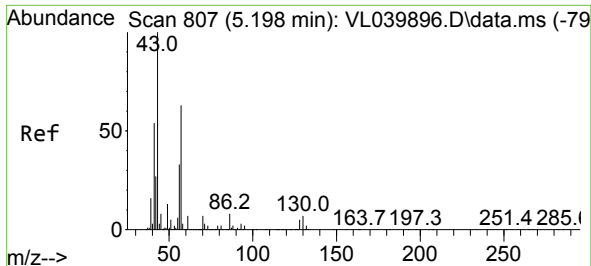
Tgt Ion: 43	Resp: 96367
Ion Ratio	Lower Upper
43 100	
86 3.7	5.0 7.4#
42 84.8	7.6 11.4#
44 4.2	3.8 5.6



#25
 Ethyl Acetate
 Concen: 0.470 ppbv
 RT: 5.192 min Scan# 805
 Delta R.T. 0.023 min
 Lab File: VL039996.D
 Acq: 13 Dec 2022 4:16

Tgt	Ion: 43	Resp:	107649
Ion	Ratio	Lower	Upper
43	100		
45	6.6	8.4	12.6#
61	3.9	8.5	12.7#
70	4.9	5.9	8.9#

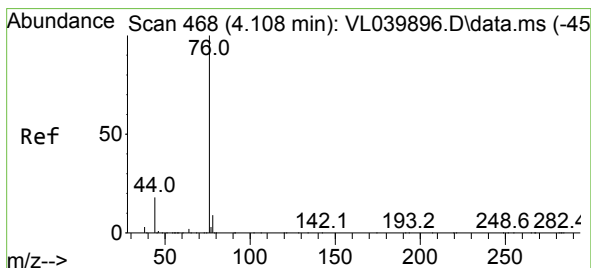
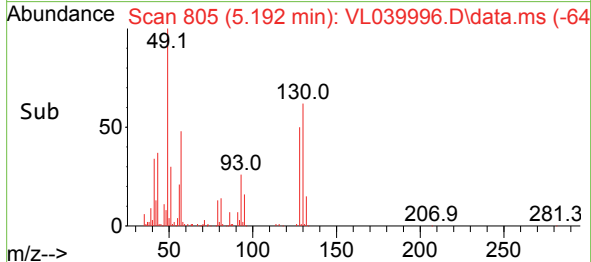
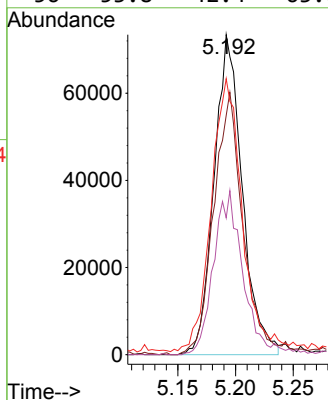
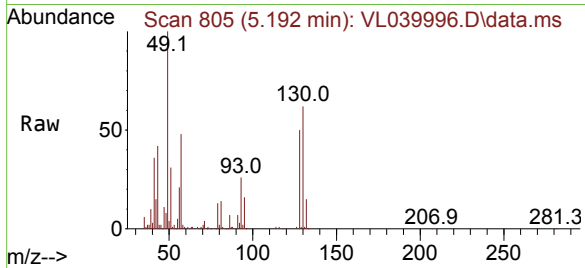




#26
Hexane
Concen: 1.249 ppbv
RT: 5.192 min Scan# 807
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

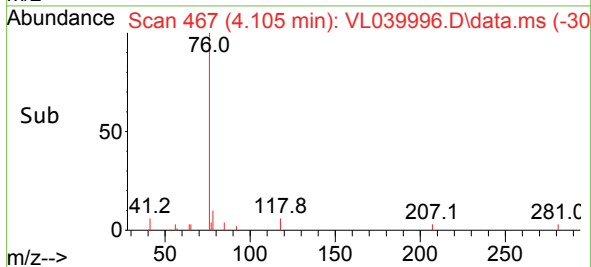
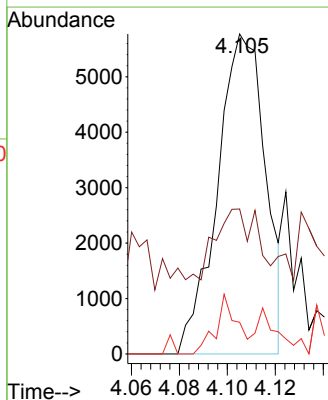
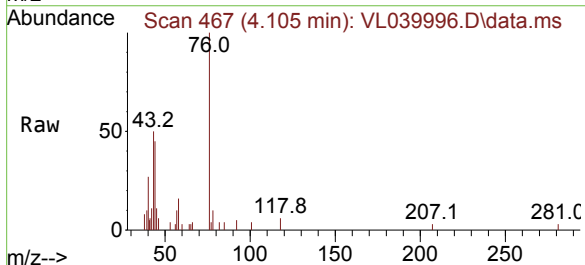
Instrument :
MSVOA_L
ClientSampleId :
SG-2

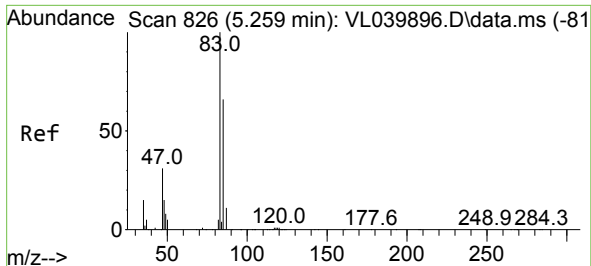
Tgt Ion: 57 Resp: 124916
Ion Ratio Lower Upper
57 100
41 87.5 72.3 108.5
43 98.3 188.7 283.1#
56 53.8 42.4 63.6



#27
Carbon Disulfide
Concen: 0.064 ppbv
RT: 4.105 min Scan# 467
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 76 Resp: 8038
Ion Ratio Lower Upper
76 100
44 30.3 14.7 22.1#
78 14.0 7.8 11.8#





#29

Chloroform

Concen: 0.050 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

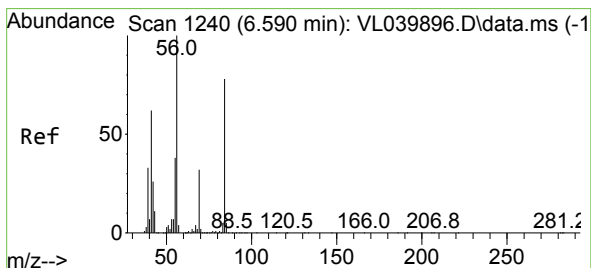
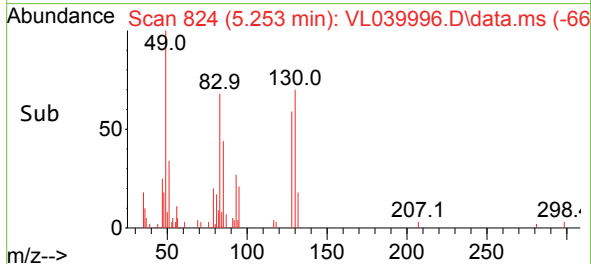
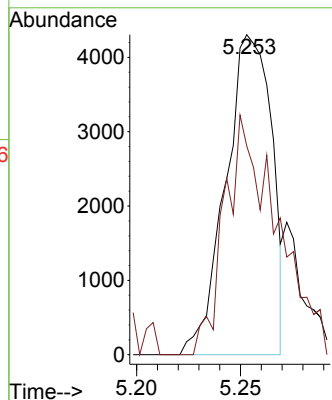
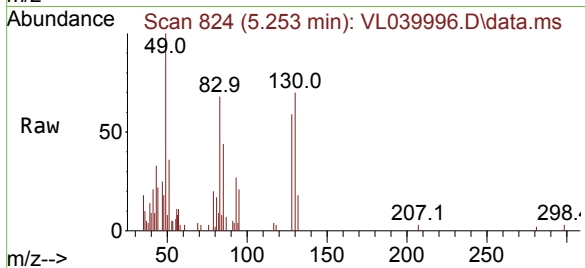
SG-2

Tgt Ion: 83 Resp: 6647

Ion Ratio Lower Upper

83 100

85 65.2 52.4 78.6



#30

Cyclohexane

Concen: 0.077 ppbv

RT: 6.591 min Scan# 1240

Delta R.T. 0.026 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

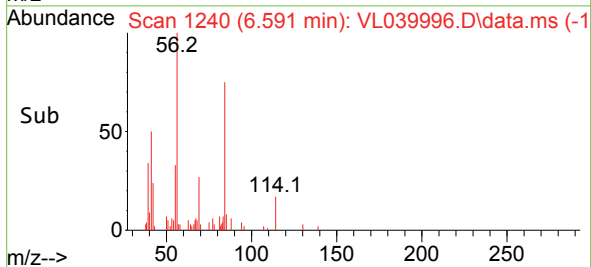
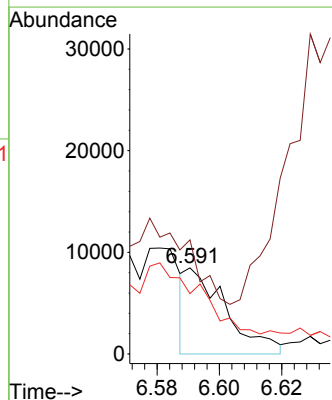
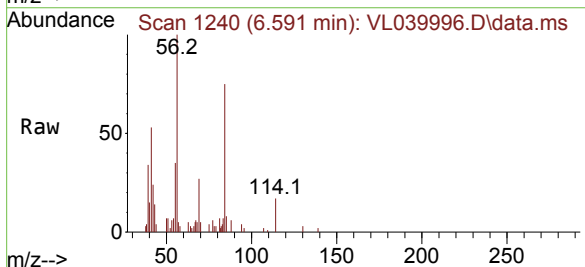
Tgt Ion: 84 Resp: 7590

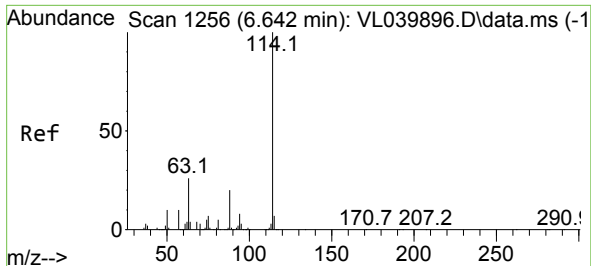
Ion Ratio Lower Upper

84 100

56 0.0 112.5 168.7#

41 0.0 67.8 101.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.636 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

SG-2

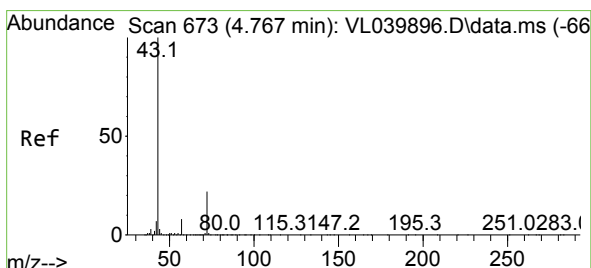
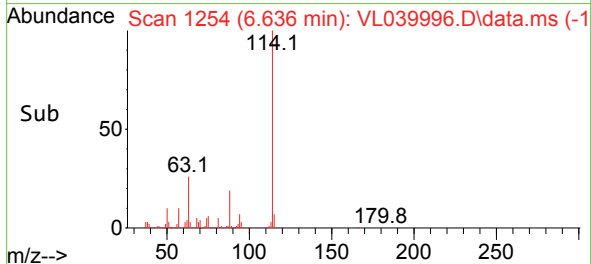
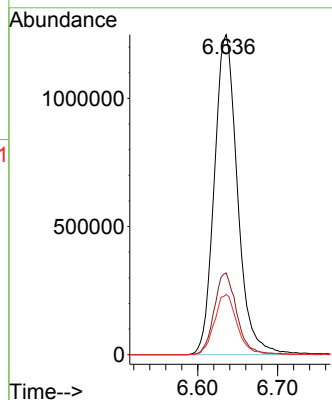
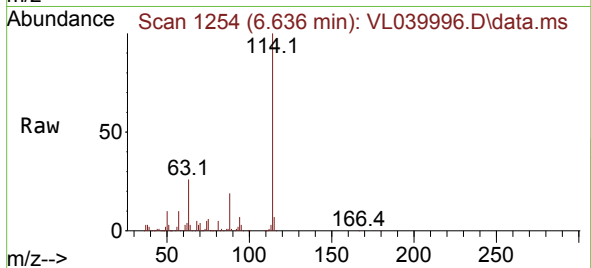
Tgt Ion:114 Resp: 2499253

Ion Ratio Lower Upper

114 100

63 25.3 21.4 32.0

88 18.8 15.3 22.9



#34

2-Butanone

Concen: 2.409 ppbv

RT: 4.767 min Scan# 673

Delta R.T. 0.016 min

Lab File: VL039996.D

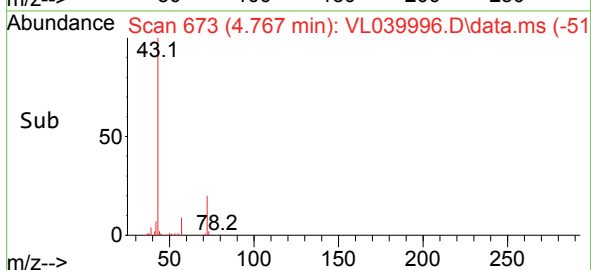
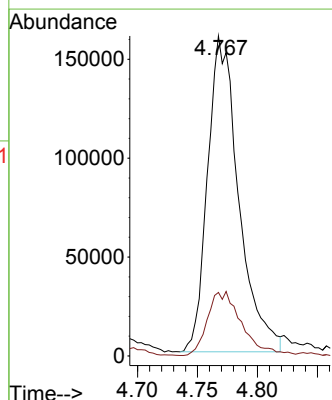
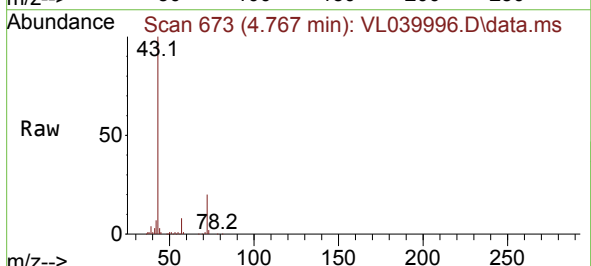
Acq: 13 Dec 2022 4:16

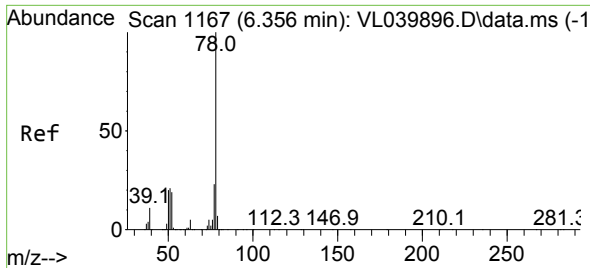
Tgt Ion: 43 Resp: 288069

Ion Ratio Lower Upper

43 100

72 23.6 17.4 26.2

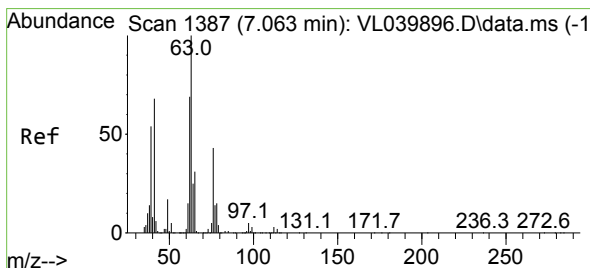
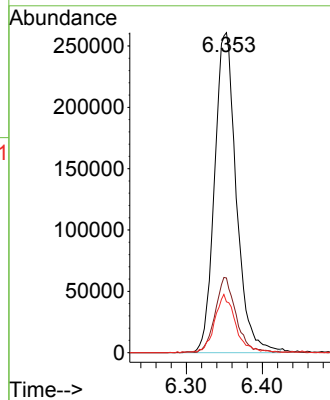
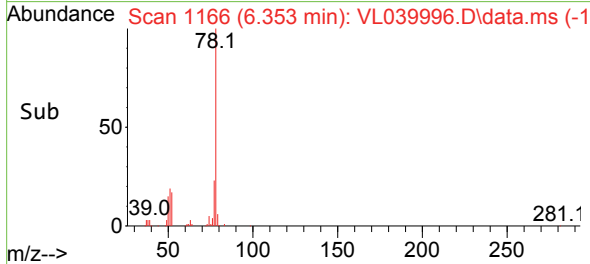
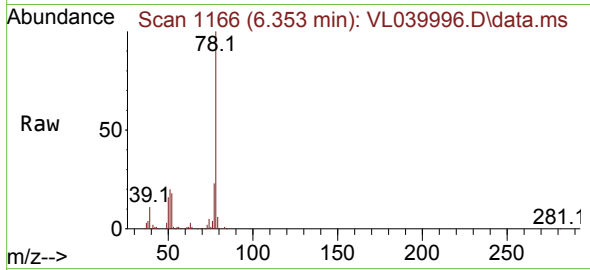




#36
Benzene
Concen: 2.433 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

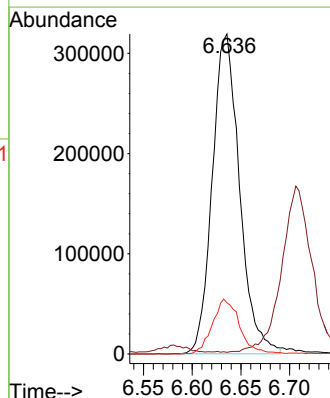
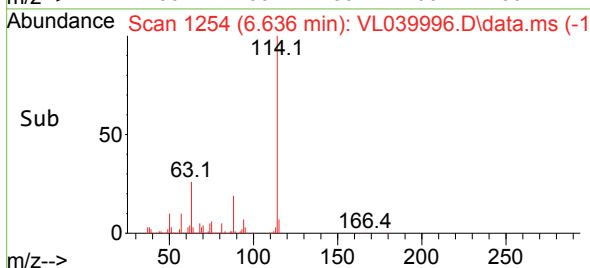
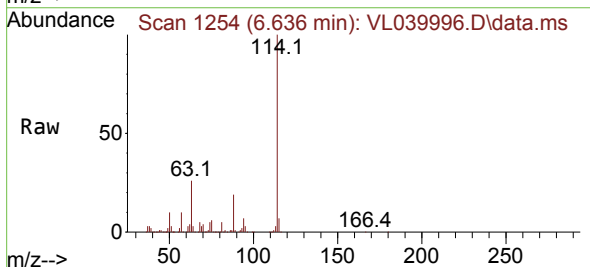
Instrument :
MSVOA_L
ClientSampleId :
SG-2

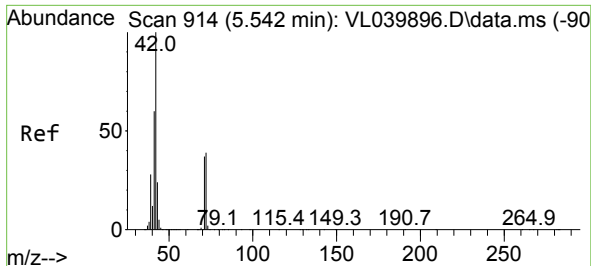
Tgt Ion: 78 Resp: 516905
Ion Ratio Lower Upper
78 100
77 23.3 18.2 27.2
50 15.9 15.8 23.8



#39
1,2-Dichloropropane
Concen: 7.490 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. -0.398 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 63 Resp: 619888
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 15.9 55.0 82.6#

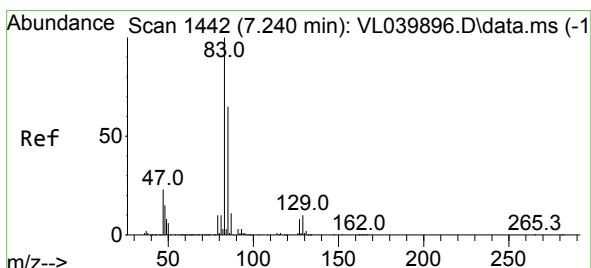
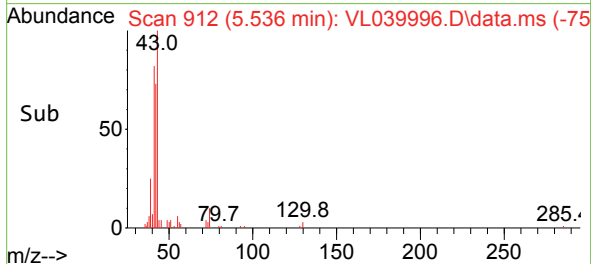
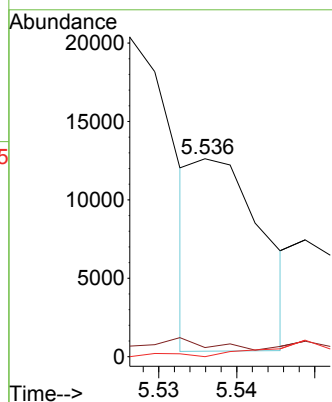
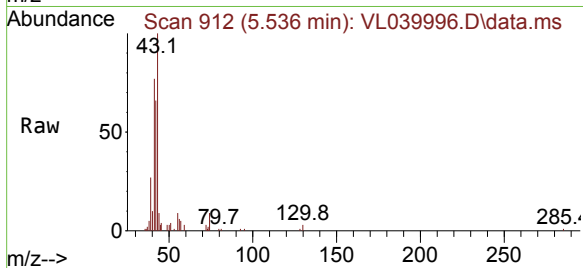




#41
Tetrahydrofuran
Concen: 0.090 ppbv
RT: 5.536 min Scan# 914
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

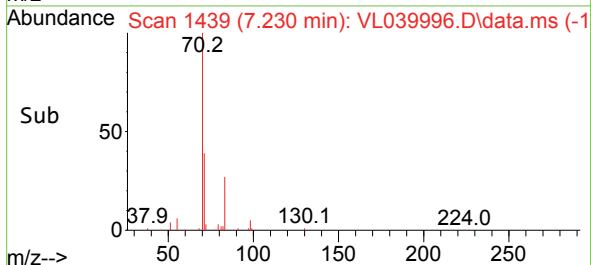
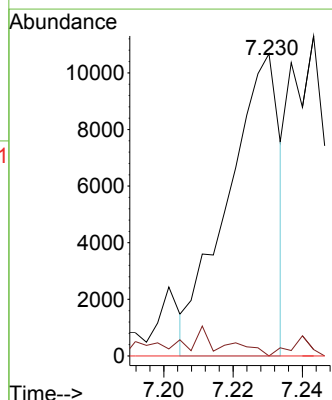
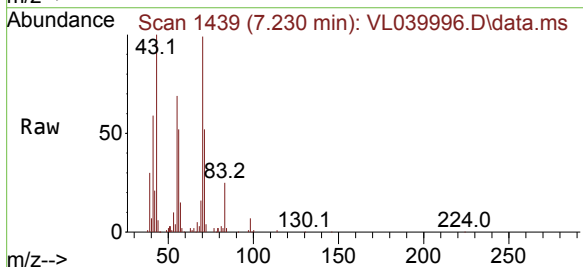
Instrument :
MSVOA_L
ClientSampleId :
SG-2

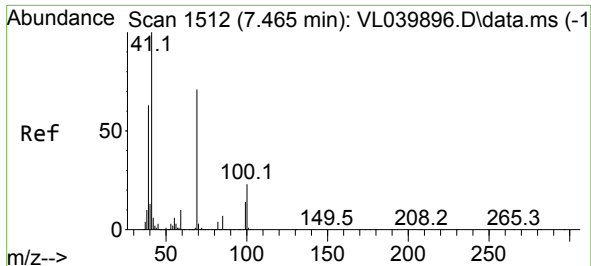
Tgt Ion: 42 Resp: 7455
Ion Ratio Lower Upper
42 100
72 0.0 31.6 47.4#
71 0.0 31.2 46.8#



#42
Bromodichloromethane
Concen: 0.070 ppbv
RT: 7.230 min Scan# 1439
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 83 Resp: 11108
Ion Ratio Lower Upper
83 100
85 0.0 52.0 78.0#
127 0.0 6.5 9.7#

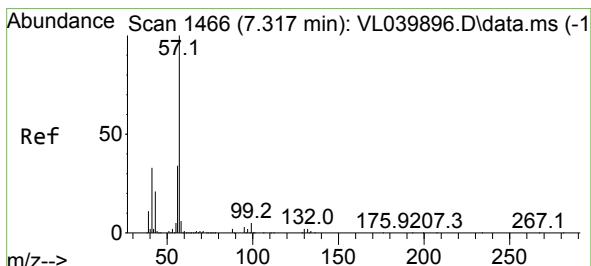
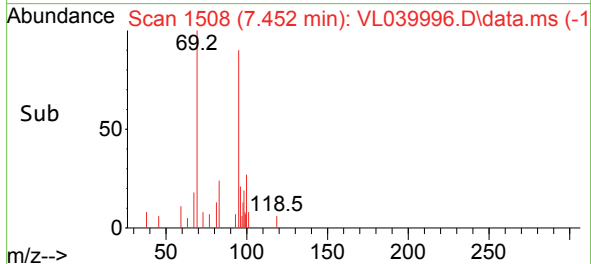
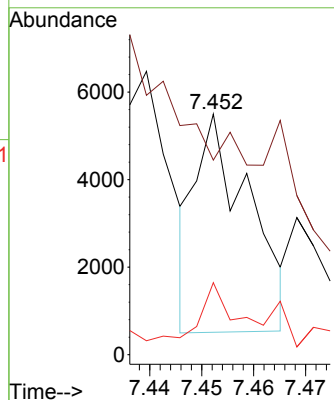
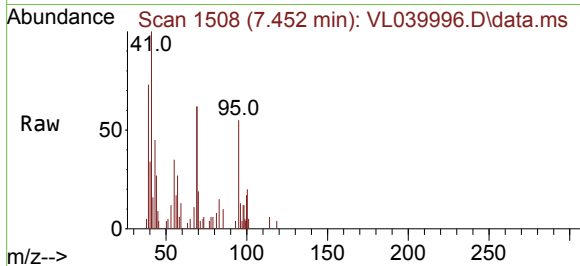




#43
Methyl Methacrylate
Concen: 0.043 ppbv
RT: 7.452 min Scan# 1508
Delta R.T. 0.013 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

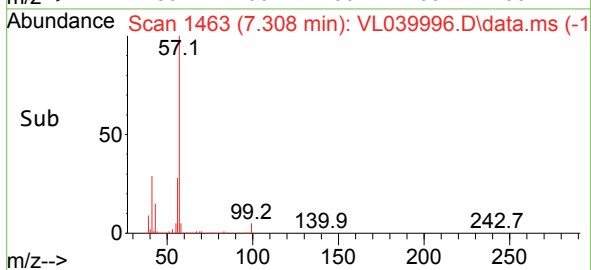
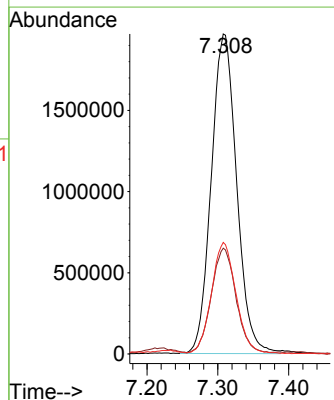
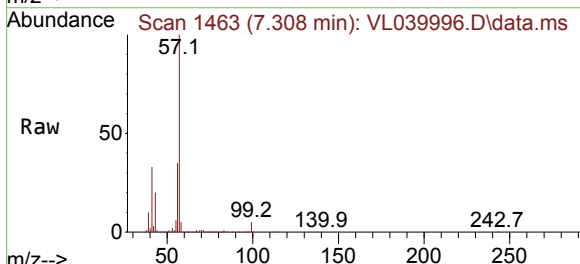
Instrument :
MSVOA_L
ClientSampleId :
SG-2

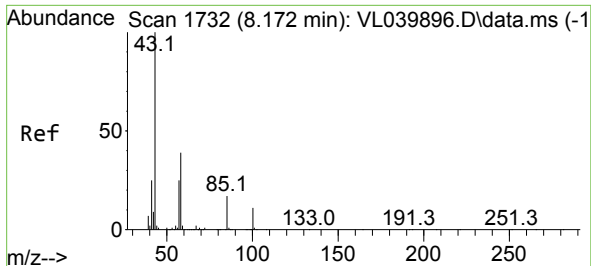
Tgt Ion: 69 Resp: 3580
Ion Ratio Lower Upper
69 100
41 0.0 116.4 174.6#
100 56.1 26.8 40.2#



#44
2,2,4-Trimethylpentane
Concen: 13.827 ppbv
RT: 7.308 min Scan# 1463
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 57 Resp: 4903607
Ion Ratio Lower Upper
57 100
41 32.7 26.2 39.2
56 34.1 25.5 38.3





#50

4-Methyl-2-Pentanone

Concen: 0.454 ppbv

RT: 8.182 min Scan# 1

Delta R.T. 0.036 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

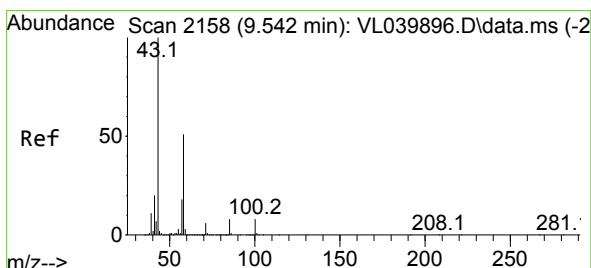
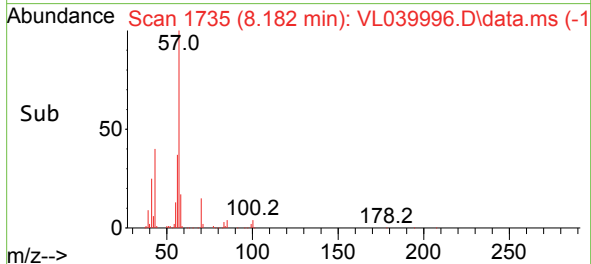
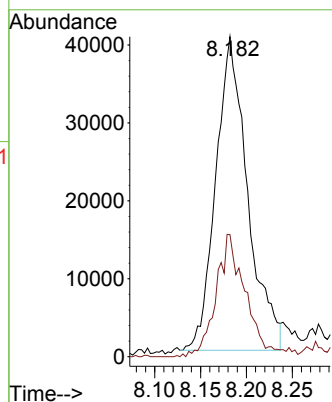
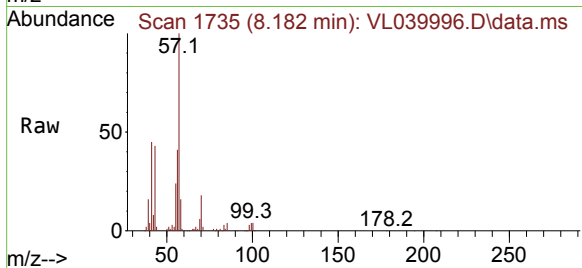
SG-2

Tgt Ion: 43 Resp: 97301

Ion Ratio Lower Upper

43 100

58 35.8 29.8 44.6



#51

2-Hexanone

Concen: 3.074 ppbv

RT: 9.516 min Scan# 2150

Delta R.T. 0.000 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

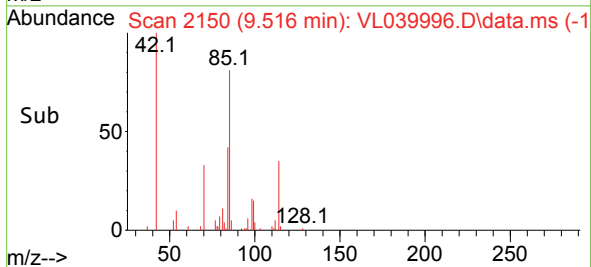
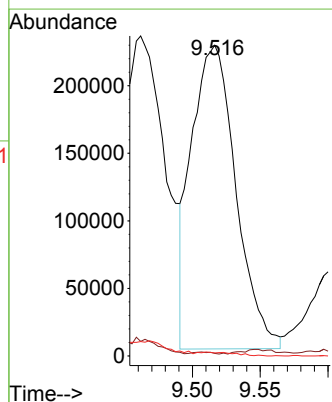
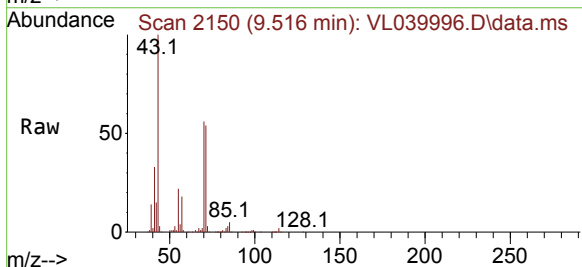
Tgt Ion: 43 Resp: 511150

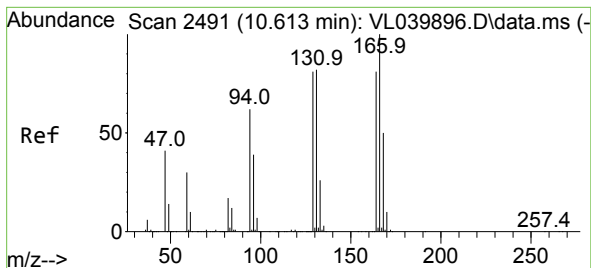
Ion Ratio Lower Upper

43 100

58 2.1 40.2 60.4#

98 0.0 0.1 0.1#

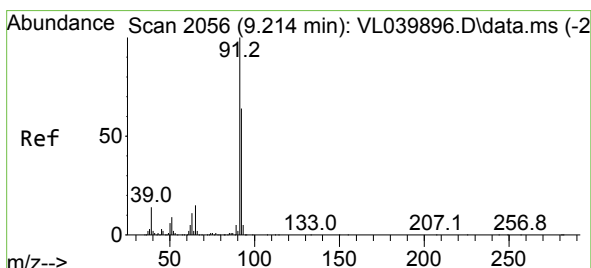
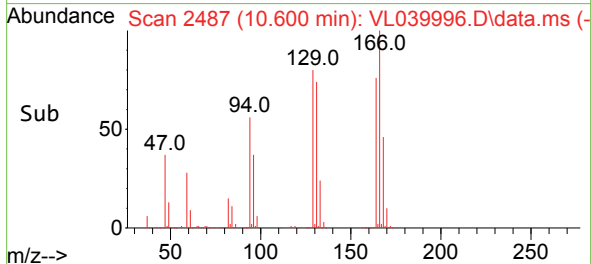
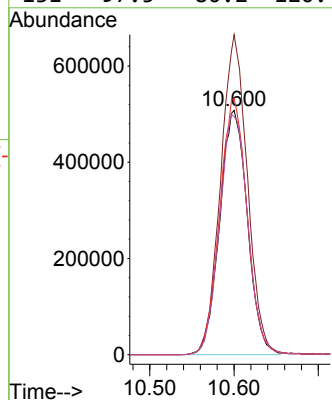
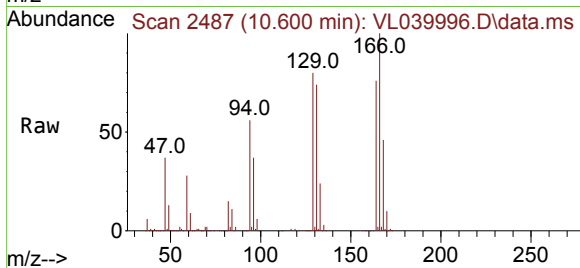




#52
Tetrachloroethene
Concen: 14.562 ppbv
RT: 10.600 min Scan# 2491
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

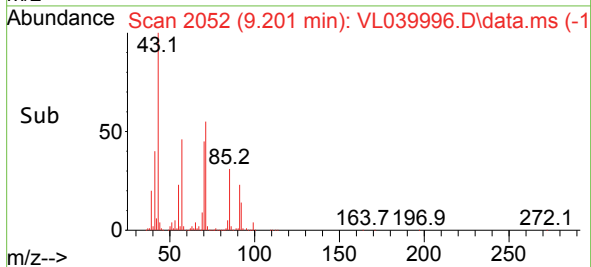
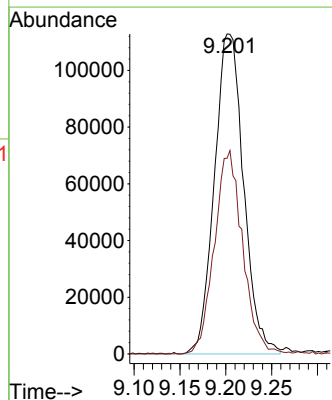
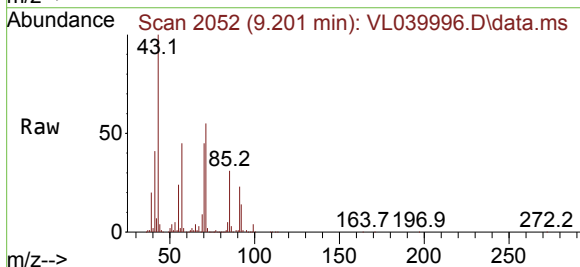
Instrument :
MSVOA_L
ClientSampleId :
SG-2

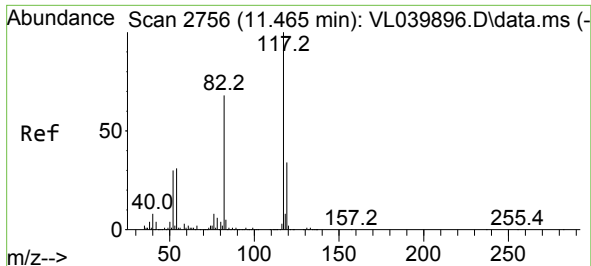
Tgt Ion:164 Resp: 1157267
Ion Ratio Lower Upper
164 100
166 131.0 98.3 147.5
129 105.0 79.7 119.5
131 97.5 80.2 120.4



#53
Toluene
Concen: 1.033 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 91 Resp: 249953
Ion Ratio Lower Upper
91 100
92 61.7 49.8 74.6

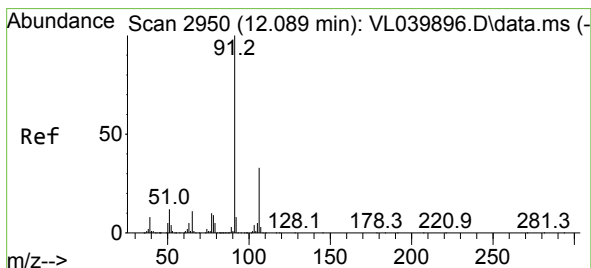
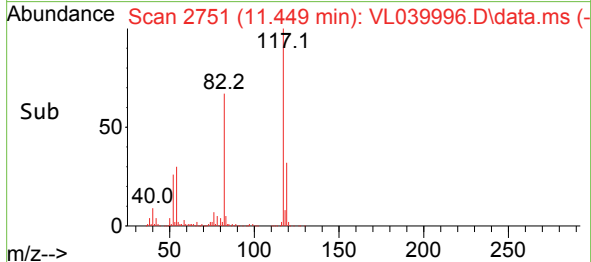
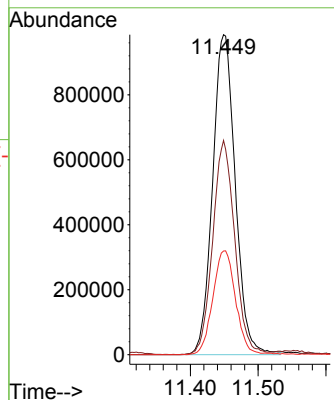
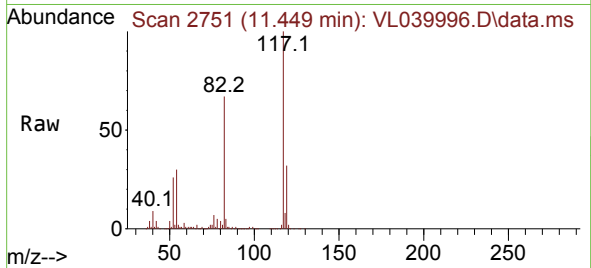




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

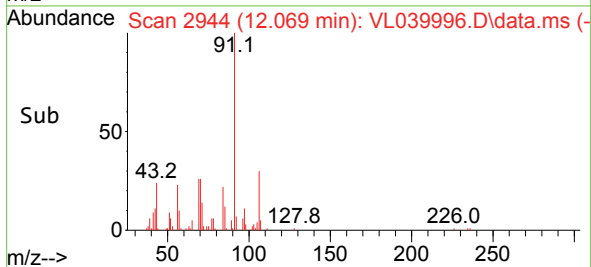
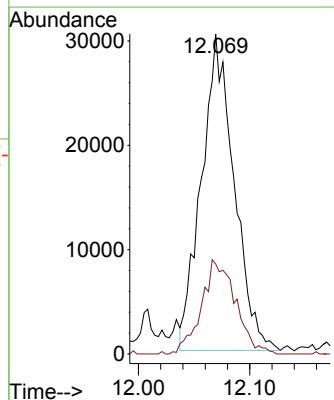
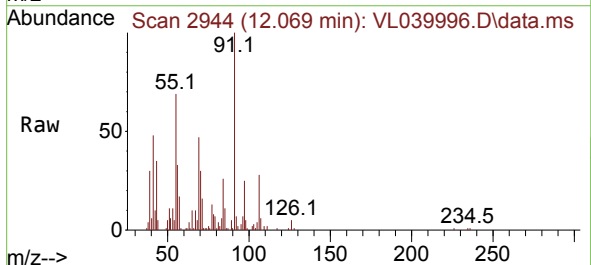
Instrument :
MSVOA_L
ClientSampleId :
SG-2

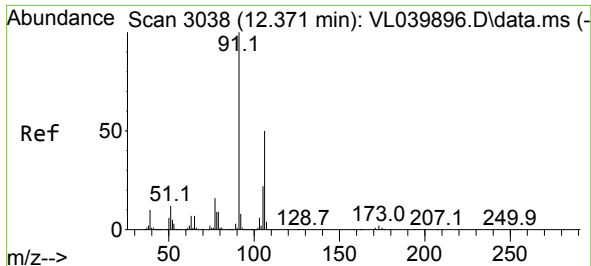
Tgt Ion:117 Resp: 2288628
Ion Ratio Lower Upper
117 100
82 65.0 52.3 78.5
119 32.9 25.7 38.5



#58
Ethyl Benzene
Concen: 0.199 ppbv
RT: 12.069 min Scan# 2944
Delta R.T. 0.013 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 91 Resp: 61820
Ion Ratio Lower Upper
91 100
106 28.4 26.1 39.1





#59

m/p-Xylene

Concen: 0.211 ppbv

RT: 12.356 min Scan# 3033

Delta R.T. 0.016 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

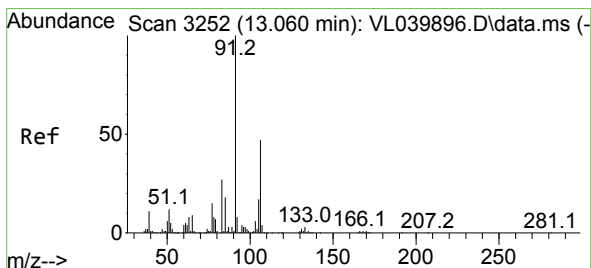
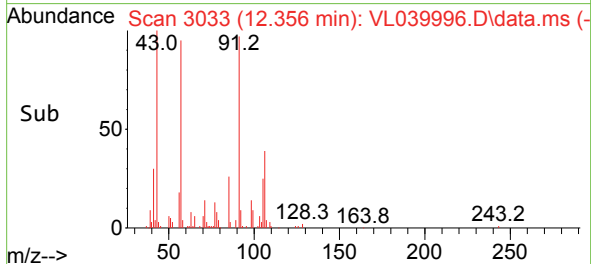
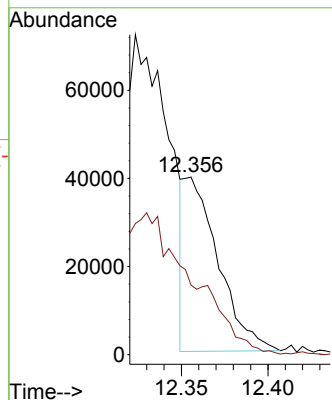
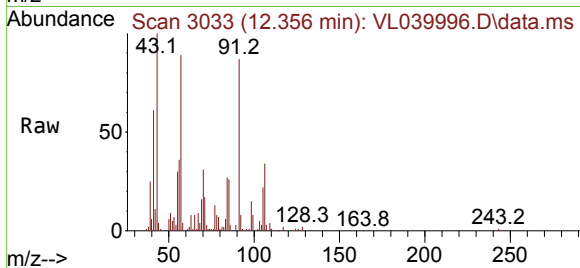
SG-2

Tgt Ion: 91 Resp: 54717

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#



#60

o-Xylene

Concen: 0.172 ppbv

RT: 13.044 min Scan# 3247

Delta R.T. 0.016 min

Lab File: VL039996.D

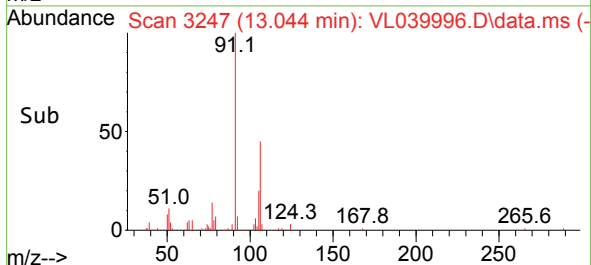
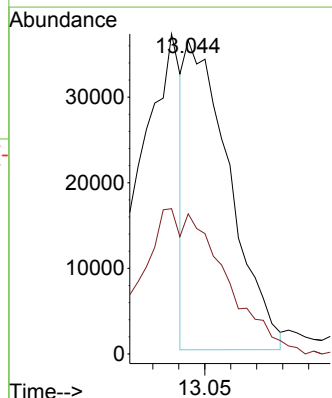
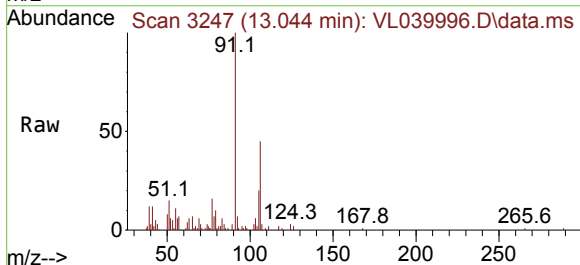
Acq: 13 Dec 2022 4:16

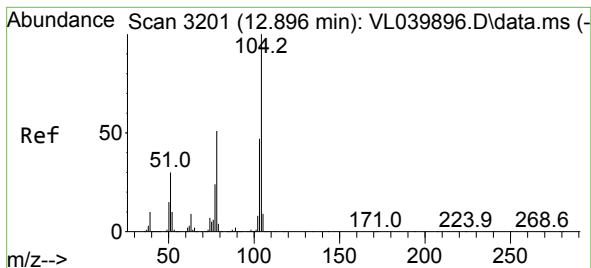
Tgt Ion: 91 Resp: 42588

Ion Ratio Lower Upper

91 100

106 0.0 23.2 69.6#





#61

Styrene

Concen: 0.048 ppbv

RT: 12.876 min Scan# 3195

Delta R.T. 0.013 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

SG-2

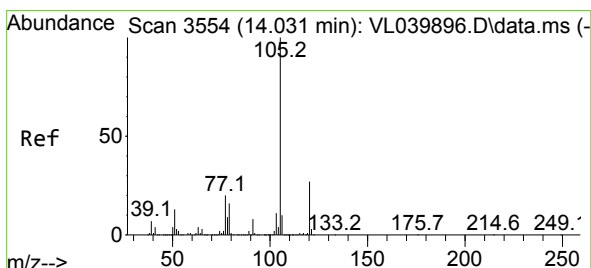
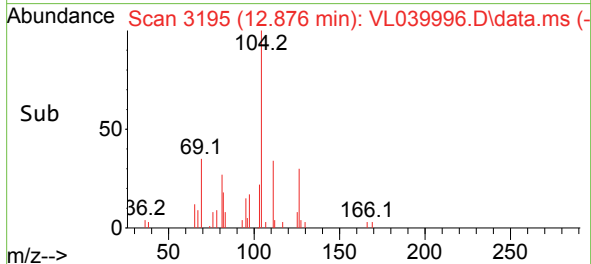
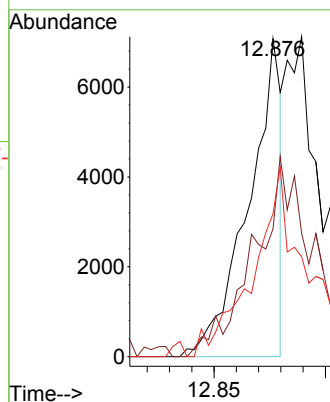
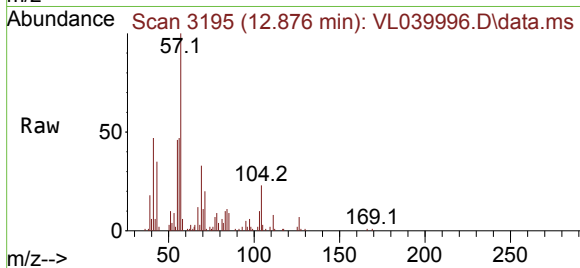
Tgt Ion:104 Resp: 7167

Ion Ratio Lower Upper

104 100

78 128.3 41.8 62.8#

103 99.9 37.2 55.8#



#62

Isopropylbenzene

Concen: 2.870 ppbv

RT: 14.011 min Scan# 3548

Delta R.T. 0.016 min

Lab File: VL039996.D

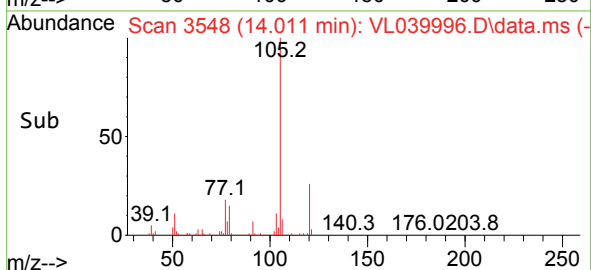
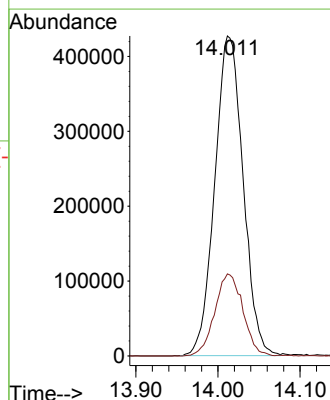
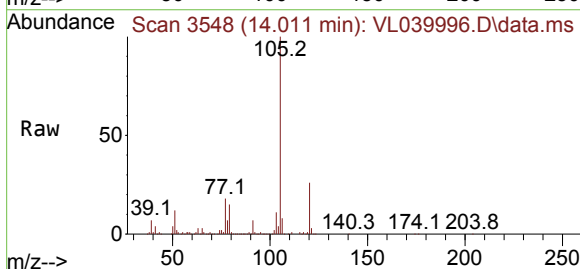
Acq: 13 Dec 2022 4:16

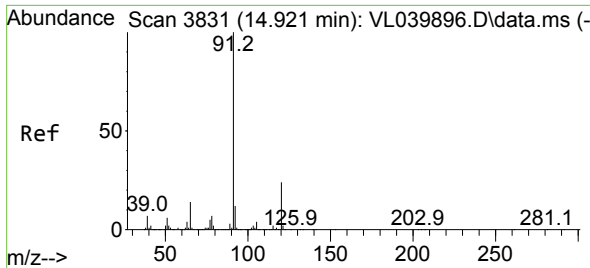
Tgt Ion:105 Resp: 1025628

Ion Ratio Lower Upper

105 100

120 25.6 21.4 32.2





#64

n-propylbenzene

Concen: 0.091 ppbv

RT: 14.899 min Scan# 3824

Delta R.T. 0.020 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

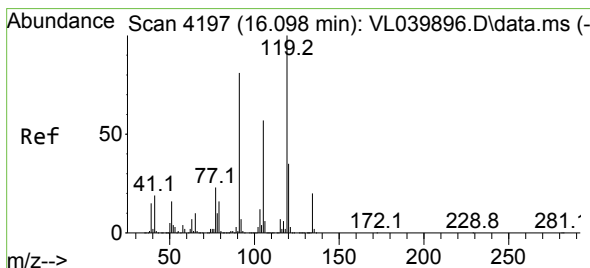
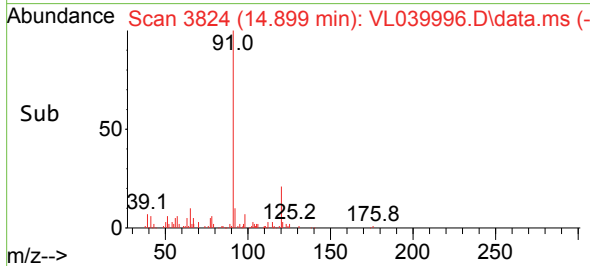
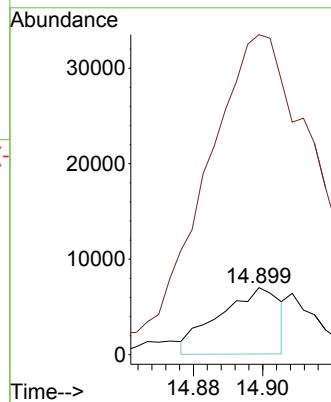
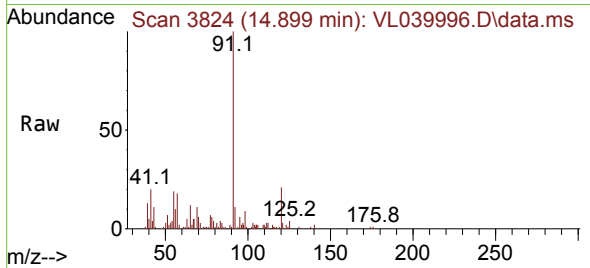
SG-2

Tgt Ion:120 Resp: 8464

Ion Ratio Lower Upper

120 100

91 933.8 353.7 530.5#



#65

tert-Butylbenzene

Concen: 0.070 ppbv

RT: 16.089 min Scan# 4194

Delta R.T. 0.032 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

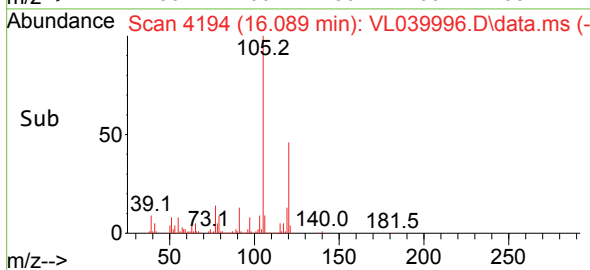
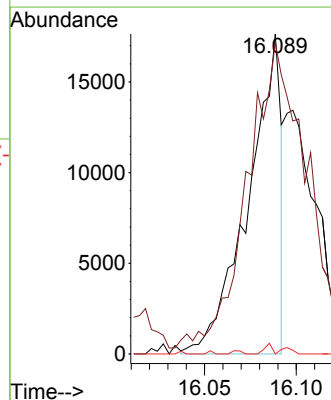
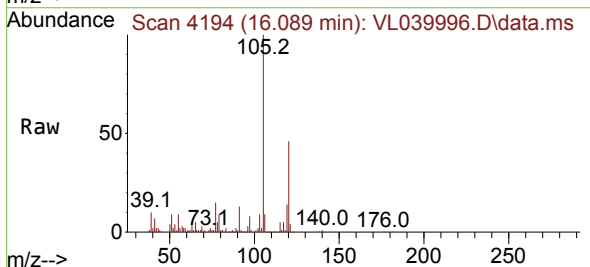
Tgt Ion:119 Resp: 21733

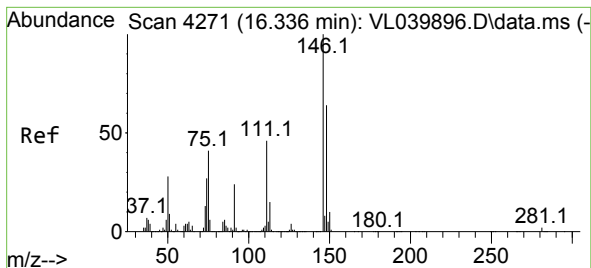
Ion Ratio Lower Upper

119 100

91 178.6 65.8 98.8#

134 0.5 16.1 24.1#

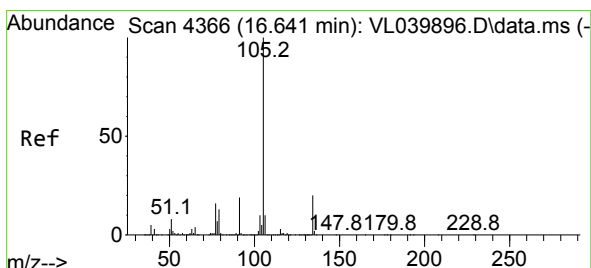
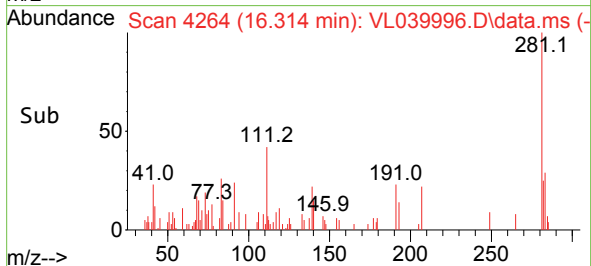
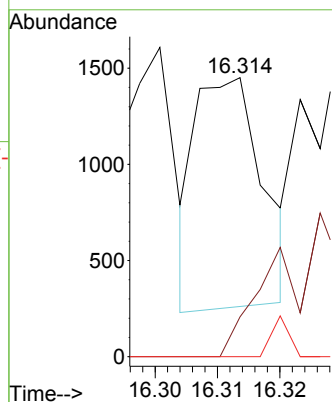
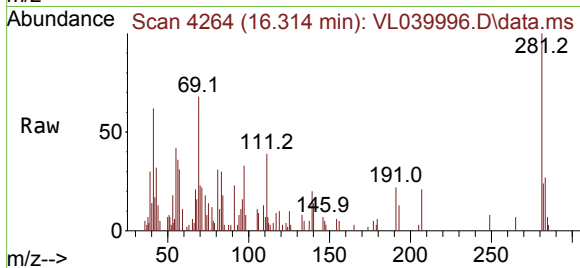




#66
Benzyl Chloride
Concen: 0.033 ppbv
RT: 16.314 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

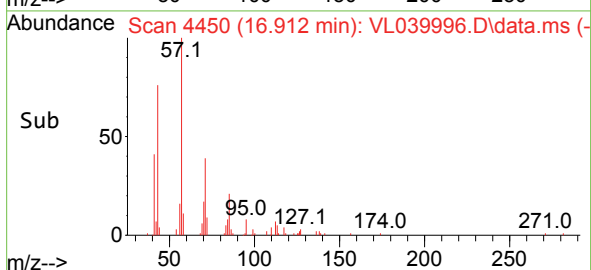
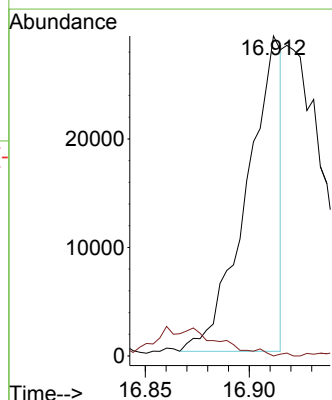
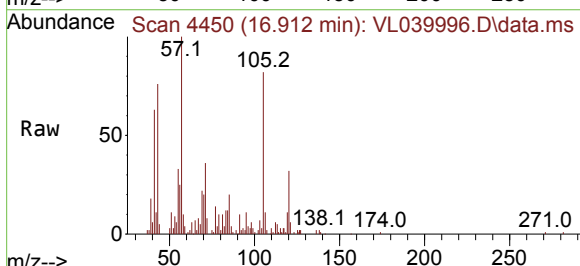
Instrument :
MSVOA_L
ClientSampleId :
SG-2

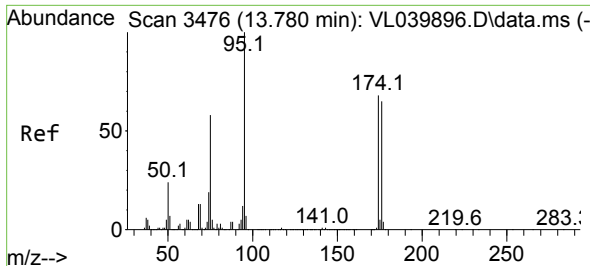
Tgt Ion: 91 Resp: 894
Ion Ratio Lower Upper
91 100
126 0.0 15.0 22.6#
128 0.0 4.6 7.0#



#67
sec-Butylbenzene
Concen: 0.079 ppbv
RT: 16.912 min Scan# 4450
Delta R.T. 0.309 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 105 Resp: 34066
Ion Ratio Lower Upper
105 100
134 16.8 15.0 22.6

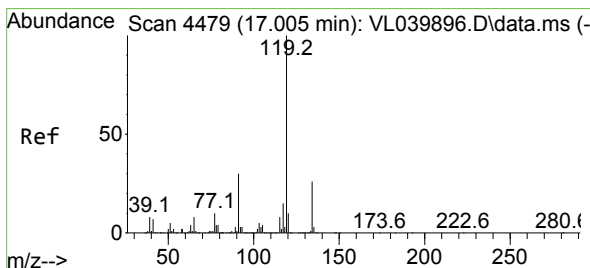
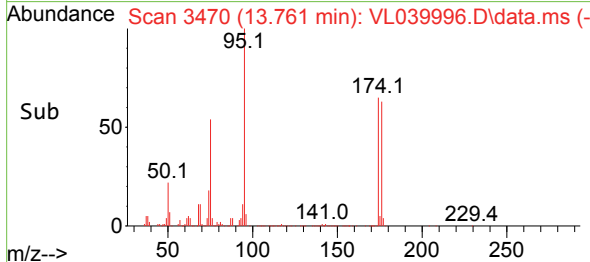
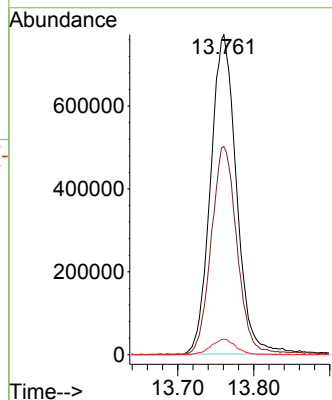
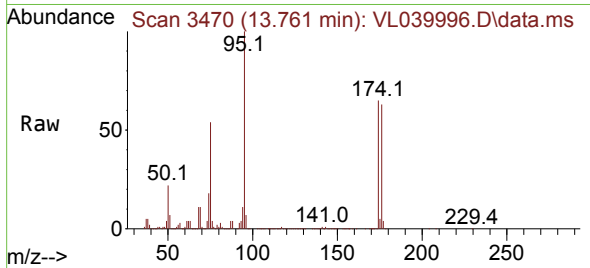




#68
1-Bromo-4-Fluorobenzene
Concen: 10.380 ppbv
RT: 13.761 min Scan# 3470
Delta R.T. 0.020 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

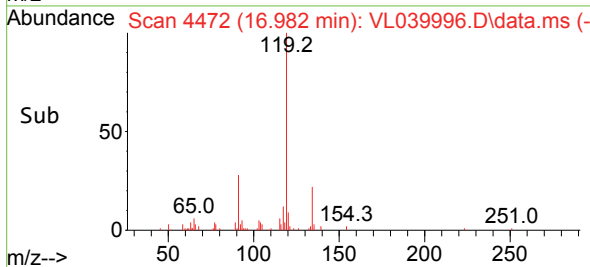
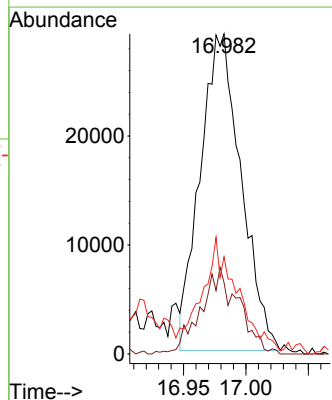
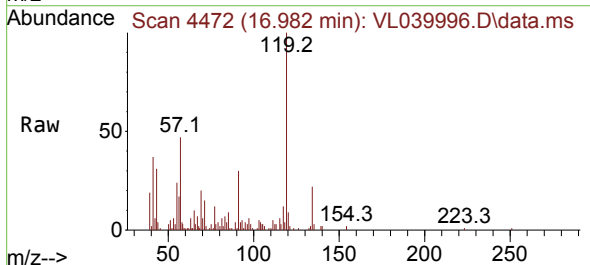
Instrument :
MSVOA_L
ClientSampleId :
SG-2

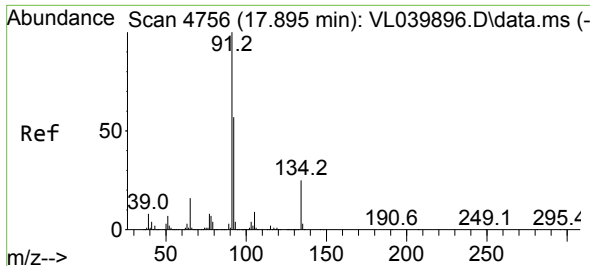
Tgt Ion: 95 Resp: 1814507
Ion Ratio Lower Upper
95 100
174 66.4 53.7 80.5
175 4.7 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.187 ppbv
RT: 16.982 min Scan# 4472
Delta R.T. 0.016 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 119 Resp: 66327
Ion Ratio Lower Upper
119 100
134 25.4 21.0 31.4
91 34.1 24.4 36.6

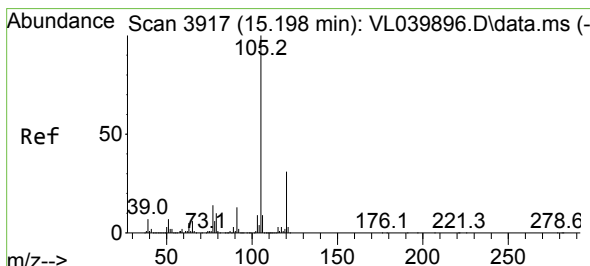
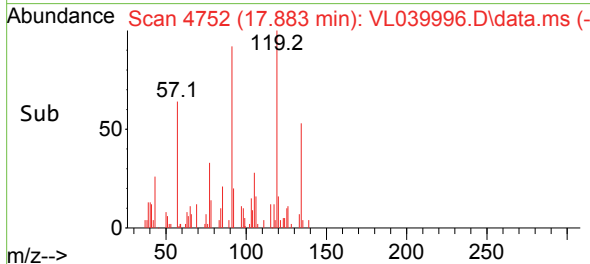
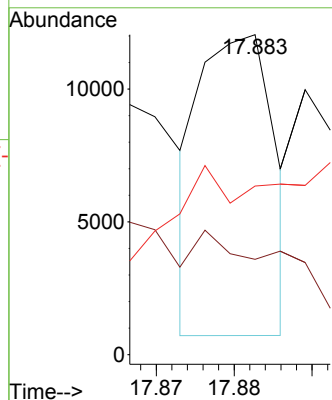
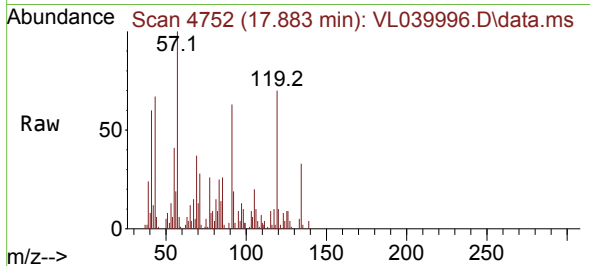




#70
n-Butylbenzene
Concen: 0.021 ppbv
RT: 17.883 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

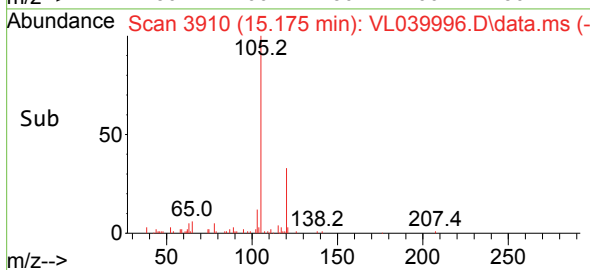
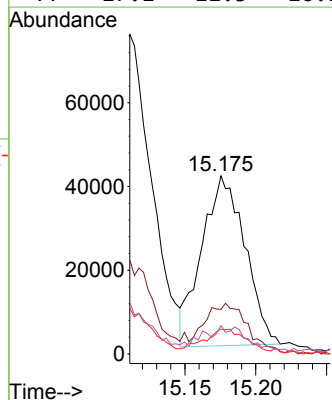
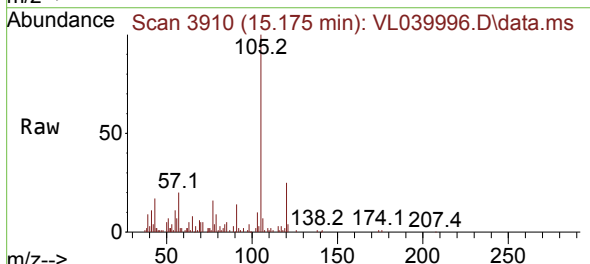
Instrument :
MSVOA_L
ClientSampleId :
SG-2

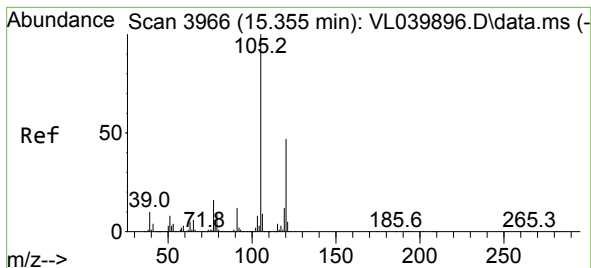
Tgt Ion: 91 Resp: 7505
Ion Ratio Lower Upper
91 100
92 0.0 44.2 66.2#
134 0.0 18.8 28.2#



#72
4-Ethyltoluene
Concen: 0.311 ppbv
RT: 15.175 min Scan# 3910
Delta R.T. 0.013 min
Lab File: VL039996.D
Acq: 13 Dec 2022 4:16

Tgt Ion: 105 Resp: 86499
Ion Ratio Lower Upper
105 100
120 32.3 24.5 36.7
91 15.8 10.4 15.6#
77 17.1 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.167 ppbv

RT: 15.336 min Scan# 3966

Delta R.T. 0.016 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

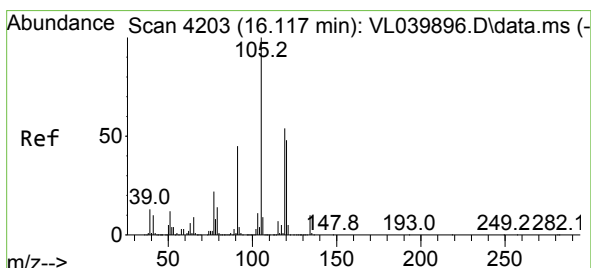
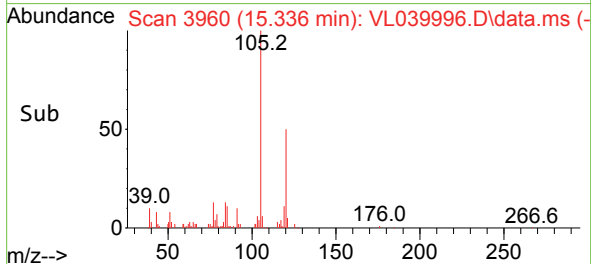
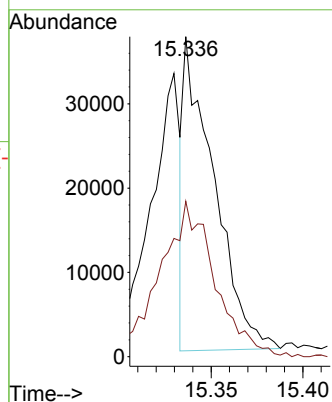
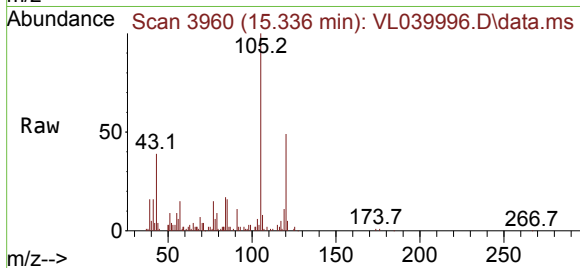
SG-2

Tgt Ion:105 Resp: 42625

Ion Ratio Lower Upper

105 100

120 49.3 37.9 56.9



#74

1,2,4-Trimethylbenzene

Concen: 1.193 ppbv

RT: 16.092 min Scan# 4195

Delta R.T. 0.016 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Tgt Ion:105 Resp: 322124

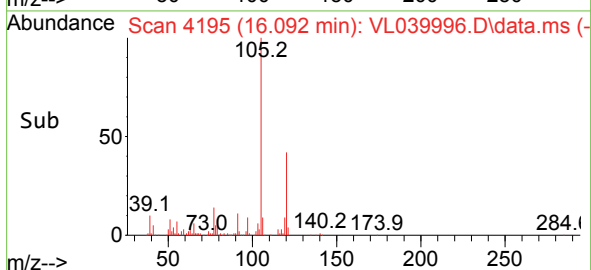
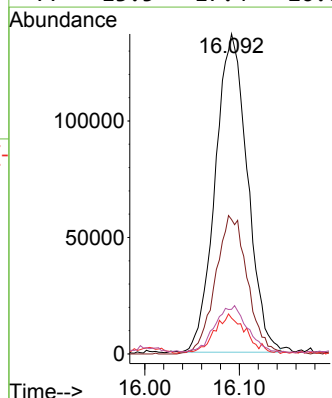
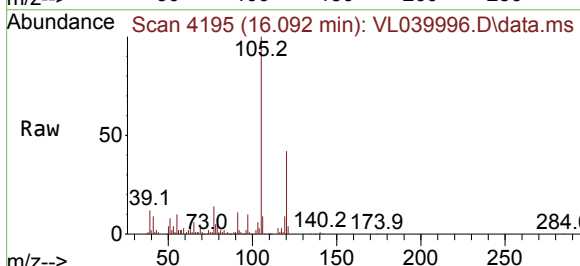
Ion Ratio Lower Upper

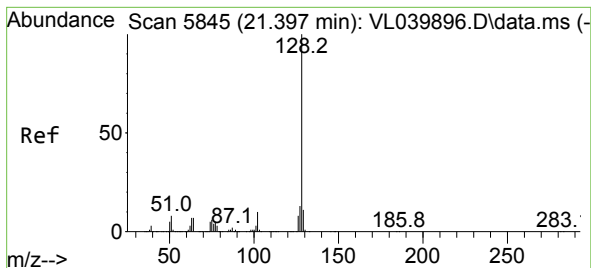
105 100

120 42.1 38.7 58.1

91 11.0 36.4 54.6#

77 13.5 17.4 26.0#





#79

Naphthalene

Concen: 0.102 ppbv

RT: 21.375 min Scan# 51

Delta R.T. 0.026 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Instrument :

MSVOA_L

ClientSampleId :

SG-2

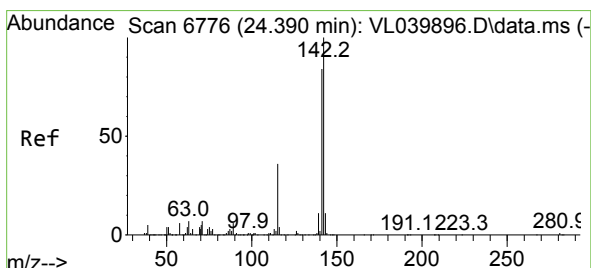
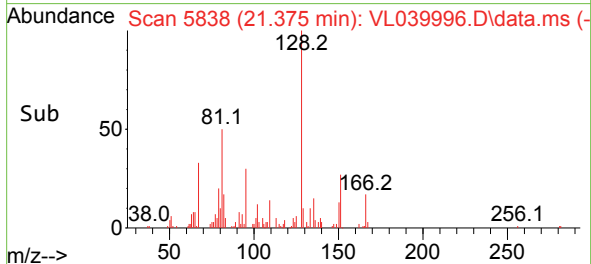
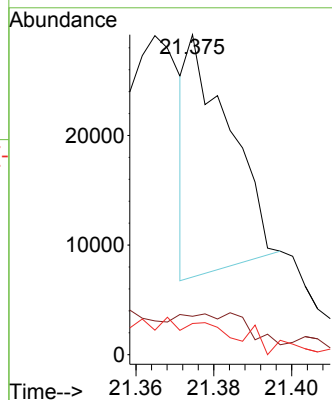
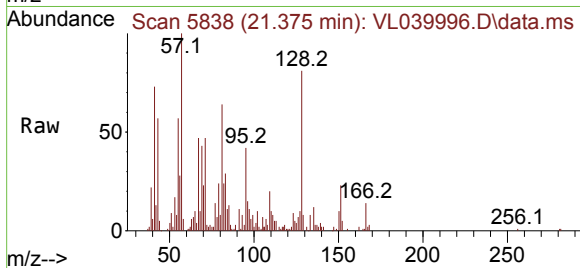
Tgt Ion:128 Resp: 16420

Ion Ratio Lower Upper

128 100

127 13.1 10.0 15.0

129 7.8 8.8 13.2#



#80

Naphthalene,2-methyl-

Concen: 0.387 ppbv

RT: 24.365 min Scan# 6768

Delta R.T. 0.016 min

Lab File: VL039996.D

Acq: 13 Dec 2022 4:16

Tgt Ion:142 Resp: 17571

Ion Ratio Lower Upper

142 100

141 82.7 69.1 103.7

115 50.4 29.6 44.4#

