

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035549.D
 Acq On : 4 Sep 2020 3:04
 Operator : SY/AP
 Sample : L3898-08DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7DL

Quant Time: Sep 04 06:50:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	997750	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4170076	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4180329	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	3039003	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

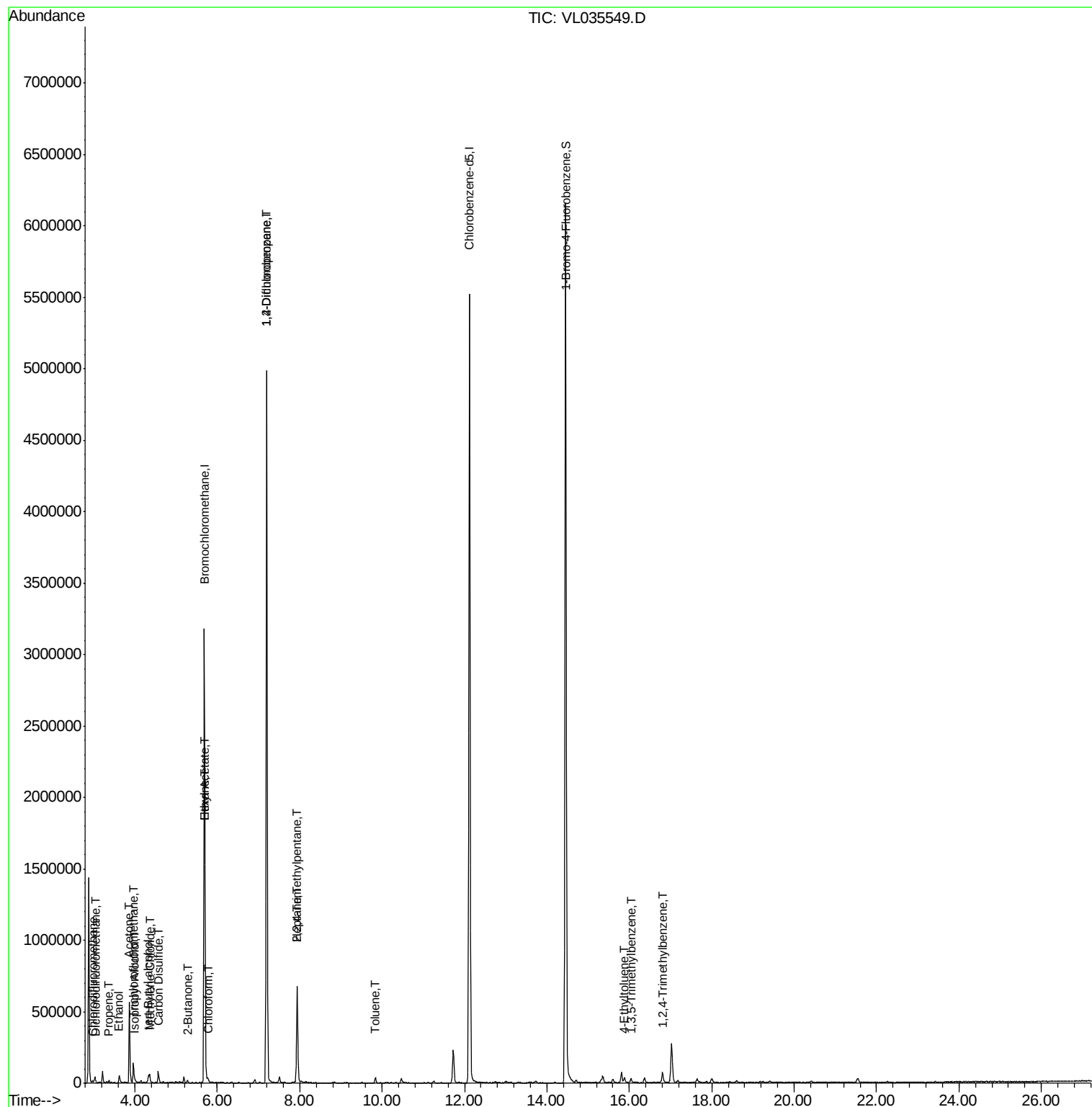
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	6090	0.035 ppbv #	61
3) Chlorodifluoromethane	2.97	51	16100	0.146 ppbv #	79
9) Propene	3.37	41	3656	0.086 ppbv	89
10) Heptane	7.94	43	181373	1.587 ppbv	99
11) Trichlorofluoromethane	3.96	101	90015	0.357 ppbv	99
13) Ethanol	3.62	45	55870	5.297 ppbv	100
15) Acetone	3.86	43	524633	4.768 ppbv	99
17) tert-Butyl alcohol	4.32	59	12775	0.095 ppbv #	66
19) Isopropyl Alcohol	3.99	45	12592	0.192 ppbv #	93
20) Methylene Chloride	4.36	84	20686	0.252 ppbv #	96
25) Ethyl Acetate	5.71	43	9618	0.049 ppbv #	90
26) Hexane	5.71	57	6522	0.059 ppbv #	59
27) Carbon Disulfide	4.57	76	107926	0.683 ppbv	98
29) Chloroform	5.77	83	8454	0.038 ppbv	98
34) 2-Butanone	5.28	43	19424	0.157 ppbv	100
39) 1,2-Dichloropropane	7.20	63	768786	8.431 ppbv #	33
44) 2,2,4-Trimethylpentane	7.93	57	111104	0.313 ppbv #	1
53) Toluene	9.83	91	31222	0.092 ppbv	99
72) 4-Ethyltoluene	15.88	105	30766	0.067 ppbv #	96
73) 1,3,5-Trimethylbenzene	16.04	105	18603	0.044 ppbv	85
74) 1,2,4-Trimethylbenzene	16.81	105	58807	0.126 ppbv #	72

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-7DL

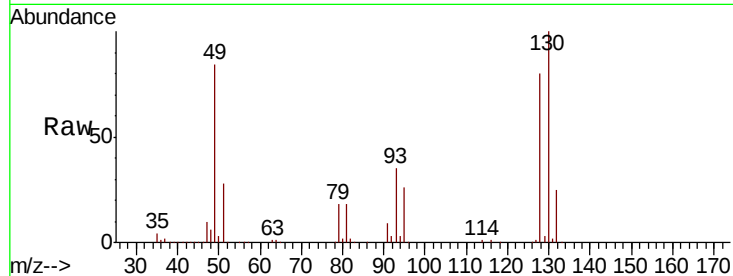
Tot Ion: 49 Resp: 997750

Ion Ratio Lower Upper

49 100

128 94.9 50.0 150.1

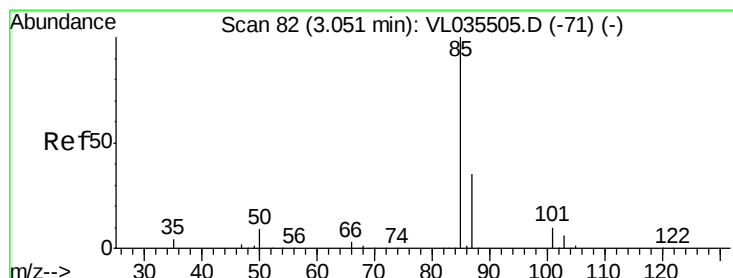
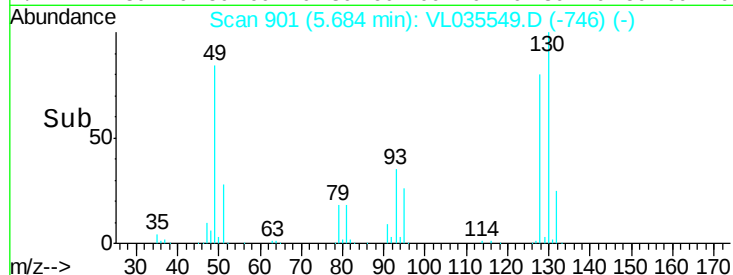
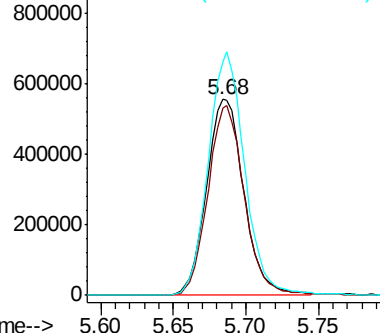
130 121.9 64.4 193.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL035549.D

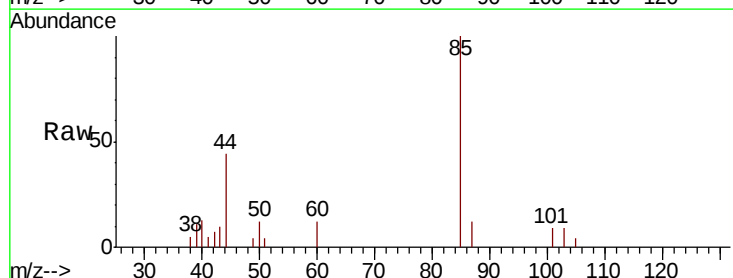
Acq: 4 Sep 2020 3:04

Tgt Ion: 85 Resp: 6090

Ion Ratio Lower Upper

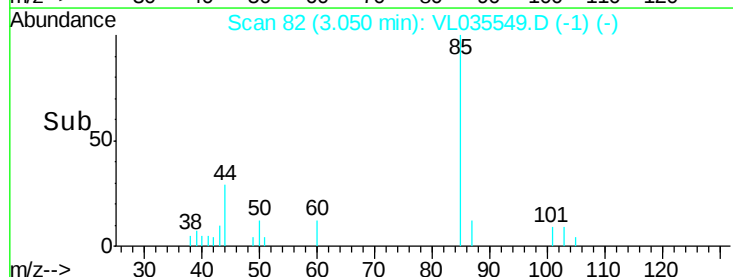
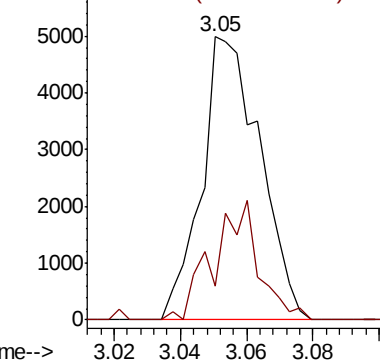
85 100

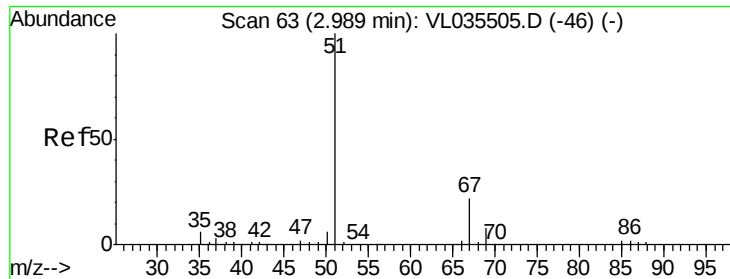
87 12.1 28.0 42.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.146 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampleId :

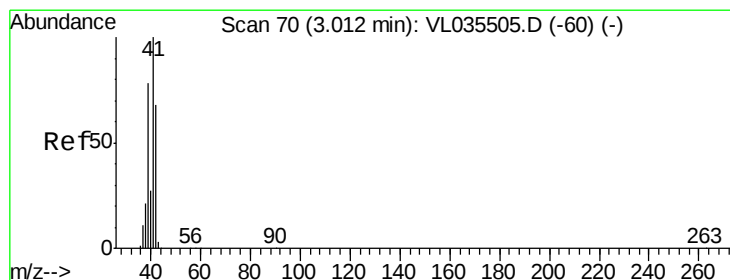
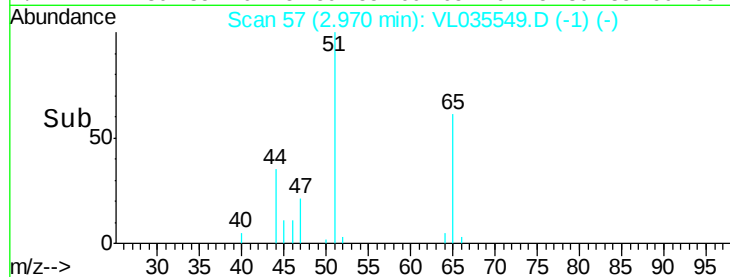
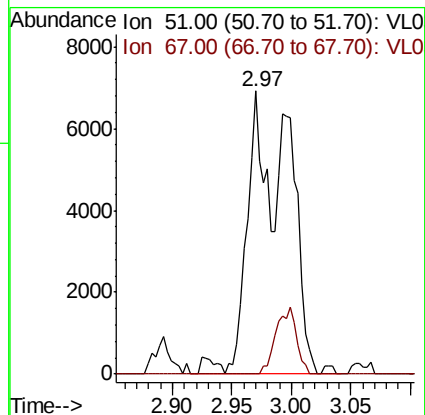
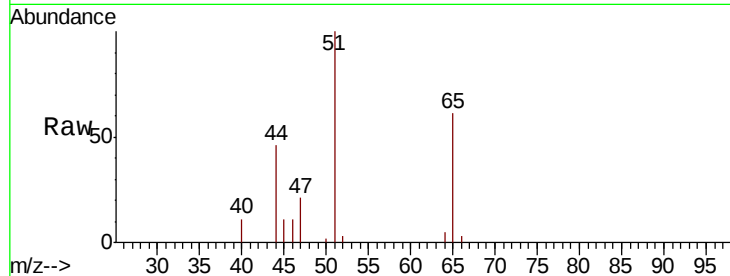
SS-7DL

Tot Ion: 51 Resp: 16100

Ion Ratio Lower Upper

51 100

67 12.1 17.8 26.8#



#9

Propene

Concen: 0.086 ppbv

RT: 3.37 min Scan# 180

Delta R.T. 0.35 min

Lab File: VL035549.D

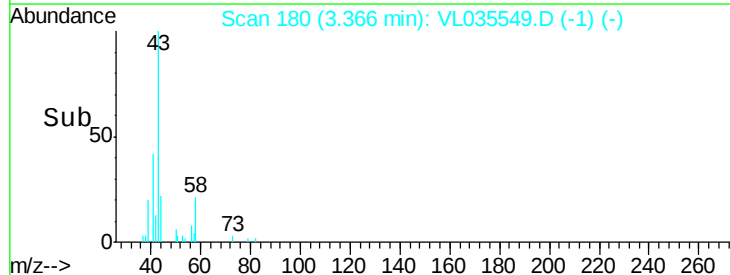
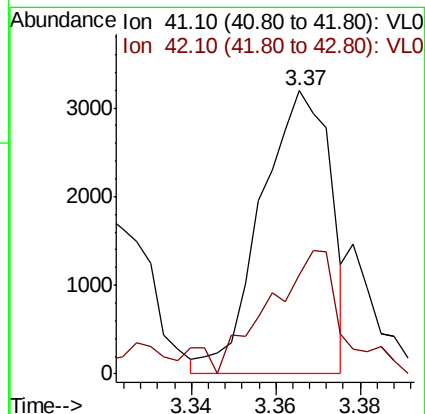
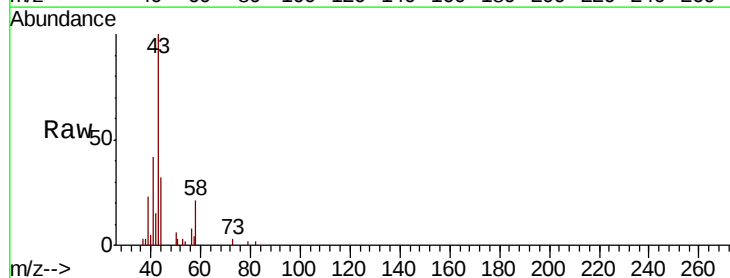
Acq: 4 Sep 2020 3:04

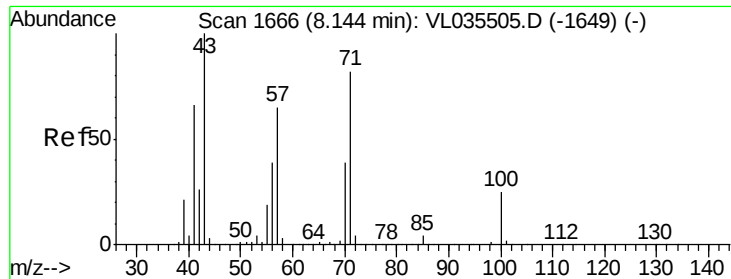
Tgt Ion: 41 Resp: 3656

Ion Ratio Lower Upper

41 100

42 60.9 56.3 84.5





#10

Heptane

Concen: 1.587 ppbv

RT: 7.94 min Scan# 1602

Delta R.T. -0.21 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampleId :

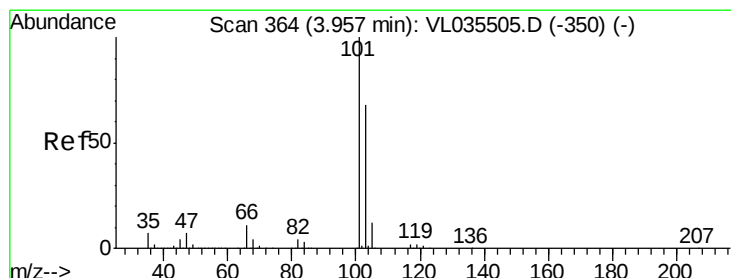
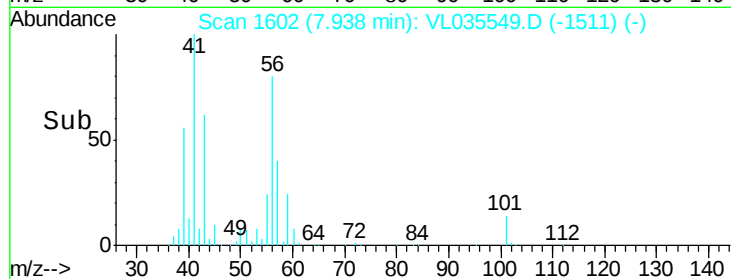
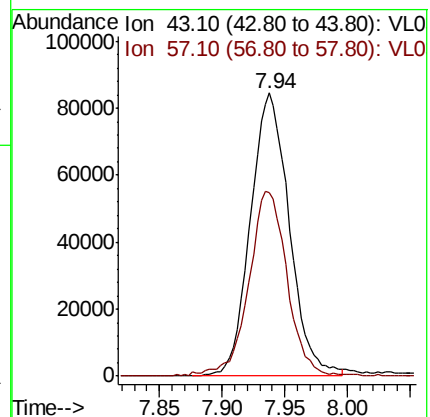
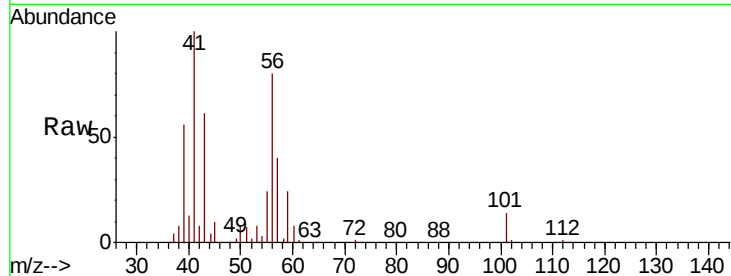
SS-7DL

Tot Ion: 43 Resp: 181373

Ion Ratio Lower Upper

43 100

57 65.3 51.4 77.0



#11

Trichlorofluoromethane

Concen: 0.357 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL035549.D

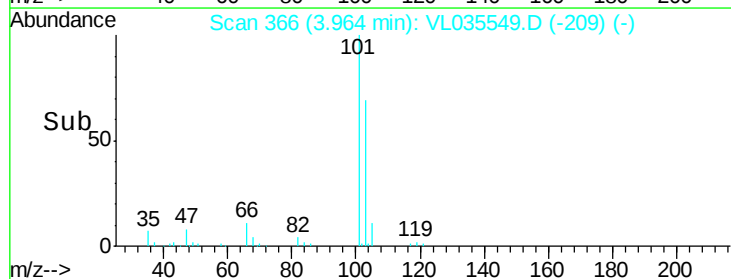
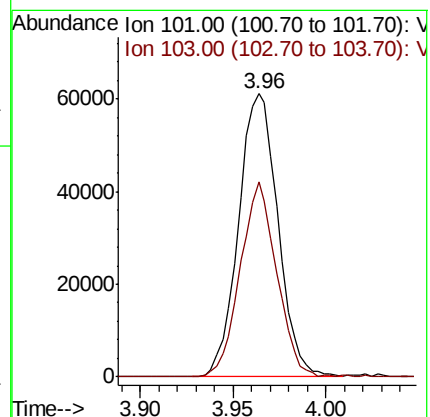
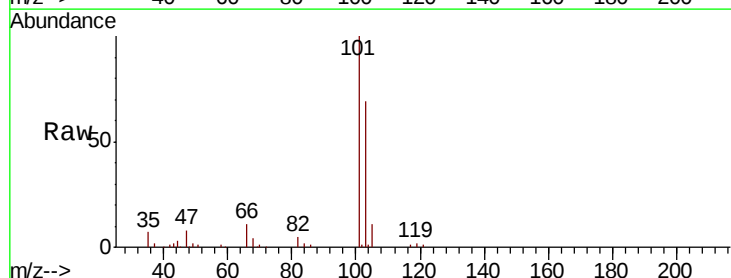
Acq: 4 Sep 2020 3:04

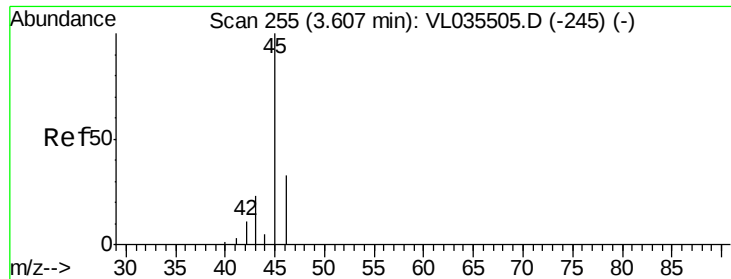
Tgt Ion:101 Resp: 90015

Ion Ratio Lower Upper

101 100

103 68.9 54.5 81.7





#13

Ethanol

Concen: 5.297 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampled :

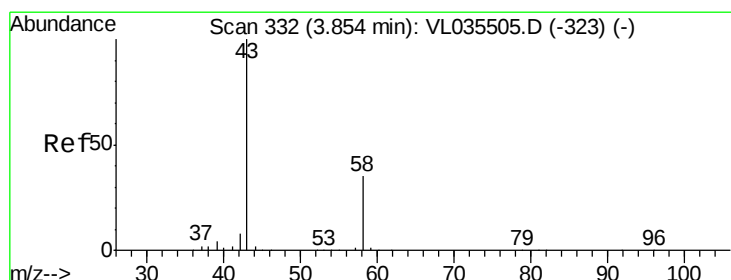
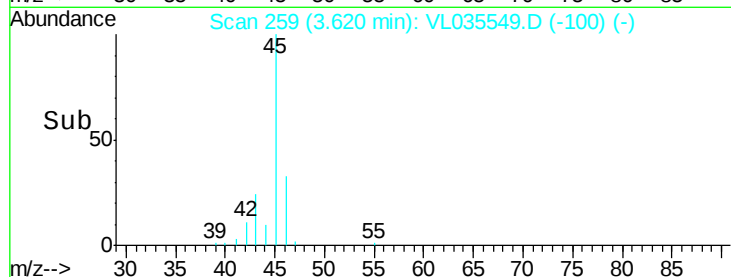
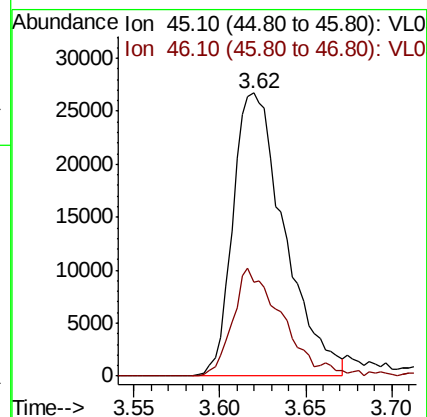
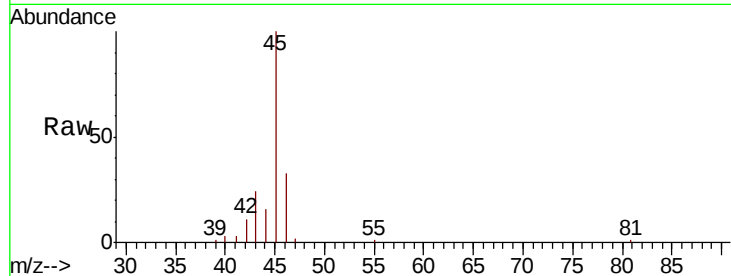
SS-7DL

Tot Ion: 45 Resp: 55870

Ion Ratio Lower Upper

45 100

46 37.6 15.2 60.6



#15

Acetone

Concen: 4.768 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL035549.D

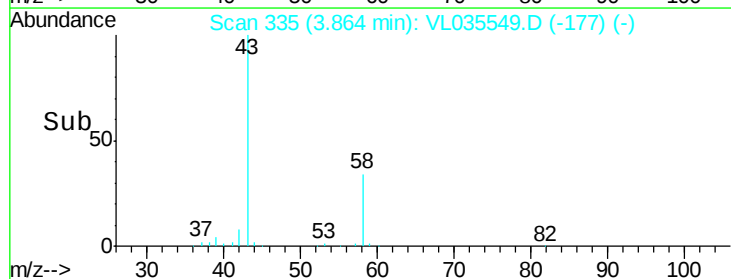
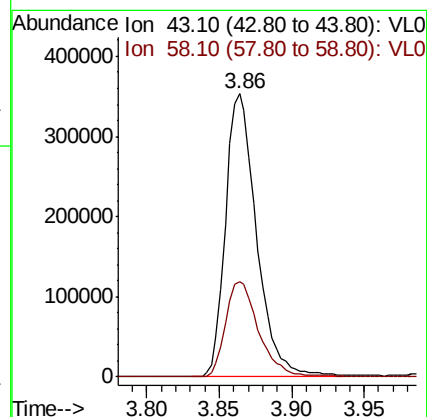
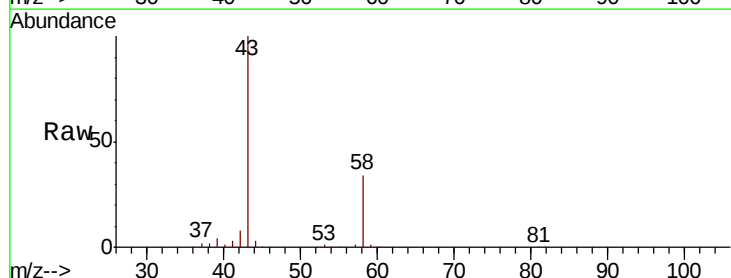
Acq: 4 Sep 2020 3:04

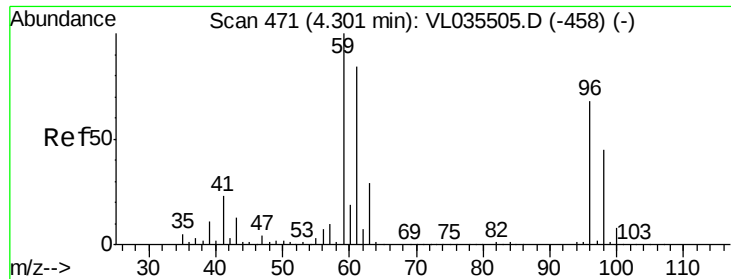
Tgt Ion: 43 Resp: 524633

Ion Ratio Lower Upper

43 100

58 36.2 28.4 42.6





#17

tert-Butyl alcohol

Concen: 0.095 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.02 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampled :

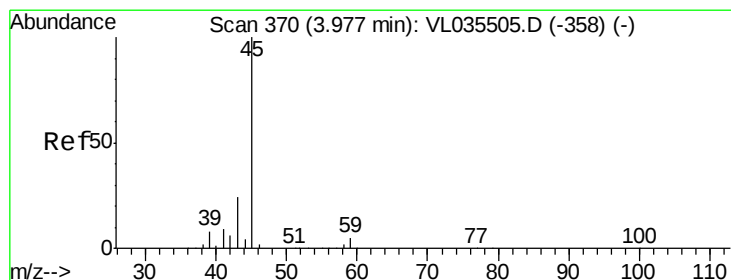
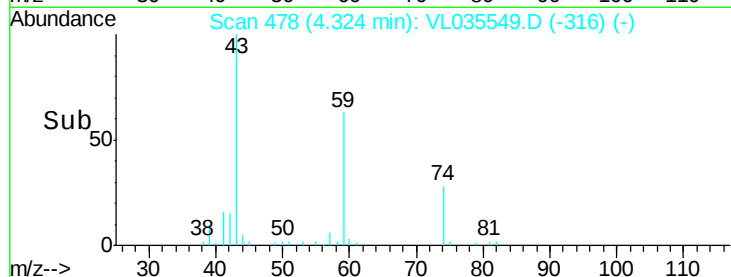
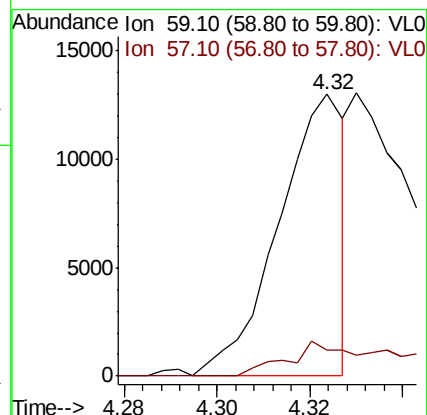
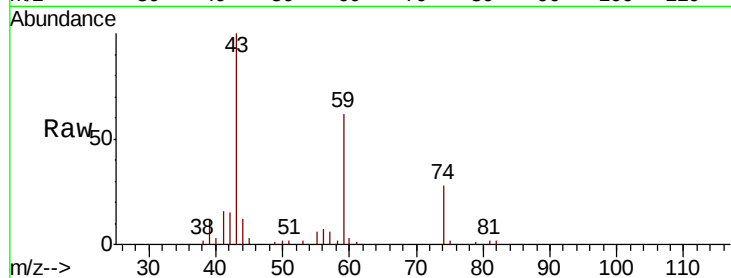
SS-7DL

Tot Ion: 59 Resp: 12775

Ion Ratio Lower Upper

59 100

57 23.2 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 0.192 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035549.D

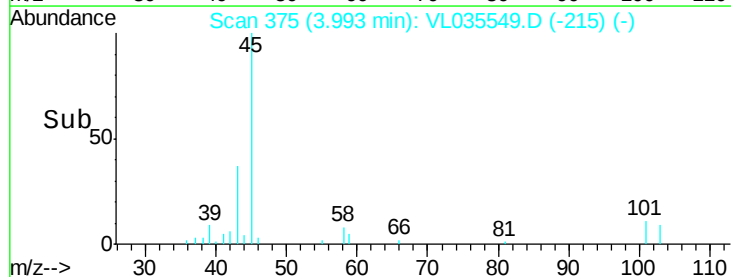
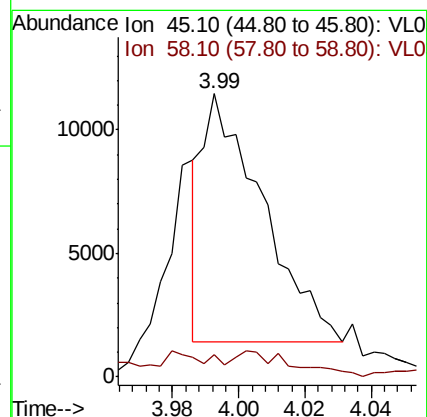
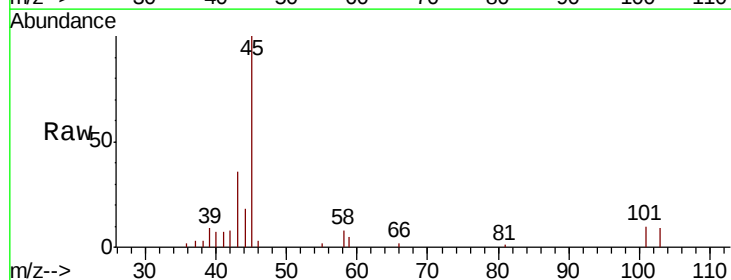
Acq: 4 Sep 2020 3:04

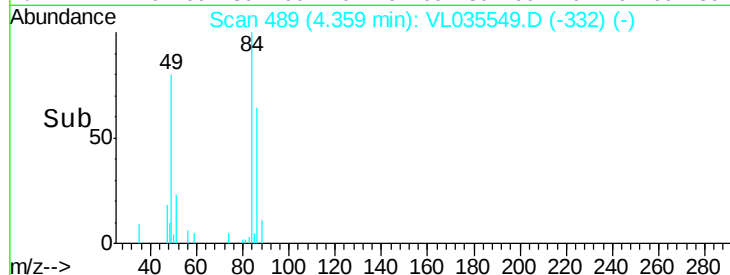
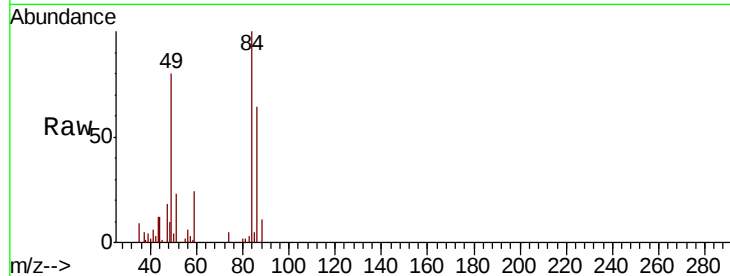
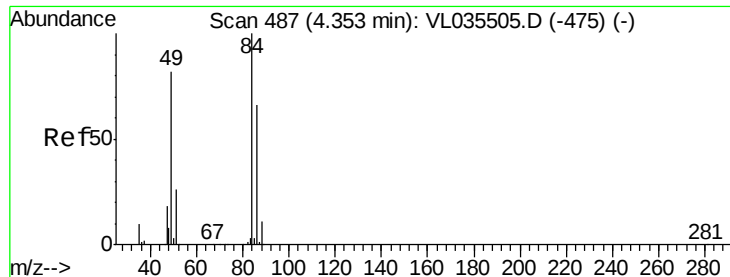
Tgt Ion: 45 Resp: 12592

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#

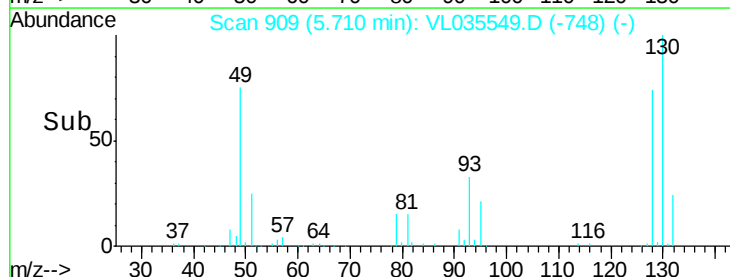
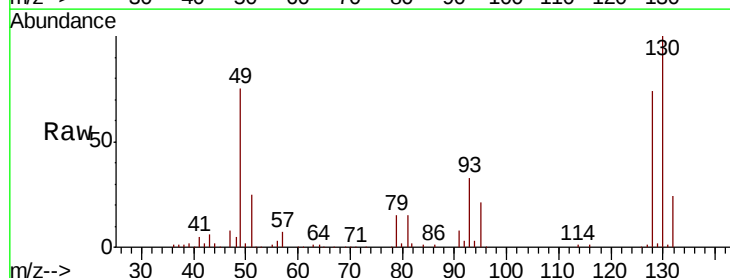
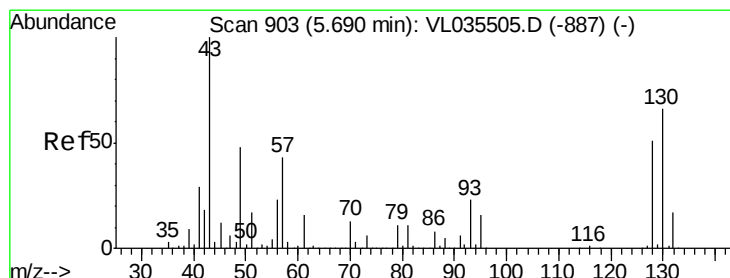
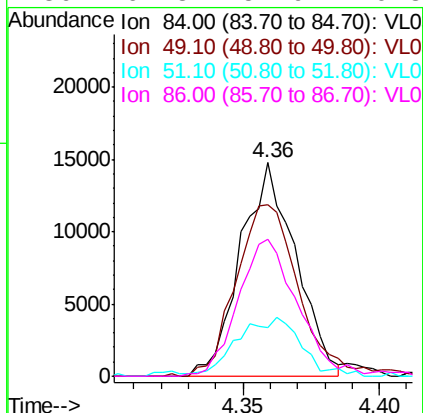




#20
Methylene Chloride
Concen: 0.252 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.01 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

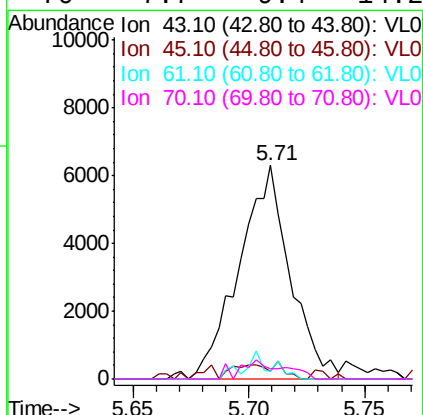
Instrument :
MSVOA_L
ClientSampled :
SS-7DL

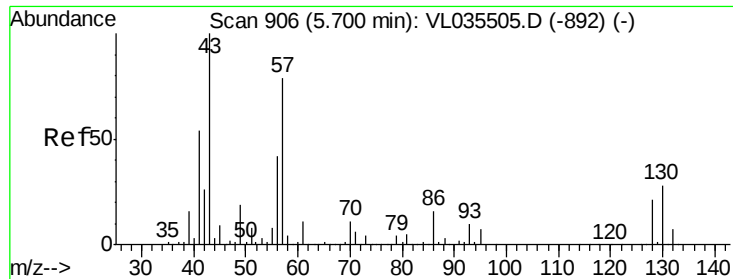
Tot Ion:	84	Resp:	20686
Ion	Ratio	Lower	Upper
84	100		
49	80.2	65.4	98.0
51	21.4	21.5	32.3#
86	62.8	52.9	79.3



#25
Ethyl Acetate
Concen: 0.049 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

Tgt Ion:	43	Resp:	9618
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.4	12.6
61	6.7	10.6	16.0#
70	7.7	9.4	14.2#

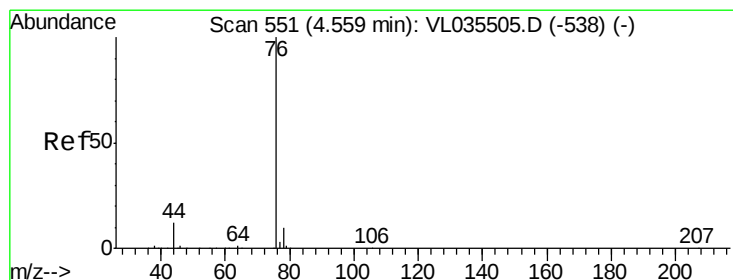
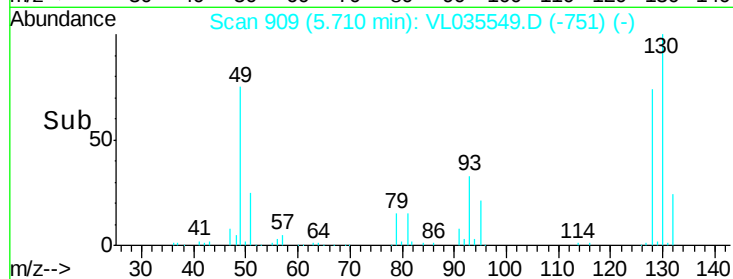
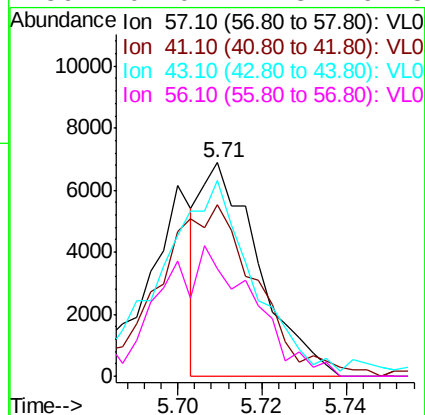
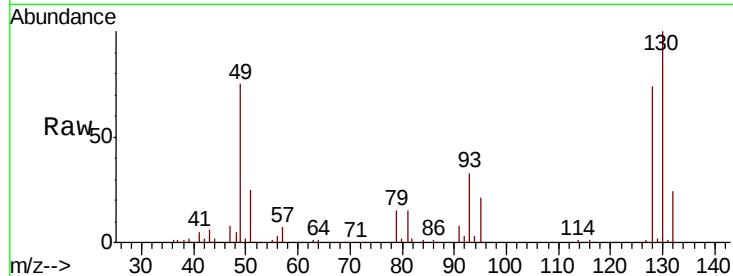




#26
Hexane
Concen: 0.059 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

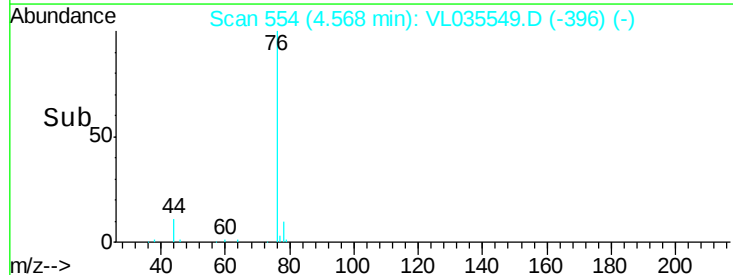
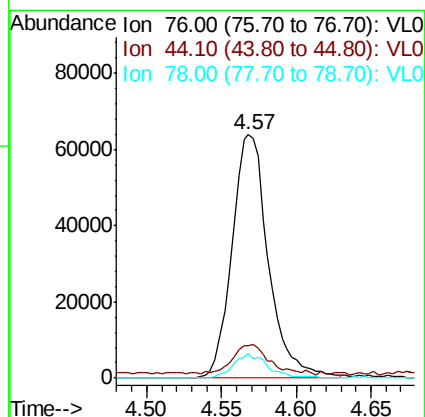
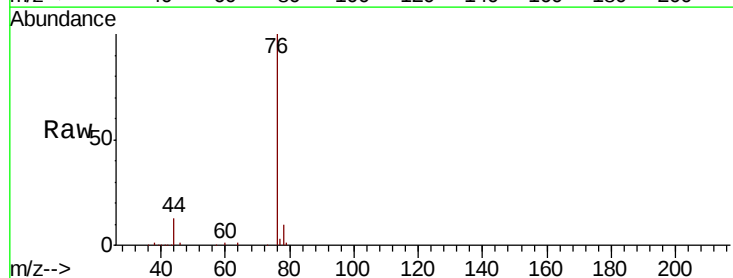
Instrument :
MSVOA_L
ClientSampled :
SS-7DL

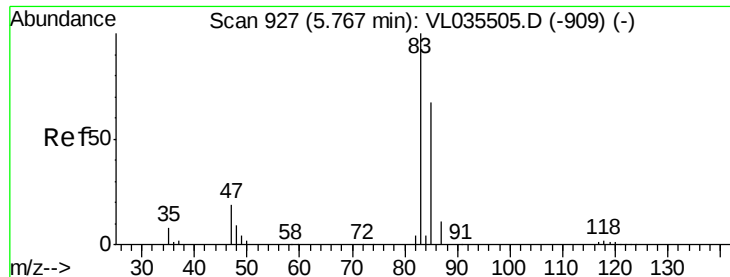
Tot Ion: 57 Resp: 6522
Ion Ratio Lower Upper
57 100
41 139.2 55.9 83.9#
43 155.8 141.8 212.8
56 101.0 41.8 62.8#



#27
Carbon Disulfide
Concen: 0.683 ppbv
RT: 4.57 min Scan# 554
Delta R.T. 0.01 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

Tgt Ion: 76 Resp: 107926
Ion Ratio Lower Upper
76 100
44 12.8 9.3 13.9
78 9.8 7.8 11.6

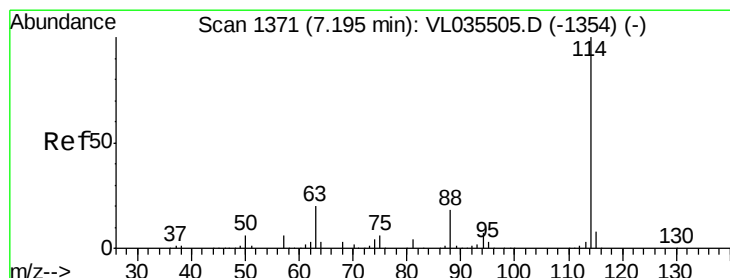
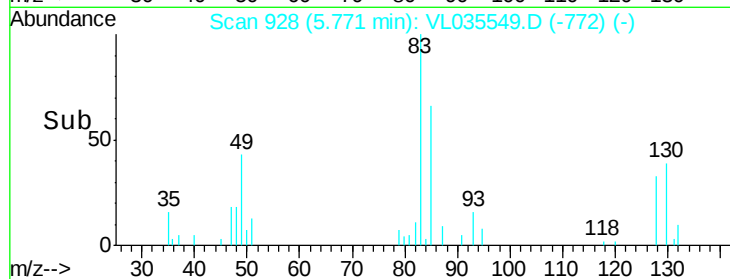
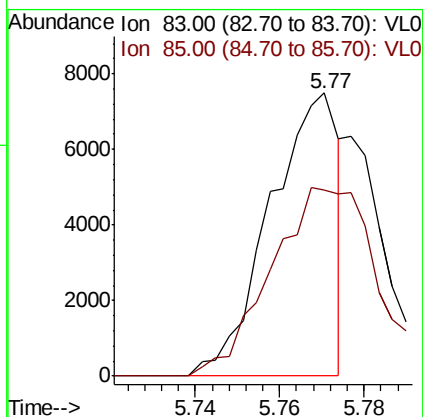
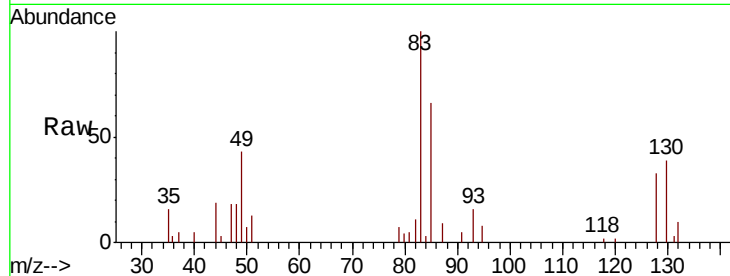




#29
Chloroform
Concen: 0.038 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.00 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

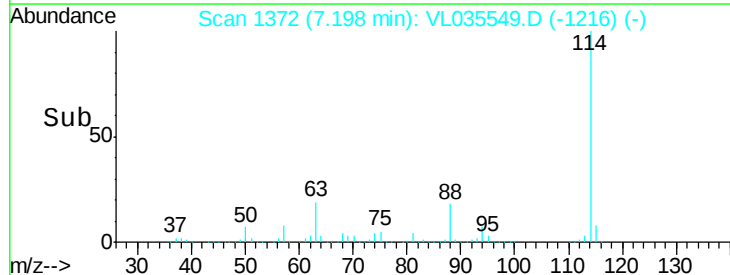
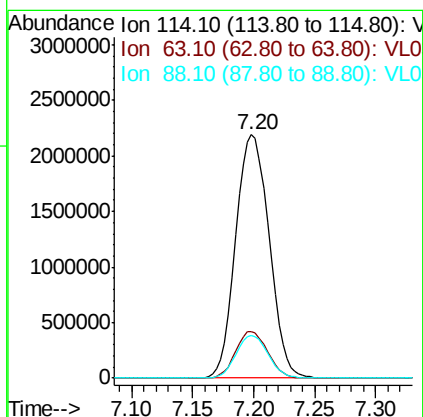
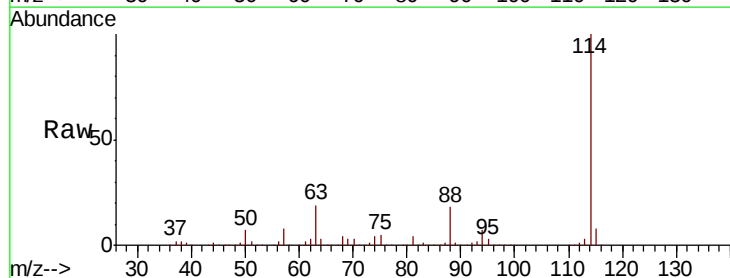
Instrument :
MSVOA_L
ClientSampleId :
SS-7DL

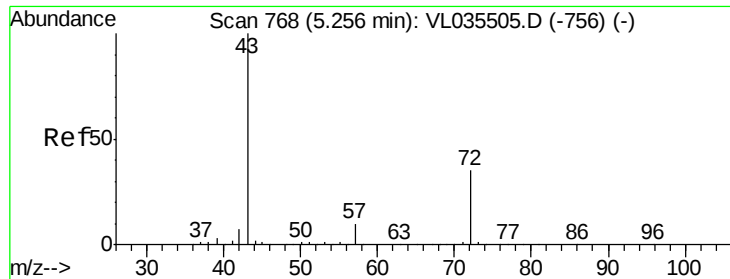
Tot Ion: 83 Resp: 8454
Ion Ratio Lower Upper
83 100
85 65.9 53.9 80.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

Tgt Ion: 114 Resp: 4170076
Ion Ratio Lower Upper
114 100
63 18.5 14.7 22.1
88 16.8 13.4 20.2





#34

2-Butanone

Concen: 0.157 ppbv

RT: 5.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampleId :

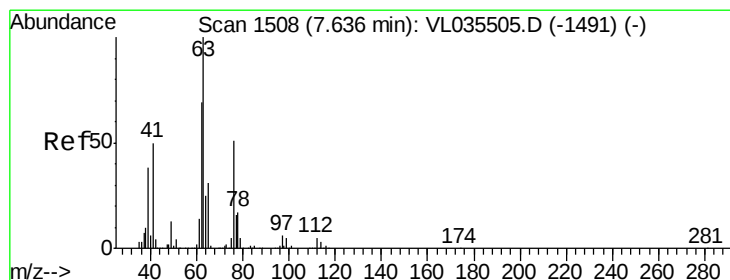
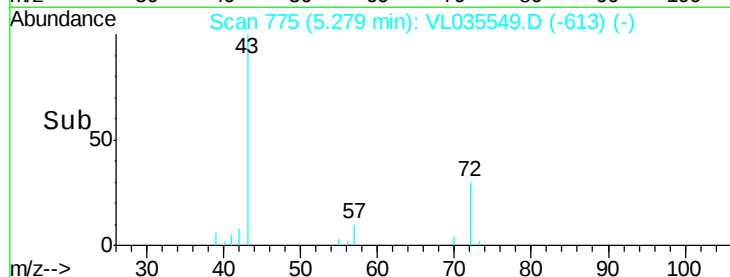
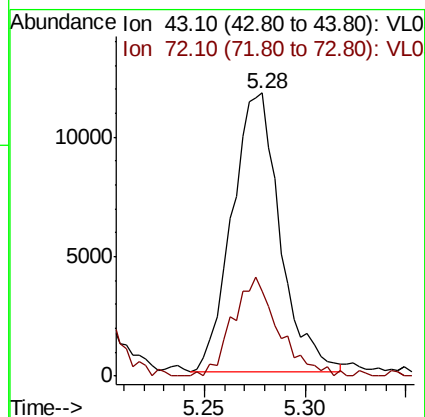
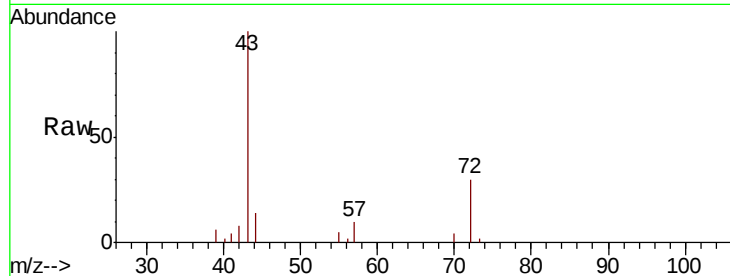
SS-7DL

Tot Ion: 43 Resp: 19424

Ion Ratio Lower Upper

43 100

72 34.6 27.7 41.5



#39

1,2-Dichloropropane

Concen: 8.431 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.44 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

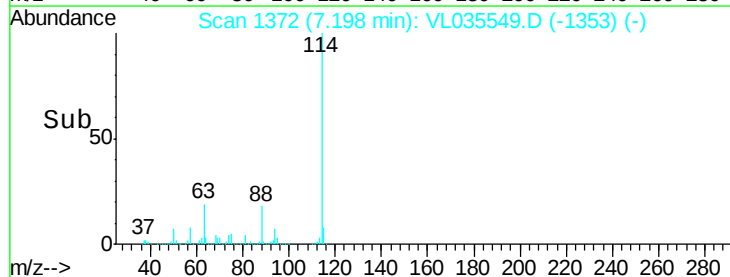
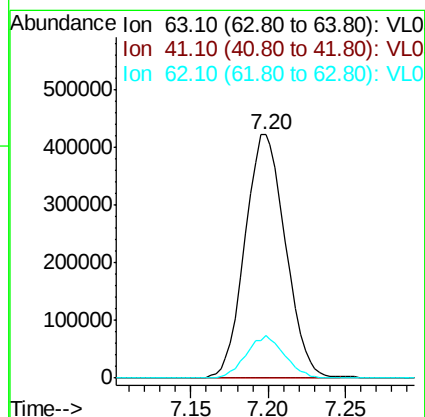
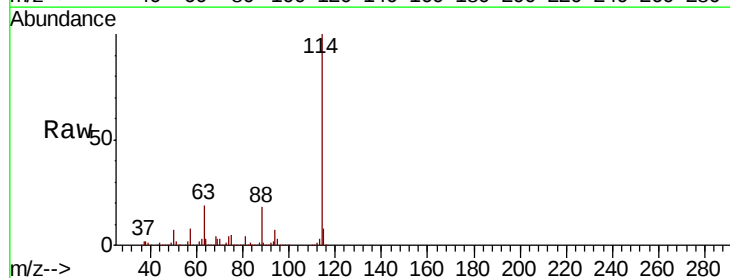
Tgt Ion: 63 Resp: 768786

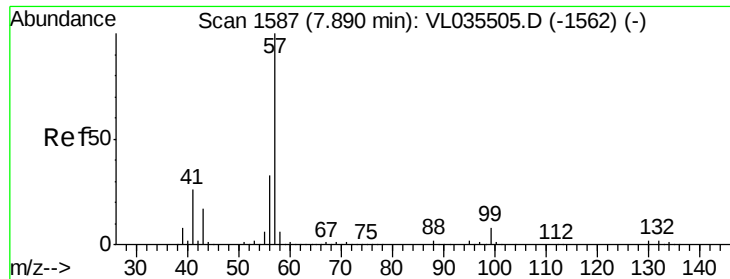
Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 17.4 55.4 83.0#





#44

2,2,4-Trimethylpentane

Concen: 0.313 ppbv

RT: 7.93 min Scan# 1601

Delta R.T. 0.04 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-7DL

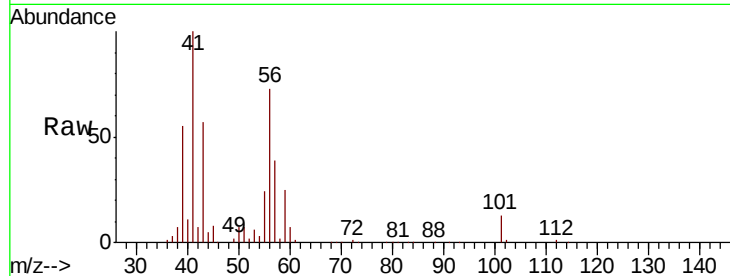
Tot Ion: 57 Resp: 111104

Ion Ratio Lower Upper

57 100

41 270.5 20.5 30.7#

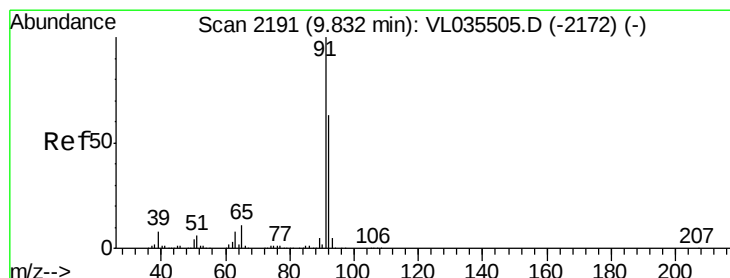
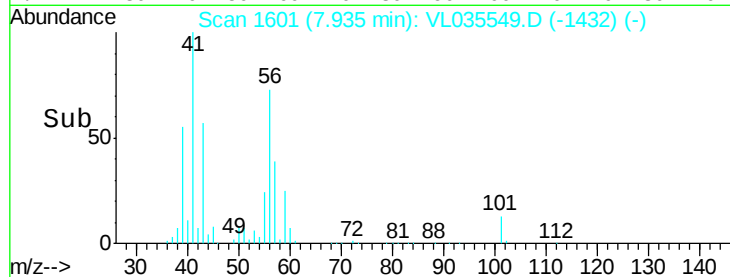
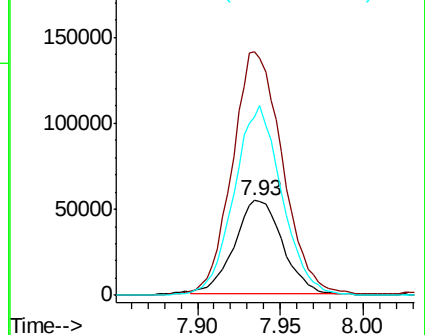
56 201.2 25.3 37.9#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 0.092 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL035549.D

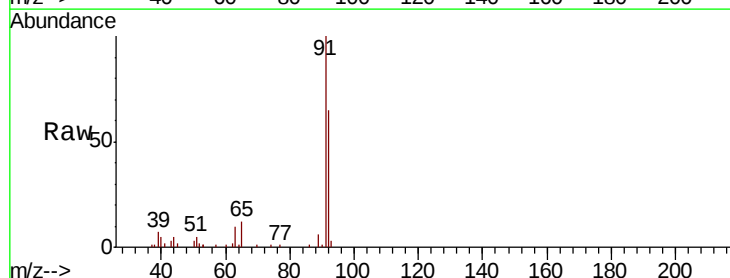
Acq: 4 Sep 2020 3:04

Tgt Ion: 91 Resp: 31222

Ion Ratio Lower Upper

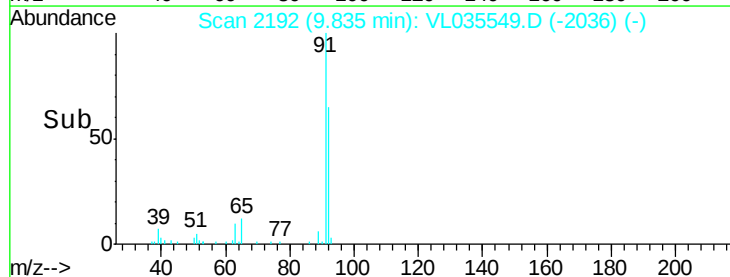
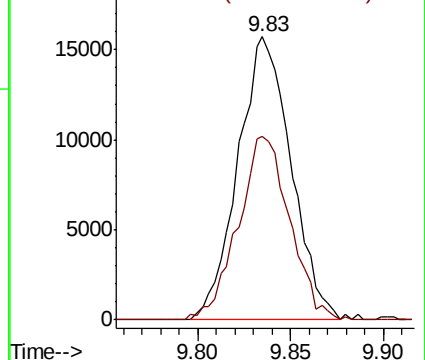
91 100

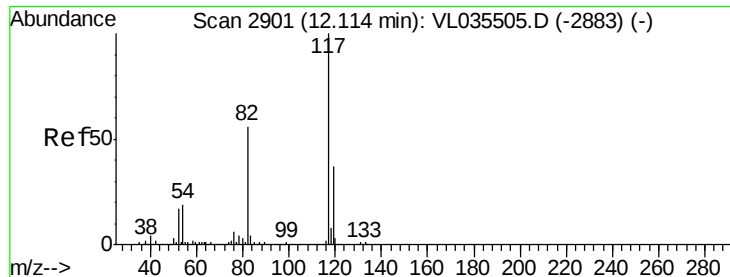
92 62.9 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

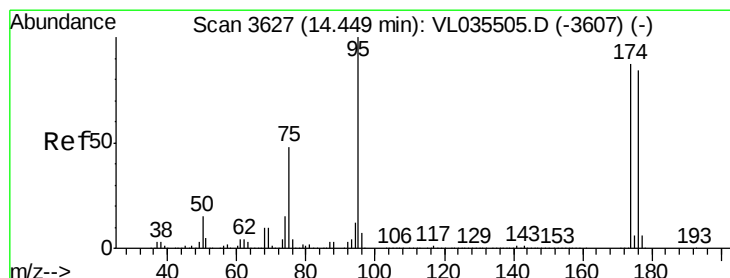
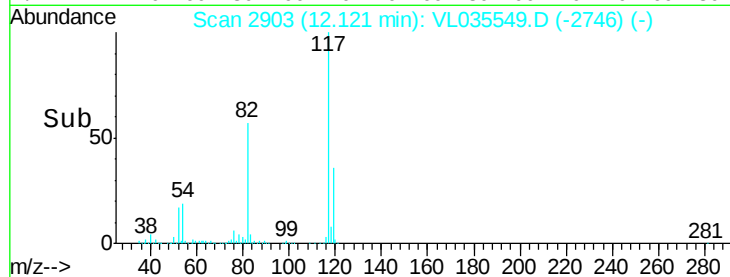
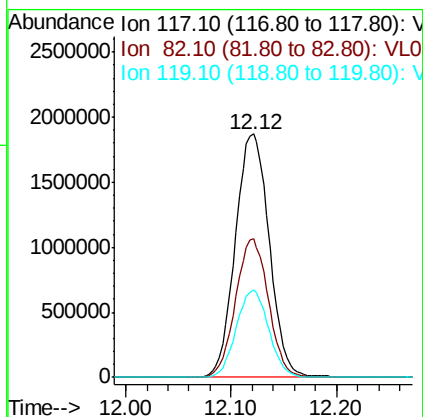
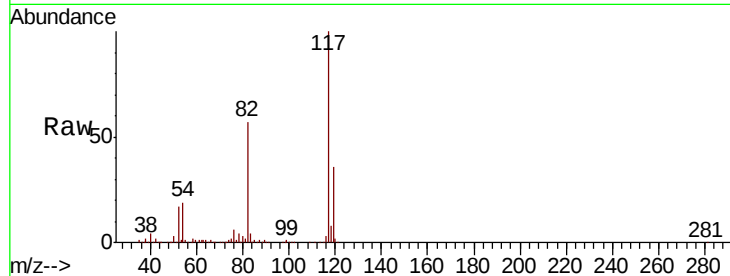




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

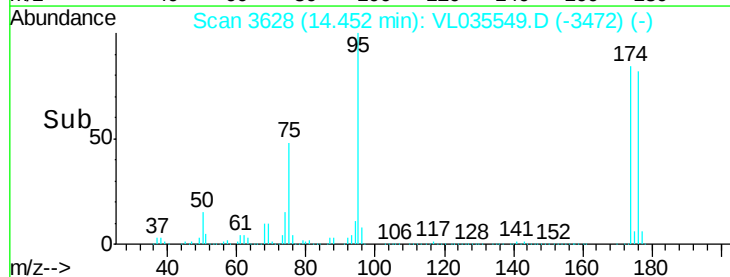
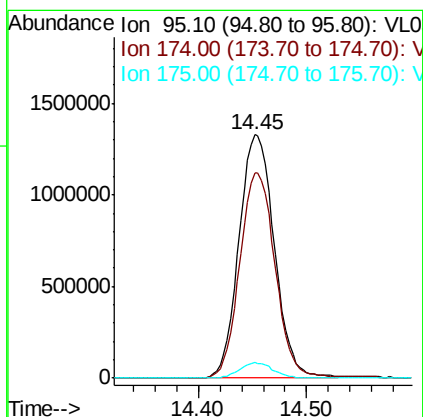
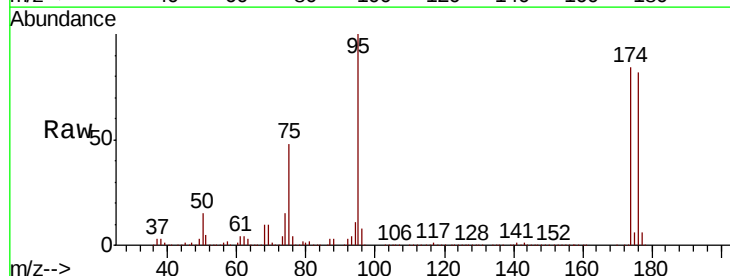
Instrument :
MSVOA_L
ClientSampled :
SS-7DL

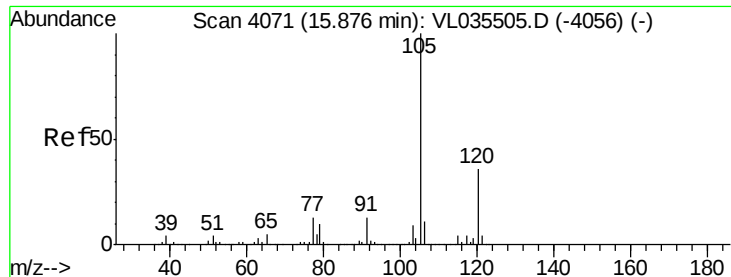
Tot Ion:117 Resp: 4180329
Ion Ratio Lower Upper
117 100
82 55.4 41.6 62.4
119 34.4 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.237 ppbv
RT: 14.45 min Scan# 3628
Delta R.T. 0.00 min
Lab File: VL035549.D
Acq: 4 Sep 2020 3:04

Tgt Ion: 95 Resp: 3039003
Ion Ratio Lower Upper
95 100
174 85.4 69.6 104.4
175 6.1 5.1 7.7





#72

4-Ethyltoluene

Concen: 0.067 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. 0.00 min

Lab File: VL035549.D

Acq: 4 Sep 2020 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-7DL

Tot Ion:105 Resp: 30766

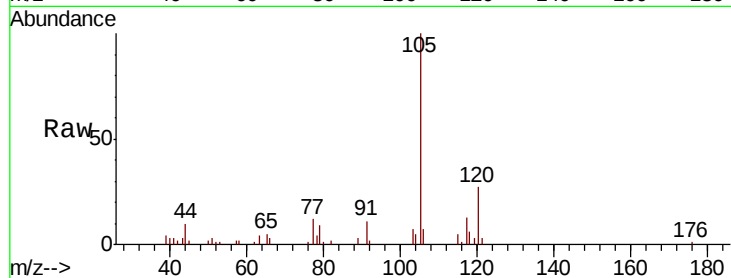
Ion Ratio Lower Upper

105 100

120 34.4 27.4 41.2

91 16.6 9.7 14.5#

77 14.5 9.6 14.4#



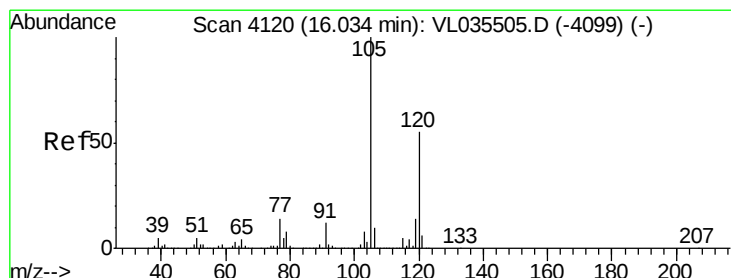
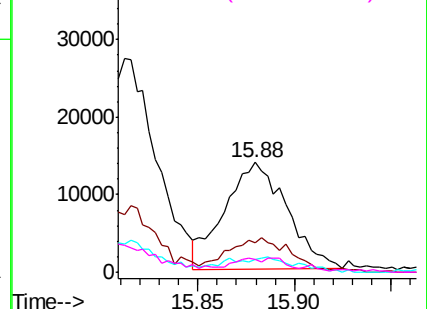
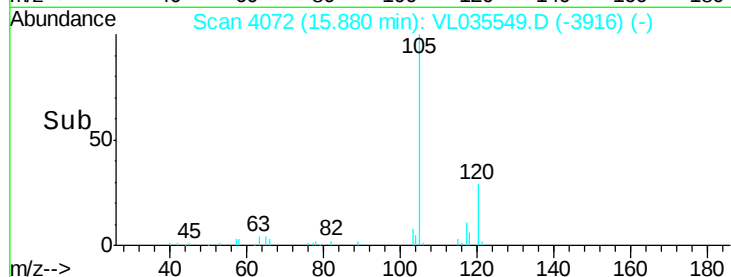
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.044 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.01 min

Lab File: VL035549.D

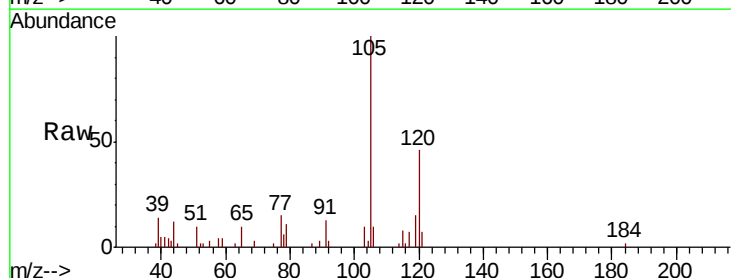
Acq: 4 Sep 2020 3:04

Tgt Ion:105 Resp: 18603

Ion Ratio Lower Upper

105 100

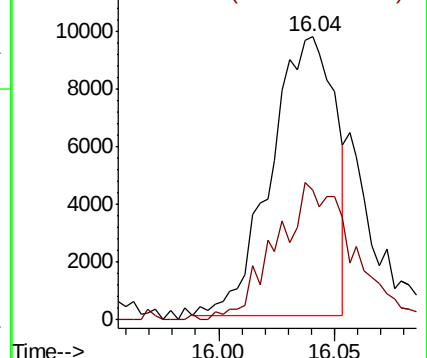
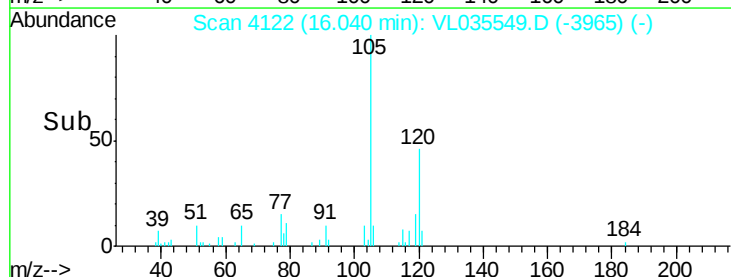
120 44.6 44.2 66.2

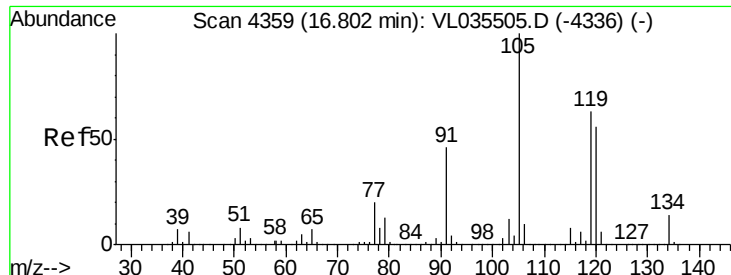


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.126 ppbv
 RT: 16.81 min Scan# 4360
 Delta R.T. 0.00 min
 Lab File: VL035549.D
 Acq: 4 Sep 2020 3:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7DL

Tot Ion:	105	Resp:	58807
Ion	Ratio	Lower	Upper
105	100		
120	45.2	44.4	66.6
91	13.0	37.1	55.7#
77	12.4	16.0	24.0#

