

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035348.D
 Acq On : 6 Aug 2020 13:44
 Operator : SY/AP
 Sample : L3557-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 07 06:26:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 13:04:46 2020
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1289899	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3206591	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3073918	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2552637	9.96	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%	

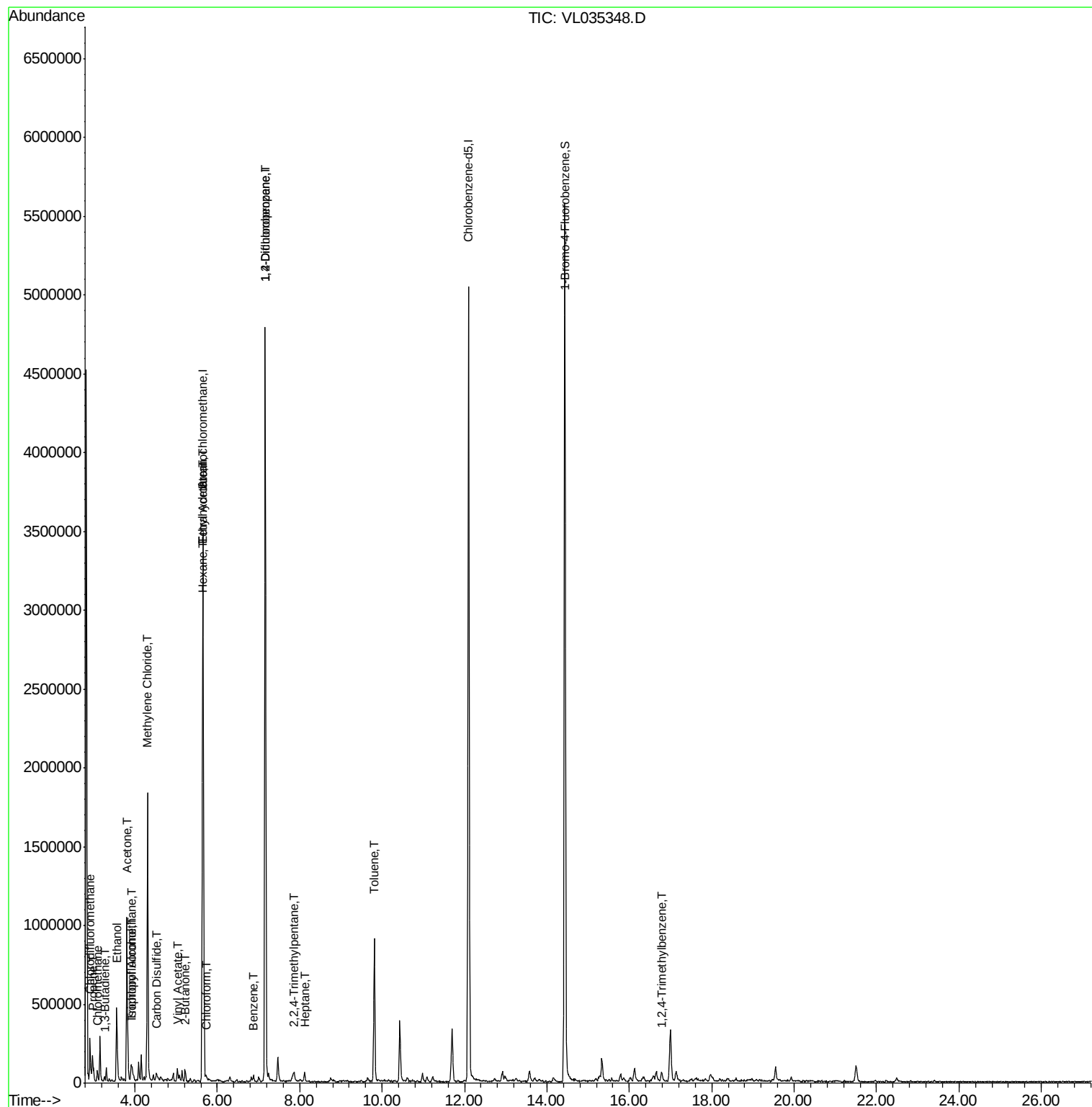
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.91	51	183399	1.246	ppbv #	67
4) Chloromethane	3.08	50	43102	0.517	ppbv #	80
9) Propene	2.97	41	25479	0.486	ppbv	84
10) Heptane	8.12	43	17393	0.130	ppbv	98
11) Trichlorofluoromethane	3.91	101	51909	0.234	ppbv	94
13) Ethanol	3.56	45	473018	26.139	ppbv	98
15) Acetone	3.81	43	975929	5.328	ppbv	97
16) 1,3-Butadiene	3.26	39	3671	0.052	ppbv #	37
19) Isopropyl Alcohol	3.94	45	34000	0.293	ppbv #	93
20) Methylene Chloride	4.31	84	601906	8.058	ppbv	96
23) Vinyl Acetate	5.03	43	61805	0.352	ppbv #	94
25) Ethyl Acetate	5.66	43	395147	1.420	ppbv #	83
26) Hexane	5.66	57	451385	3.739	ppbv #	49
27) Carbon Disulfide	4.52	76	14155	0.084	ppbv #	55
29) Chloroform	5.72	83	8439	0.041	ppbv	90
34) 2-Butanone	5.22	43	72789	0.461	ppbv	100
36) Benzene	6.88	78	14129	0.065	ppbv #	76
39) 1,2-Dichloropropane	7.16	63	836089	9.538	ppbv #	23
41) Tetrahydrofuran	5.66	42	186782	2.411	ppbv #	46
44) 2,2,4-Trimethylpentane	7.86	57	18915	0.049	ppbv #	1
53) Toluene	9.81	91	583251	2.476	ppbv	98
74) 1,2,4-Trimethylbenzene	16.78	105	17266	0.047	ppbv #	73

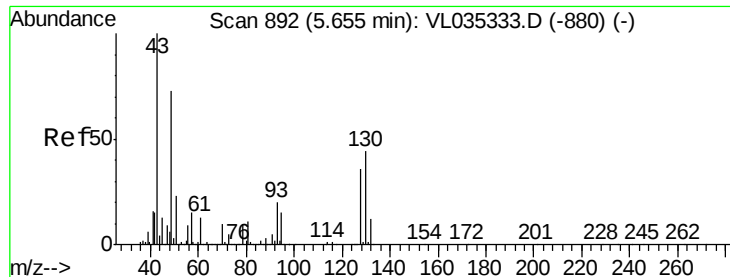
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080620\
Data File : VL035348.D
Acq On : 6 Aug 2020 13:44
Operator : SY/AP
Sample : L3557-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Aug 07 06:26:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 05 13:04:46 2020
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration



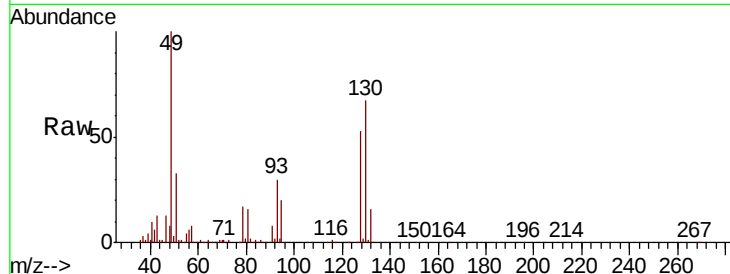


#1

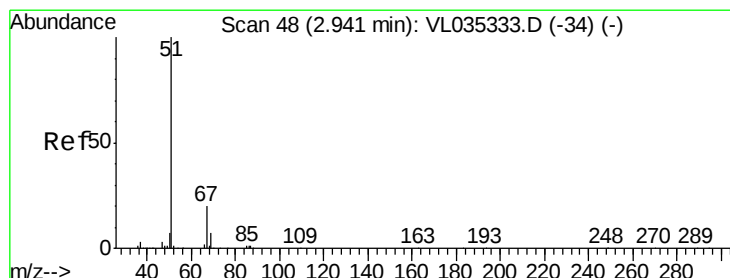
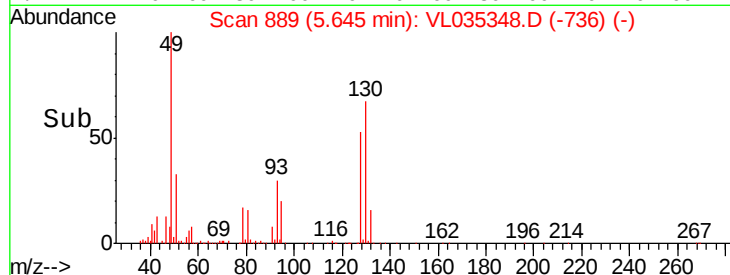
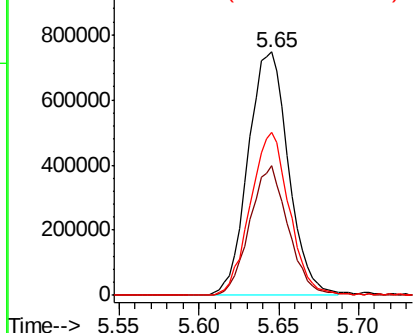
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 49 Resp: 1289899
 Ion Ratio Lower Upper
 49 100
 128 51.0 25.4 76.0
 130 65.2 32.1 96.3



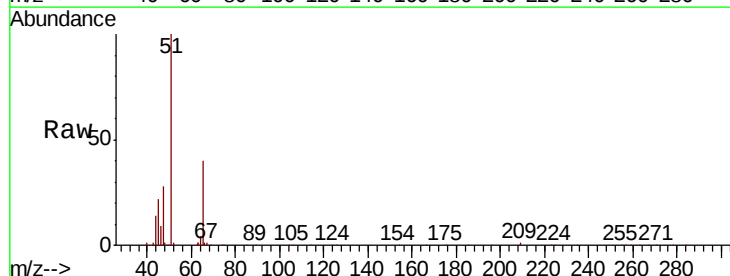
Abundance Ion 49.10 (48.80 to 49.80): VL0
 Ion 128.00 (127.70 to 128.70): V
 Ion 130.00 (129.70 to 130.70): V



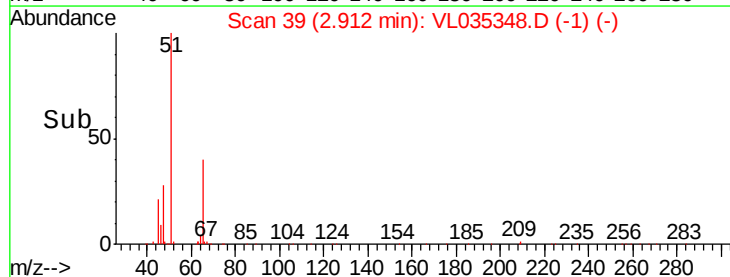
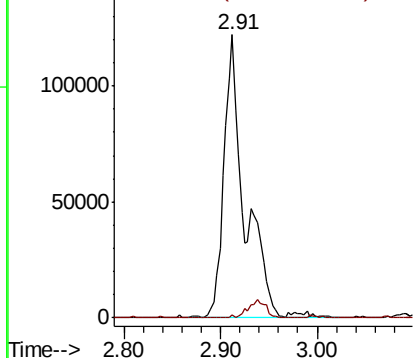
#3

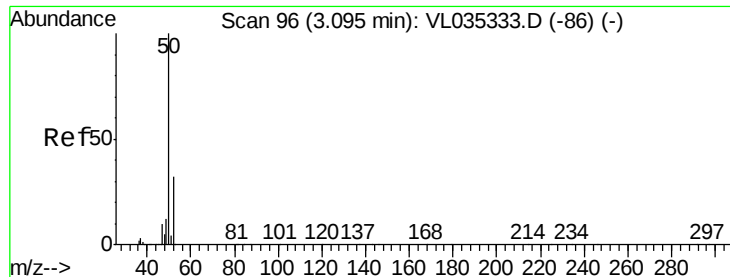
Chlorodifluoromethane
 Concen: 1.246 ppbv
 RT: 2.91 min Scan# 39
 Delta R.T. -0.03 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Tgt Ion: 51 Resp: 183399
 Ion Ratio Lower Upper
 51 100
 67 5.6 16.6 25.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0
 Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.517 ppbv

RT: 3.08 min Scan# 92

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

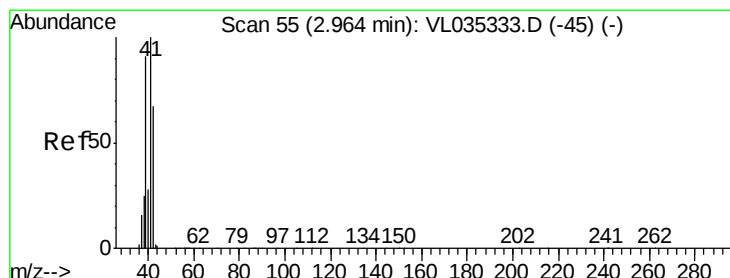
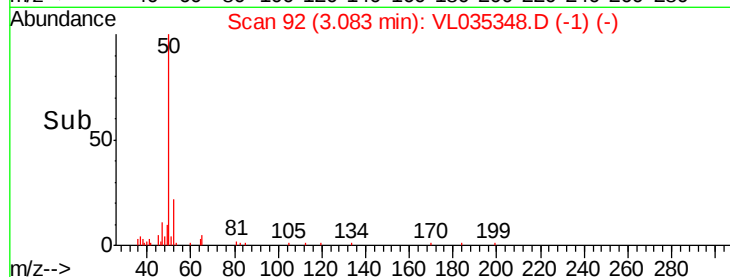
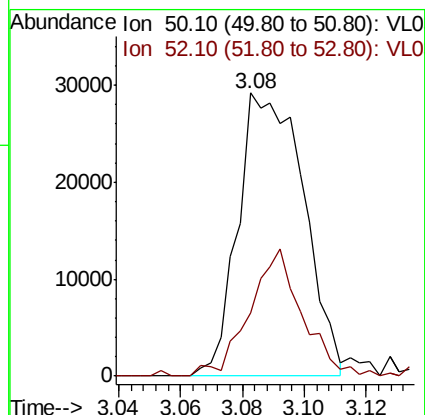
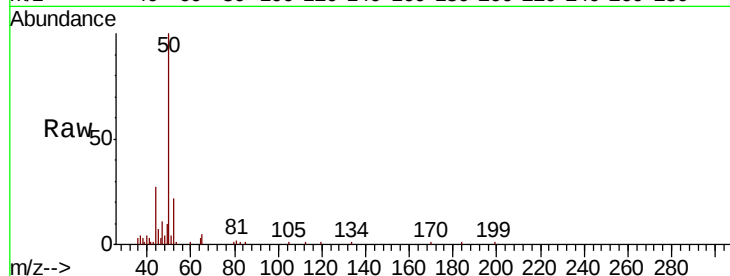
ClientSampleId :

Tot Ion: 50 Resp: 43102

Ion Ratio Lower Upper

50 100

52 21.5 26.0 39.0#



#9

Propene

Concen: 0.486 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL035348.D

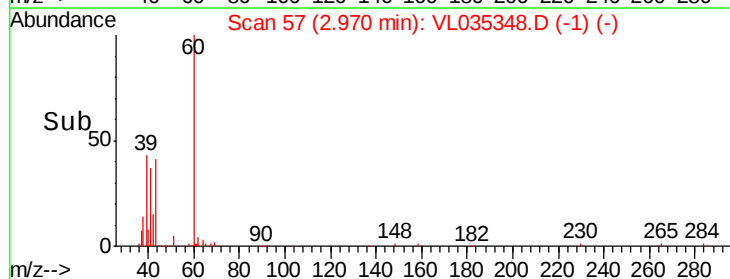
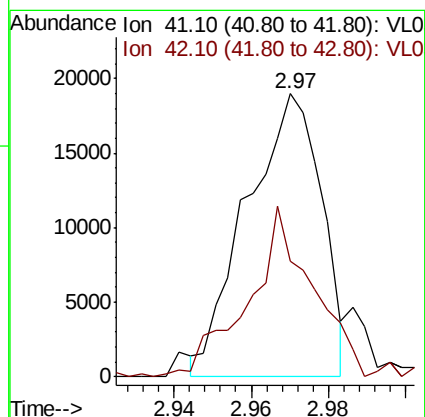
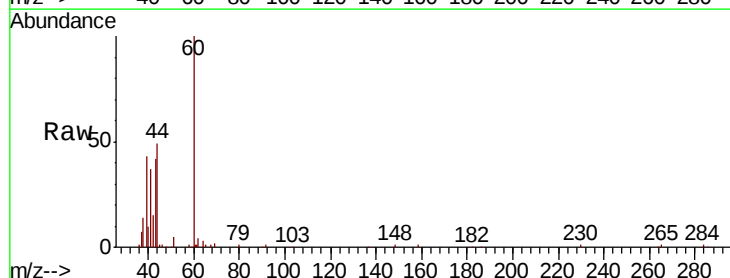
Acq: 6 Aug 2020 13:44

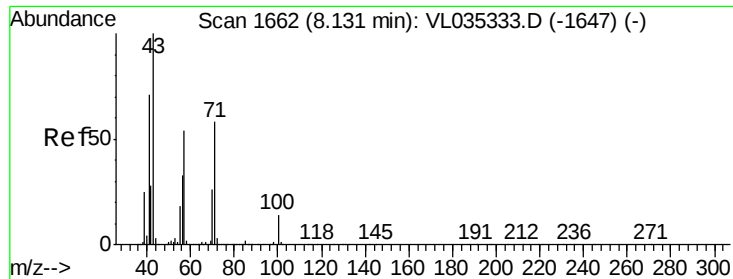
Tgt Ion: 41 Resp: 25479

Ion Ratio Lower Upper

41 100

42 55.8 55.3 82.9

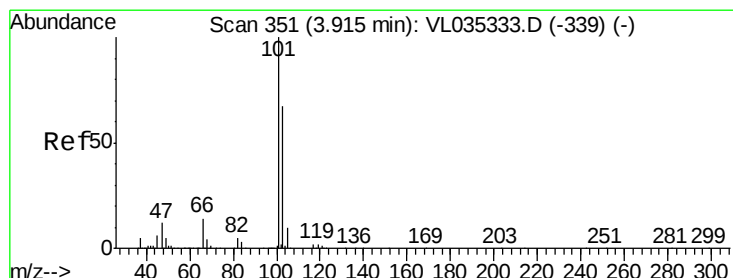
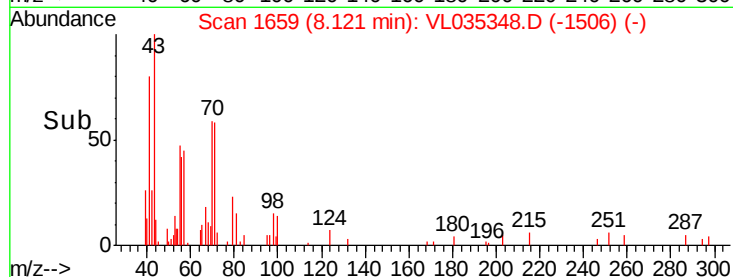
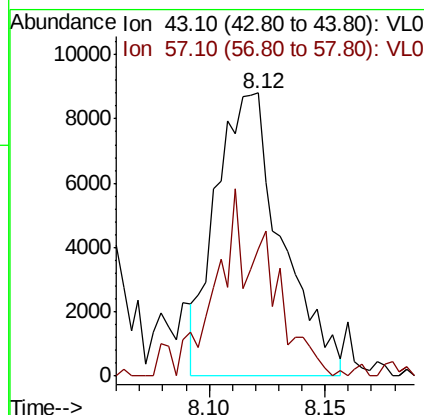
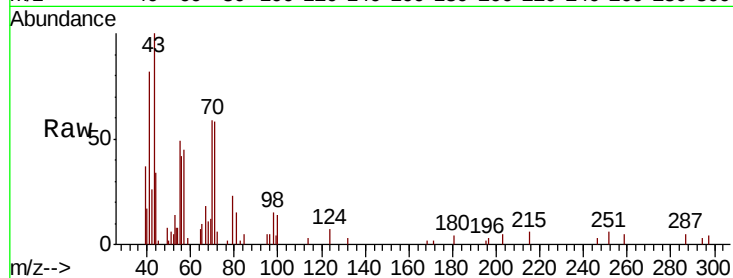




#10
 Heptane
 Concen: 0.130 ppbv
 RT: 8.12 min Scan# 1659
 Delta R.T. -0.01 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

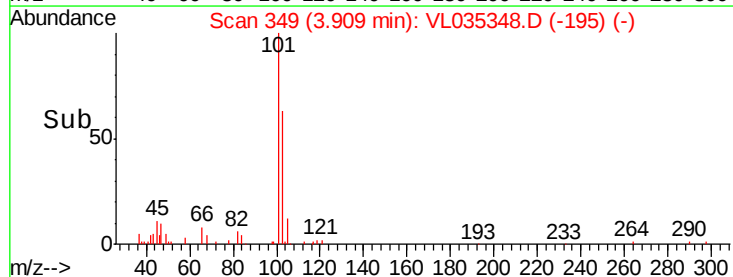
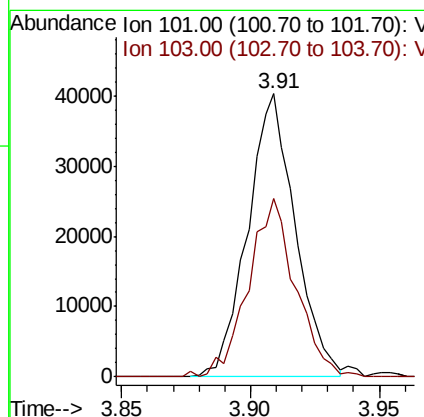
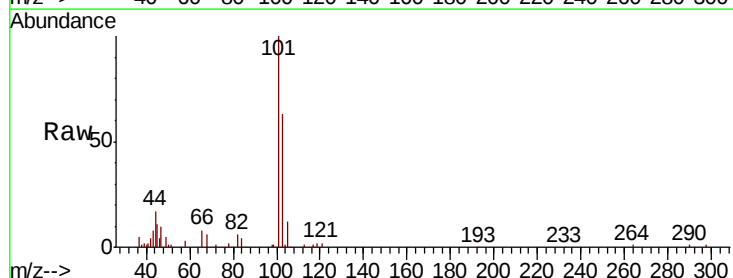
Instrument :
 MSVOA_L
 ClientSampled :

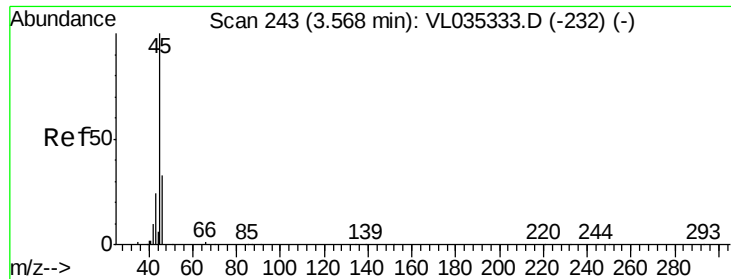
Tot Ion: 43 Resp: 17393
 Ion Ratio Lower Upper
 43 100
 57 52.7 43.0 64.6



#11
 Trichlorofluoromethane
 Concen: 0.234 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Tgt Ion:101 Resp: 51909
 Ion Ratio Lower Upper
 101 100
 103 62.1 53.8 80.8





#13

Ethanol

Concen: 26.139 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

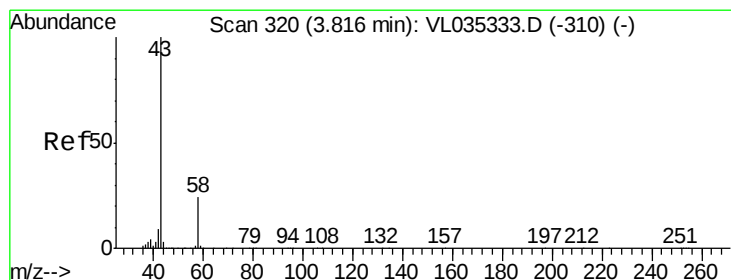
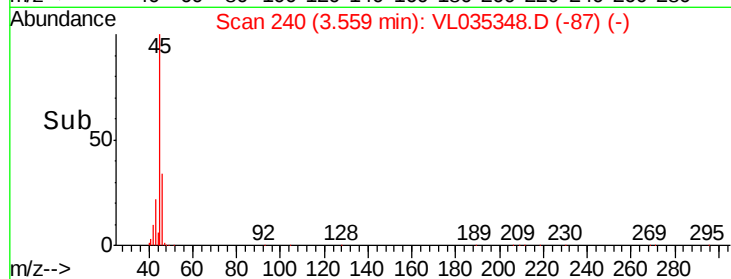
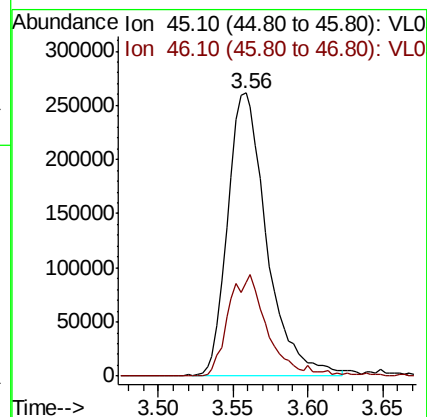
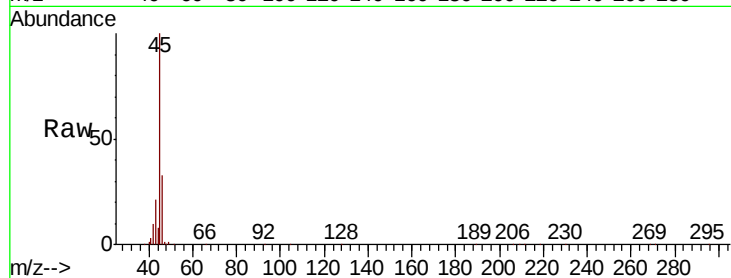
ClientSampleId :

Tot Ion: 45 Resp: 473018

Ion Ratio Lower Upper

45 100

46 37.0 15.2 61.0



#15

Acetone

Concen: 5.328 ppbv

RT: 3.81 min Scan# 317

Delta R.T. -0.01 min

Lab File: VL035348.D

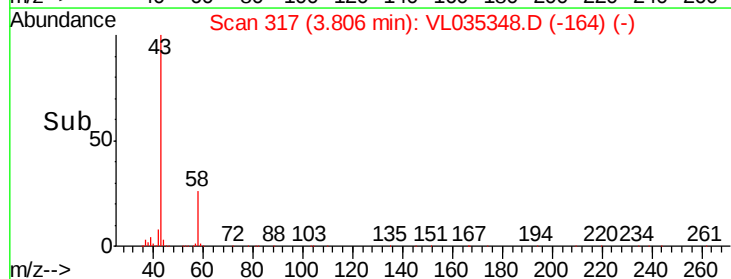
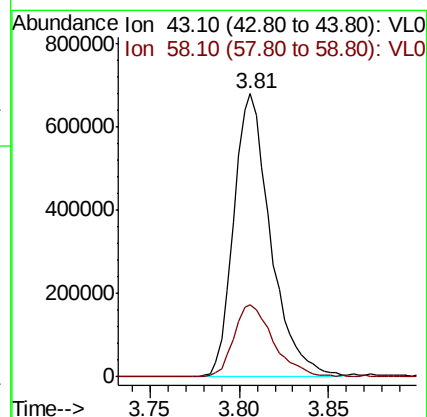
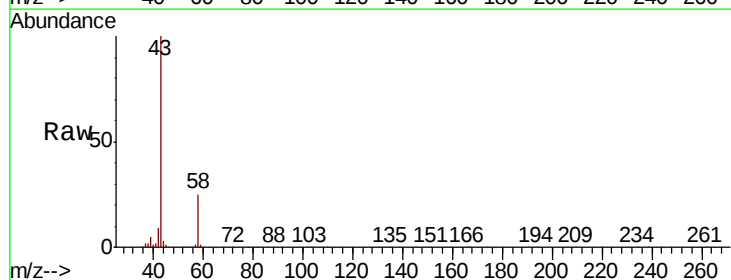
Acq: 6 Aug 2020 13:44

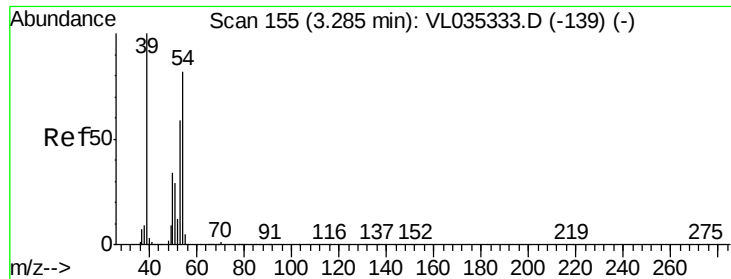
Tgt Ion: 43 Resp: 975929

Ion Ratio Lower Upper

43 100

58 27.6 21.0 31.4

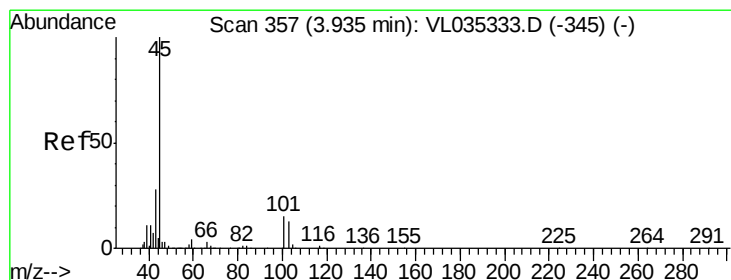
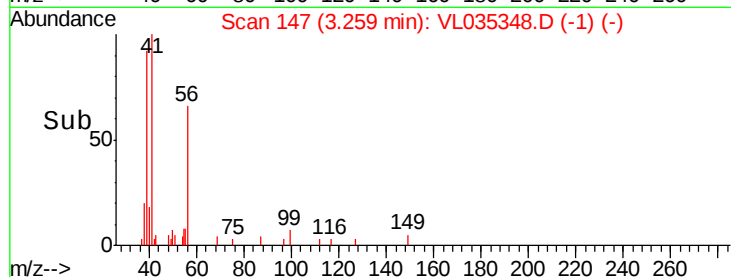
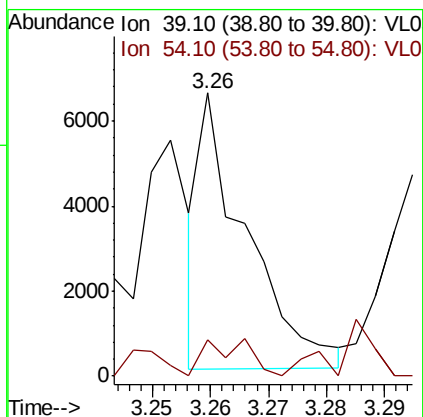
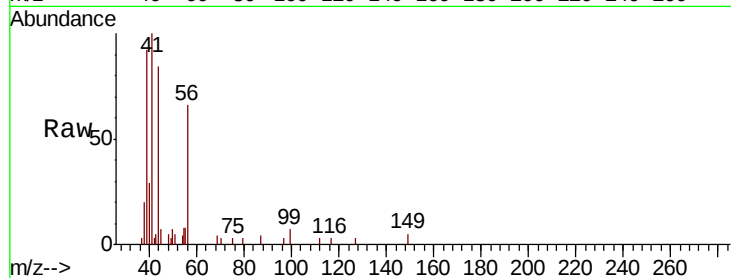




#16
1,3-Butadiene
Concen: 0.052 ppbv
RT: 3.26 min Scan# 147
Delta R.T. -0.03 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

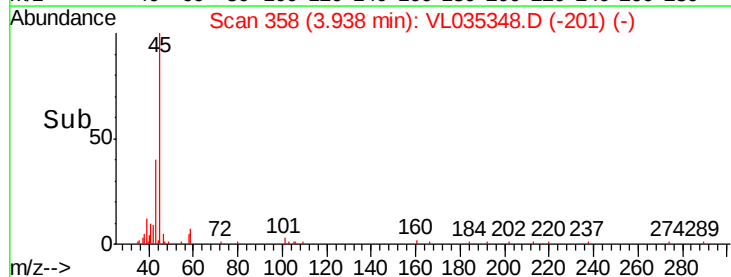
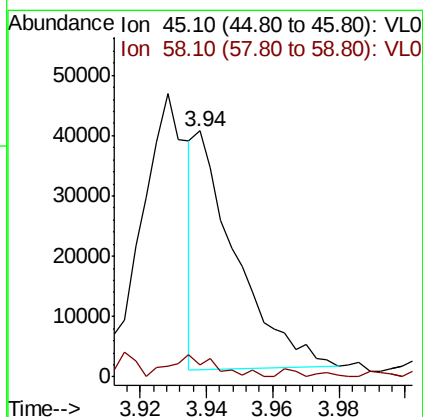
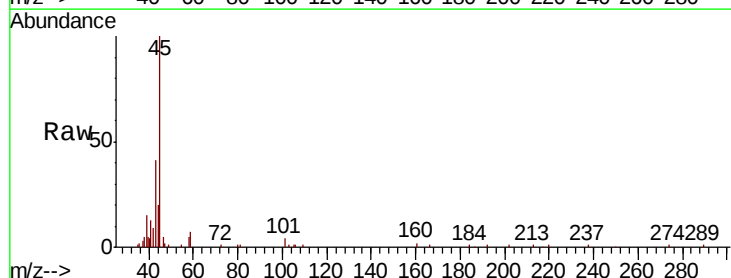
Instrument :
MSVOA_L
ClientSampleId :

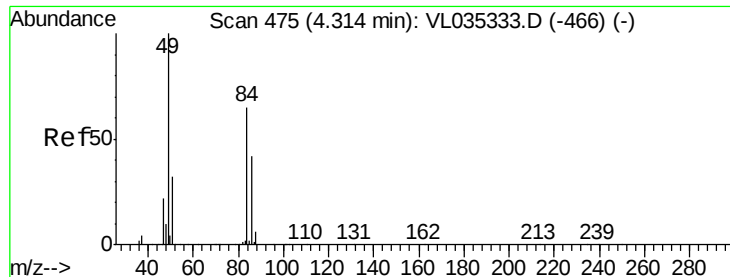
Tot Ion: 39 Resp: 3671
Ion Ratio Lower Upper
39 100
54 25.1 64.4 96.6#



#19
Isopropyl Alcohol
Concen: 0.293 ppbv
RT: 3.94 min Scan# 358
Delta R.T. 0.00 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tgt Ion: 45 Resp: 34000
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#

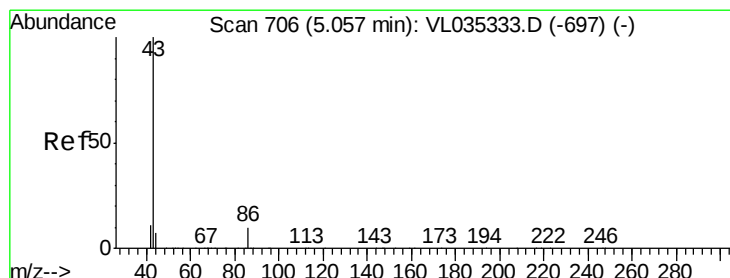
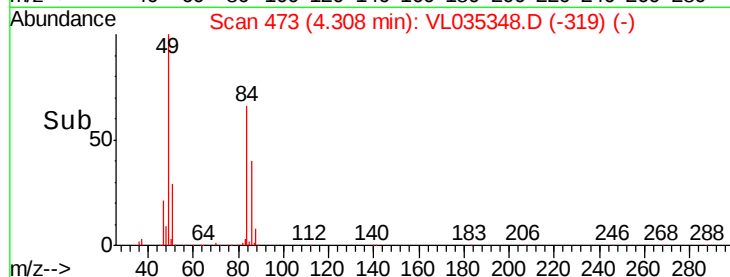
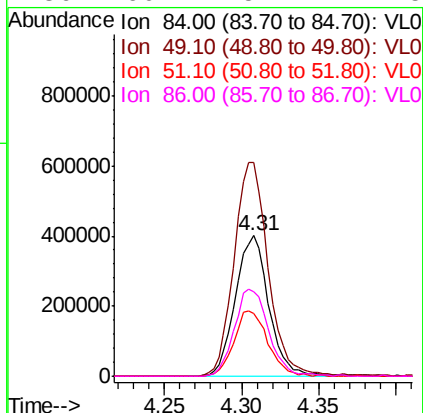
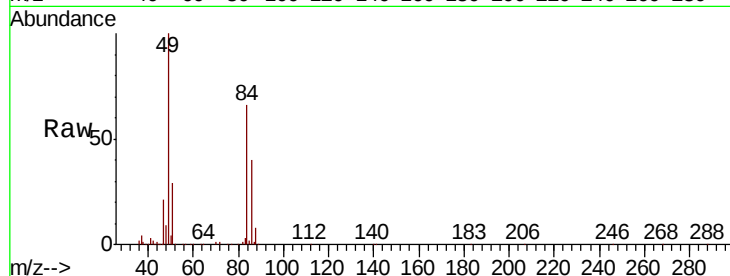




#20
Methvlene Chloride
Concen: 8.058 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

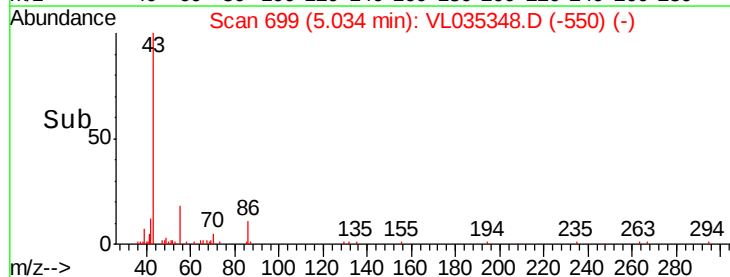
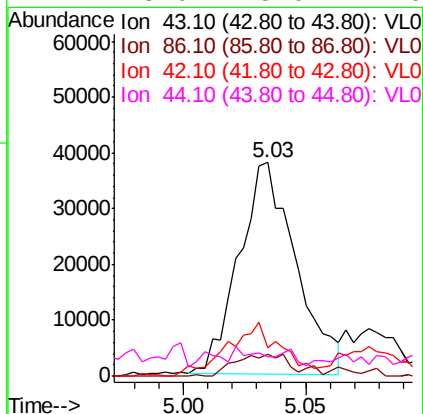
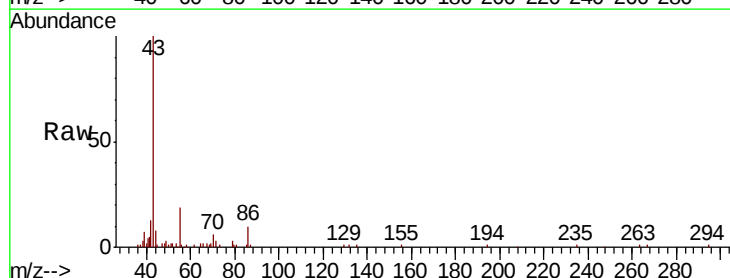
Instrument :
MSVOA_L
ClientSampleId :

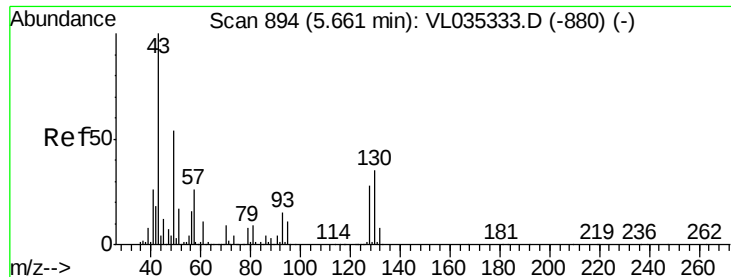
Tot Ion:	84	Resp:	601906
Ion	Ratio	Lower	Upper
84	100		
49	152.1	122.8	184.2
51	44.4	40.1	60.1
86	60.2	51.7	77.5



#23
Vinyl Acetate
Concen: 0.352 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.02 min
Lab File: VL035348.D
Acq: 6 Aug 2020 13:44

Tgt Ion:	43	Resp:	61805
Ion	Ratio	Lower	Upper
43	100		
86	10.7	6.9	10.3#
42	8.5	8.8	13.2#
44	5.0	5.0	7.6#





#25

Ethyl Acetate

Concen: 1.420 ppbv

RT: 5.66 min Scan# 894

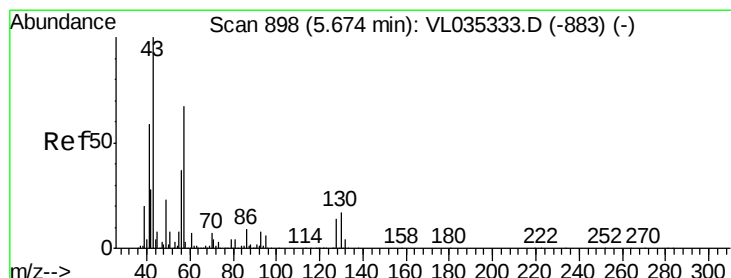
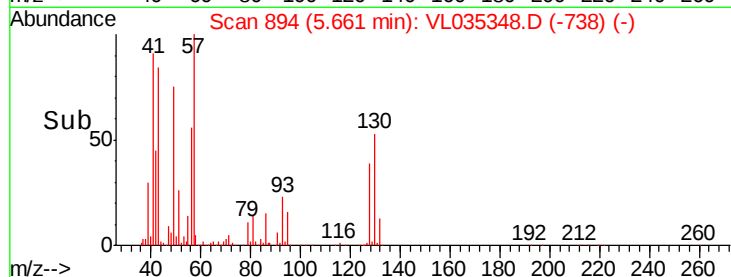
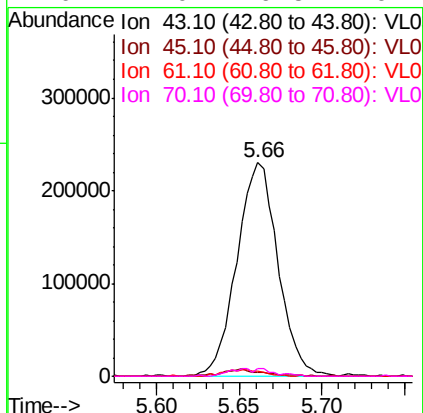
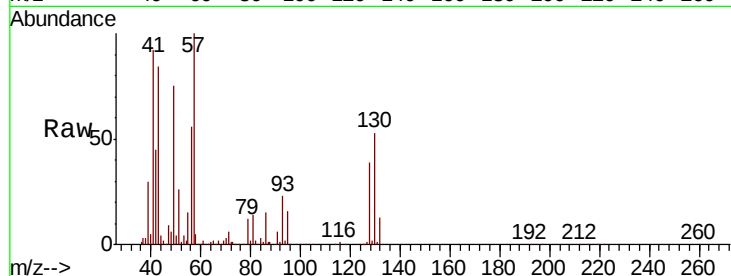
Delta R.T. 0.00 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	395147
Ion	Ratio	Lower	Upper
43	100		
45	3.7	8.5	12.7#
61	3.2	8.1	12.1#
70	4.0	6.5	9.7#



#26

Hexane

Concen: 3.739 ppbv

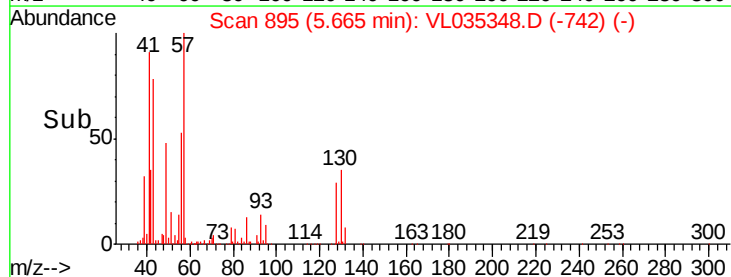
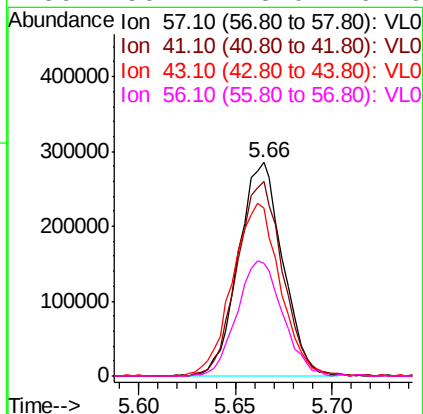
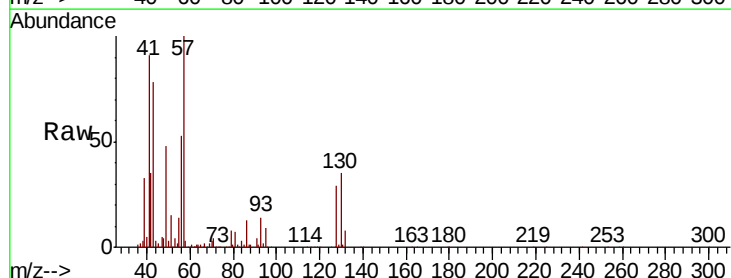
RT: 5.66 min Scan# 895

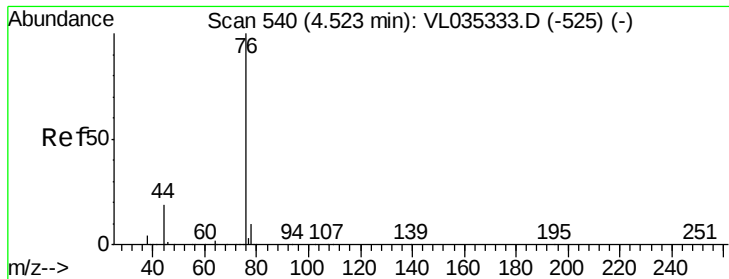
Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Tgt Ion:	57	Resp:	451385
Ion	Ratio	Lower	Upper
57	100		
41	94.7	75.2	112.8
43	88.6	180.6	270.8#
56	56.2	43.0	64.6





#27

Carbon Disulfide

Concen: 0.084 ppbv

RT: 4.52 min Scan# 538

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

ClientSampleId :

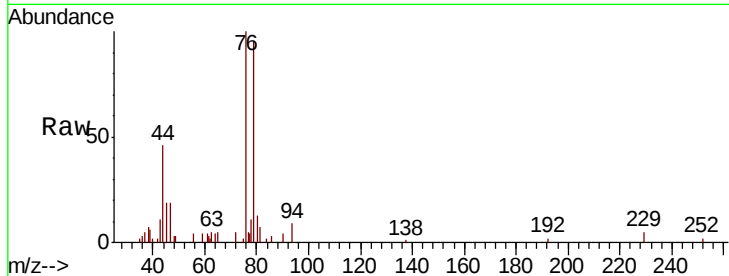
Tot Ion: 76 Resp: 14155

Ion Ratio Lower Upper

76 100

44 41.3 15.4 23.2#

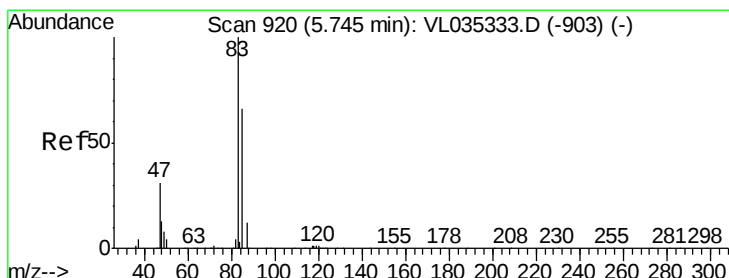
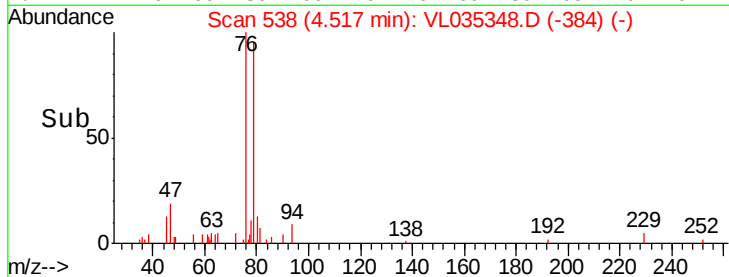
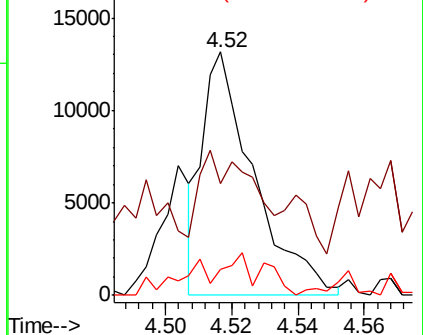
78 23.3 7.7 11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.041 ppbv

RT: 5.72 min Scan# 913

Delta R.T. -0.02 min

Lab File: VL035348.D

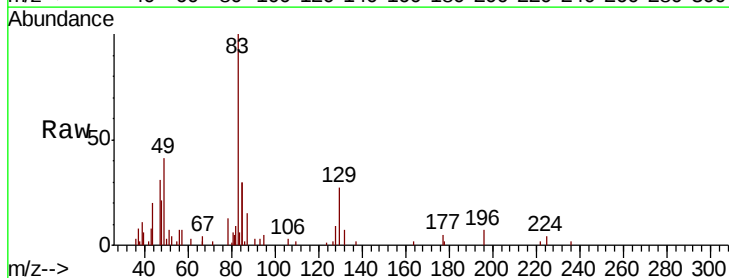
Acq: 6 Aug 2020 13:44

Tgt Ion: 83 Resp: 8439

Ion Ratio Lower Upper

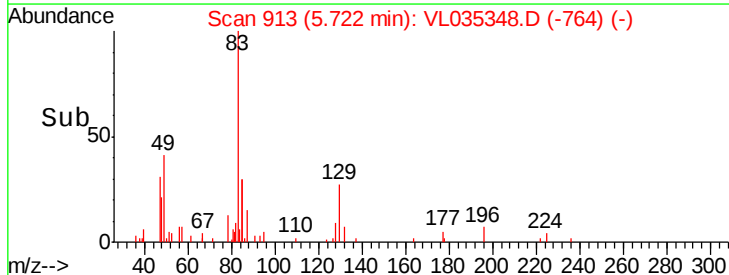
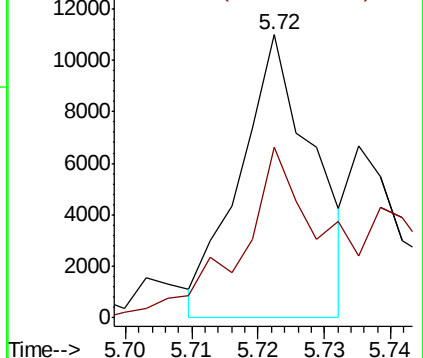
83 100

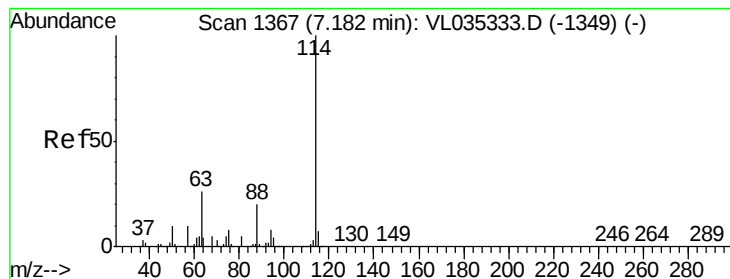
85 58.4 52.9 79.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

ClientSampleId :

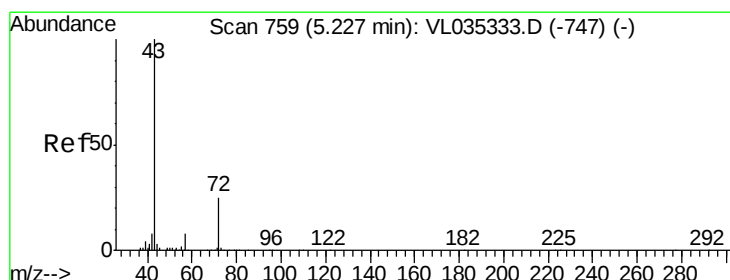
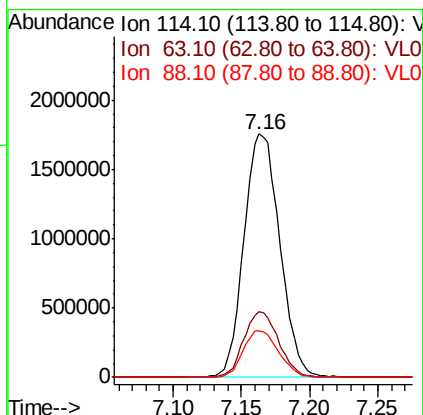
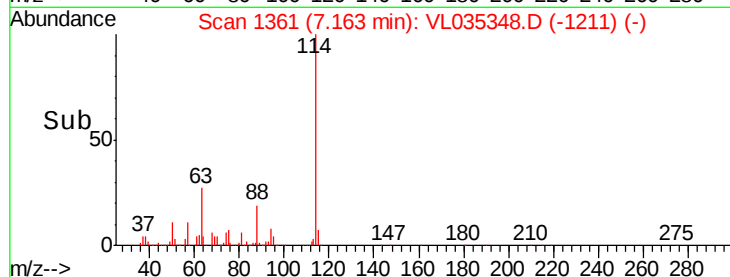
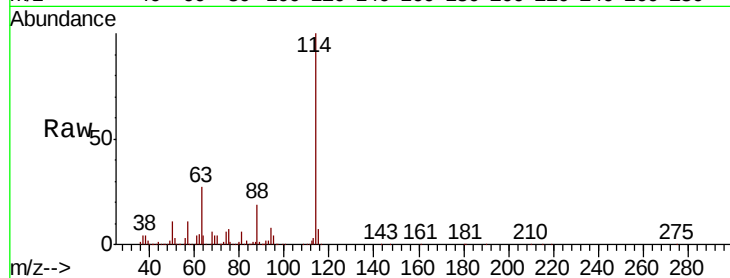
Tot Ion:114 Resp: 3206591

Ion Ratio Lower Upper

114 100

63 26.2 21.3 31.9

88 19.0 15.3 22.9



#34

2-Butanone

Concen: 0.461 ppbv

RT: 5.22 min Scan# 757

Delta R.T. -0.01 min

Lab File: VL035348.D

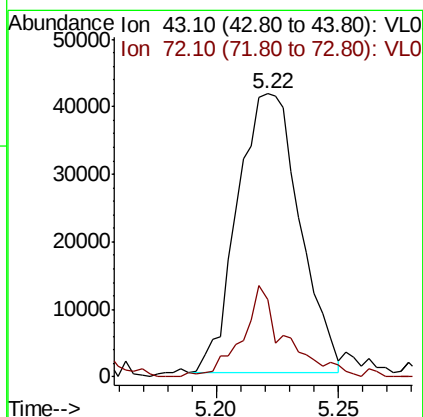
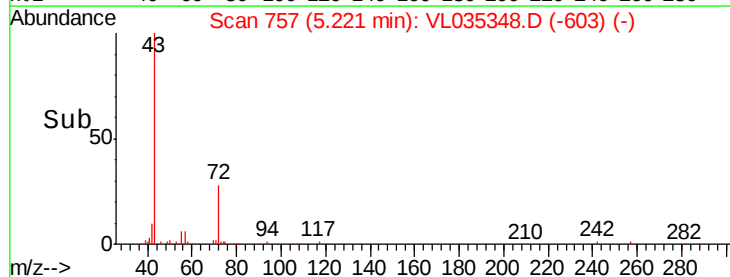
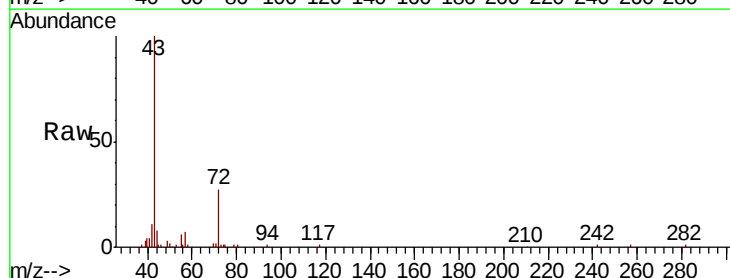
Acq: 6 Aug 2020 13:44

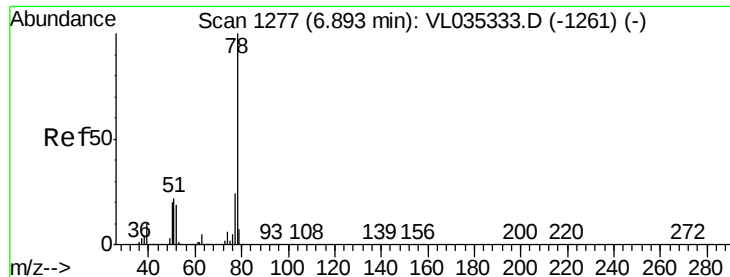
Tgt Ion: 43 Resp: 72789

Ion Ratio Lower Upper

43 100

72 23.4 18.9 28.3





#36

Benzene

Concen: 0.065 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :
MSVOA_L
ClientSampled :

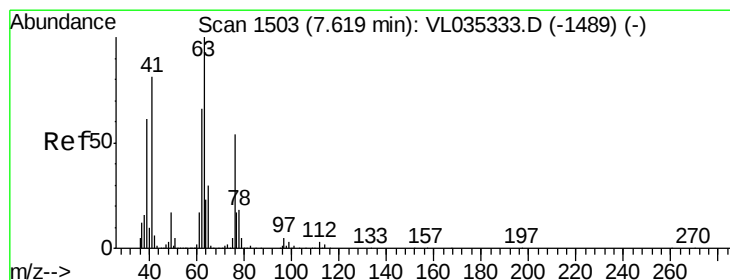
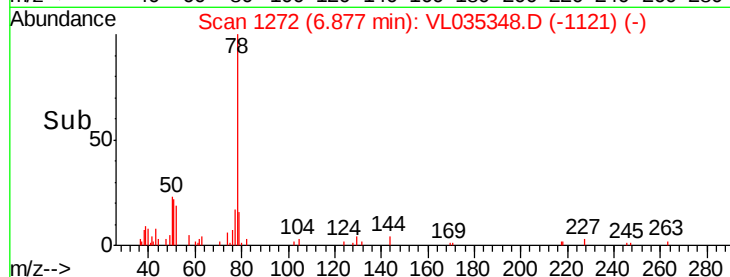
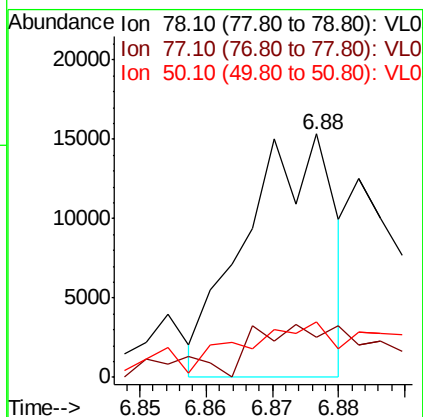
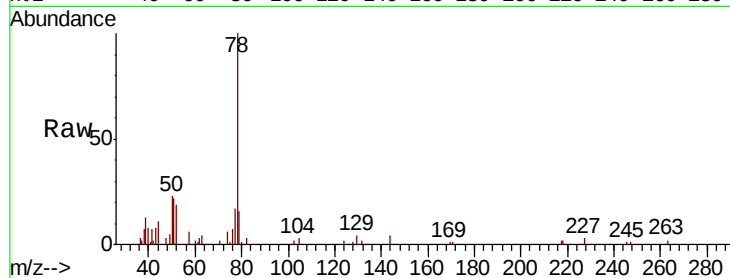
Tot Ion: 78 Resp: 14129

Ion Ratio Lower Upper

78 100

77 9.1 19.3 28.9#

50 12.7 16.3 24.5#



#39

1,2-Dichloropropane

Concen: 9.538 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.46 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

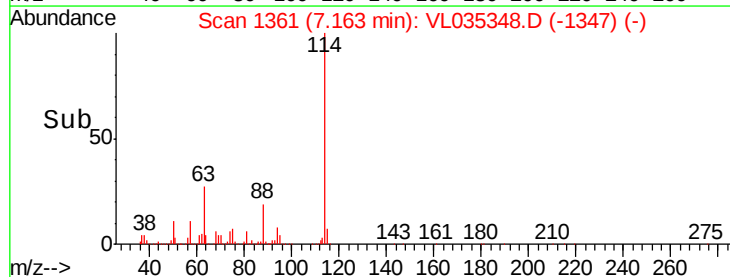
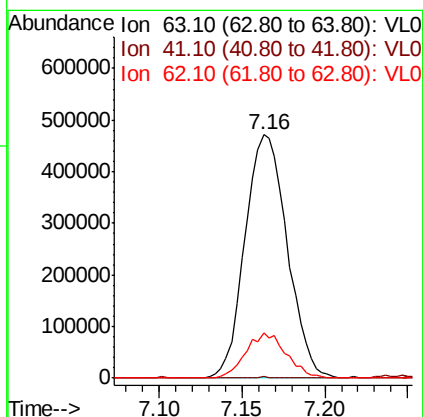
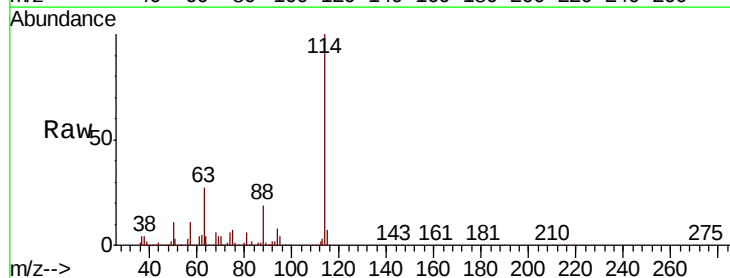
Tgt Ion: 63 Resp: 836089

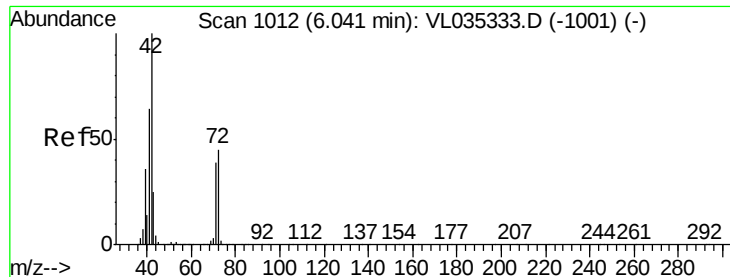
Ion Ratio Lower Upper

63 100

41 0.2 64.4 96.6#

62 18.4 52.6 78.8#





#41

Tetrahydrofuran

Concen: 2.411 ppbv

RT: 5.66 min Scan# 894

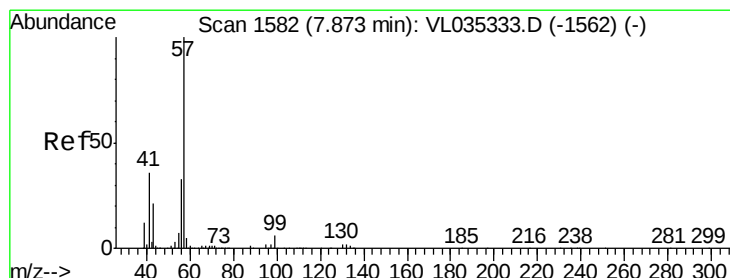
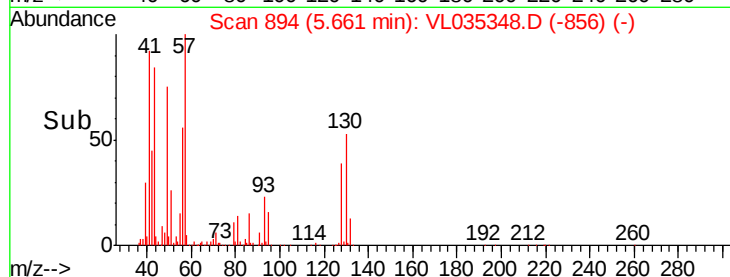
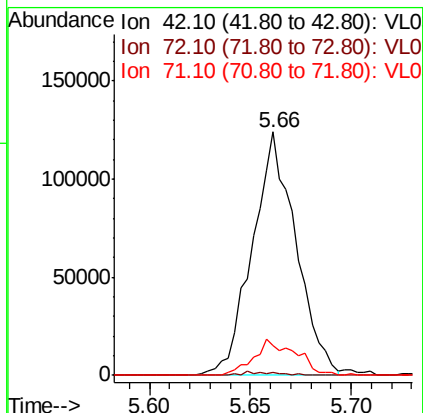
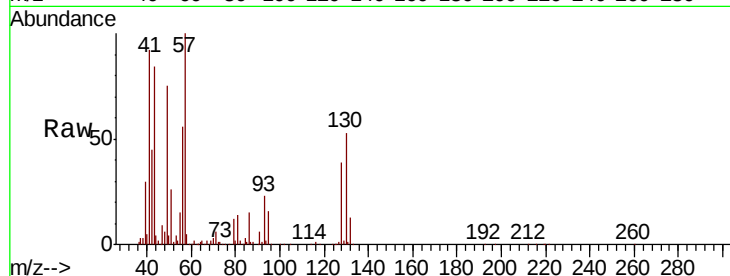
Delta R.T. -0.38 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	42	Resp:	186782
Ion	Ratio	Lower	Upper
42	100		
72	1.3	33.6	50.4#
71	14.5	33.1	49.7#



#44

2,2,4-Trimethylpentane

Concen: 0.049 ppbv

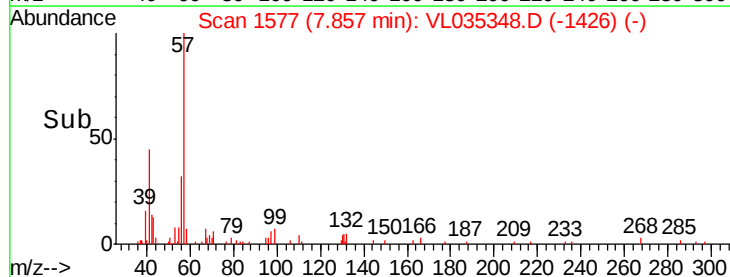
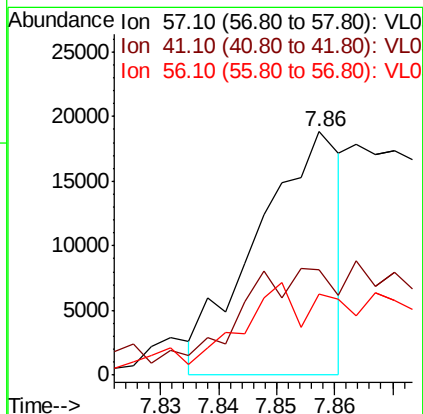
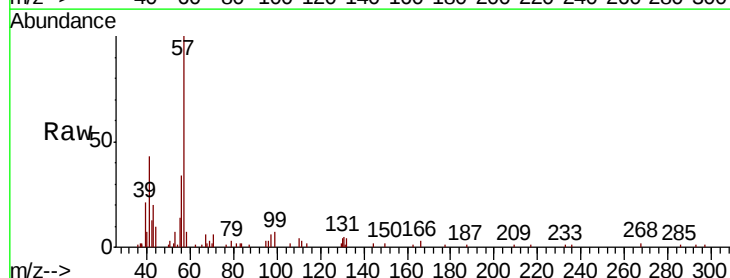
RT: 7.86 min Scan# 1577

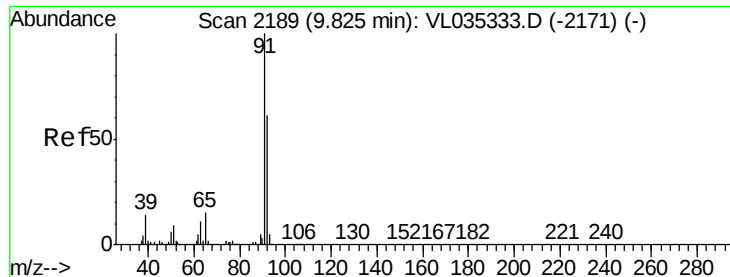
Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Tgt Ion:	57	Resp:	18915
Ion	Ratio	Lower	Upper
57	100		
41	135.0	27.9	41.9#
56	83.3	25.4	38.0#





#53

Toluene

Concen: 2.476 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

Instrument :

MSVOA_L

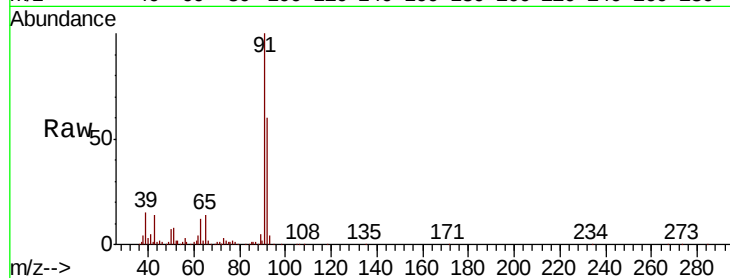
ClientSampleId :

Tot Ion: 91 Resp: 583251

Ion Ratio Lower Upper

91 100

92 59.1 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.81

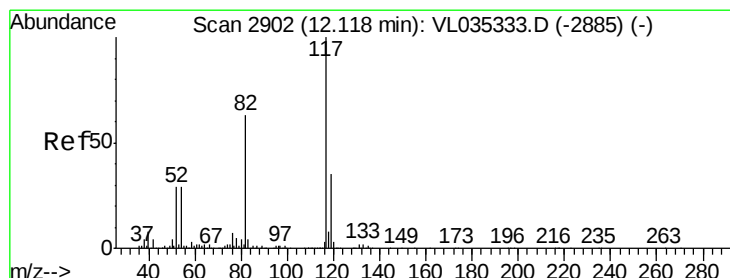
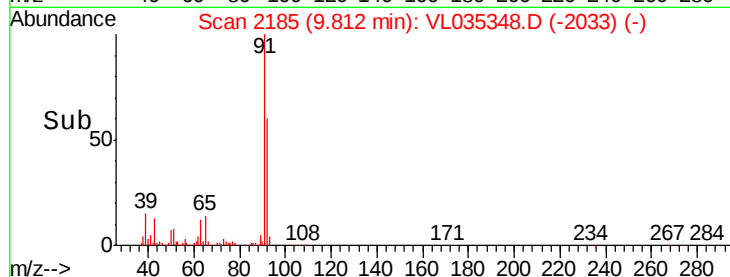
300000

200000

100000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.02 min

Lab File: VL035348.D

Acq: 6 Aug 2020 13:44

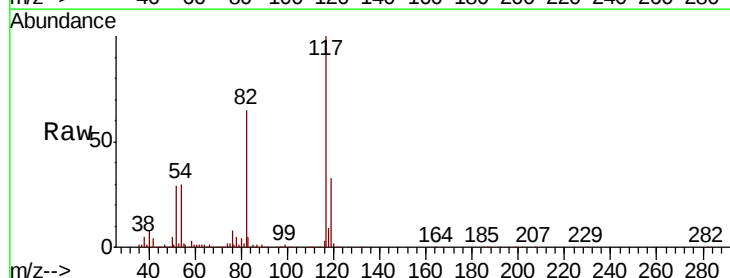
Tgt Ion: 117 Resp: 3073918

Ion Ratio Lower Upper

117 100

82 66.9 51.0 76.4

119 33.2 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

2000000

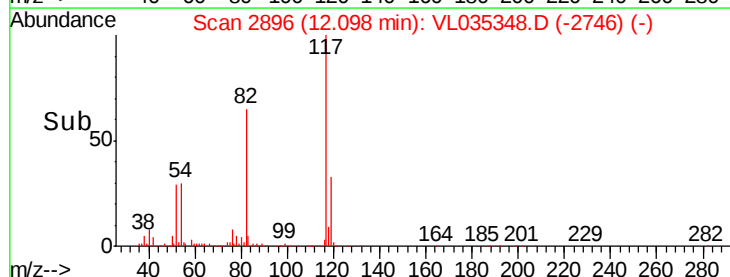
1500000

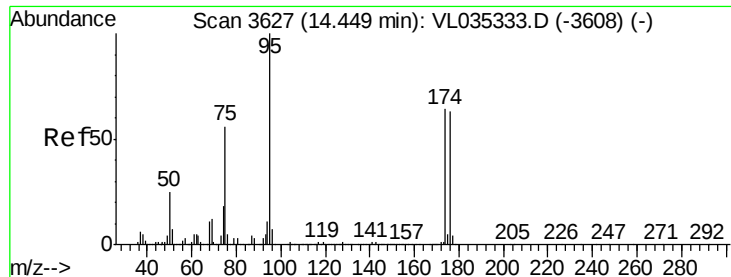
1000000

500000

0

Time-->

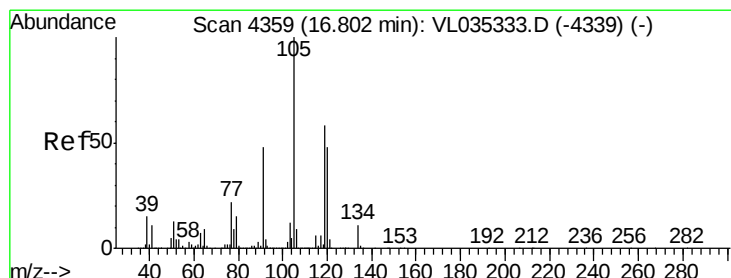
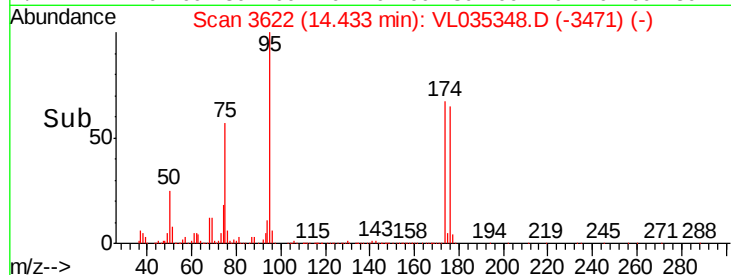
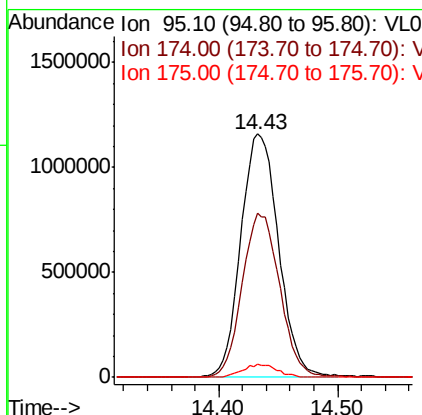
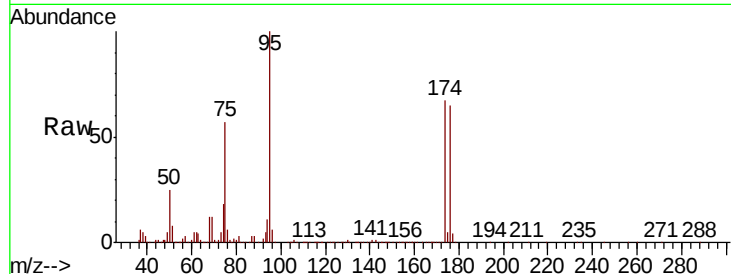




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.958 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. -0.02 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2552637
 Ion Ratio Lower Upper
 95 100
 174 67.2 53.5 80.3
 175 5.2 4.2 6.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.047 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.02 min
 Lab File: VL035348.D
 Acq: 6 Aug 2020 13:44

Tgt Ion:105 Resp: 17266
 Ion Ratio Lower Upper
 105 100
 120 61.2 38.5 57.7#
 91 19.3 39.0 58.6#
 77 24.7 17.8 26.6

