

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101719\
 Data File : VL034328.D
 Acq On : 17 Oct 2019 22:41
 Operator : SY/AP
 Sample : K5409-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Oct 18 04:35:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	916772	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1958862	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1998342	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1651208	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

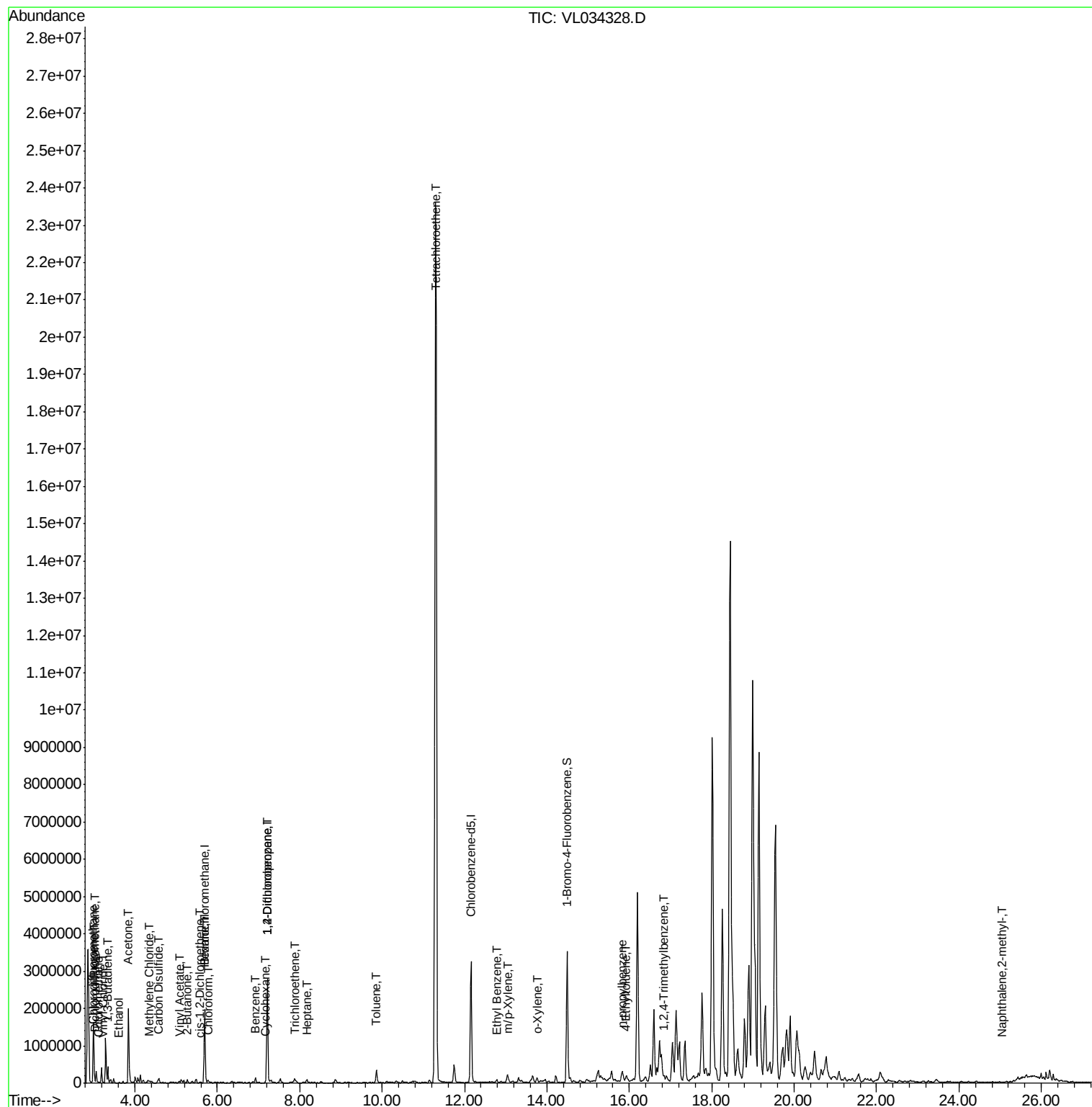
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	3.03	85	10547	0.067	ppbv #	82
3) Chlorodifluoromethane	2.97	51	5983	0.056	ppbv #	87
4) Chloromethane	3.12	50	16193	0.255	ppbv	96
5) Vinyl Chloride	3.25	62	2475	0.041	ppbv #	66
9) Propene	2.99	41	661024	13.877	ppbv	93
10) Heptane	8.17	43	20755	0.170	ppbv #	35
13) Ethanol	3.61	45	6908	0.648	ppbv #	57
15) Acetone	3.84	43	2073258	15.811	ppbv	98
16) 1,3-Butadiene	3.34	39	45310	0.850	ppbv #	57
20) Methylene Chloride	4.35	84	12182	0.257	ppbv #	86
23) Vinyl Acetate	5.09	43	7383	0.045	ppbv #	9
26) Hexane	5.70	57	49411	0.524	ppbv #	35
27) Carbon Disulfide	4.56	76	49773	0.508	ppbv #	79
29) Chloroform	5.77	83	23267	0.156	ppbv	91
30) Cyclohexane	7.17	84	7096	0.102	ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	6377	0.067	ppbv	94
34) 2-Butanone	5.27	43	100828	0.630	ppbv	99
36) Benzene	6.92	78	100601	0.535	ppbv #	88
38) Trichloroethene	7.88	130	25474	0.338	ppbv	94
39) 1,2-Dichloropropane	7.21	63	534194	6.601	ppbv #	21
52) Tetrachloroethene	11.30	164	7396393	100.398	ppbv	92
53) Toluene	9.86	91	255738	1.233	ppbv	98
58) Ethyl Benzene	12.79	91	34141	0.122	ppbv	92
59) m/p-Xylene	13.07	91	50581	0.209	ppbv #	32
60) o-Xylene	13.76	91	50327	0.209	ppbv #	61
64) n-propylbenzene	15.84	120	4398	0.054	ppbv	65
72) 4-Ethyltoluene	15.91	105	14545	0.054	ppbv #	47
74) 1,2,4-Trimethylbenzene	16.84	105	44634	0.159	ppbv #	78
80) Naphthalene,2-methyl-	25.04	142	1797	0.030	ppbv #	69

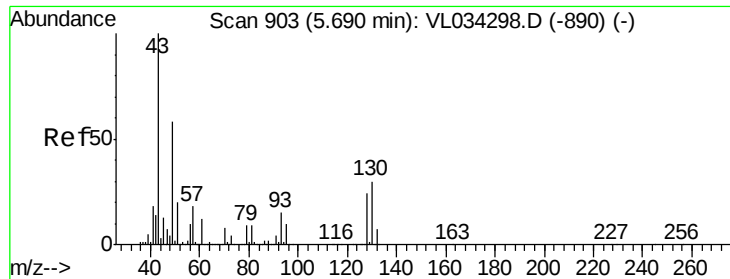
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

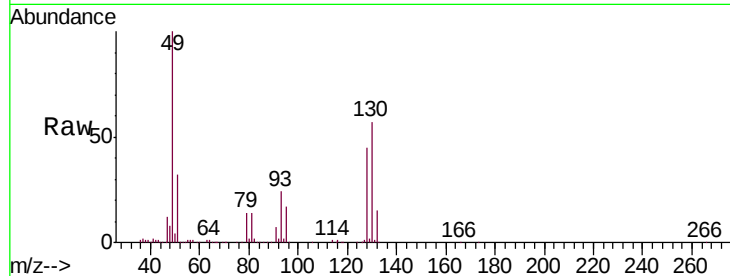
Tgt Ion: 49 Resp: 916772

Ion Ratio Lower Upper

49 100

128 44.4 20.6 61.8

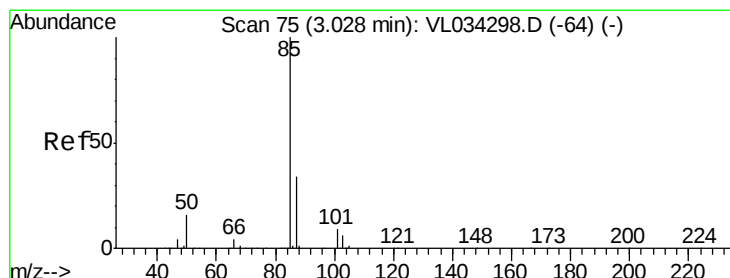
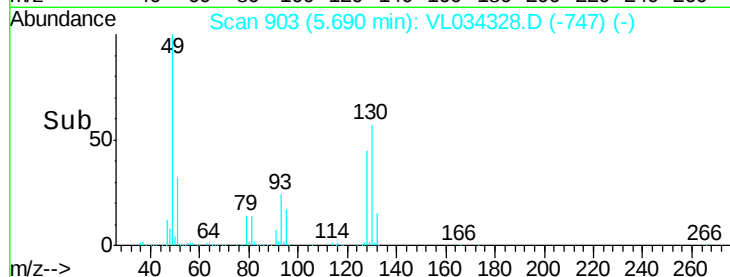
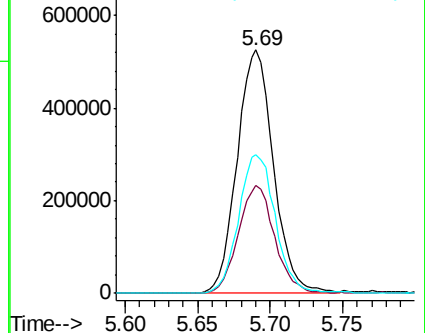
130 57.7 26.2 78.5



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: 0.067 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL034328.D

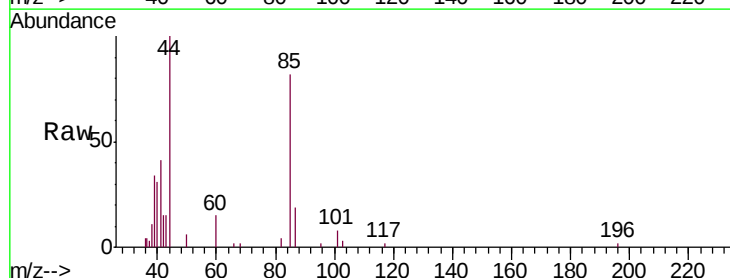
Acq: 17 Oct 2019 22:41

Tgt Ion: 85 Resp: 10547

Ion Ratio Lower Upper

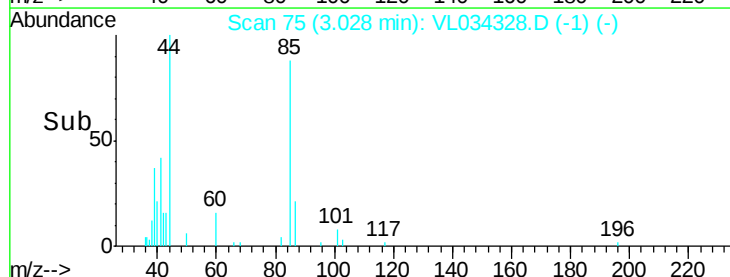
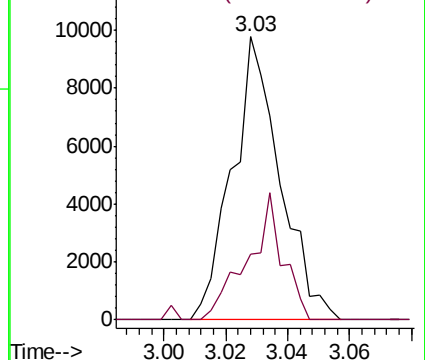
85 100

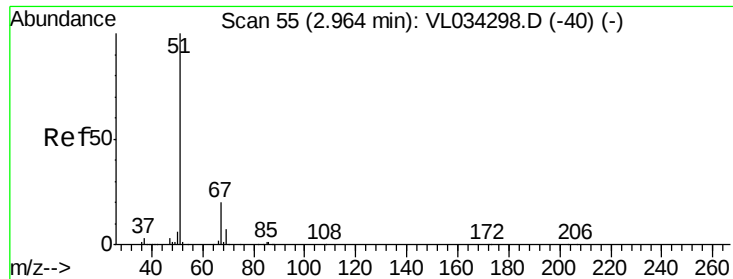
87 23.3 27.0 40.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.056 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

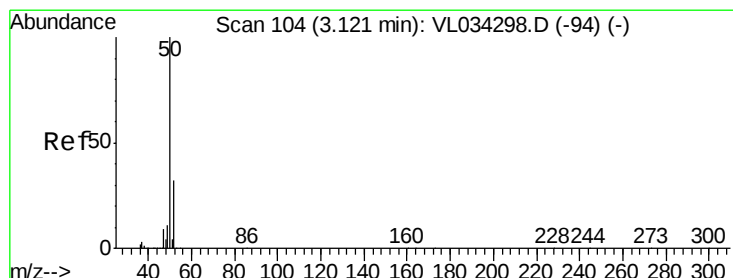
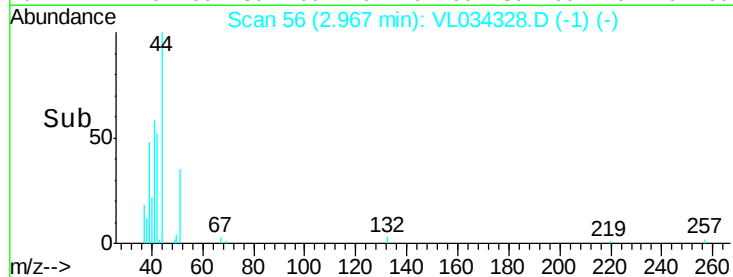
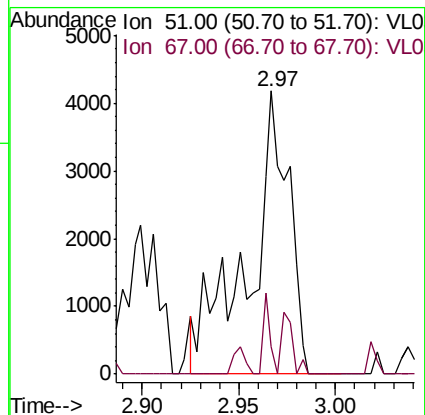
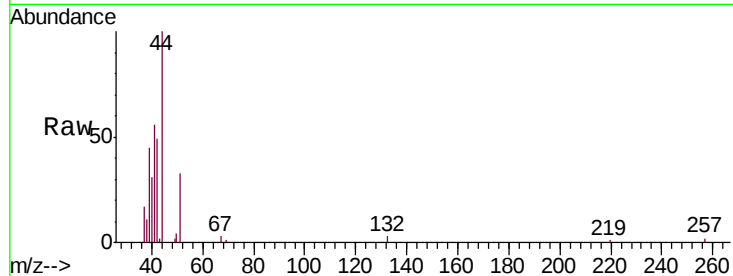
SV2DL

Tgt Ion: 51 Resp: 5983

Ion Ratio Lower Upper

51 100

67 14.0 15.8 23.8#



#4

Chloromethane

Concen: 0.255 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL034328.D

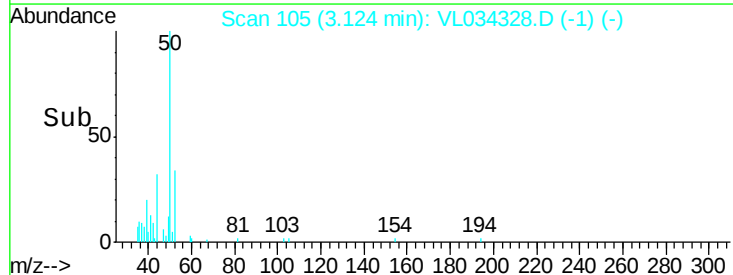
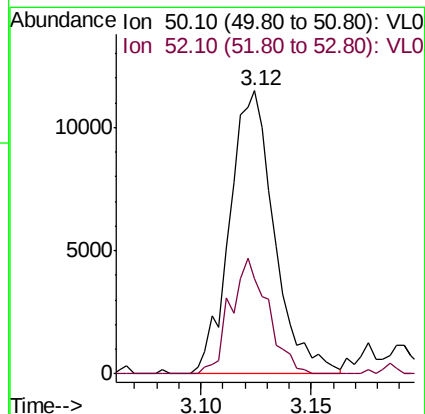
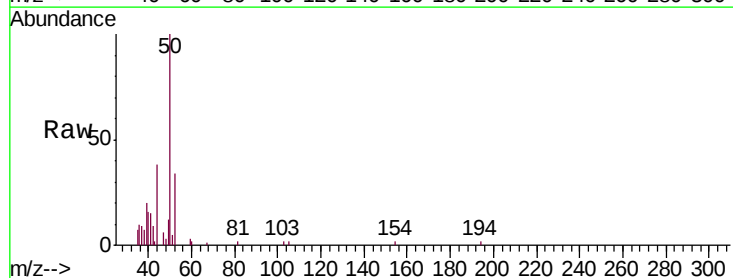
Acq: 17 Oct 2019 22:41

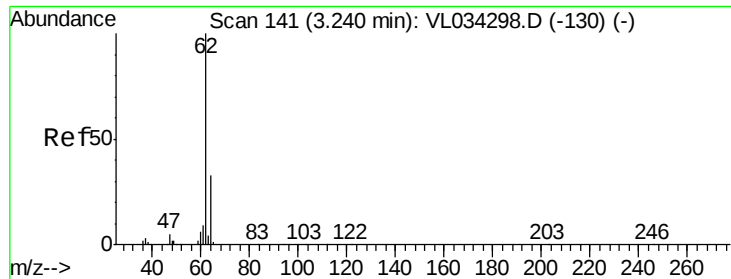
Tgt Ion: 50 Resp: 16193

Ion Ratio Lower Upper

50 100

52 33.8 25.4 38.2





#5

Vinyl Chloride

Concen: 0.041 ppbv

RT: 3.25 min Scan# 143

Delta R.T. 0.01 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

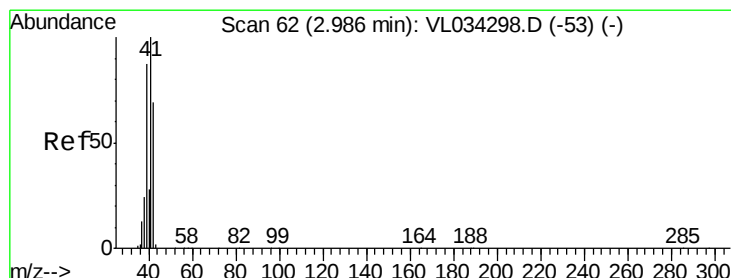
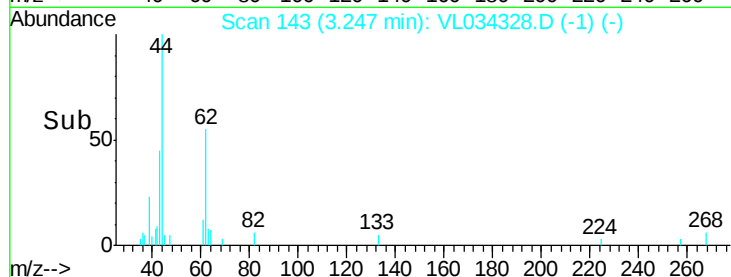
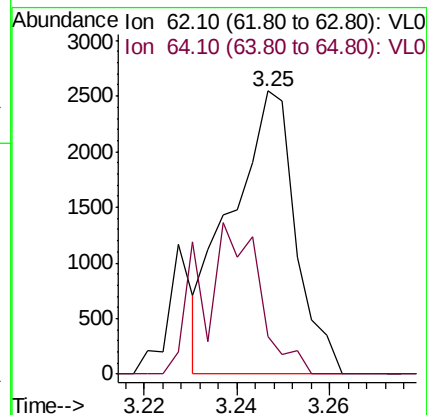
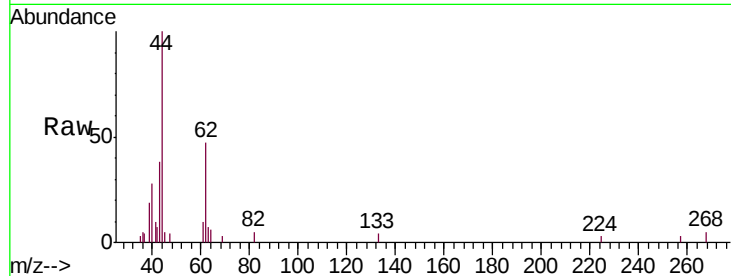
SV2DL

Tgt Ion: 62 Resp: 2475

Ion Ratio Lower Upper

62 100

64 13.2 26.0 39.0#



#9

Propene

Concen: 13.877 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034328.D

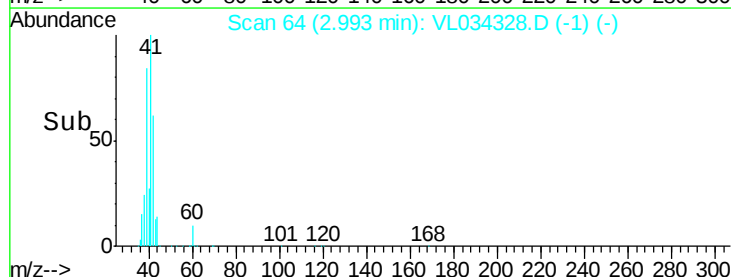
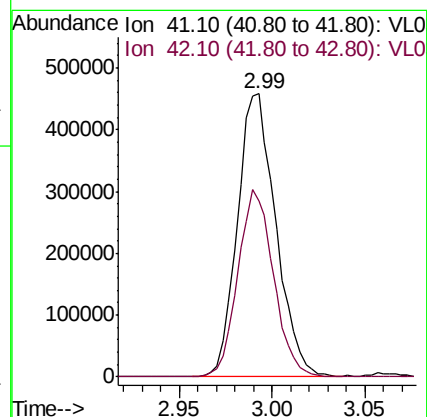
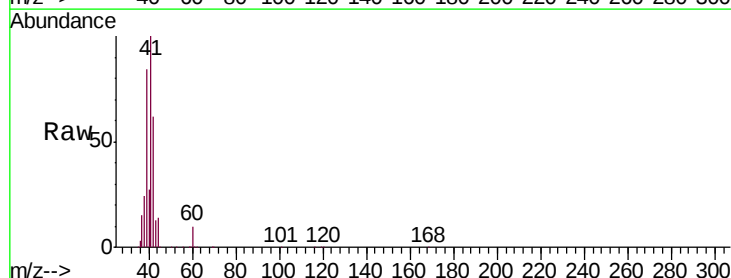
Acq: 17 Oct 2019 22:41

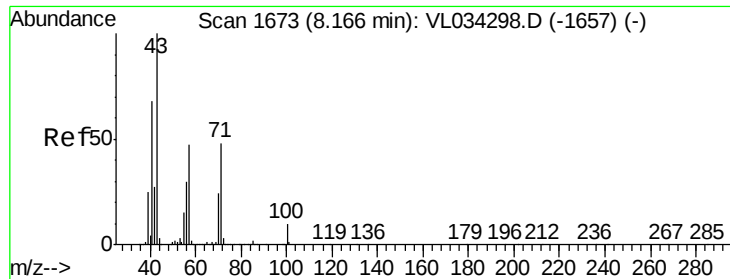
Tgt Ion: 41 Resp: 661024

Ion Ratio Lower Upper

41 100

42 61.5 53.9 80.9





#10

Heptane

Concen: 0.170 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

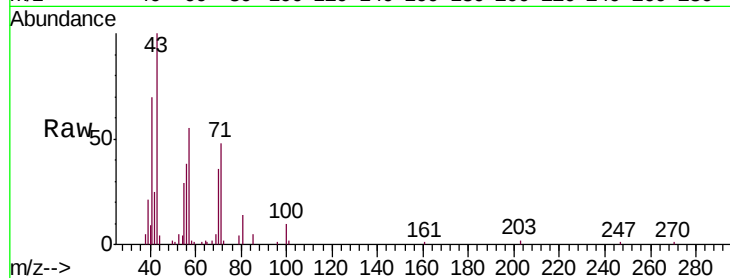
SV2DL

Tgt Ion: 43 Resp: 20755

Ion Ratio Lower Upper

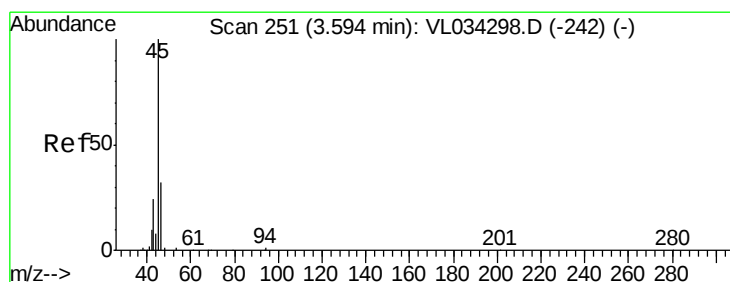
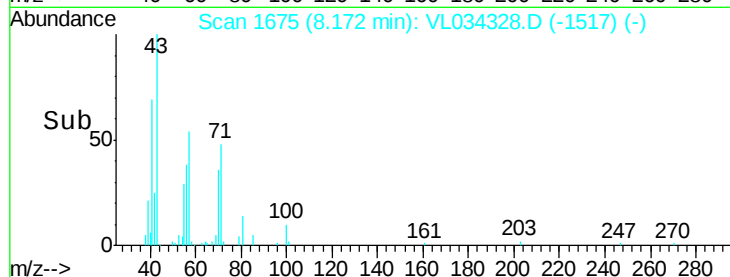
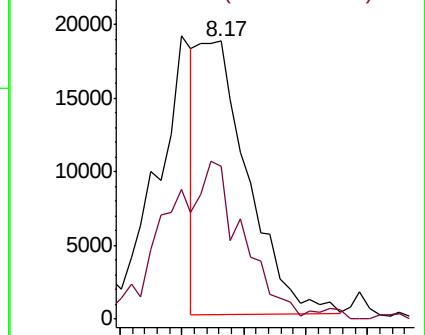
43 100

57 94.0 39.5 59.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 0.648 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL034328.D

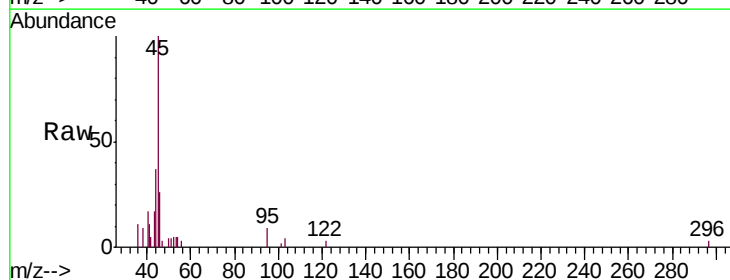
Acq: 17 Oct 2019 22:41

Tgt Ion: 45 Resp: 6908

Ion Ratio Lower Upper

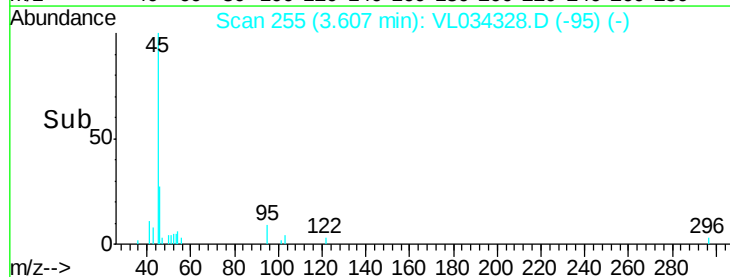
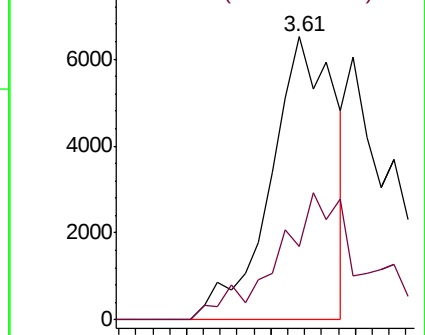
45 100

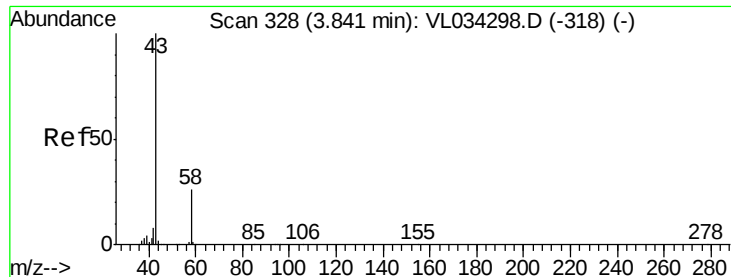
46 65.8 15.8 63.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 15.811 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

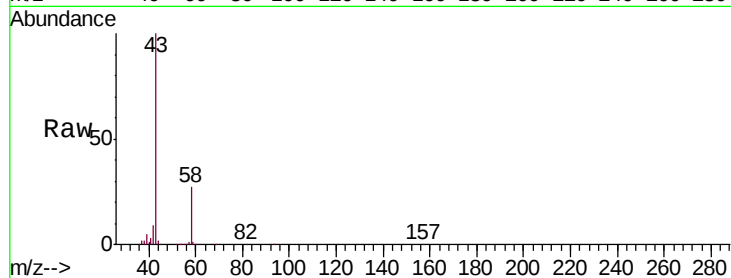
SV2DL

Tgt Ion: 43 Resp: 2073258

Ion Ratio Lower Upper

43 100

58 26.7 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1500000

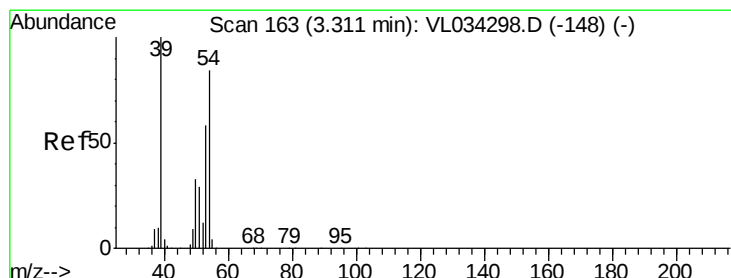
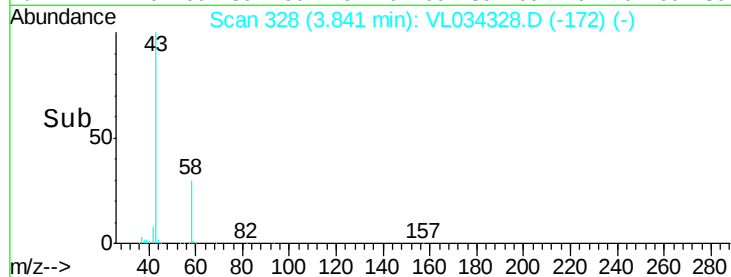
1000000

500000

0

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 0.850 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.03 min

Lab File: VL034328.D

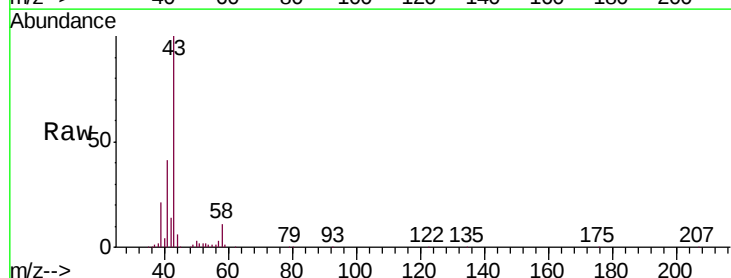
Acq: 17 Oct 2019 22:41

Tgt Ion: 39 Resp: 45310

Ion Ratio Lower Upper

39 100

54 117.6 63.9 95.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

60000

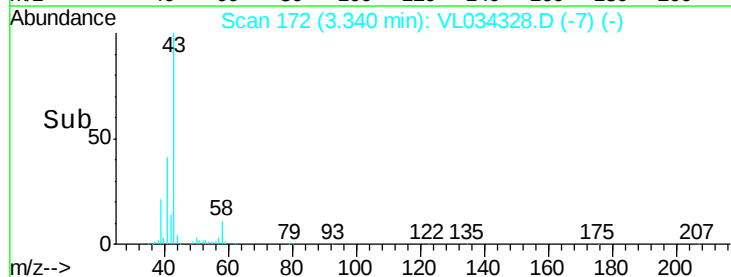
40000

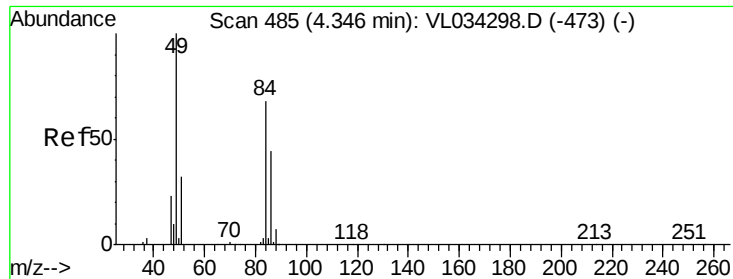
20000

0

3.32 3.34 3.36 3.38

Time-->

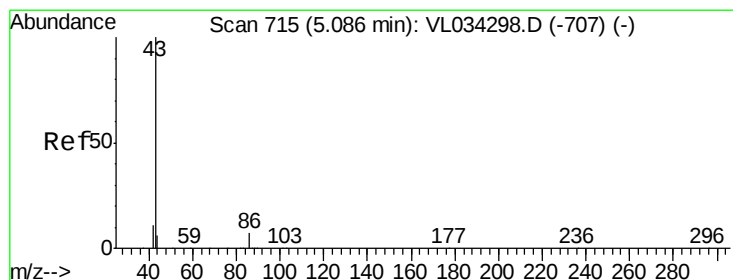
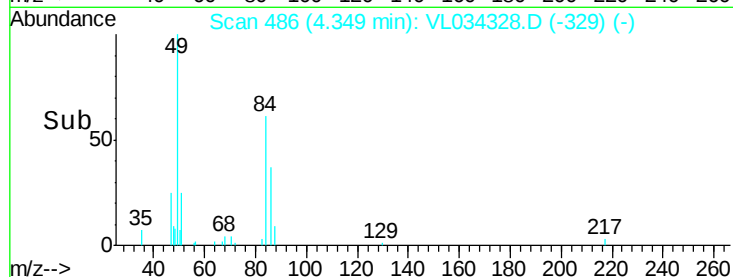
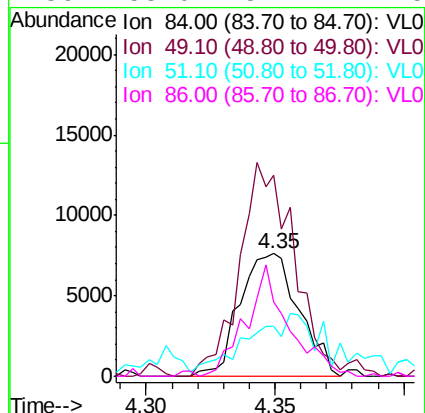
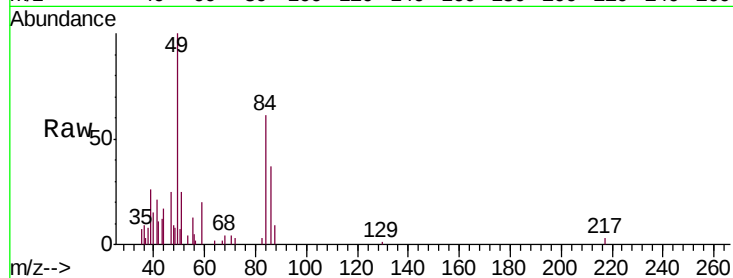




#20
Methylene Chloride
Concen: 0.257 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

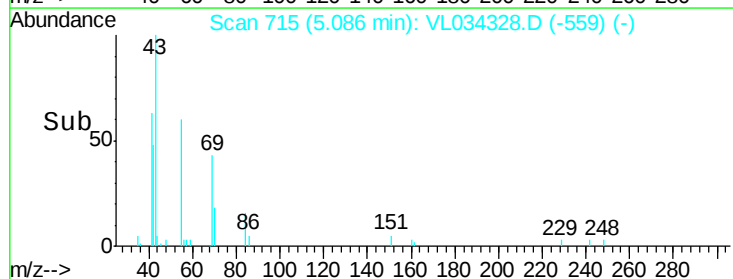
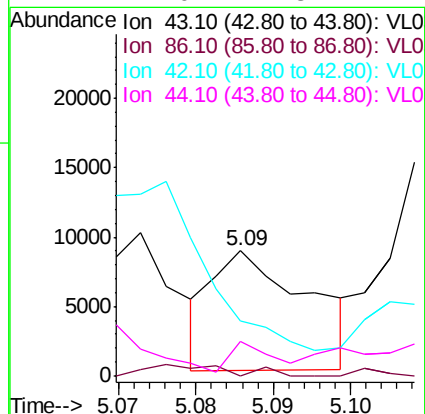
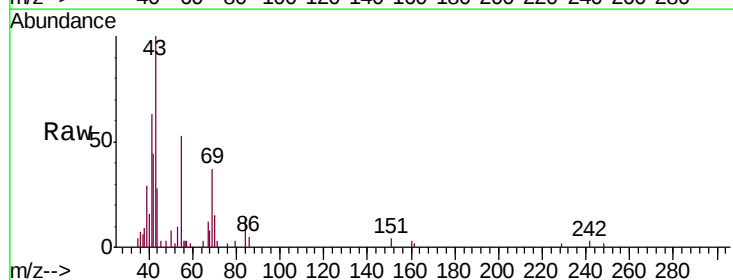
Instrument :
MSVOA_L
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SV2DL

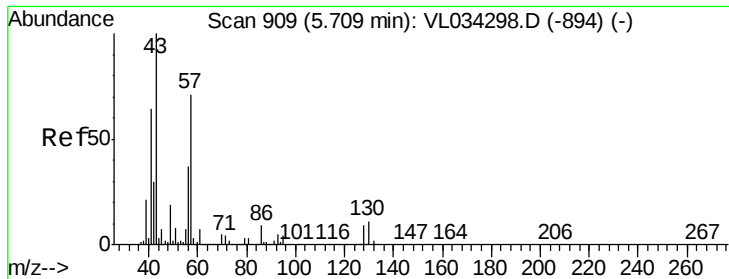
Tgt Ion: 84 Resp: 12182
Ion Ratio Lower Upper
84 100
49 163.7 118.5 177.7
51 29.6 38.8 58.2#
86 58.0 51.7 77.5



#23
Vinyl Acetate
Concen: 0.045 ppbv
RT: 5.09 min Scan# 715
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion: 43 Resp: 7383
Ion Ratio Lower Upper
43 100
86 0.0 5.0 7.4#
42 56.6 8.6 13.0#
44 44.0 4.8 7.2#





#26

Hexane

Concen: 0.524 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 57 Resp: 49411

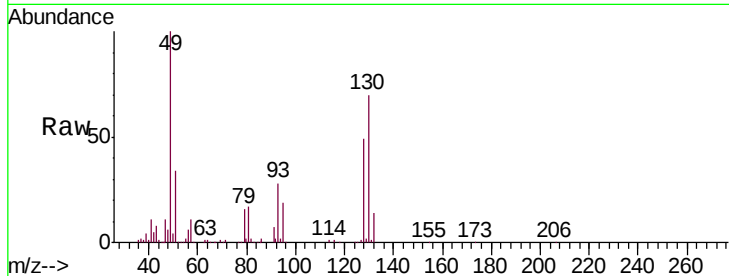
Ion Ratio Lower Upper

57 100

41 121.0 76.5 114.7#

43 79.6 188.5 282.7#

56 63.8 42.8 64.2

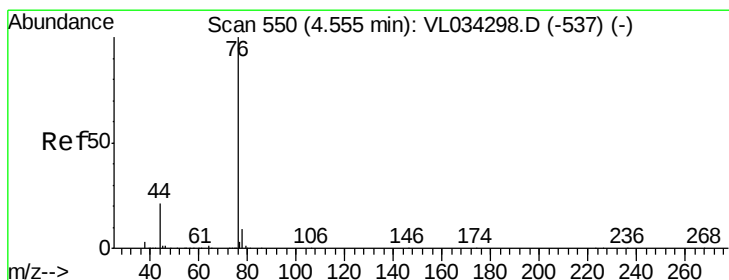
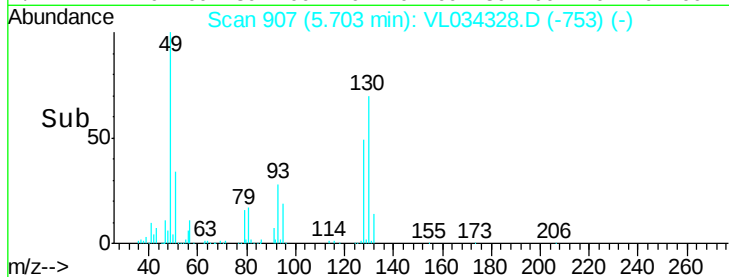
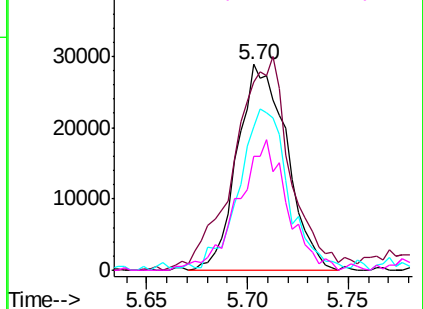


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.508 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.01 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

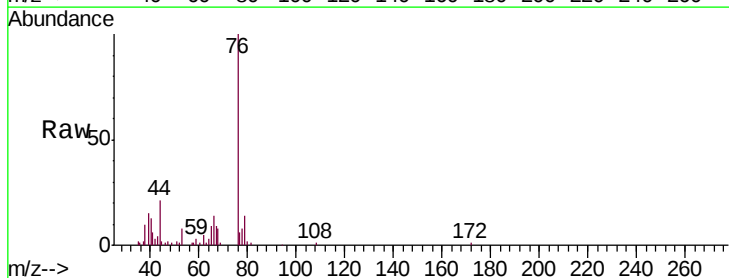
Tgt Ion: 76 Resp: 49773

Ion Ratio Lower Upper

76 100

44 34.8 17.3 25.9#

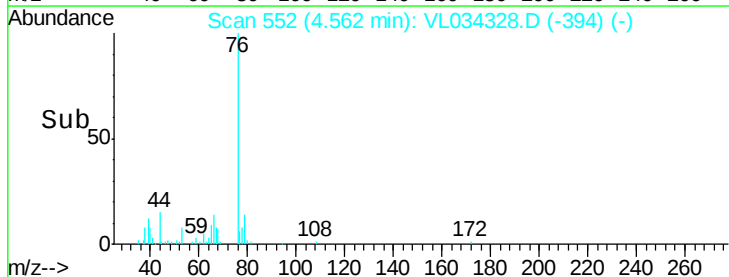
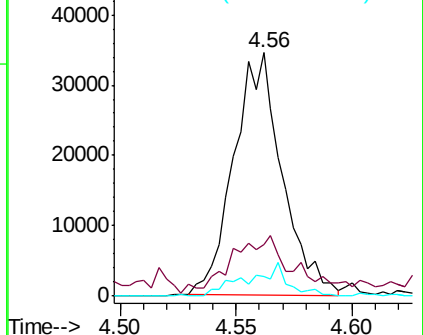
78 12.1 7.8 11.6#

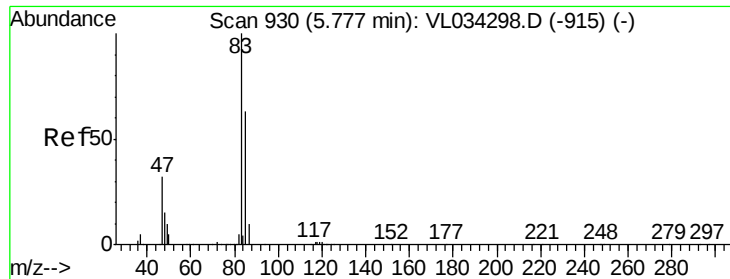


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.156 ppbv

RT: 5.77 min Scan# 929

Delta R.T. -0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

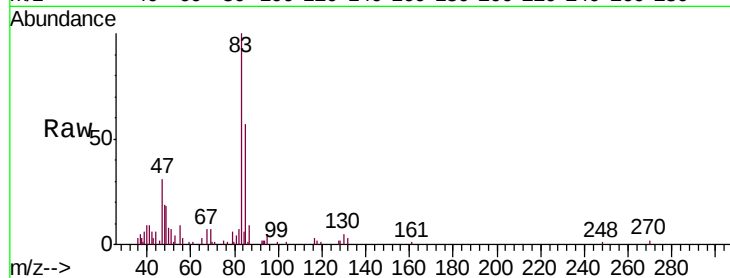
SV2DL

Tgt Ion: 83 Resp: 23267

Ion Ratio Lower Upper

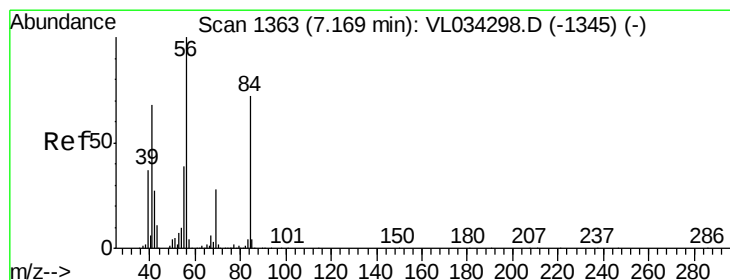
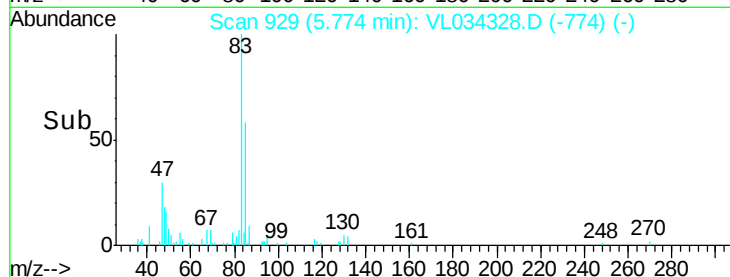
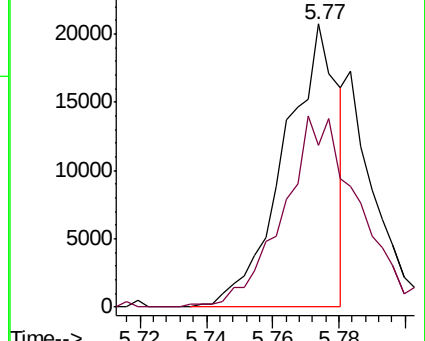
83 100

85 55.8 50.5 75.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.102 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

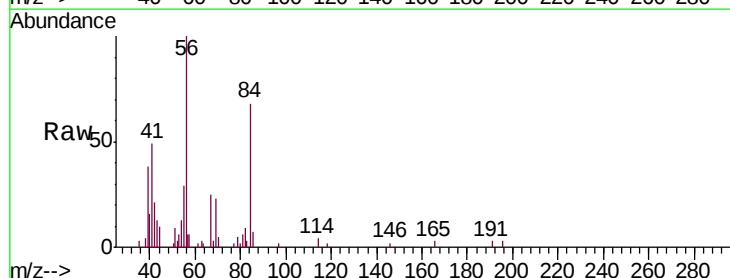
Tgt Ion: 84 Resp: 7096

Ion Ratio Lower Upper

84 100

56 0.0 119.4 179.0#

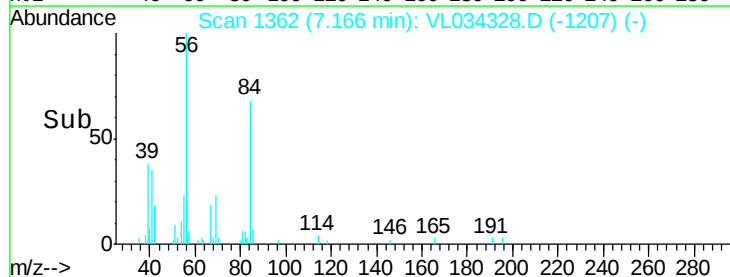
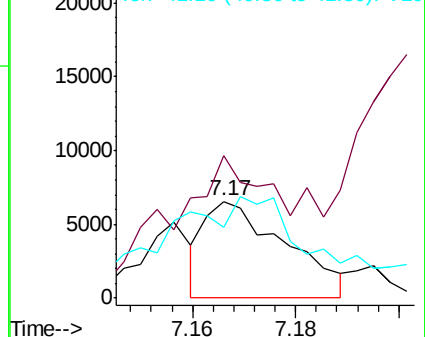
41 268.8 78.7 118.1#

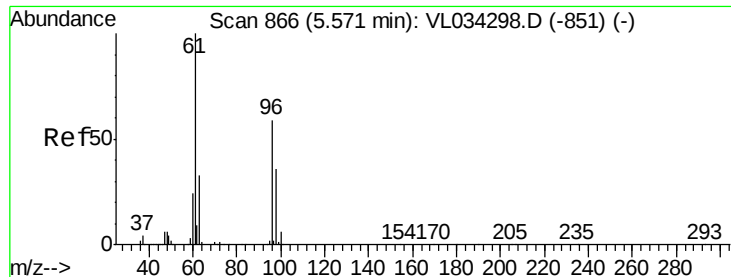


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.067 ppbv

RT: 5.56 min Scan# 864

Delta R.T. -0.01 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

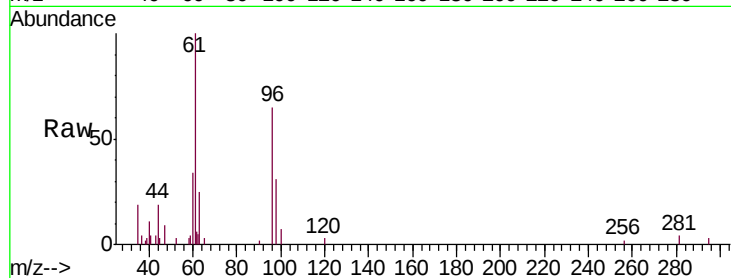
Tgt Ion: 61 Resp: 6377

Ion Ratio Lower Upper

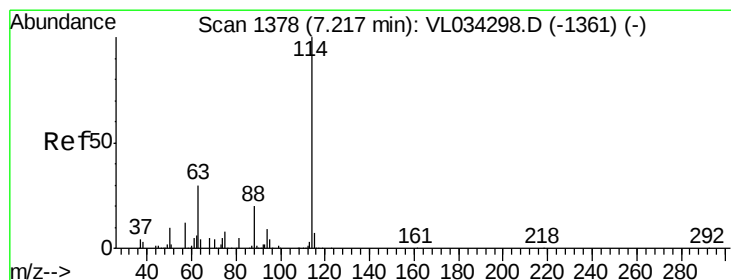
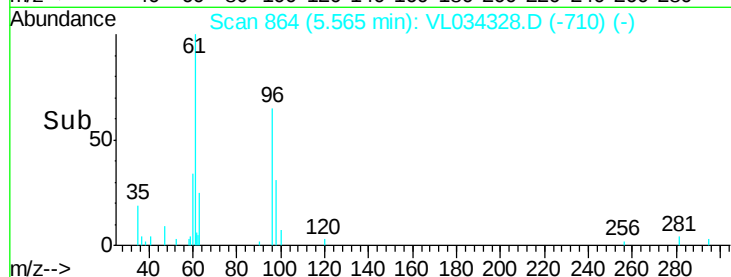
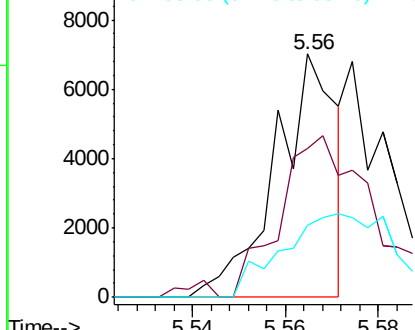
61 100

96 57.6 47.5 71.3

98 29.6 28.8 43.2



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

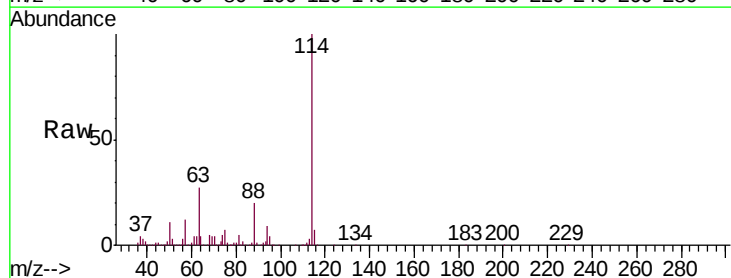
Tgt Ion: 114 Resp: 1958862

Ion Ratio Lower Upper

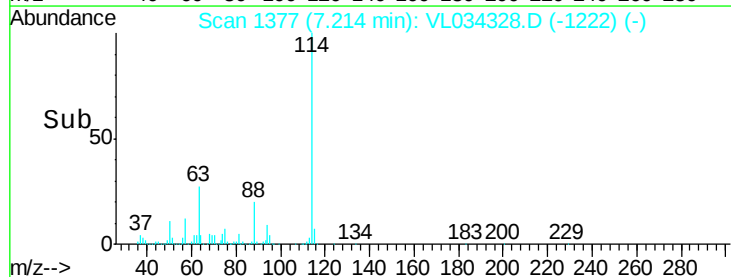
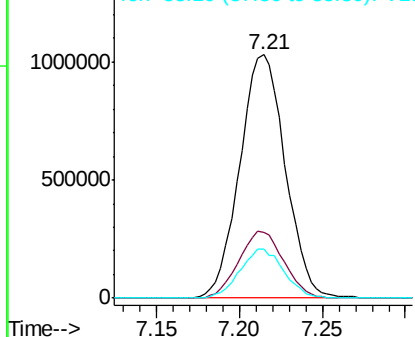
114 100

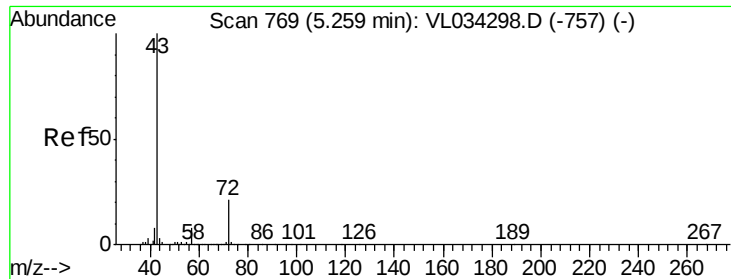
63 27.4 25.2 37.8

88 19.6 16.0 24.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

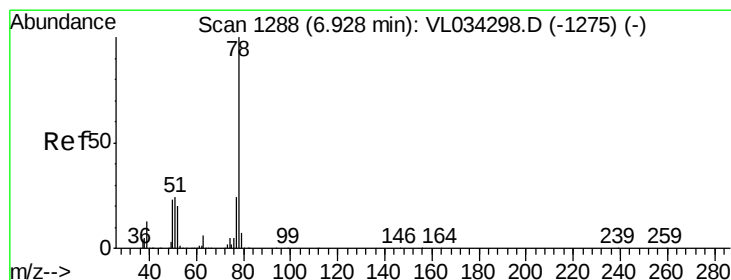
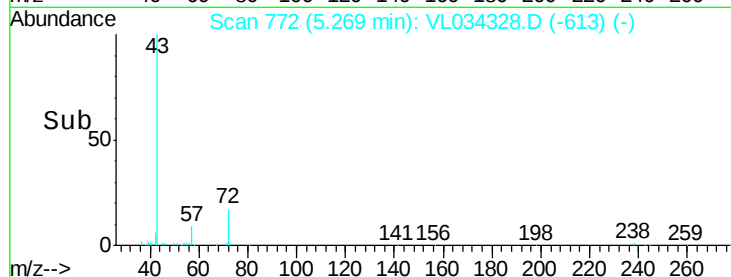
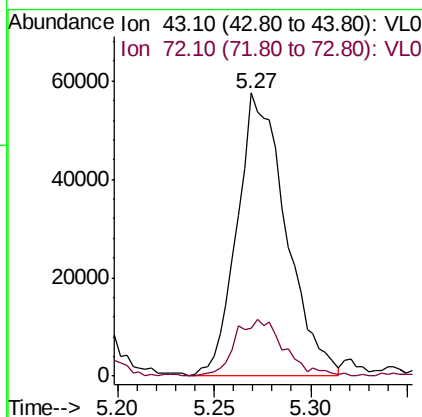
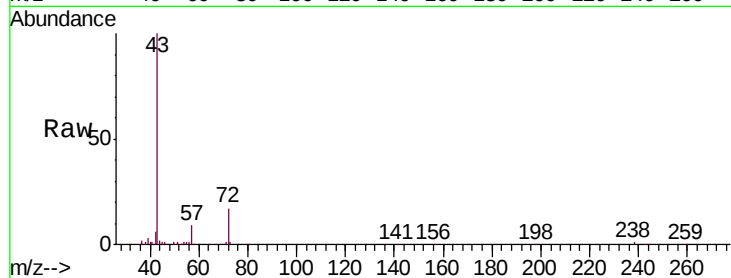




#34
 2-Butanone
 Concen: 0.630 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.01 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

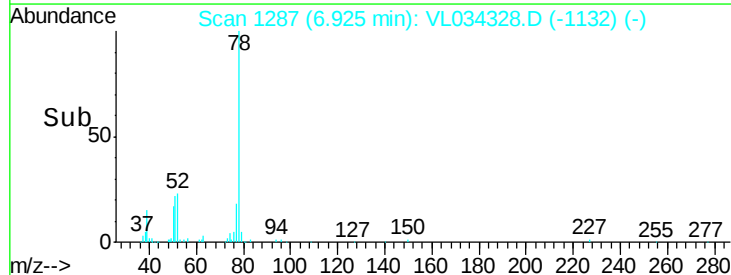
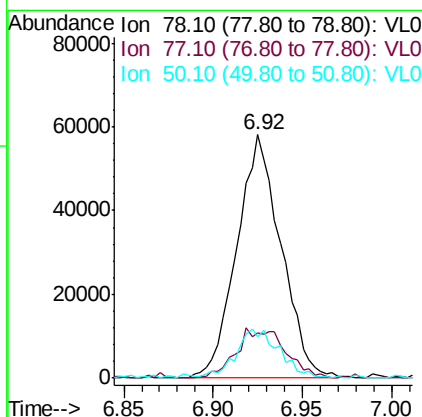
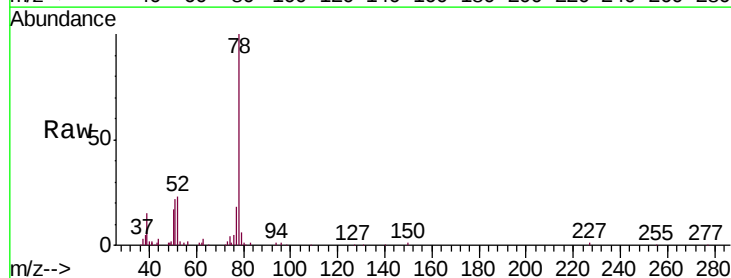
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

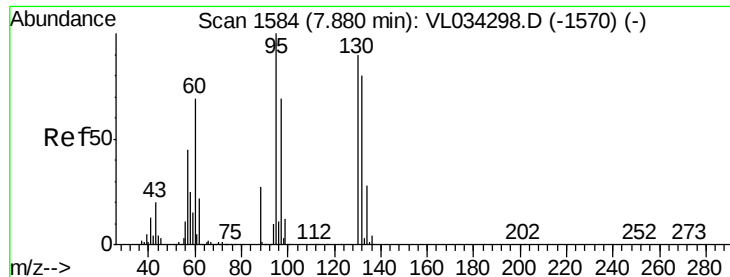
Tgt Ion: 43 Resp: 100828
 Ion Ratio Lower Upper
 43 100
 72 20.9 16.3 24.5



#36
 Benzene
 Concen: 0.535 ppbv
 RT: 6.92 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

Tgt Ion: 78 Resp: 100601
 Ion Ratio Lower Upper
 78 100
 77 18.4 19.0 28.4#
 50 16.6 18.6 27.8#

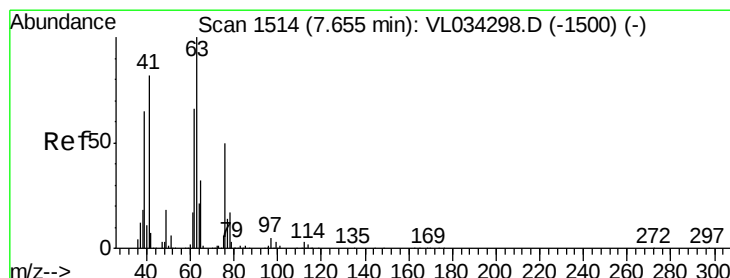
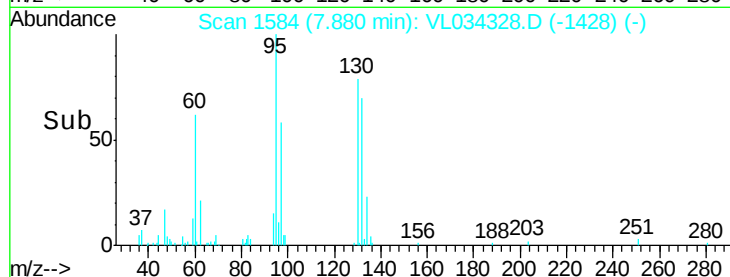
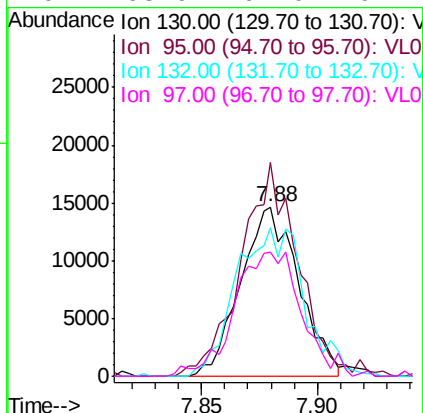
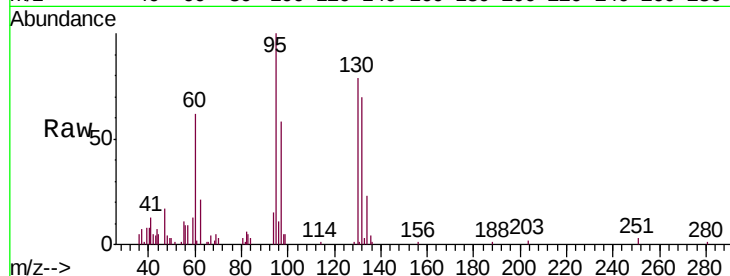




#38
 Trichloroethene
 Concen: 0.338 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

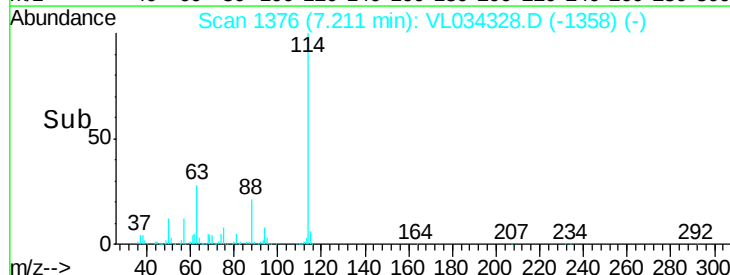
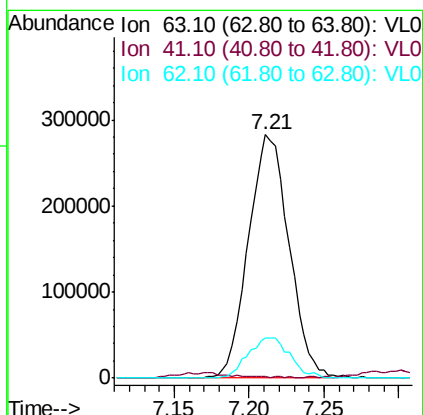
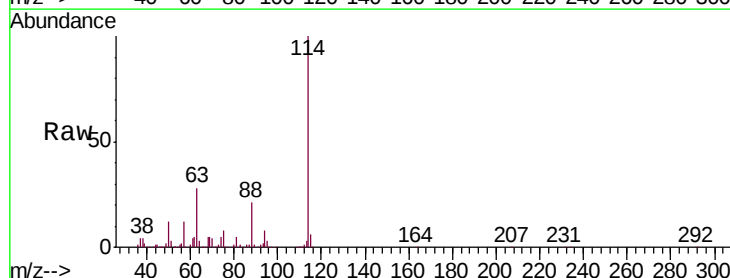
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

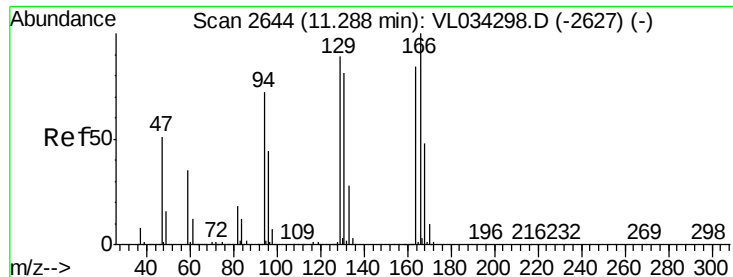
Tgt Ion:130 Resp: 25474
 Ion Ratio Lower Upper
 130 100
 95 119.2 88.6 132.8
 132 87.8 71.2 106.8
 97 68.9 61.0 91.4



#39
 1,2-Dichloropropane
 Concen: 6.601 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.44 min
 Lab File: VL034328.D
 Acq: 17 Oct 2019 22:41

Tgt Ion: 63 Resp: 534194
 Ion Ratio Lower Upper
 63 100
 41 0.1 65.6 98.4#
 62 16.3 53.0 79.6#





#52

Tetrachloroethene

Concen: 100.398 ppbv

RT: 11.30 min Scan# 2649

Delta R.T. 0.02 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:164 Resp: 7396393

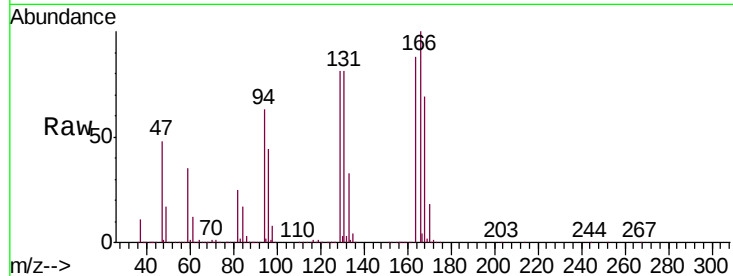
Ion Ratio Lower Upper

164 100

166 113.3 95.3 142.9

129 91.8 84.5 126.7

131 91.6 77.3 115.9

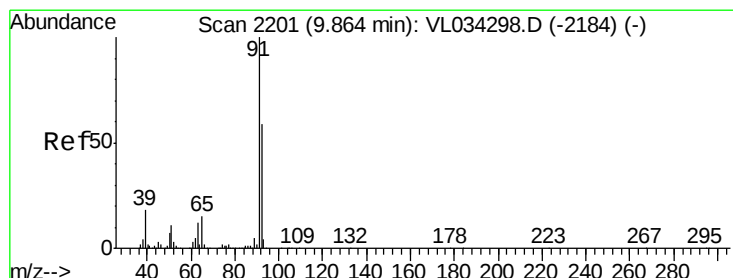
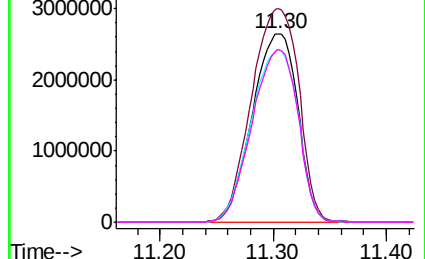
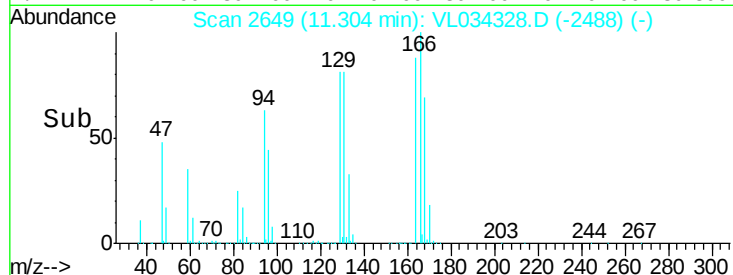


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.233 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VL034328.D

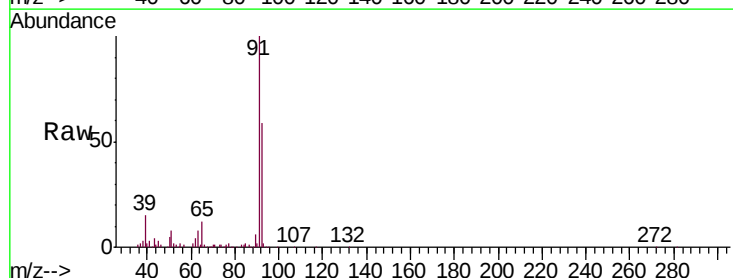
Acq: 17 Oct 2019 22:41

Tgt Ion: 91 Resp: 255738

Ion Ratio Lower Upper

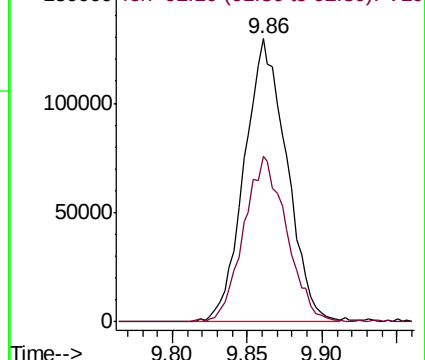
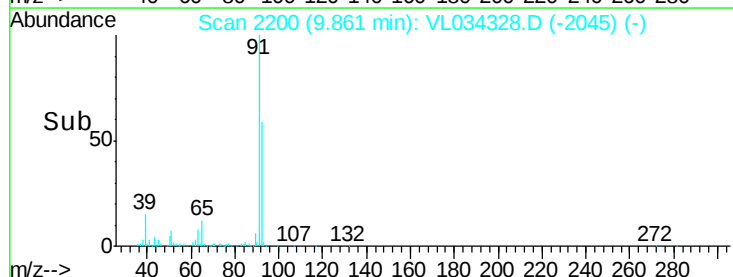
91 100

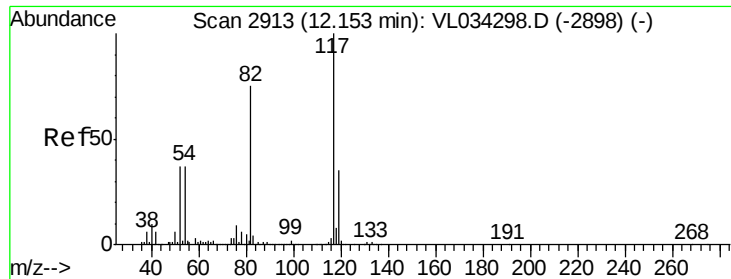
92 59.2 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

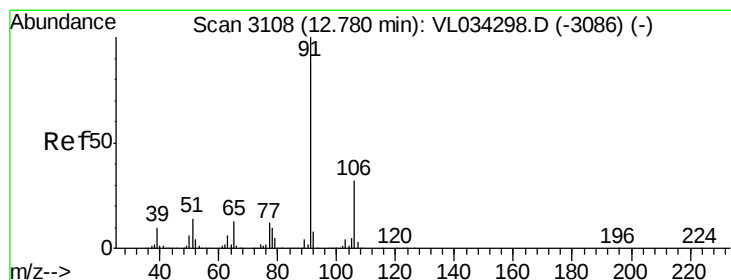
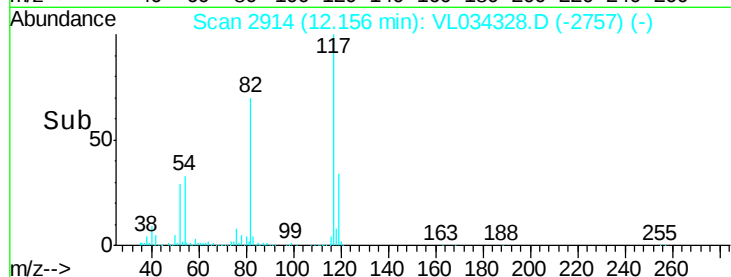
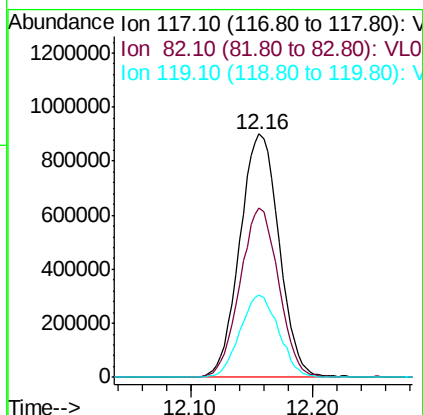
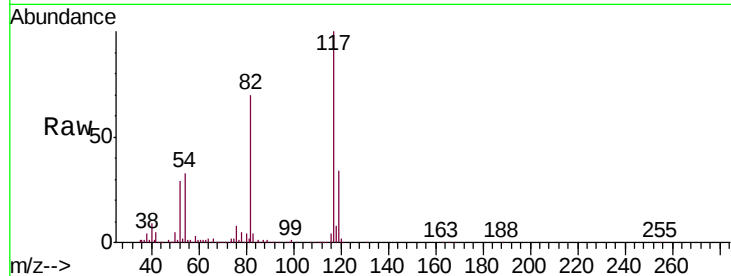




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

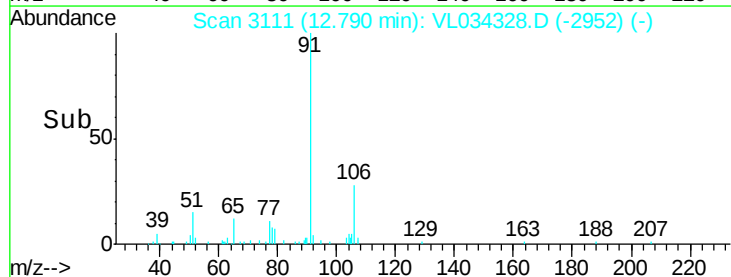
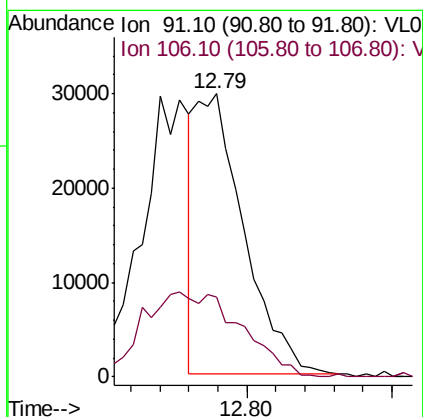
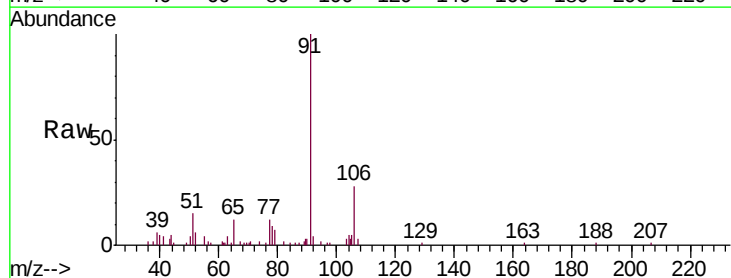
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

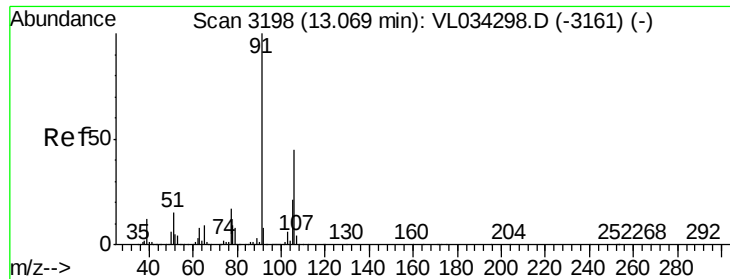
Tgt Ion: 117 Resp: 1998342
Ion Ratio Lower Upper
117 100
82 68.6 55.5 83.3
119 33.5 26.5 39.7



#58
Ethyl Benzene
Concen: 0.122 ppbv
RT: 12.79 min Scan# 3111
Delta R.T. 0.01 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion: 91 Resp: 34141
Ion Ratio Lower Upper
91 100
106 27.3 25.3 37.9

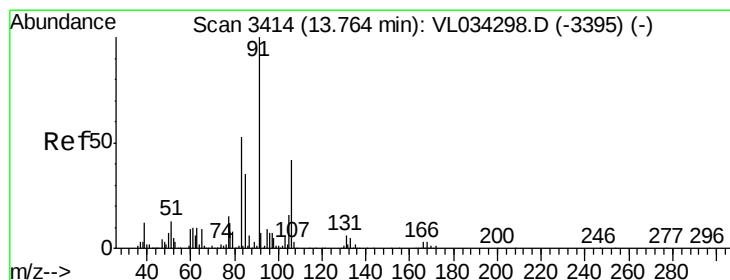
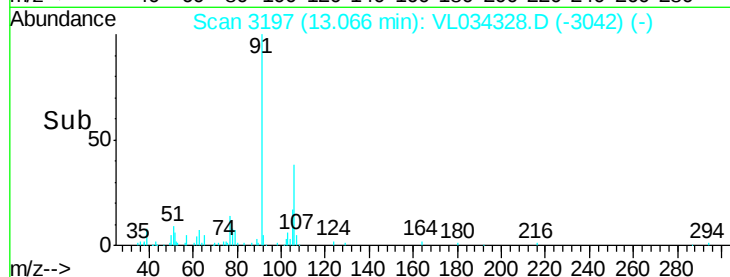
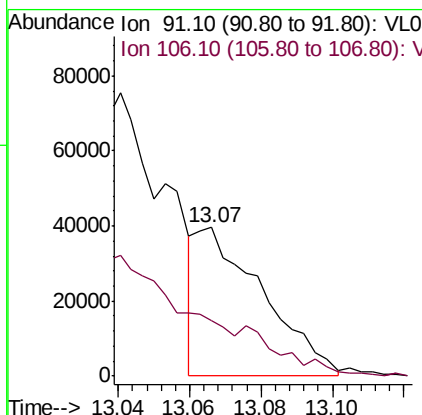
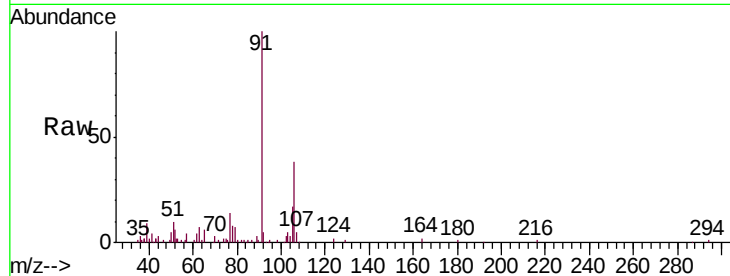




#59
m/p-Xylene
Concen: 0.209 ppbv
RT: 13.07 min Scan# 3197
Delta R.T. -0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

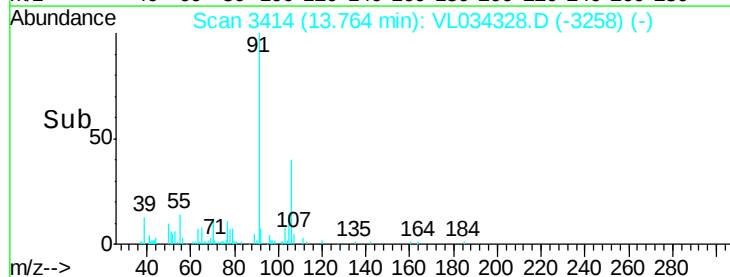
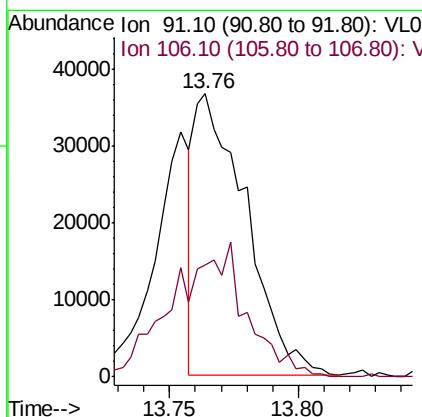
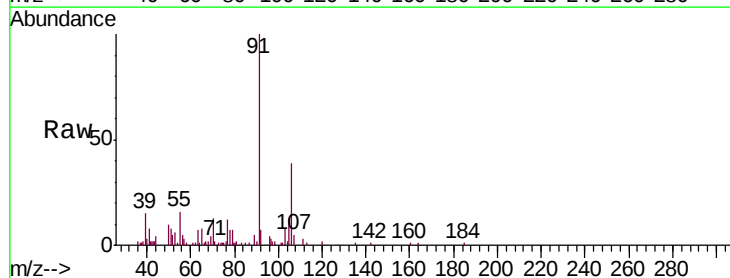
Instrument :
MSVOA_L
ClientSampleID :
SV2DL

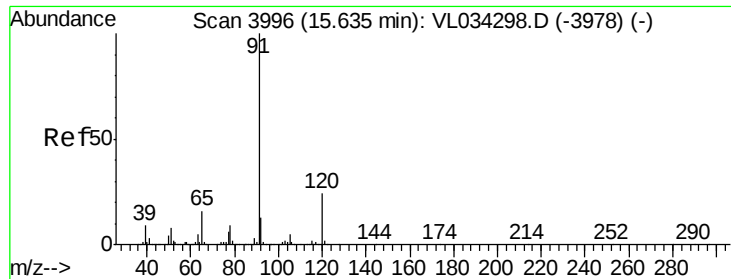
Tgt Ion: 91 Resp: 50581
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#



#60
o-Xylene
Concen: 0.209 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion: 91 Resp: 50327
Ion Ratio Lower Upper
91 100
106 68.3 21.6 64.6#

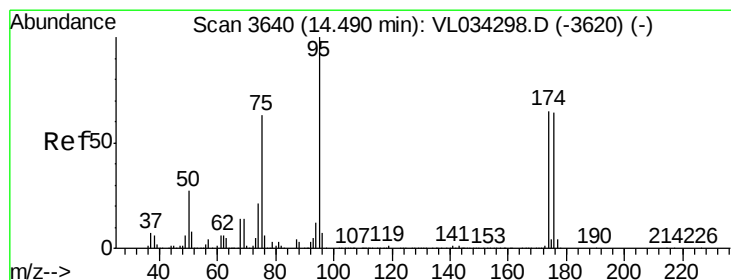
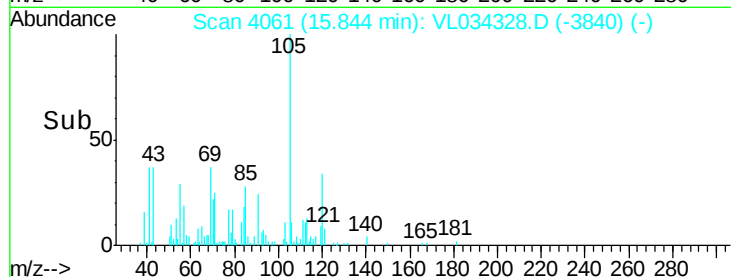
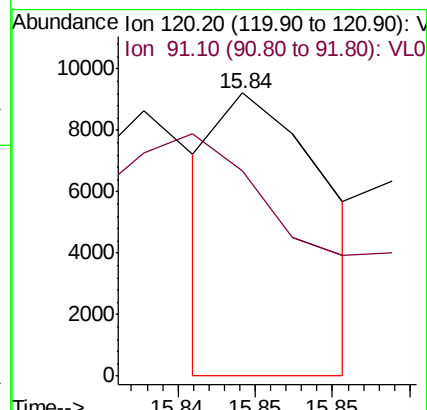
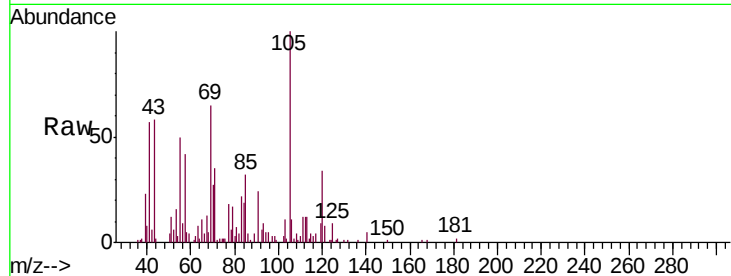




#64
n-propylbenzene
Concen: 0.054 ppbv
RT: 15.84 min Scan# 4061
Delta R.T. 0.21 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

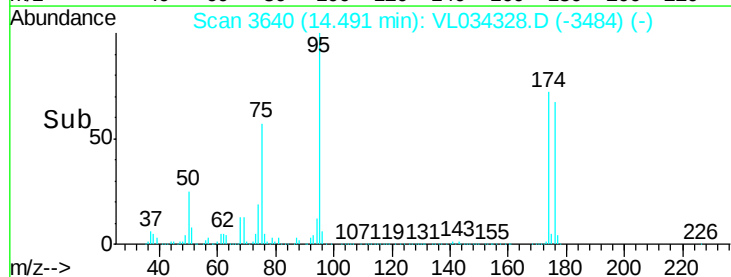
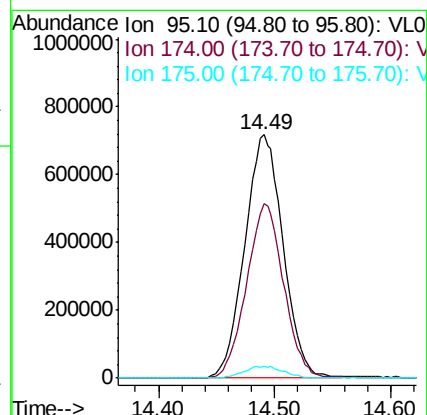
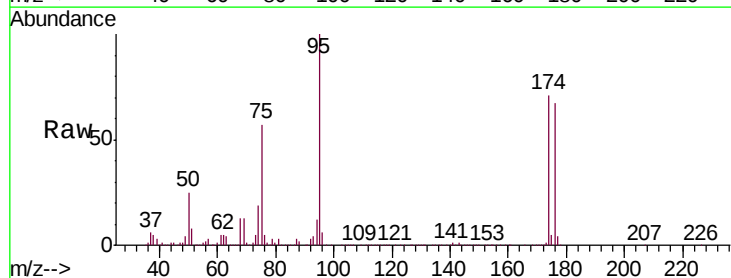
Instrument :
MSVOA_L
ClientSampled :
SV2DL

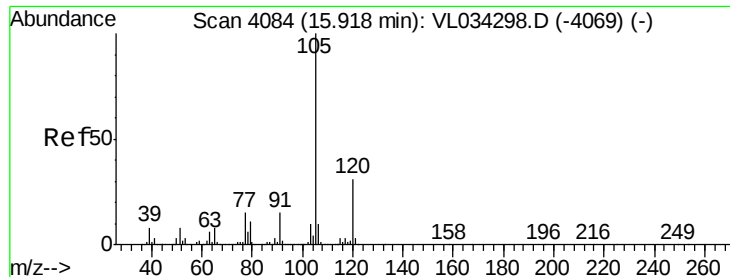
Tgt Ion: 120 Resp: 4398
Ion Ratio Lower Upper
120 100
91 375.8 374.9 562.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.756 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. 0.00 min
Lab File: VL034328.D
Acq: 17 Oct 2019 22:41

Tgt Ion: 95 Resp: 1651208
Ion Ratio Lower Upper
95 100
174 69.6 52.6 78.8
175 5.1 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.054 ppbv

RT: 15.91 min Scan# 4083

Delta R.T. -0.00 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

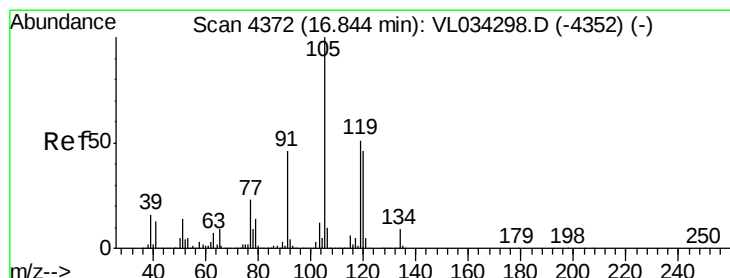
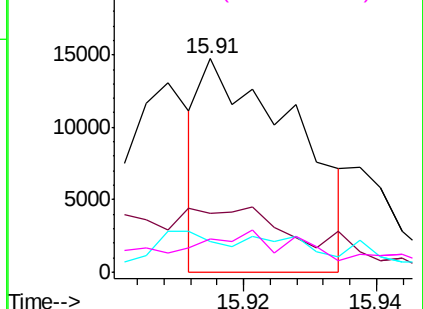
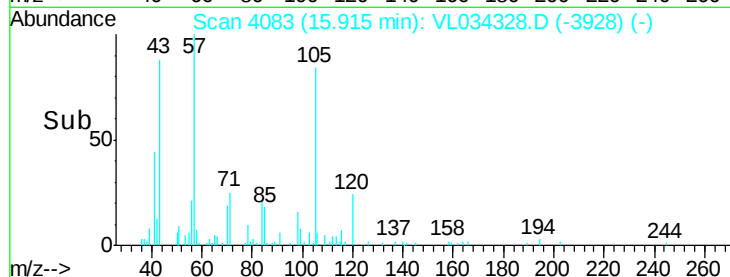
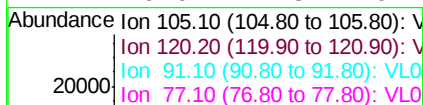
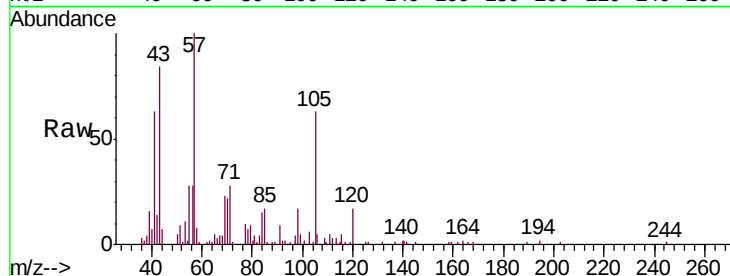
Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:	105	Resp:	14545
Ion Ratio	Lower	Upper	
105	100		
120	67.2	23.8	35.8#
91	0.0	11.2	16.8#
77	0.0	12.8	19.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.159 ppbv

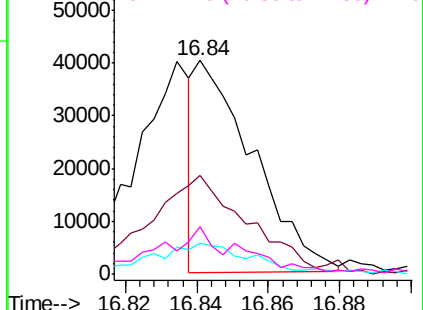
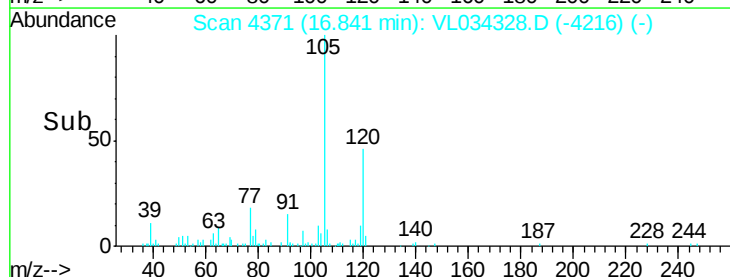
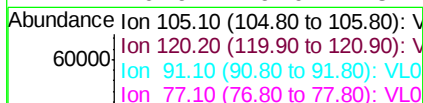
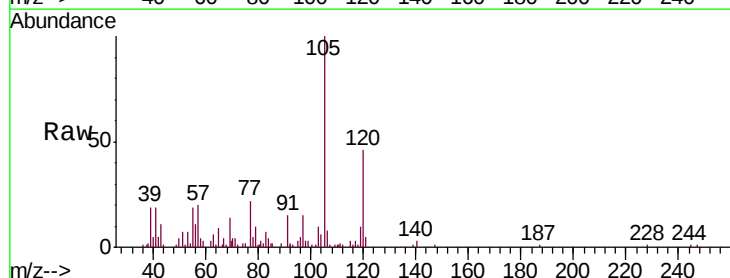
RT: 16.84 min Scan# 4371

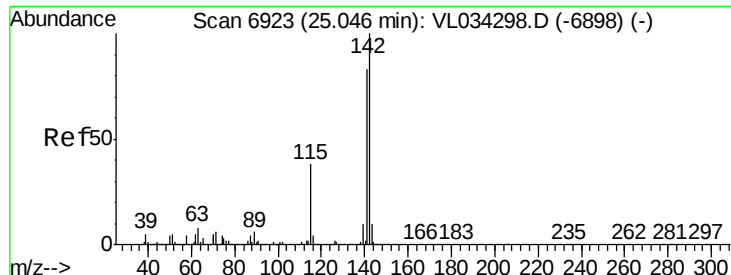
Delta R.T. -0.00 min

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Tgt Ion:	105	Resp:	44634
Ion Ratio	Lower	Upper	
105	100		
120	46.4	37.0	55.6
91	13.9	38.2	57.2#
77	20.9	19.0	28.4





#80

Naphthalene, 2-methyl-

Concen: 0.030 ppbv

RT: 25.04 min Scan# 6921

Delta R.T. -0.01 min

Lab File: VL034328.D

Acq: 17 Oct 2019 22:41

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

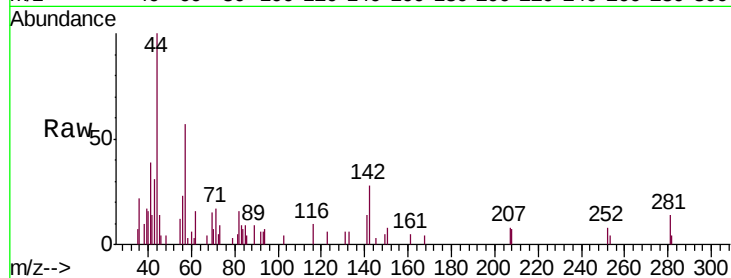
Tgt Ion:142 Resp: 1797

Ion Ratio Lower Upper

142 100

141 51.7 65.7 98.5#

115 22.8 30.9 46.3#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

