

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032180.D
 Acq On : 2 Jul 2018 13:49
 Operator : SY/AP
 Sample : J3601-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-D-CRAWL-SPACE

Manual Integrations
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 7/3/2018 5:17:07 PM

Quant Time: Jul 03 15:11:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1453977	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3773850	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3414798	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2644735	10.13	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	43432	0.23	ppbv	92
3) Chlorodifluoromethane	3.06	51	62589m	0.35	ppbv	
4) Chloromethane	3.23	50	52938	0.56	ppbv	99
9) Propene	3.10	41	47991m	0.58	ppbv	
10) Heptane	8.34	43	145872	0.60	ppbv	93
11) Trichlorofluoromethane	4.07	101	54583	0.26	ppbv	89
13) Ethanol	3.72	45	381051	15.18	ppbv	99
15) Acetone	3.97	43	1642815	9.66	ppbv	90
19) Isopropyl Alcohol	4.10	45	227327m	1.61	ppbv	
20) Methylene Chloride	4.48	84	130621	2.10	ppbv	98
26) Hexane	5.86	57	276661	1.71	ppbv	86
27) Carbon Disulfide	4.70	76	21868	0.14	ppbv #	39
30) Cyclohexane	7.34	84	74840	0.49	ppbv	95
34) 2-Butanone	5.41	43	321938	1.34	ppbv	98
35) Carbon Tetrachloride	7.22	117	18086m	0.07	ppbv	
36) Benzene	7.10	78	54583	0.15	ppbv #	91
44) 2,2,4-Trimethylpentane	8.08	57	82396m	0.13	ppbv	
50) 4-Methyl-2-Pentanone	8.97	43	512515	1.31	ppbv	100
52) Tetrachloroethene	11.47	164	18068m	0.14	ppbv	
53) Toluene	10.04	91	2667415	6.04	ppbv	98
58) Ethyl Benzene	12.96	91	361509	0.66	ppbv	99
59) m/p-Xylene	13.22	91	786985	1.78	ppbv	97
60) o-Xylene	13.95	91	368186	0.84	ppbv	95
61) Styrene	13.78	104	109156m	0.30	ppbv	
72) 4-Ethyltoluene	16.10	105	81127	0.14	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.26	105	88111m	0.16	ppbv	
74) 1,2,4-Trimethylbenzene	17.02	105	296502	0.55	ppbv #	74

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

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Sample : J3601-10
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

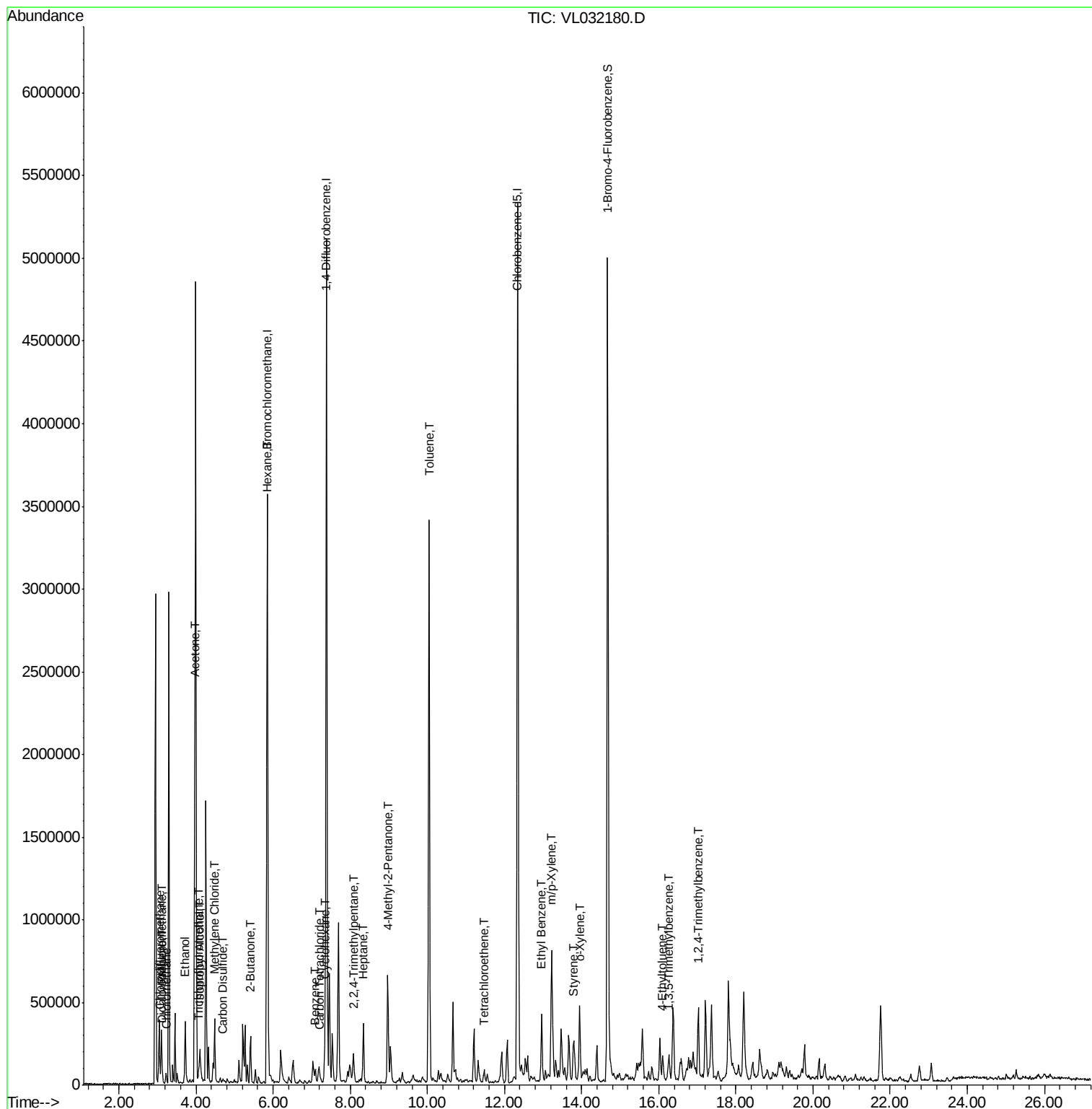
Instrument :
MSVOA_L

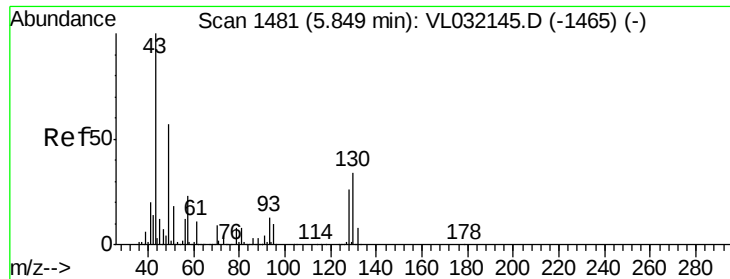
ClientSampleId :
RESIDENT-D-CRAWL-SPACE

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Quant Time: Jul 03 15:11:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

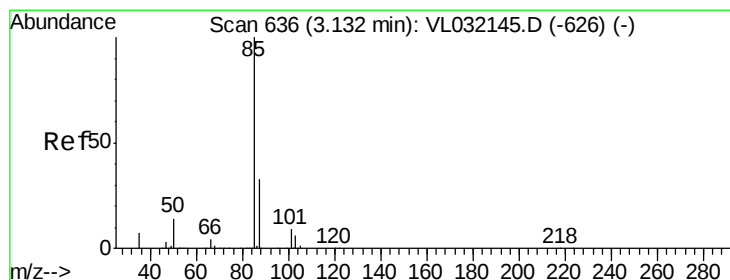
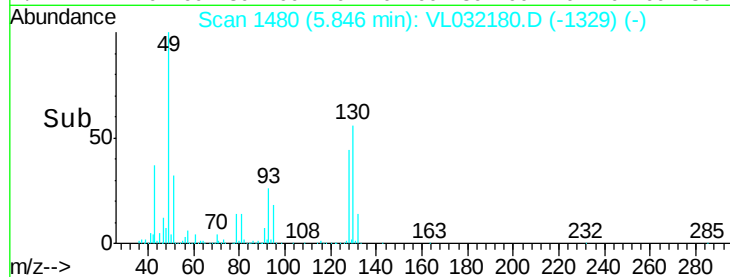
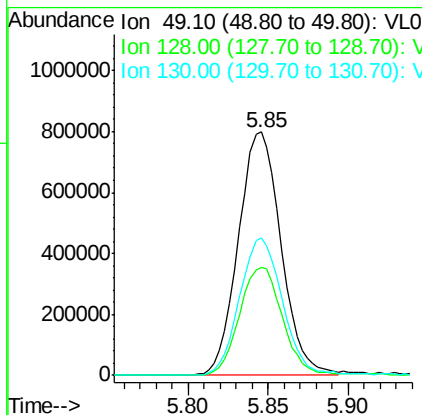
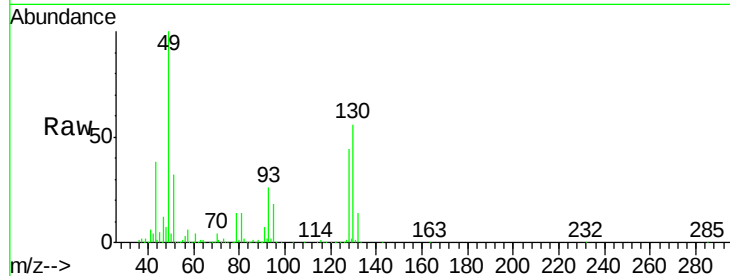
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.85 min Scan# 1480
 Delta R.T. -0.02 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-D-CRAWL-SPACE

Tot Ion: 49 Resp: 1453977
 Ion Ratio Lower Upper
 49 100
 128 45.6 23.4 70.0
 130 57.2 30.3 90.9

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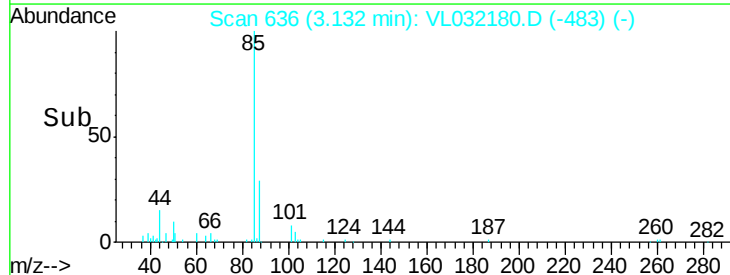
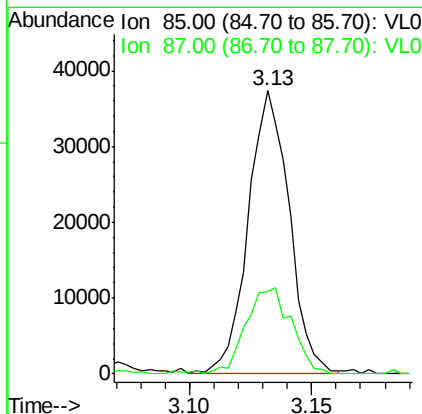
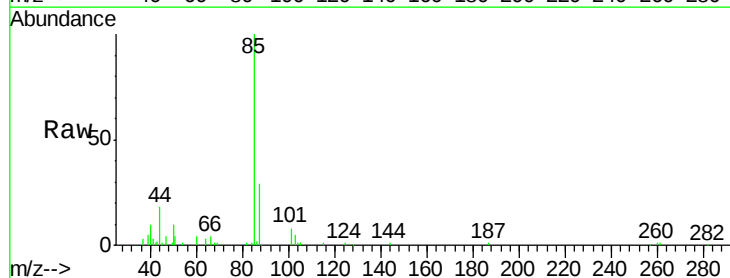
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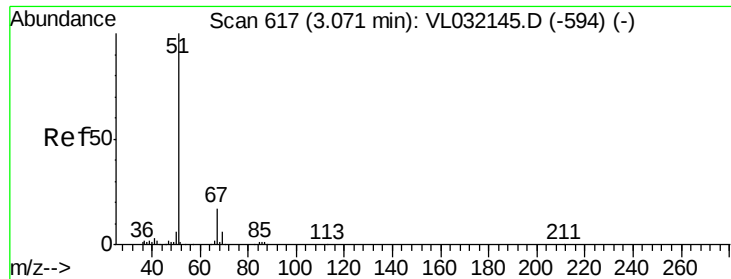


#2

Dichlorodifluoromethane
 Concen: 0.23 ppbv
 RT: 3.13 min Scan# 636
 Delta R.T. -0.01 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Tgt Ion: 85 Resp: 43432
 Ion Ratio Lower Upper
 85 100
 87 29.0 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.35 ppbv m

RT: 3.06 min Scan# 615

Delta R.T. -0.01 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-D-CRAWL-SPACE

Tot Ion: 51 Resp: 62589

Ion Ratio Lower Upper

51 100

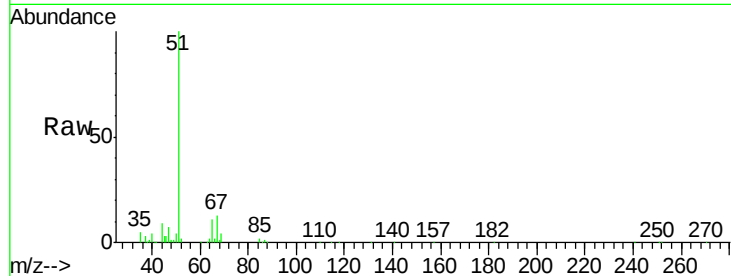
67 25.8 13.2 19.8#

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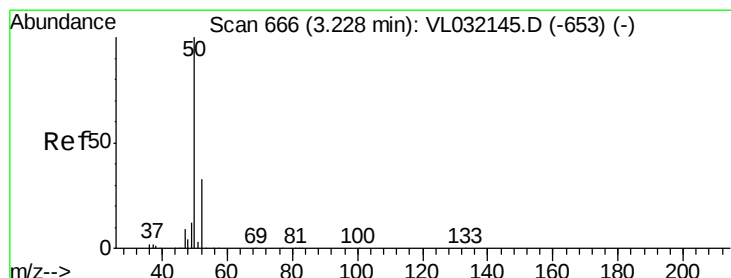
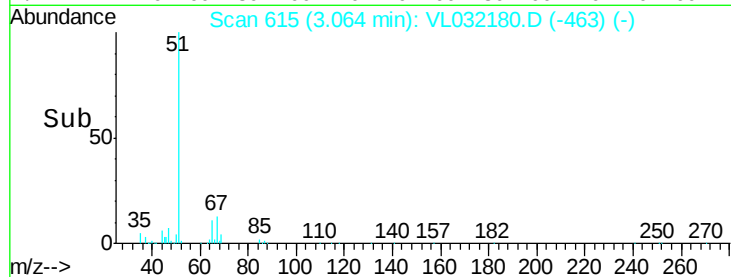
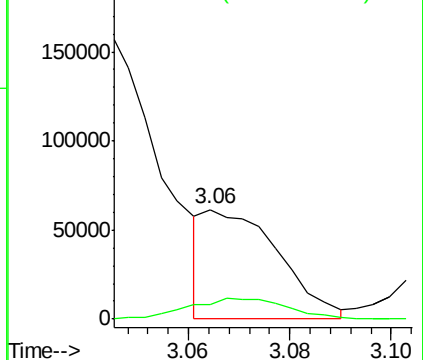
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.56 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032180.D

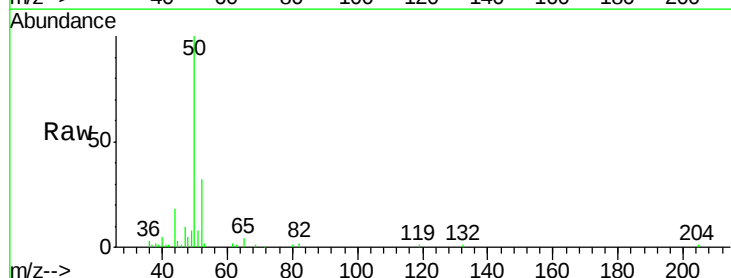
Acq: 2 Jul 2018 13:49

Tgt Ion: 50 Resp: 52938

Ion Ratio Lower Upper

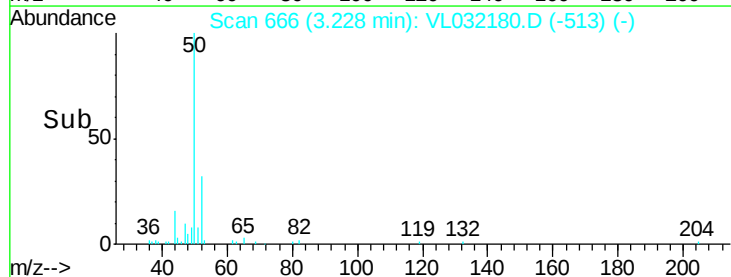
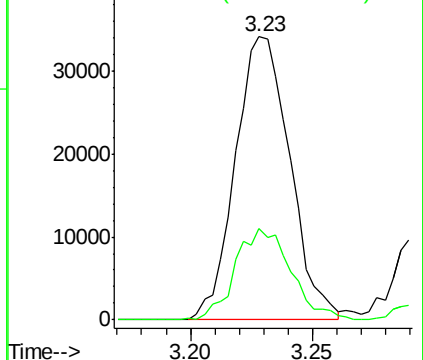
50 100

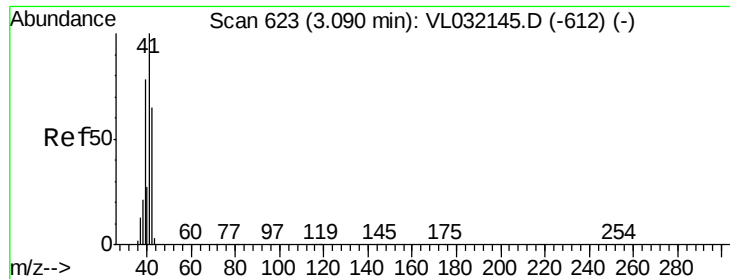
52 31.7 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

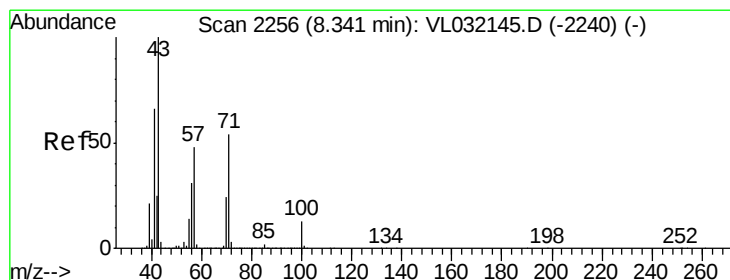
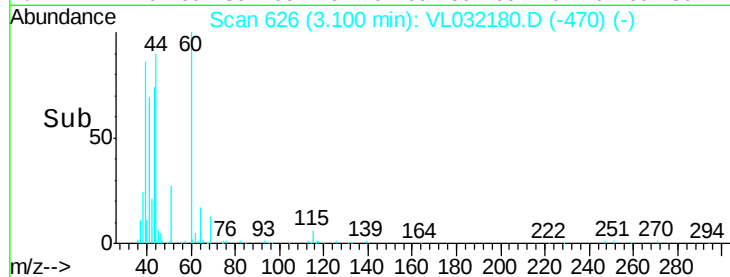
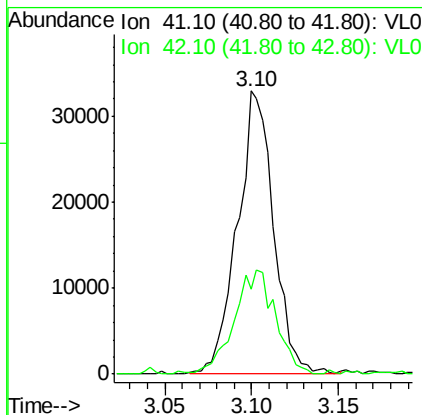
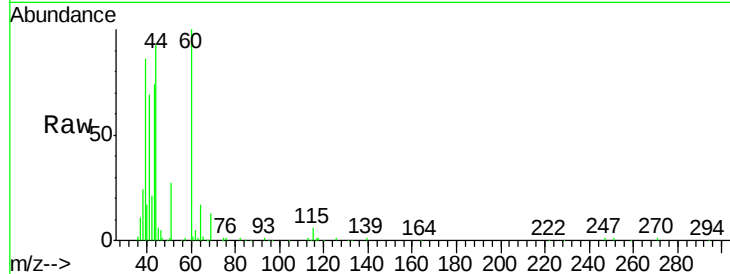
Concen: 0.58 ppbv m
 RT: 3.10 min Scan# 626
 Delta R.T. 0.00 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-D-CRAWL-SPACE

Tot Ion: 41 Resp: 47991
 Ion Ratio Lower Upper
 41 100
 42 1113.7 56.2 84.4

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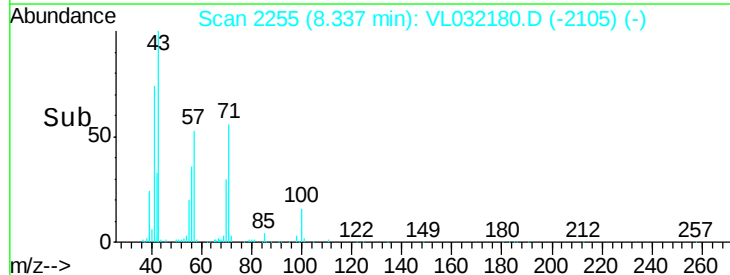
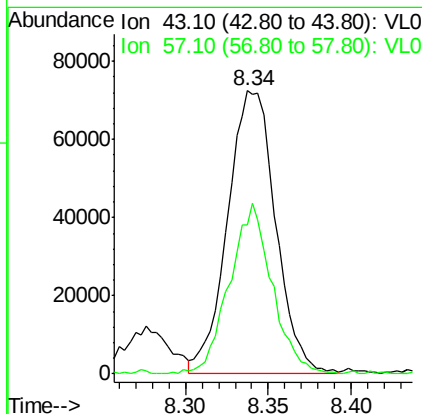
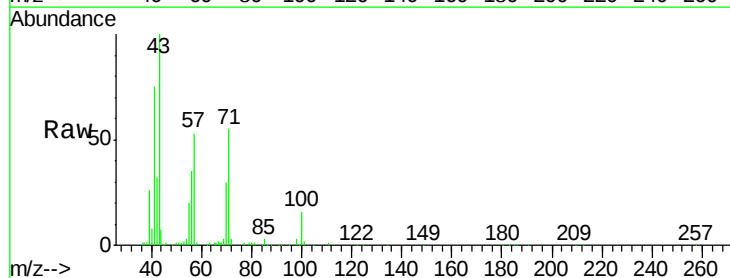


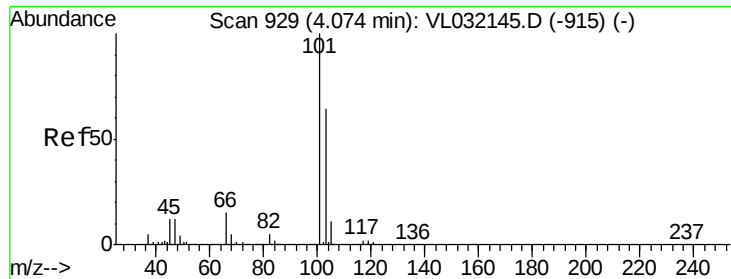
#10

Heptane

Concen: 0.60 ppbv
 RT: 8.34 min Scan# 2255
 Delta R.T. -0.02 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Tgt Ion: 43 Resp: 145872
 Ion Ratio Lower Upper
 43 100
 57 54.5 39.8 59.8





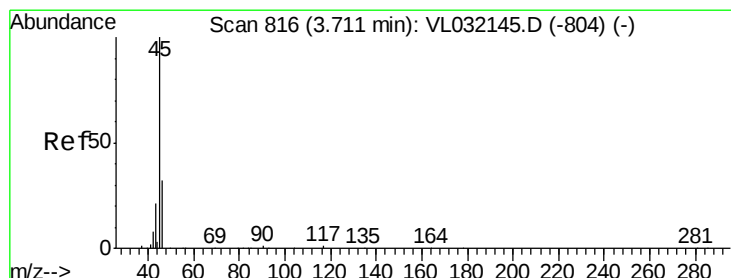
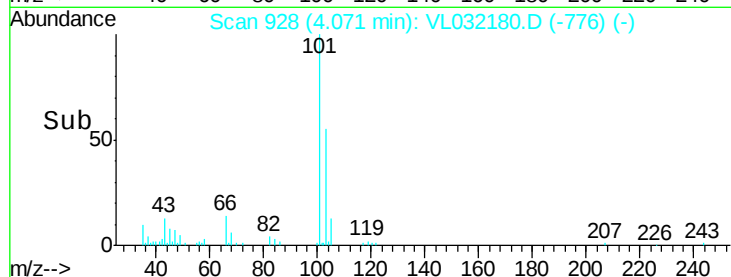
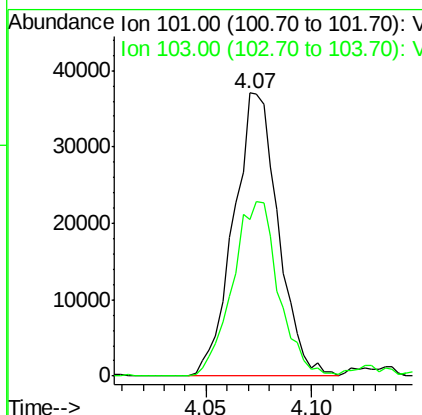
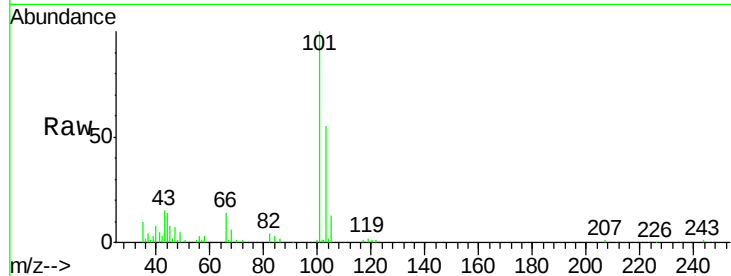
#11
 Trichlorofluoromethane
 Concen: 0.26 ppbv
 RT: 4.07 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-D-CRAWL-SPACE

Tot Ion:101 Resp: 54583
 Ion Ratio Lower Upper
 101 100
 103 55.4 51.4 77.0

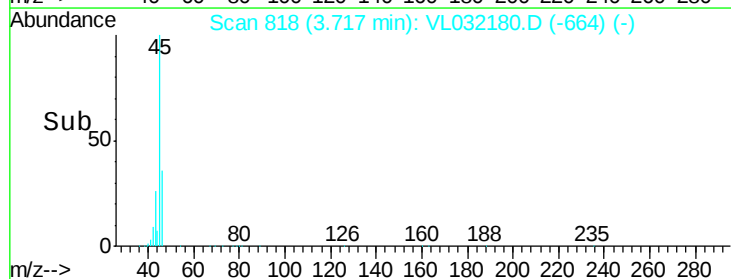
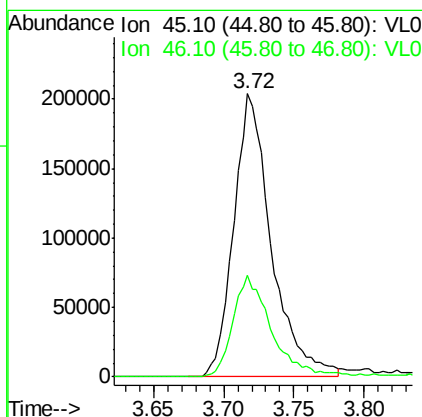
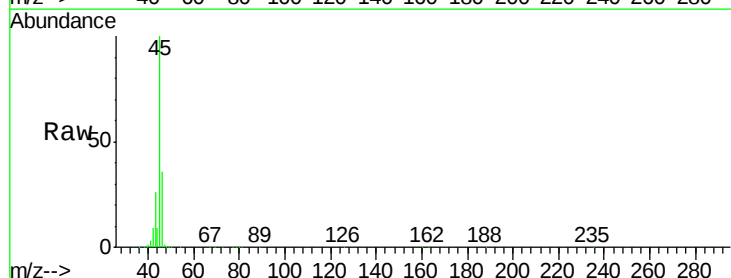
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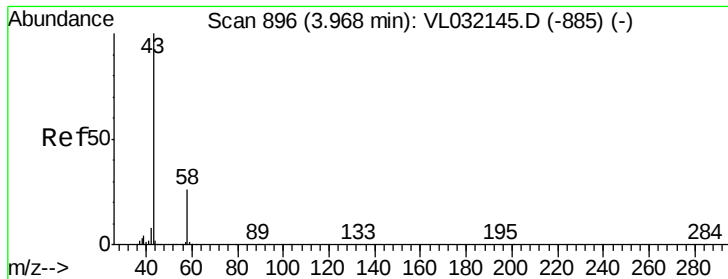
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#13
 Ethanol
 Concen: 15.18 ppbv
 RT: 3.72 min Scan# 818
 Delta R.T. -0.01 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Tgt Ion: 45 Resp: 381051
 Ion Ratio Lower Upper
 45 100
 46 37.3 14.6 58.4





#15

Acetone

Concen: 9.66 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-D-CRAWL-SPACE

Tot Ion: 43 Resp: 1642815

Ion Ratio Lower Upper

43 100

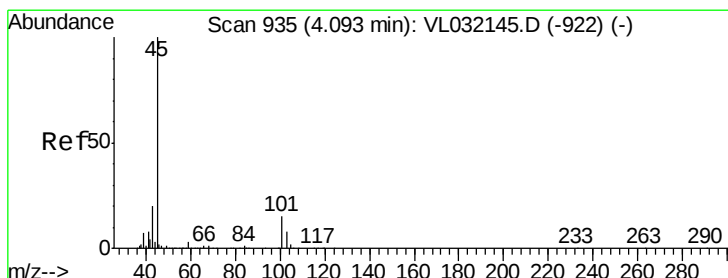
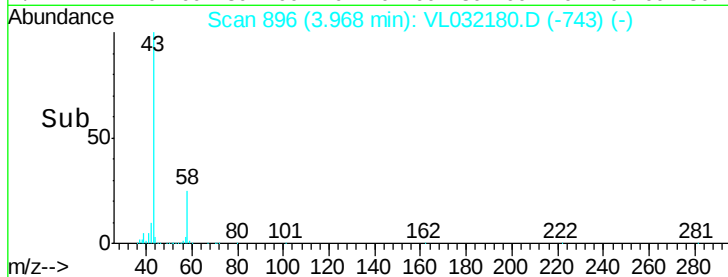
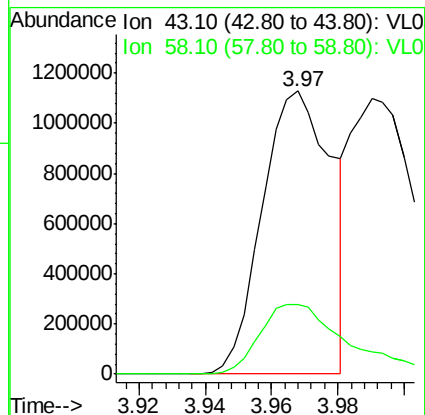
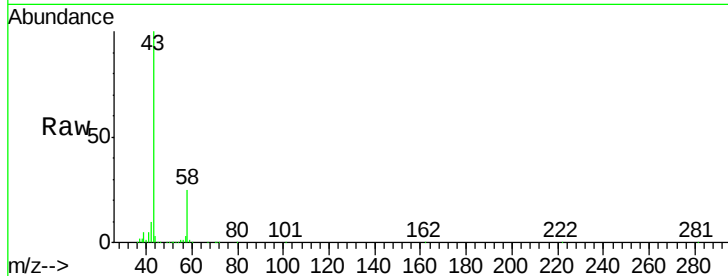
58 31.6 21.4 32.0

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#19

Isopropyl Alcohol

Concen: 1.61 ppbv m

RT: 4.10 min Scan# 936

Delta R.T. -0.01 min

Lab File: VL032180.D

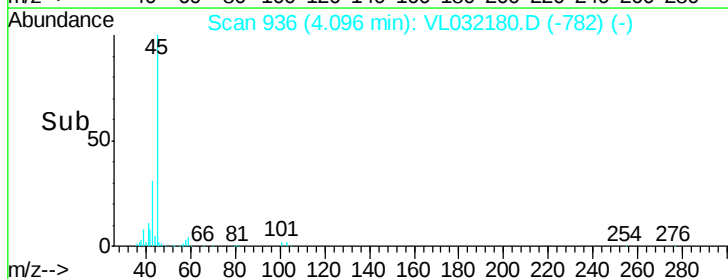
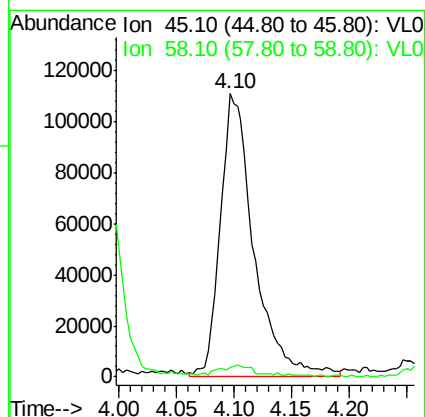
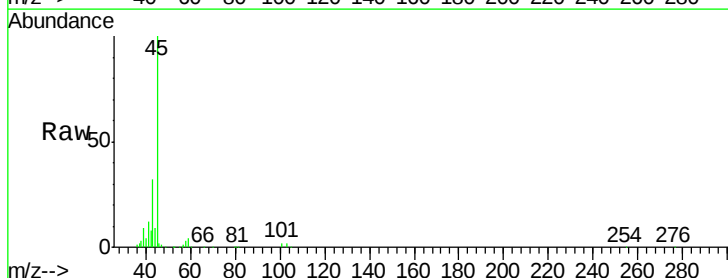
Acq: 2 Jul 2018 13:49

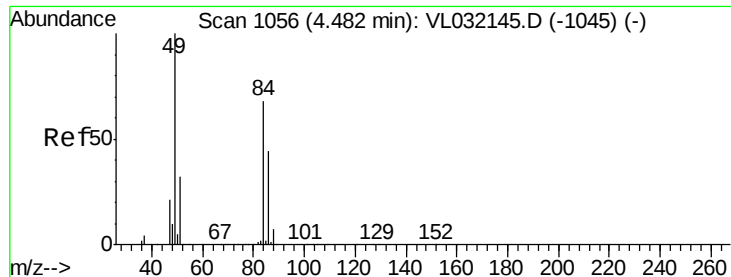
Tgt Ion: 45 Resp: 227327

Ion Ratio Lower Upper

45 100

58 0.0 29.4 44.0#





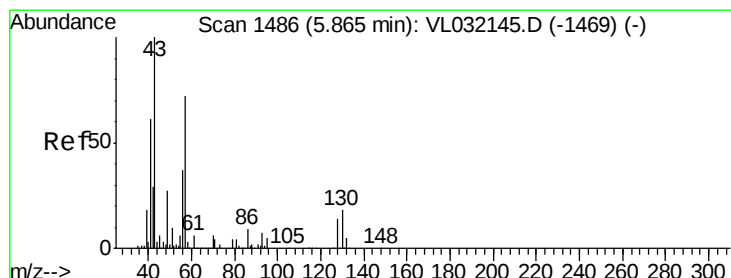
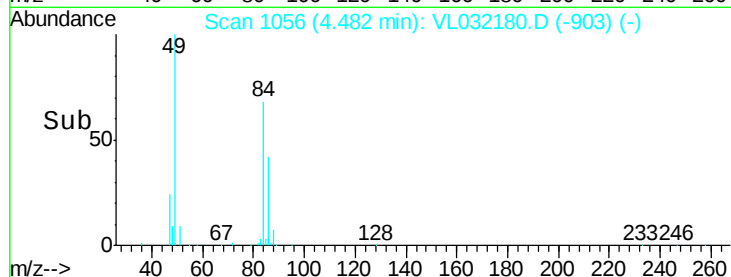
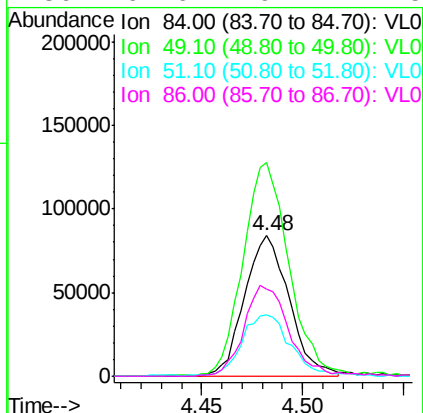
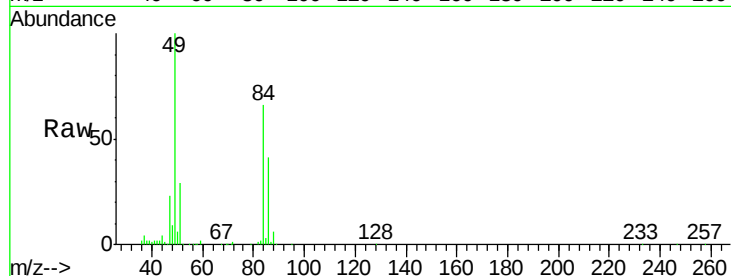
#20
Methvlene Chloride
Concen: 2.10 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-D-CRAWL-SPACE

Tot Ion:	84	Resp:	130621
Ion	Ratio	Lower	Upper
84	100		
49	151.0	119.6	179.4
51	42.8	36.3	54.5
86	61.6	49.7	74.5

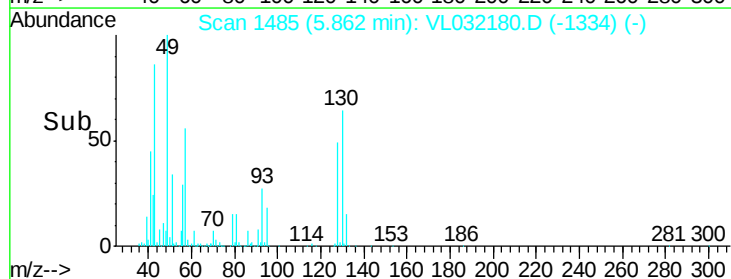
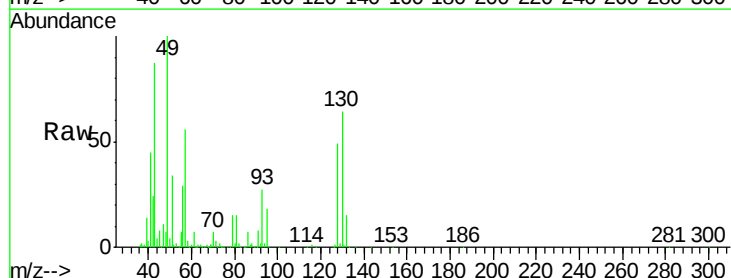
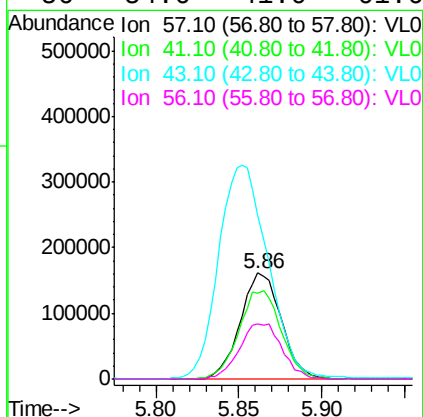
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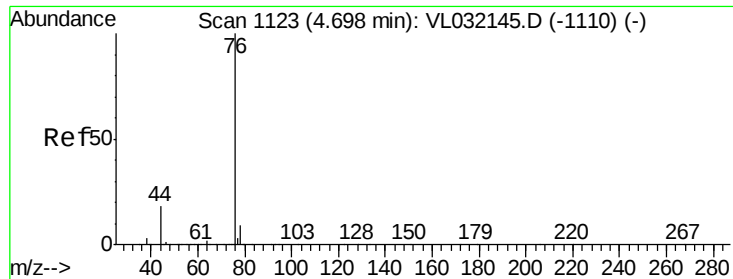
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#26
Hexane
Concen: 1.71 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Tgt Ion:	57	Resp:	276661
Ion	Ratio	Lower	Upper
57	100		
41	87.3	68.6	103.0
43	244.8	168.6	252.8
56	54.6	41.0	61.6





#27

Carbon Disulfide

Concen: 0.14 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Instrument :

MSVOA_L

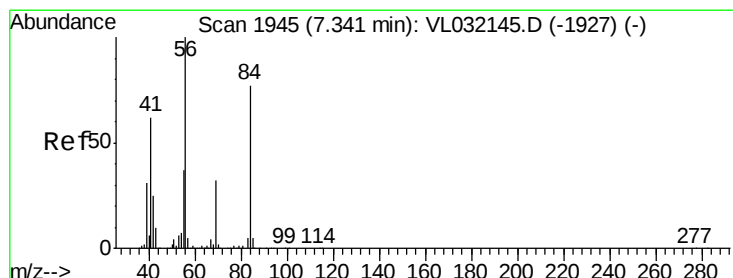
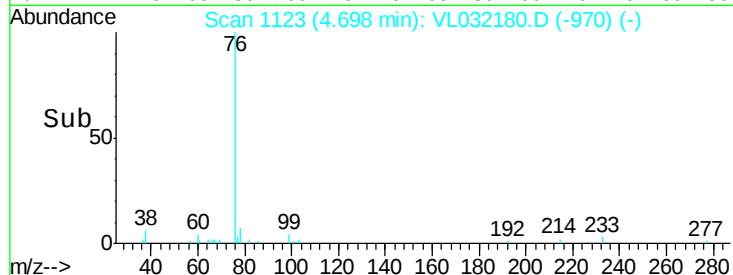
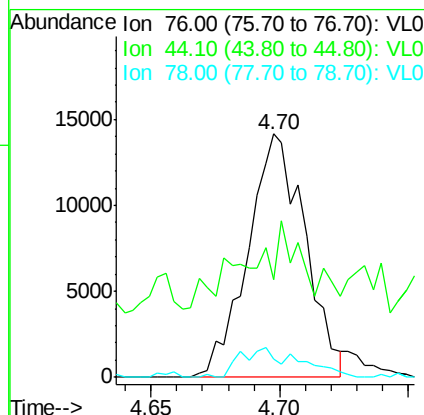
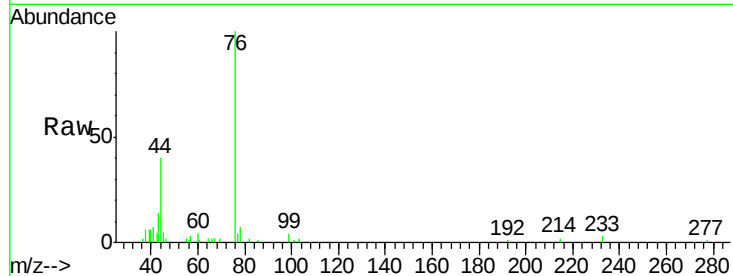
ClientSampleId :

RESIDENT-D-CRAWL-SPACE

Tot Ion:	76	Resp:	21868
Ion	Ratio	Lower	Upper
76	100		
44	57.0	15.1	22.7#
78	13.2	7.2	10.8#

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#30

Cyclohexane

Concen: 0.49 ppbv

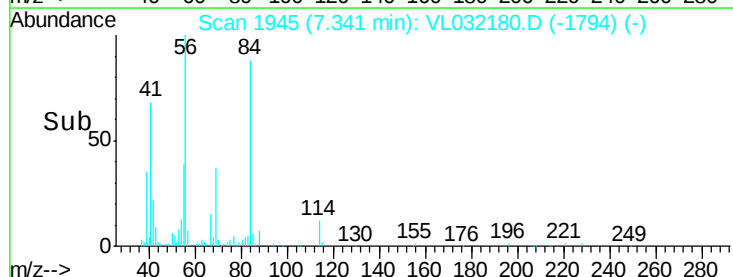
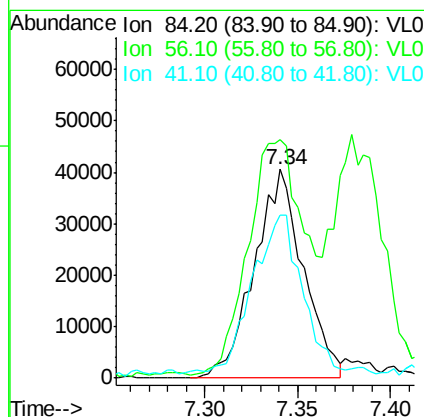
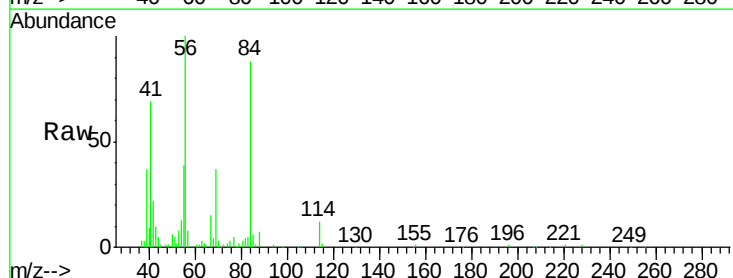
RT: 7.34 min Scan# 1945

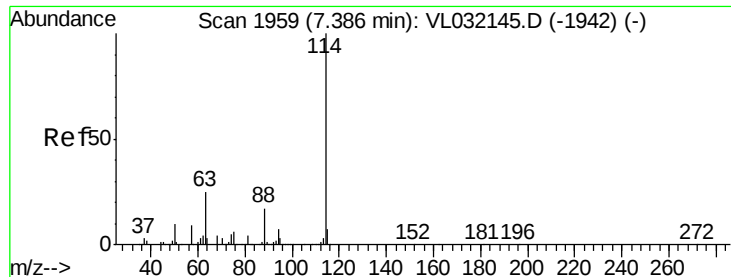
Delta R.T. -0.02 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Tgt Ion:	84	Resp:	74840
Ion	Ratio	Lower	Upper
84	100		
56	129.7	109.1	163.7
41	76.5	64.6	96.8





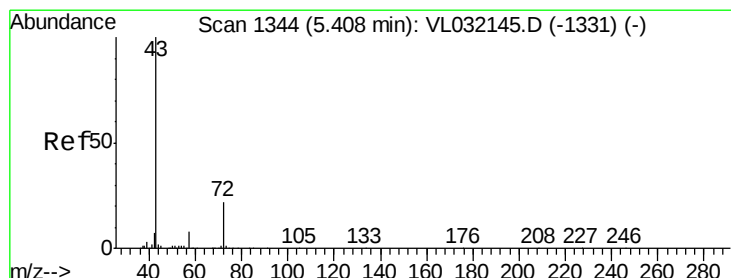
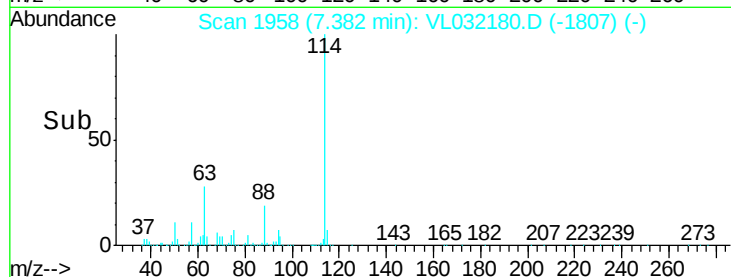
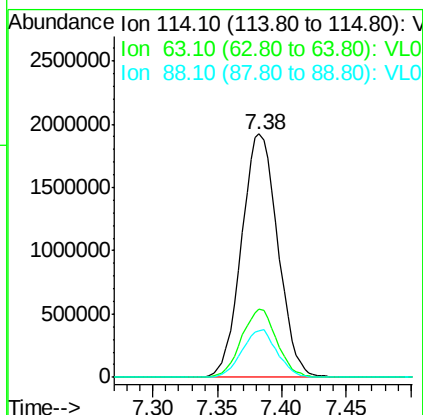
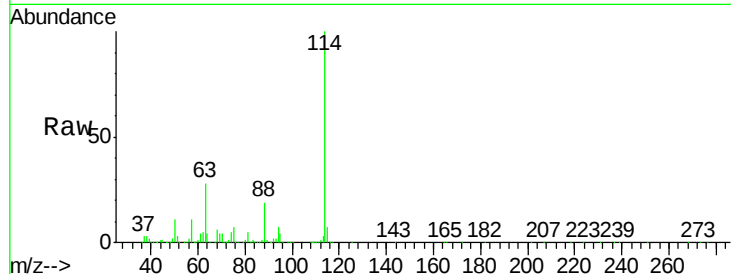
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-D-CRAWL-SPACE

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	19.1	28.7
88	19.1	13.9	20.9

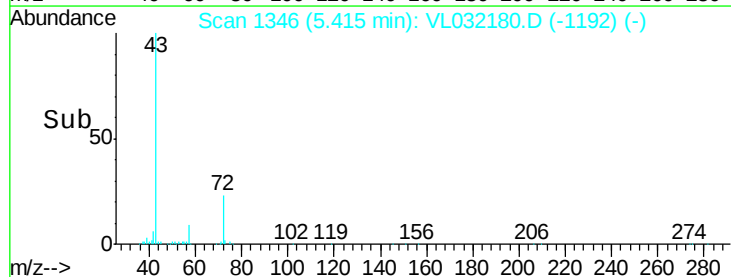
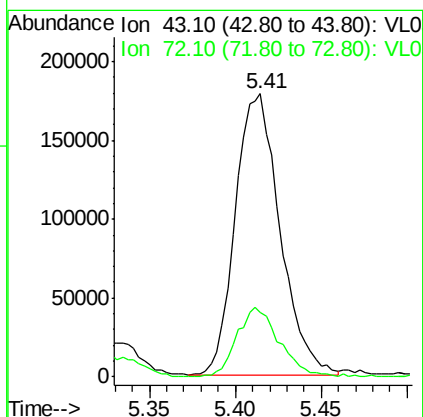
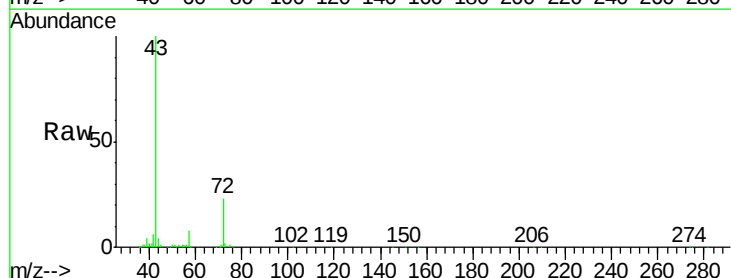
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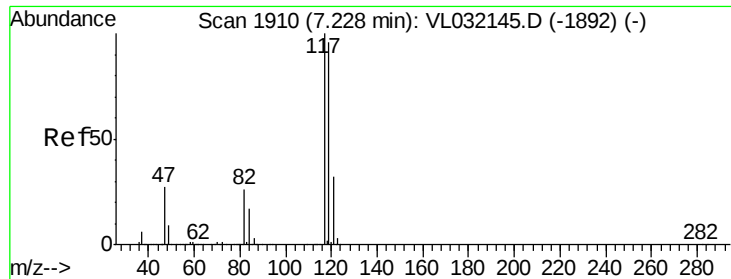
MMDadoda
 7/3/2018 5:17:07 PM



#34
 2-Butanone
 Concen: 1.34 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.4	27.6





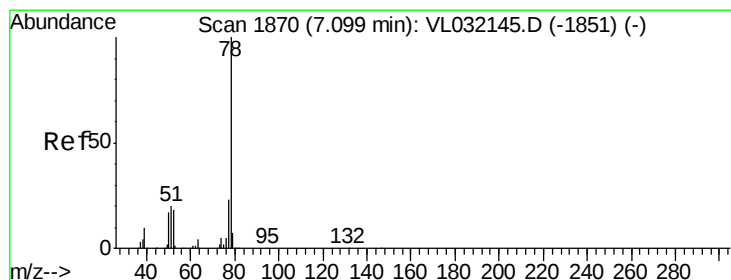
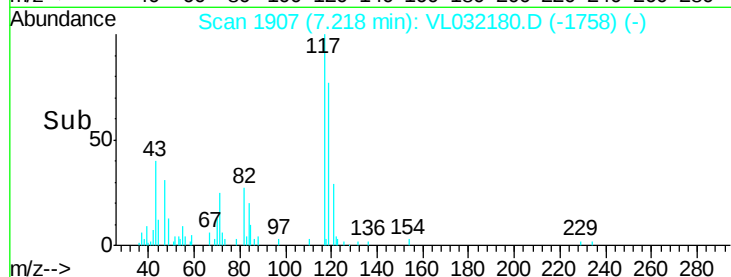
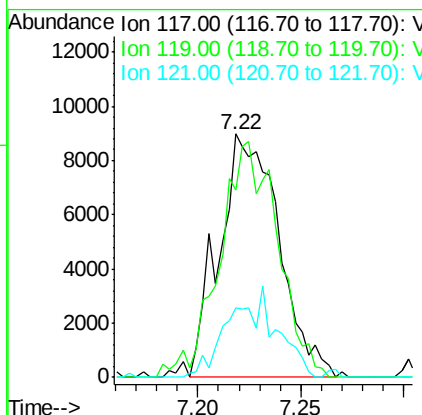
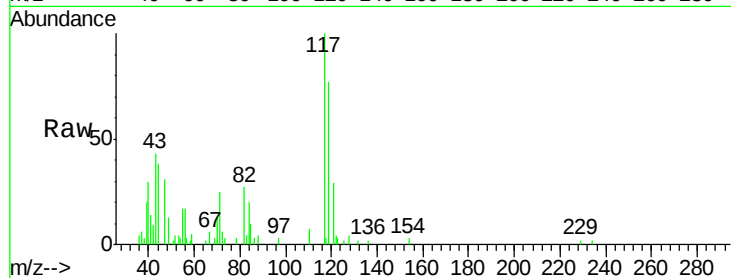
#35
Carbon Tetrachloride
Concen: 0.07 ppbv m
RT: 7.22 min Scan# 1907
Delta R.T. -0.02 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-D-CRAWL-SPACE

Tot Ion	Ratio	Lower	Upper
117	100		
119	77.0	74.8	112.2
121	28.7	24.0	36.0

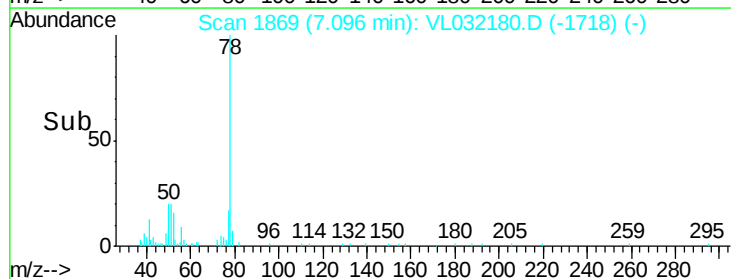
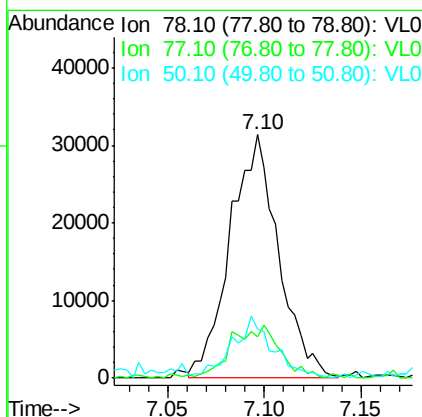
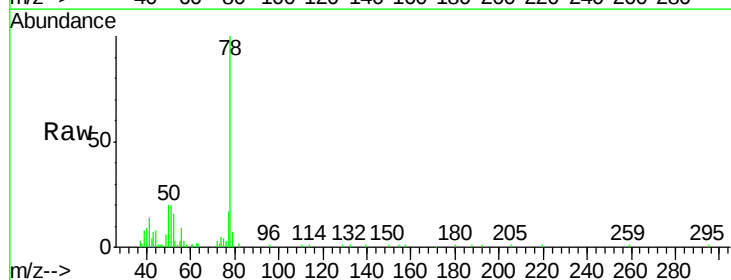
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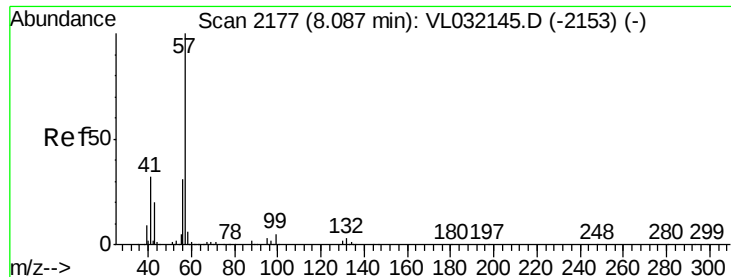
MMDadoda
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#36
Benzene
Concen: 0.15 ppbv
RT: 7.10 min Scan# 1869
Delta R.T. -0.02 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	15.6	17.7	26.5#
50	19.2	14.0	21.0





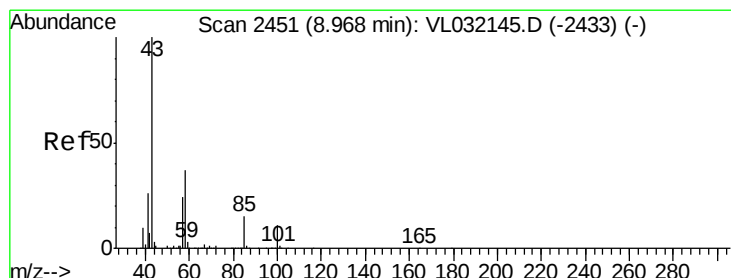
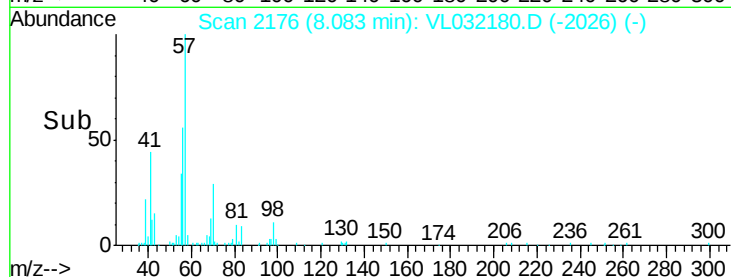
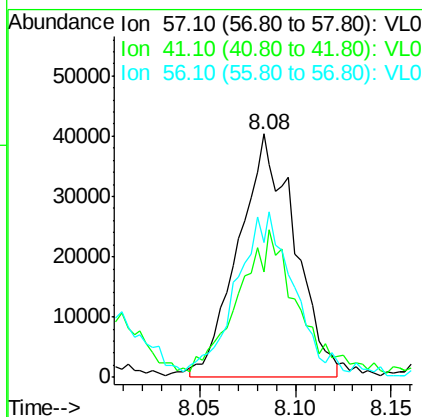
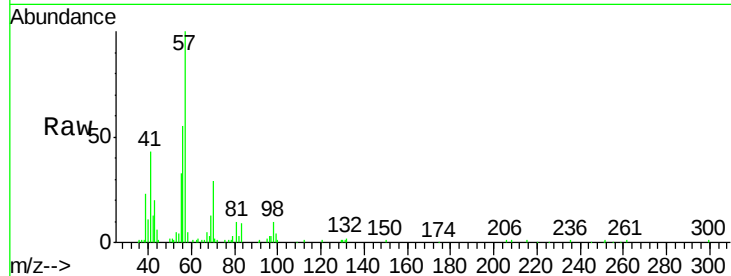
#44
 2,2,4-Trimethylpentane
 Concen: 0.13 ppbv m
 RT: 8.08 min Scan# 2176
 Delta R.T. -0.02 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-D-CRAWL-SPACE

Tot Ion	Ratio	Lower	Upper
57	100		
41	68.5	24.3	36.5#
56	67.8	25.1	37.7#

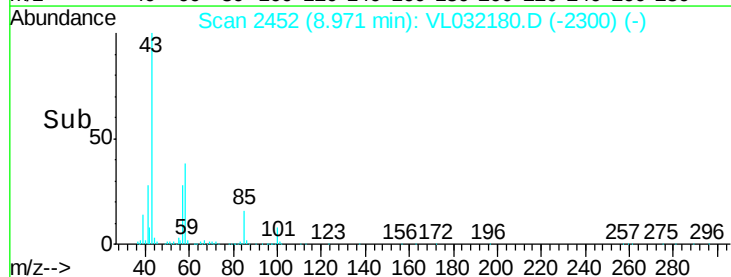
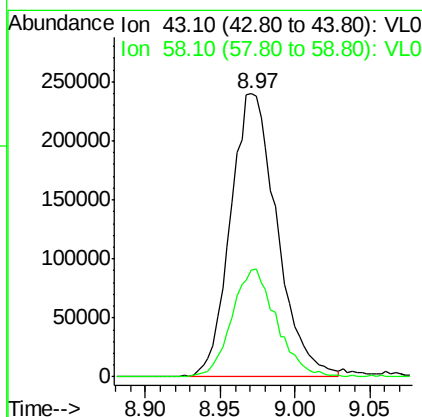
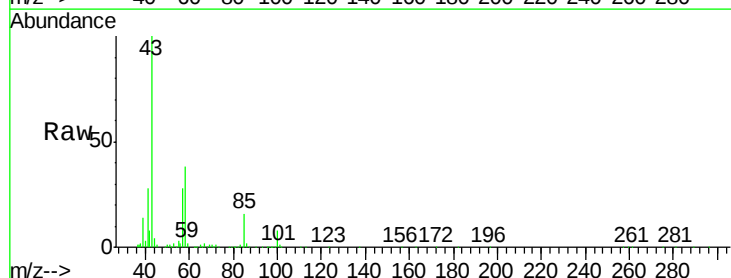
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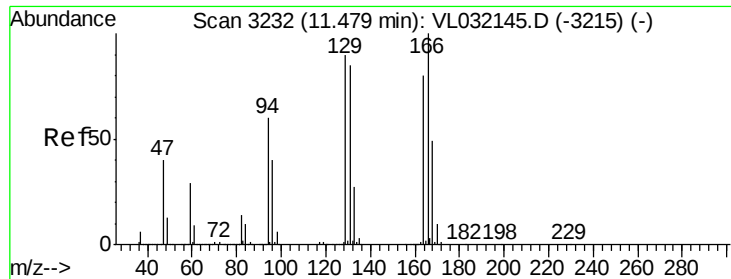
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 7/3/2018 5:17:07 PM



#50
 4-Methyl-2-Pentanone
 Concen: 1.31 ppbv
 RT: 8.97 min Scan# 2452
 Delta R.T. -0.01 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.8	44.6





#52

Tetrachloroethene

Concen: 0.14 ppbv m

RT: 11.47 min Scan# 3230

Delta R.T. -0.02 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-D-CRAWL-SPACE

Tot Ion:164 Resp: 18068

Ion Ratio Lower Upper

164 100

166 107.5 100.6 151.0

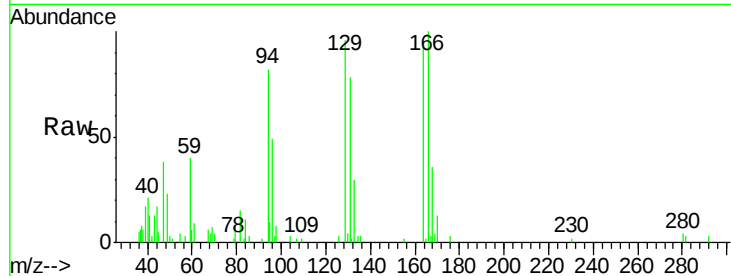
129 103.5 84.0 126.0

131 83.9 82.7 124.1

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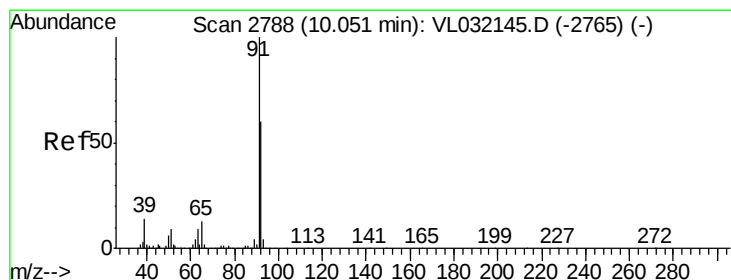
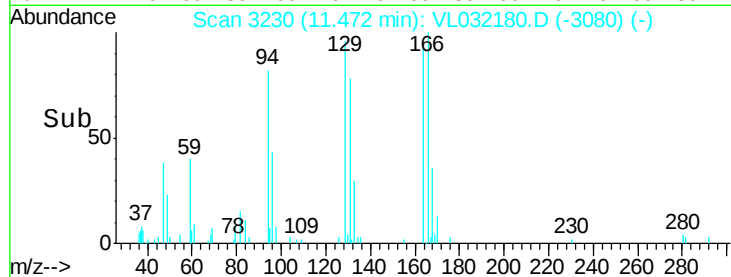
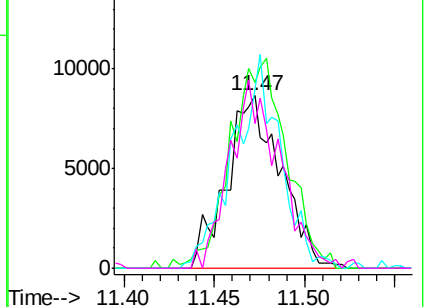


Abundance Ion 163.90 (163.60 to 164.60): V

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: 6.04 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032180.D

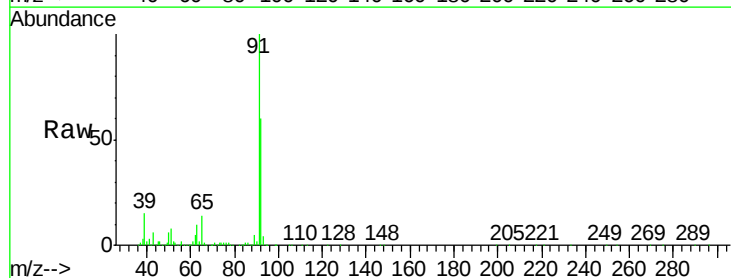
Acq: 2 Jul 2018 13:49

Tgt Ion: 91 Resp: 2667415

Ion Ratio Lower Upper

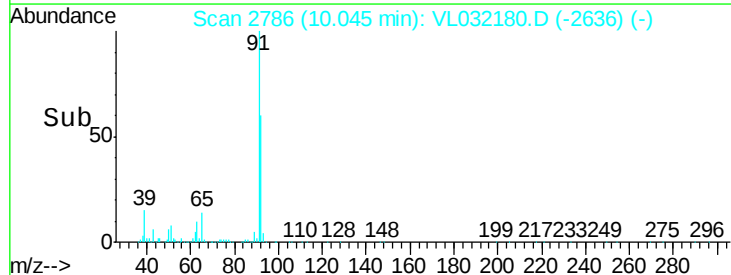
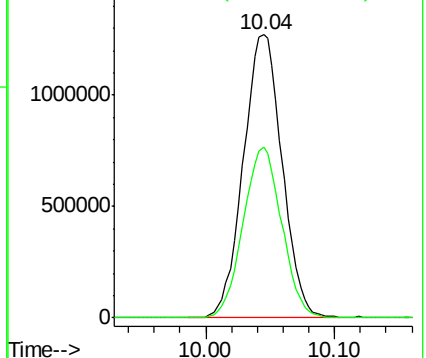
91 100

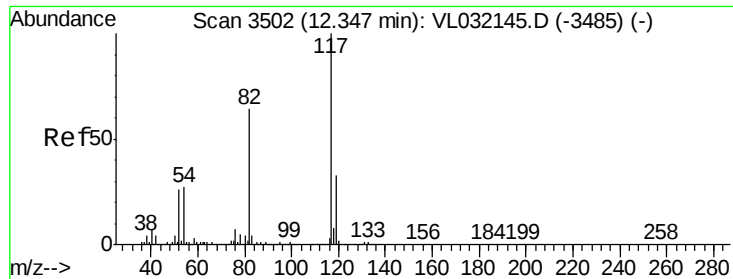
92 60.2 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





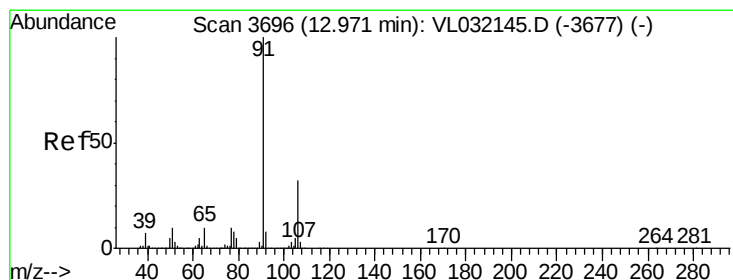
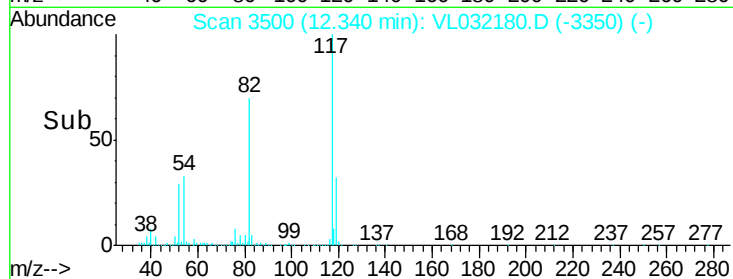
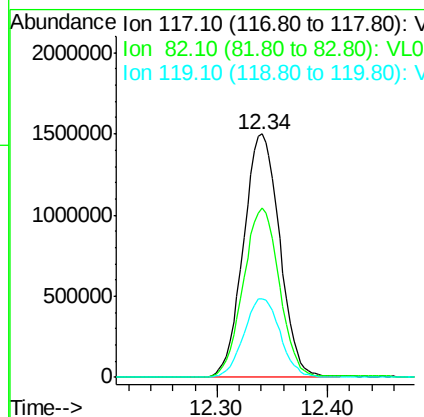
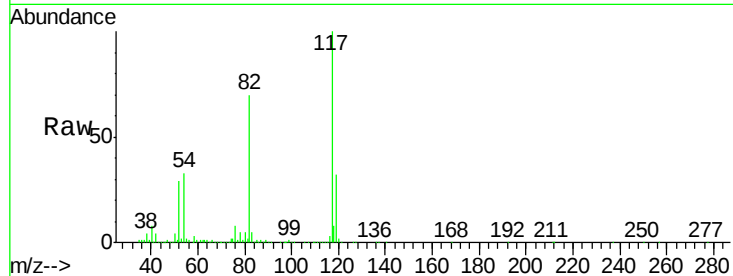
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-D-CRAWL-SPACE

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.5	47.8	71.8
119	32.7	43.3	64.9#

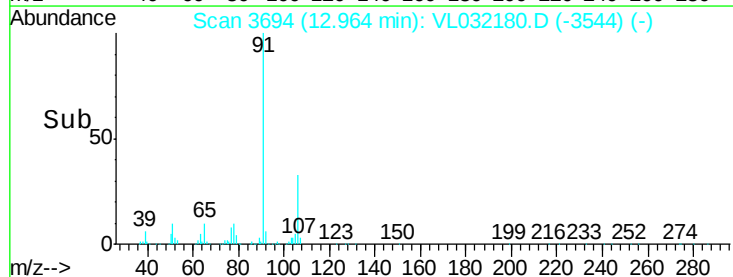
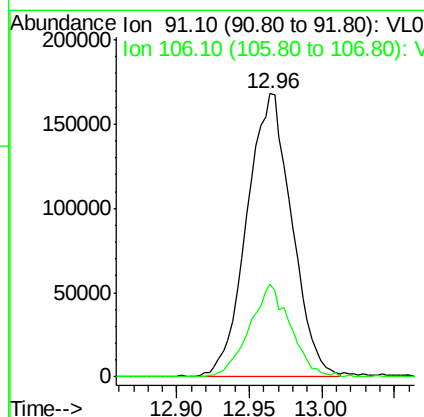
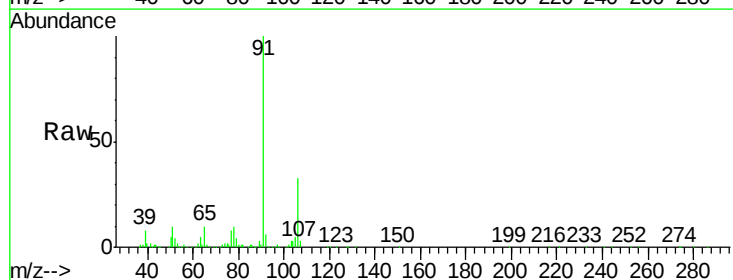
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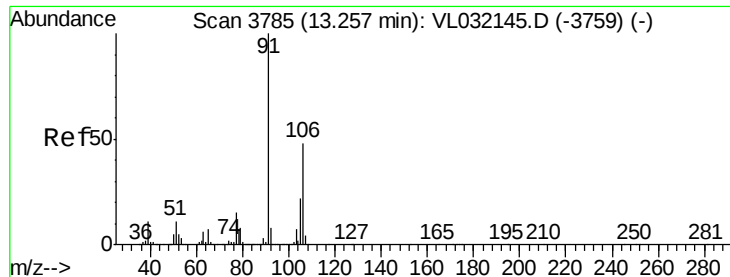
MMDadoda
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#58
Ethyl Benzene
Concen: 0.66 ppbv
RT: 12.96 min Scan# 3694
Delta R.T. -0.02 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.4	26.5	39.7





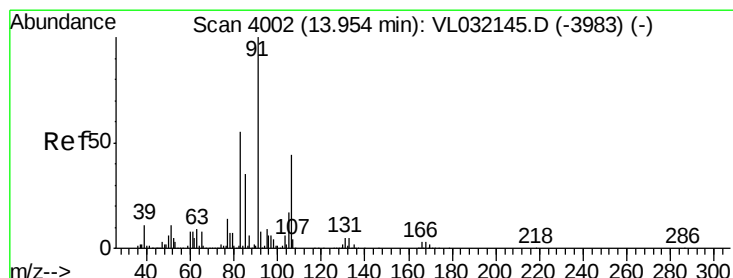
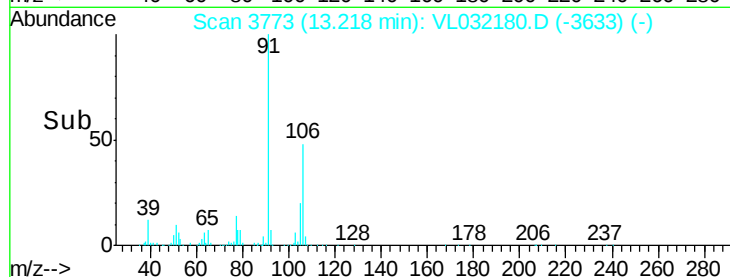
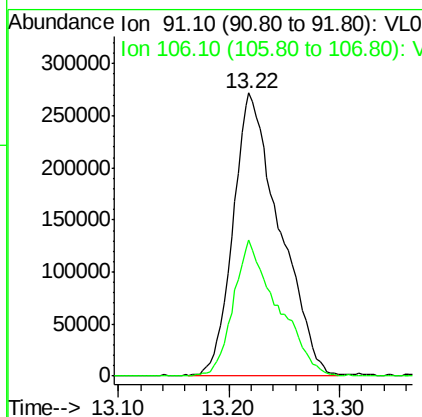
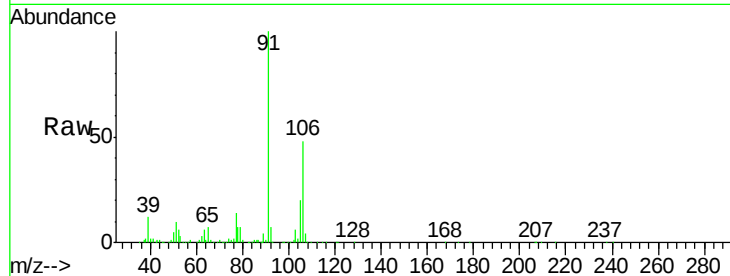
#59
m/p-Xylene
Concen: 1.78 ppbv
RT: 13.22 min Scan# 3773
Delta R.T. -0.05 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-D-CRAWL-SPACE

Tot Ion: 91 Resp: 786985
Ion Ratio Lower Upper
91 100
106 46.1 38.6 58.0

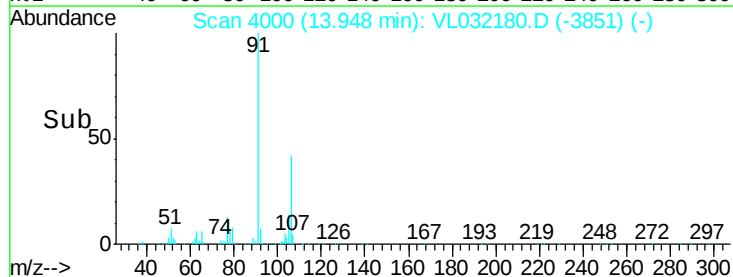
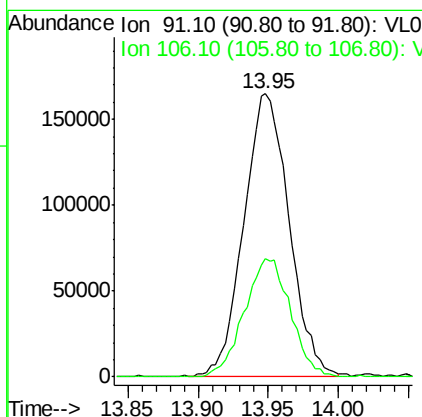
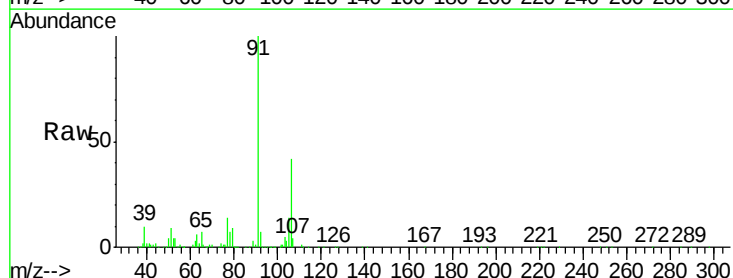
Manual Integrations
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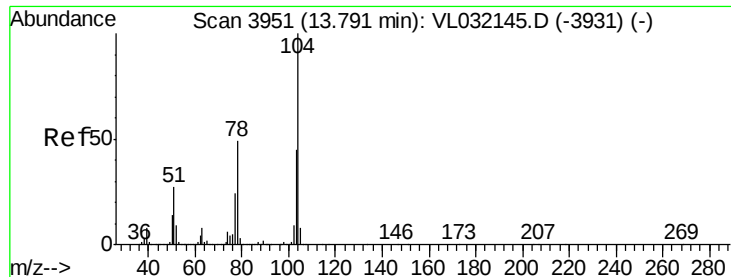
MMDadoda
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#60
o-Xylene
Concen: 0.84 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032180.D
Acq: 2 Jul 2018 13:49

Tgt Ion: 91 Resp: 368186
Ion Ratio Lower Upper
91 100
106 43.0 23.3 69.8





#61

Stvrene

Concen: 0.30 ppbv m

RT: 13.78 min Scan# 3948

Delta R.T. -0.02 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Instrument :

MSVOA_L

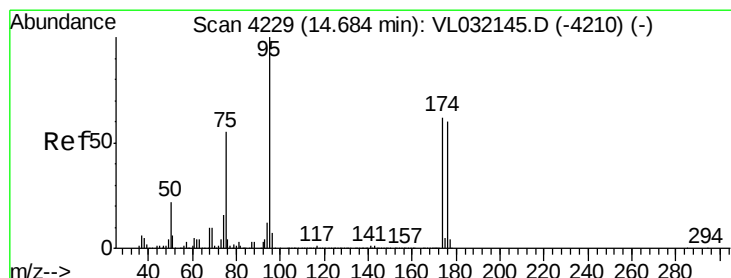
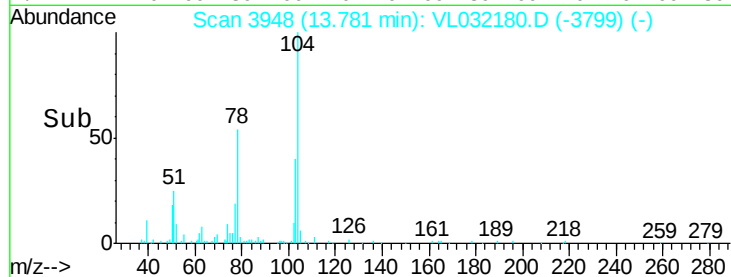
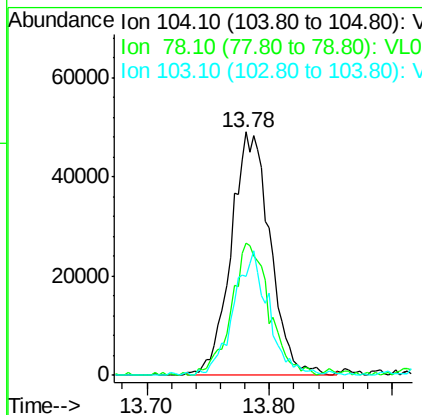
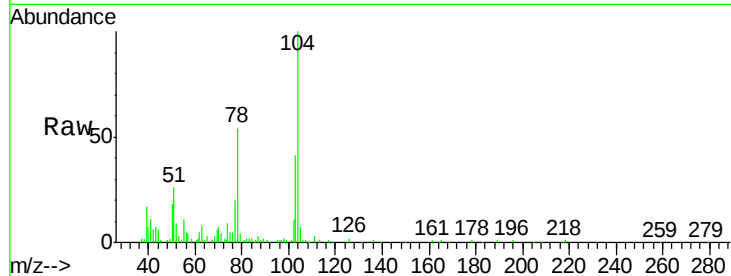
ClientSampleId :

RESIDENT-D-CRAWL-SPACE

Tot Ion:	104	Resp:	109156
Ion Ratio	Lower	Upper	
104	100		
78	53.2	37.9	56.9
103	0.0	36.6	55.0#

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.13 ppbv

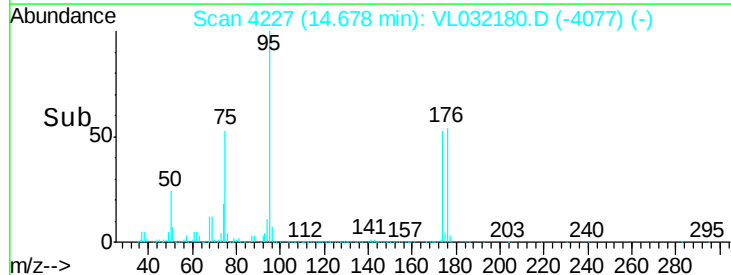
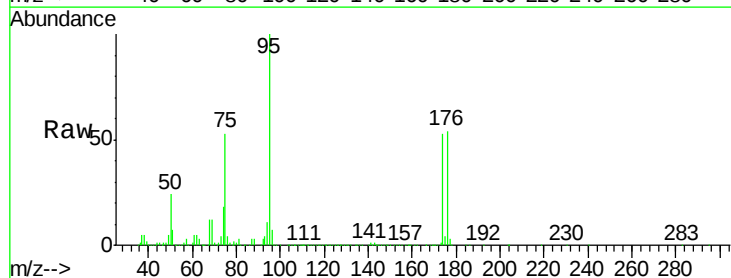
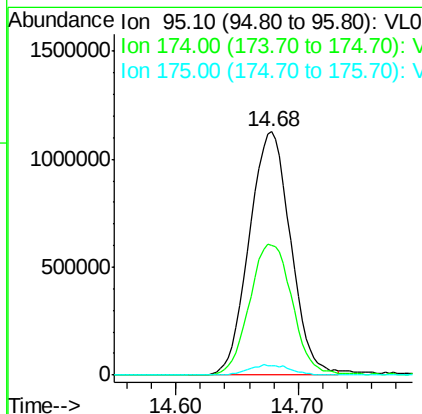
RT: 14.68 min Scan# 4227

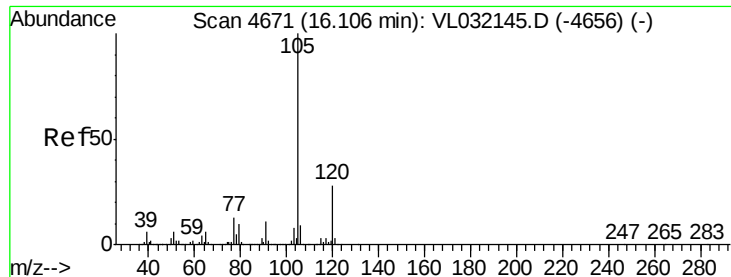
Delta R.T. -0.02 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Tgt Ion:	95	Resp:	2644735
Ion Ratio	Lower	Upper	
95	100		
174	55.9	52.1	78.1
175	4.2	4.0	6.0





#72

4-Ethyltoluene

Concen: 0.14 ppbv

RT: 16.10 min Scan# 4670

Delta R.T. -0.02 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Instrument :

MSVOA_L

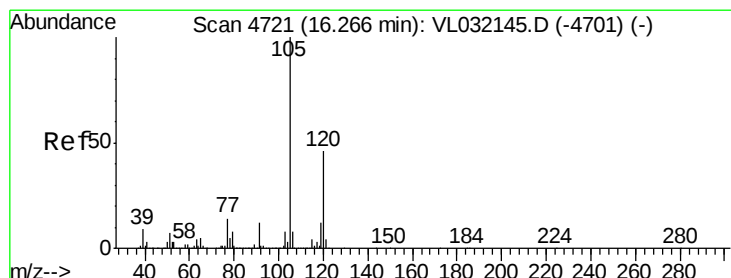
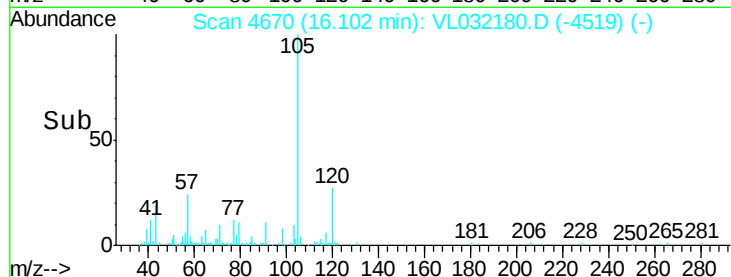
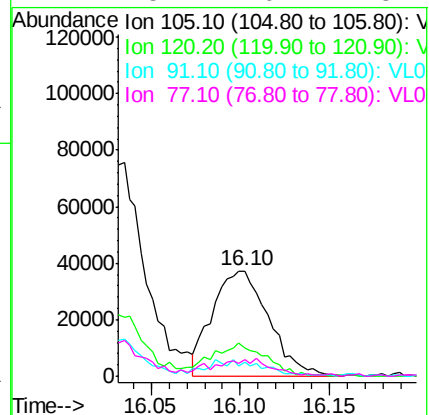
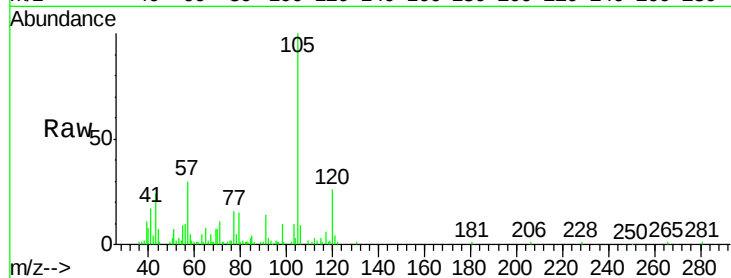
ClientSampleId :

RESIDENT-D-CRAWL-SPACE

Tot Ion:	105	Resp:	81127
Ion Ratio	Lower	Upper	
105	100		
120	31.4	24.3	36.5
91	14.9	9.4	14.0#
77	18.4	10.2	15.2#

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#73

1,3,5-Trimethylbenzene

Concen: 0.16 ppbv m

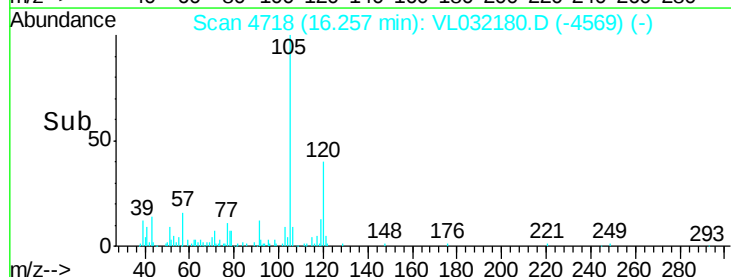
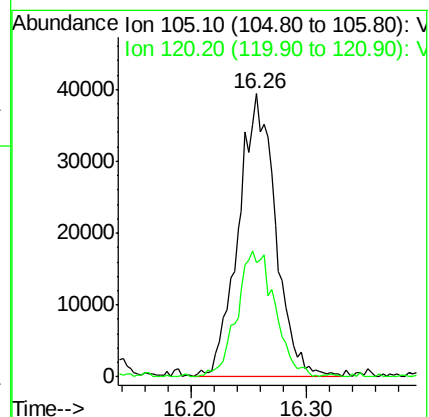
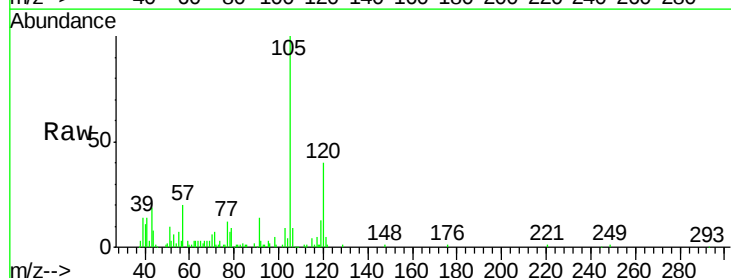
RT: 16.26 min Scan# 4718

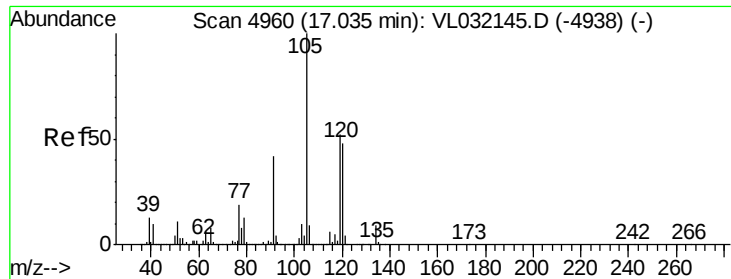
Delta R.T. -0.02 min

Lab File: VL032180.D

Acq: 2 Jul 2018 13:49

Tgt Ion:	105	Resp:	88111
Ion Ratio	Lower	Upper	
105	100		
120	40.5	38.6	57.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.55 ppbv
 RT: 17.02 min Scan# 4956
 Delta R.T. -0.03 min
 Lab File: VL032180.D
 Acq: 2 Jul 2018 13:49

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-D-CRAWL-SPACE

Tot Ion:	105	Resp:	296502
Ion Ratio		Lower	Upper
105	100		
120	40.0	38.8	58.2
91	10.7	33.6	50.4#
77	16.1	16.0	24.0

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:07 PM

