

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
 Data File : VL033046.D
 Acq On : 21 Dec 2018 8:50
 Operator : SY/AP
 Sample : J6480-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 8:26:32 AM

Quant Time: Dec 22 05:39:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	839361	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1978880	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1920970	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1514600	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	29769	0.266	ppbv	95
3) Chlorodifluoromethane	3.02	51	28673m	0.451	ppbv	
4) Chloromethane	3.17	50	28662	0.774	ppbv	99
9) Propene	3.05	41	13684m	0.544	ppbv	
11) Trichlorofluoromethane	4.01	101	44728	0.424	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.56	101	22081	0.245	ppbv	99
13) Ethanol	3.66	45	39255	4.536	ppbv	87
15) Acetone	3.90	43	325597	4.519	ppbv	99
18) 1,1-Dichloroethene	4.35	96	6415m	0.182	ppbv	
19) Isopropyl Alcohol	4.03	45	161062	3.560	ppbv #	97
20) Methylene Chloride	4.41	84	176953	5.025	ppbv	97
24) 1,1-Dichloroethane	5.10	63	144209	1.360	ppbv	99
26) Hexane	5.79	57	65005	0.827	ppbv #	42
32) 1,1,1-Trichloroethane	6.62	97	840616	5.667	ppbv	100
34) 2-Butanone	5.35	43	20885m	0.242	ppbv	
35) Carbon Tetrachloride	7.14	117	12772m	0.082	ppbv	
36) Benzene	7.00	78	13193m	0.091	ppbv	
38) Trichloroethene	7.97	130	4774m	0.079	ppbv	
53) Toluene	9.96	91	126658	0.821	ppbv	97

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

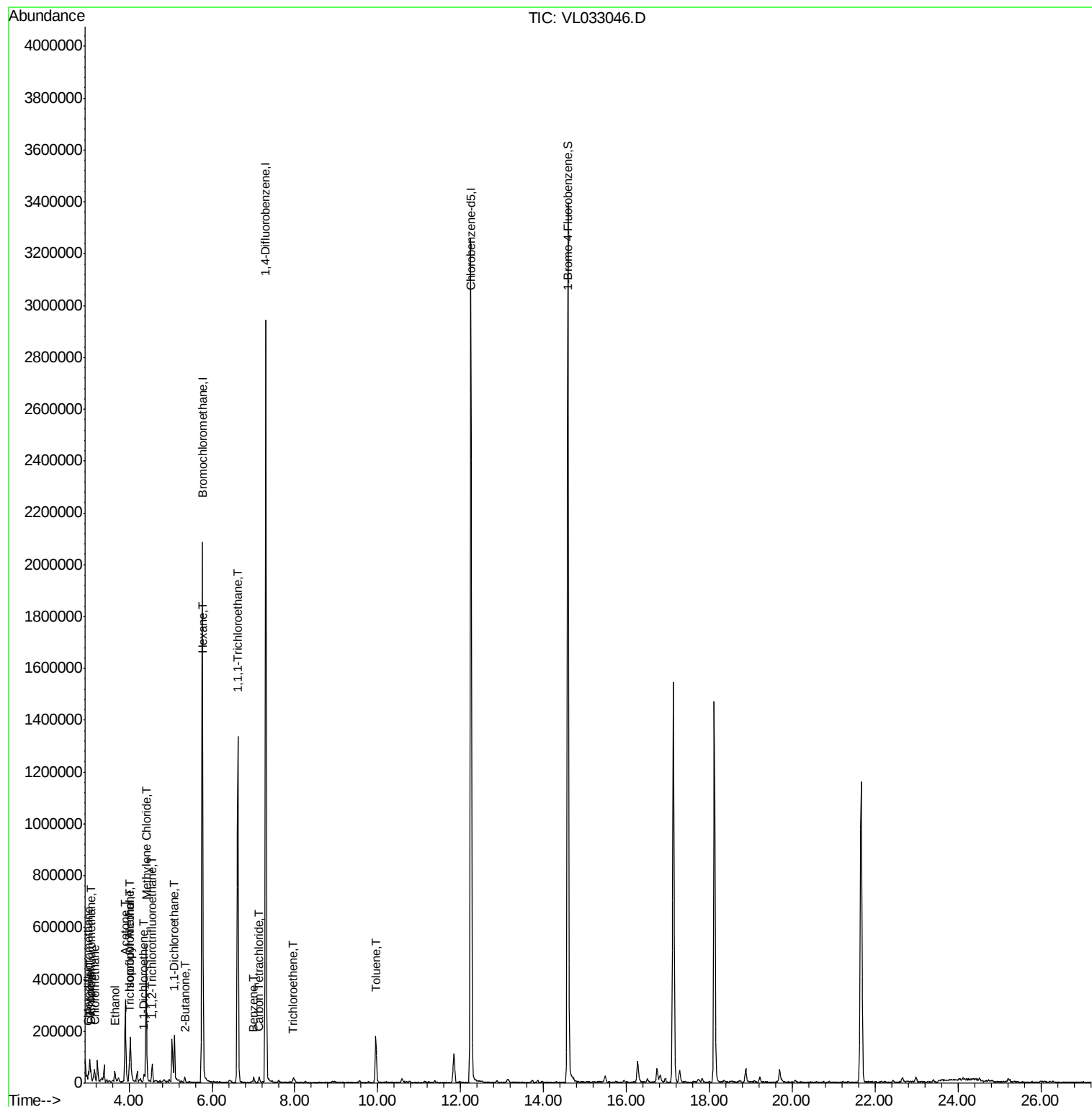
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122018\
Data File : VL033046.D
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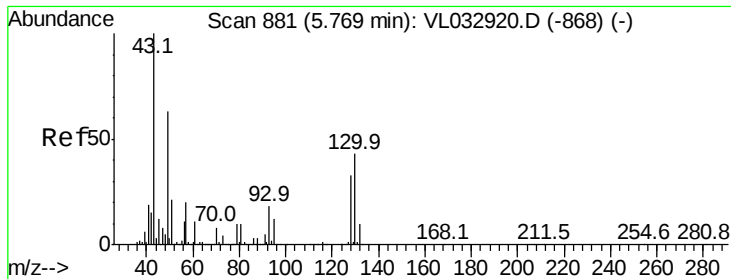
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Quant Time: Dec 22 05:39:55 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

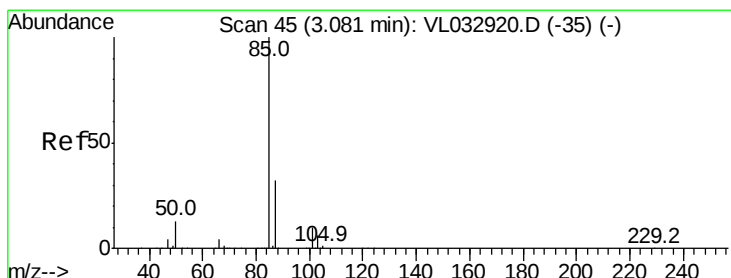
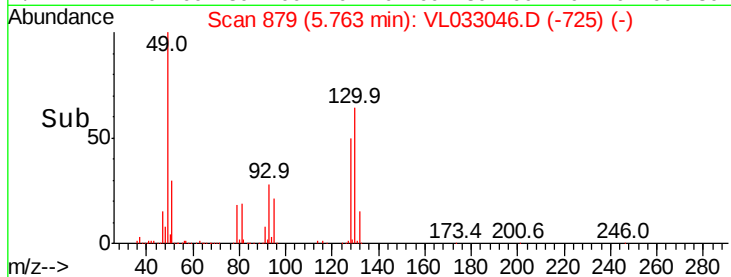
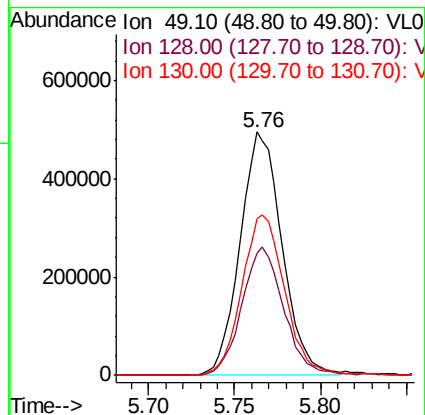
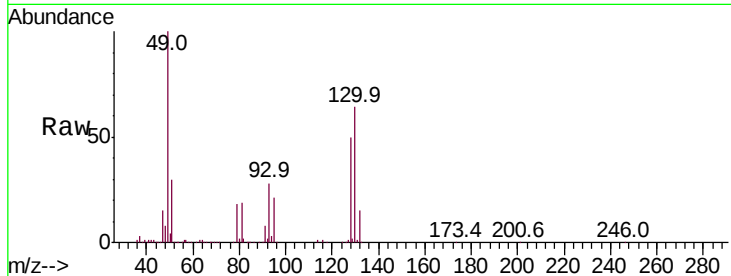
INFLUENT

Tot Ion: 49 Resp: 839361

Ion	Ratio	Lower	Upper
49	100		
128	53.1	26.3	78.8
130	68.1	33.9	101.7

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#2

Dichlorodifluoromethane

Concen: 0.266 ppbv

RT: 3.08 min Scan# 45

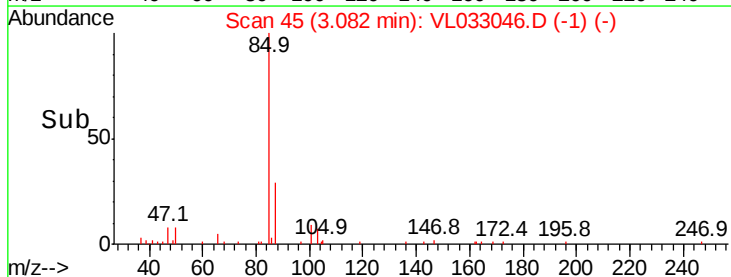
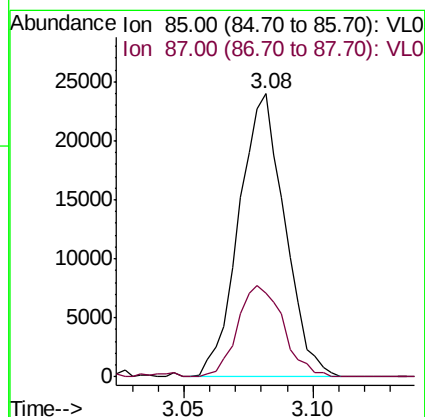
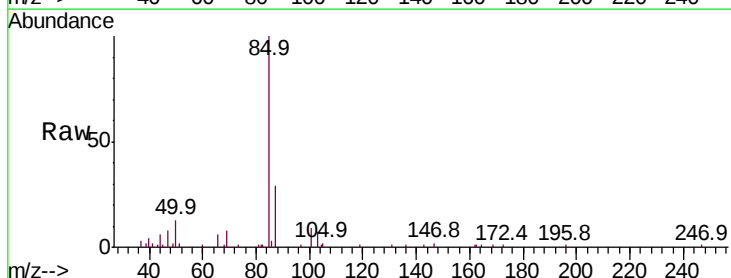
Delta R.T. 0.00 min

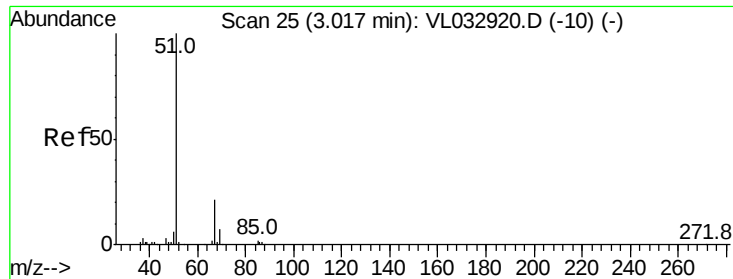
Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Tgt Ion: 85 Resp: 29769

Ion	Ratio	Lower	Upper
85	100		
87	29.4	25.7	38.5





#3

Chlorodifluoromethane

Concen: 0.451 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 51 Resp: 28673

Ion Ratio Lower Upper

51 100

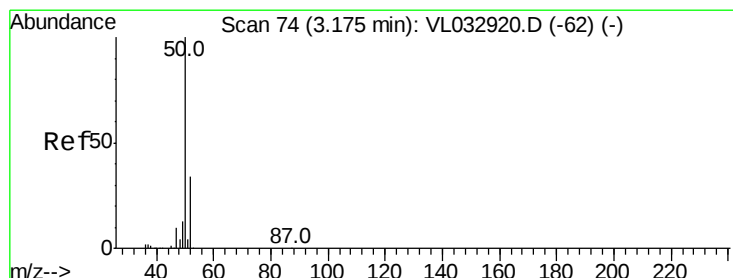
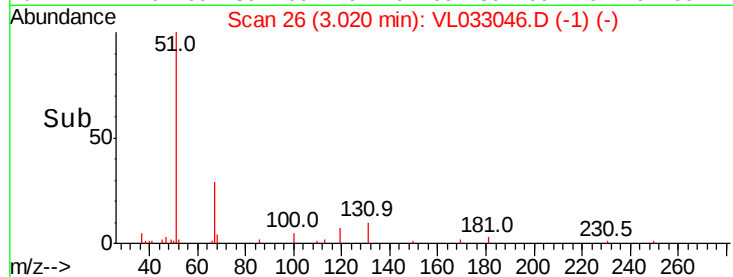
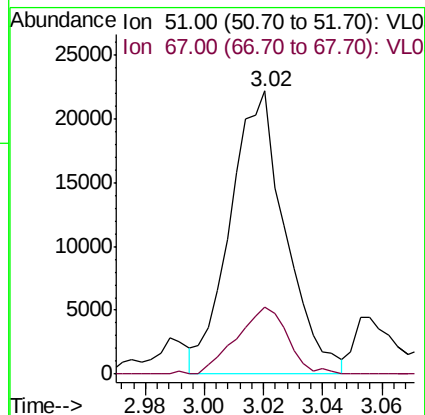
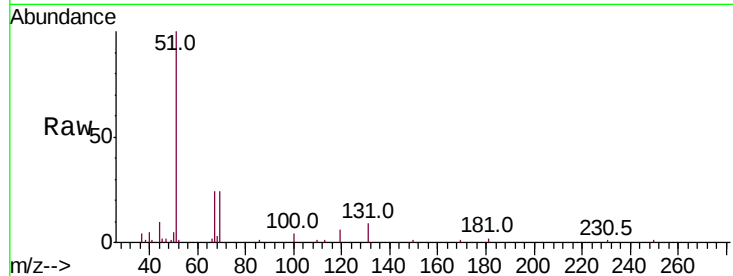
67 22.2 16.8 25.2

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#4

Chloromethane

Concen: 0.774 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033046.D

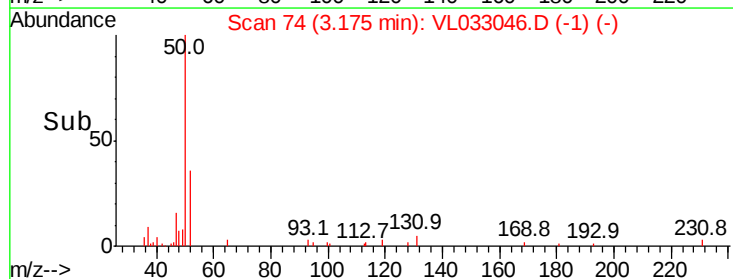
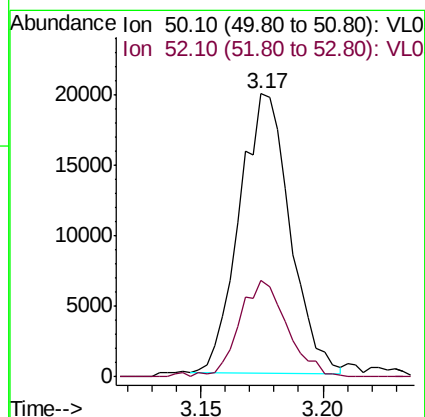
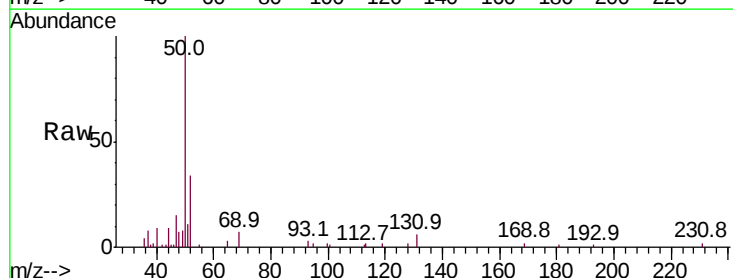
Acq: 21 Dec 2018 8:50

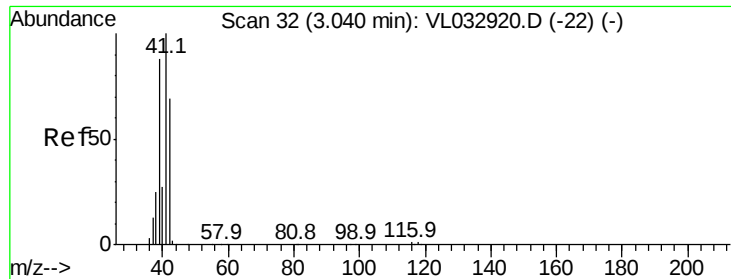
Tgt Ion: 50 Resp: 28662

Ion Ratio Lower Upper

50 100

52 34.6 27.3 40.9





#9

Propene

Concen: 0.544 ppbv m

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 41 Resp: 13684

Ion Ratio Lower Upper

41 100

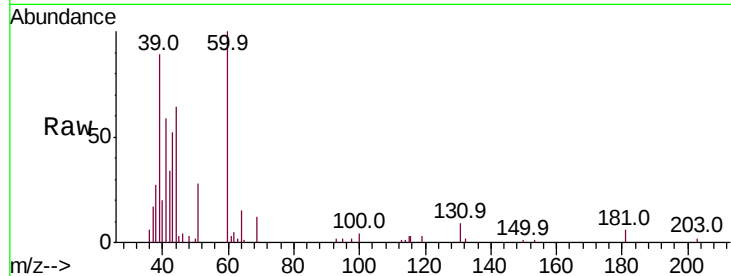
42 0.0 56.2 84.2#

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.05

10000

8000

6000

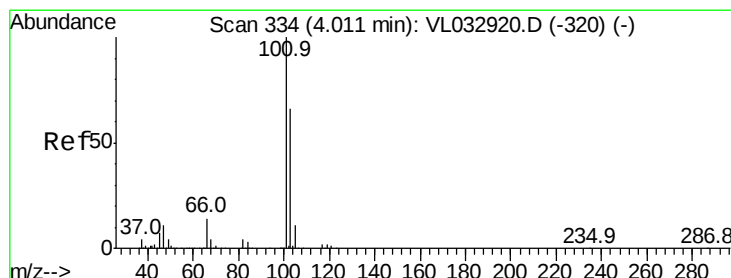
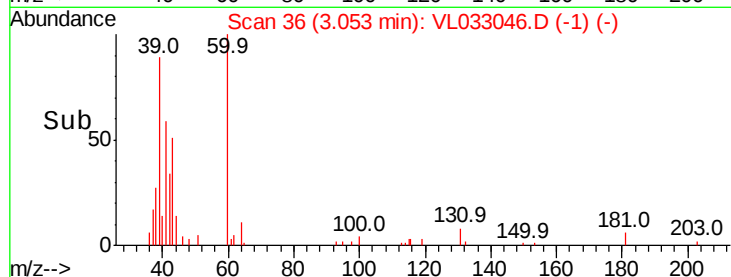
4000

2000

0

Time-->

3.00 3.05 3.10



#11

Trichlorofluoromethane

Concen: 0.424 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL033046.D

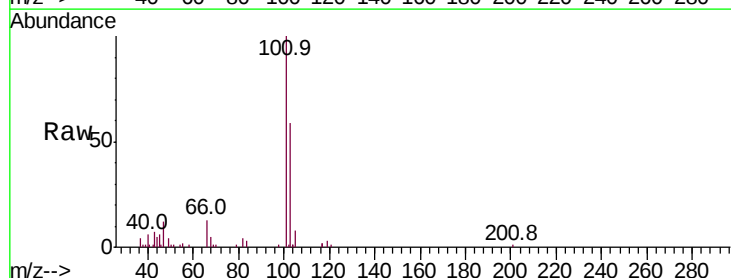
Acq: 21 Dec 2018 8:50

Tgt Ion: 101 Resp: 44728

Ion Ratio Lower Upper

101 100

103 59.4 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.01

30000

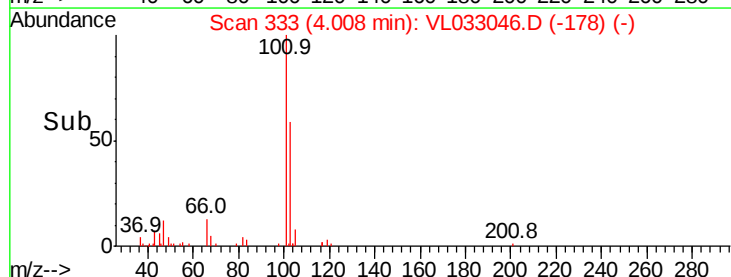
20000

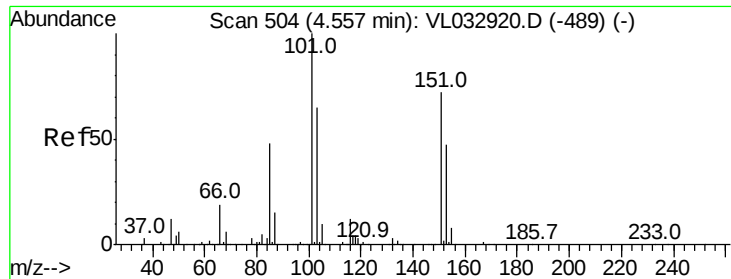
10000

0

Time-->

3.95 4.00 4.05





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.245 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion:101 Resp: 22081

Ion Ratio Lower Upper

101 100

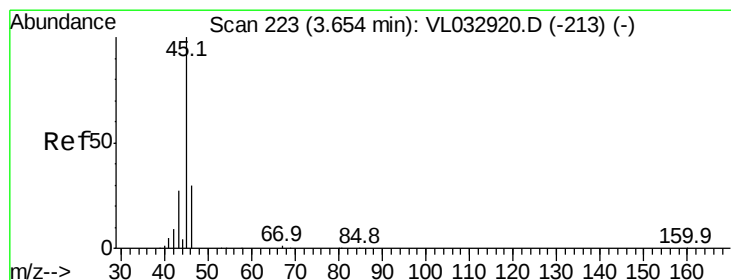
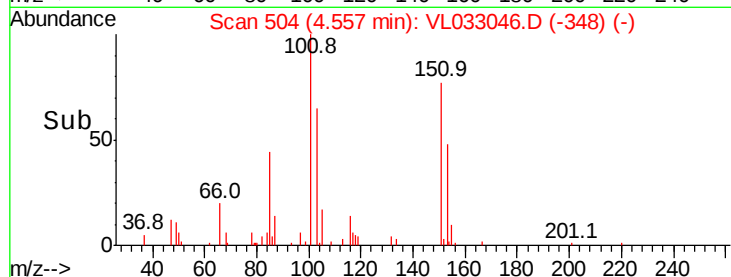
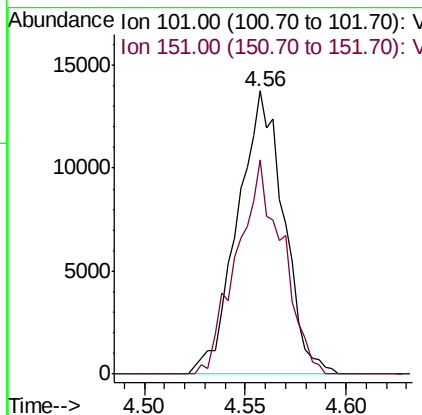
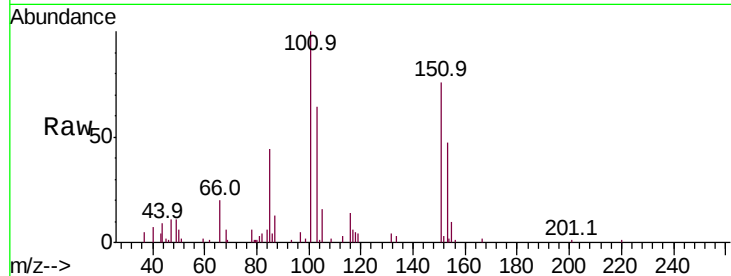
151 74.8 59.3 88.9

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#13

Ethanol

Concen: 4.536 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL033046.D

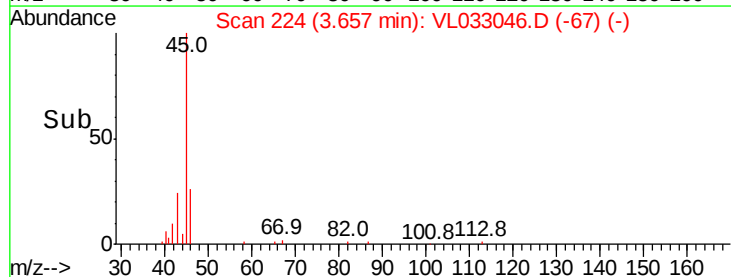
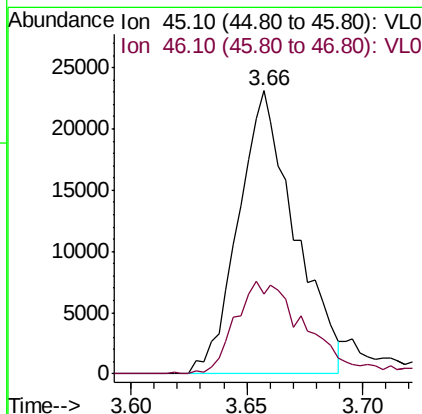
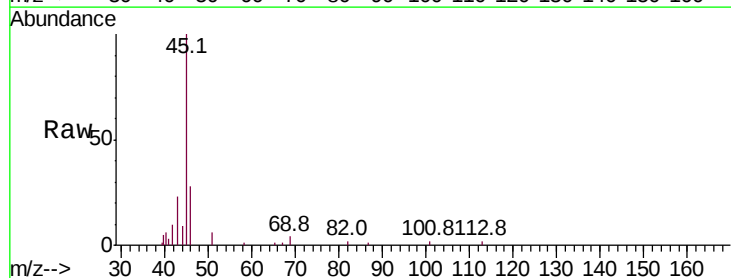
Acq: 21 Dec 2018 8:50

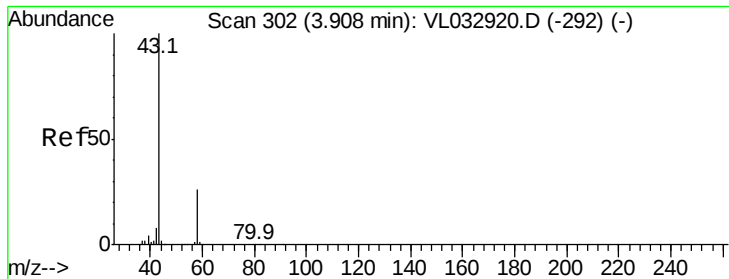
Tgt Ion: 45 Resp: 39255

Ion Ratio Lower Upper

45 100

46 42.2 13.8 55.4





#15

Acetone

Concen: 4.519 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 43 Resp: 325597

Ion Ratio Lower Upper

43 100

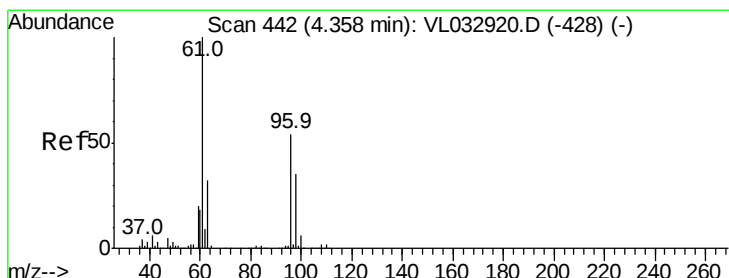
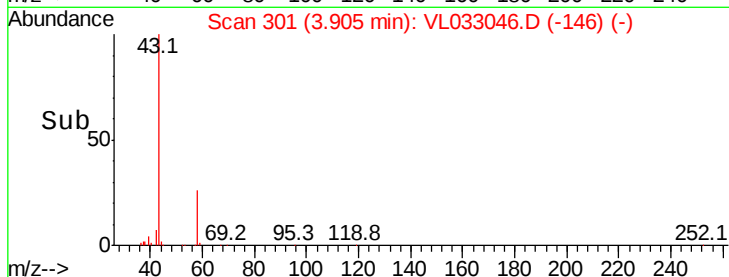
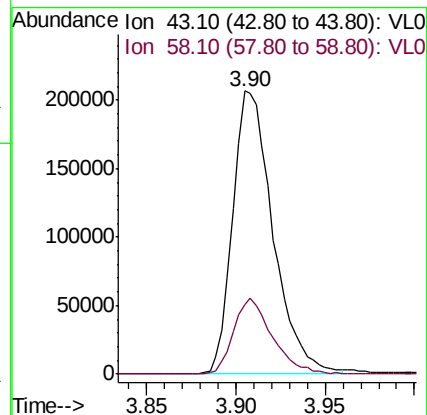
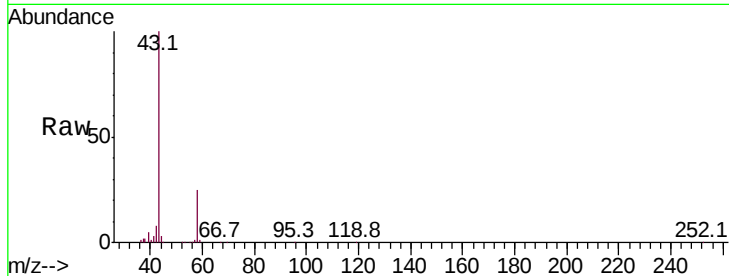
58 26.0 20.6 30.8

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#18

1,1-Dichloroethene

Concen: 0.182 ppbv m

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

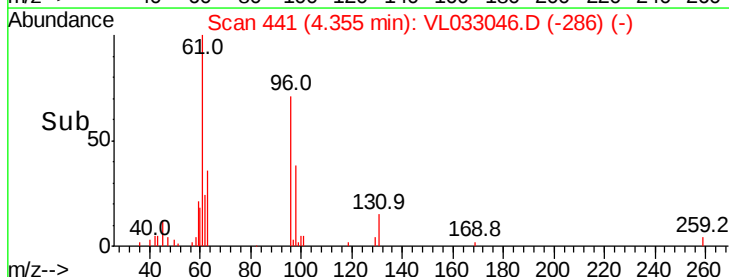
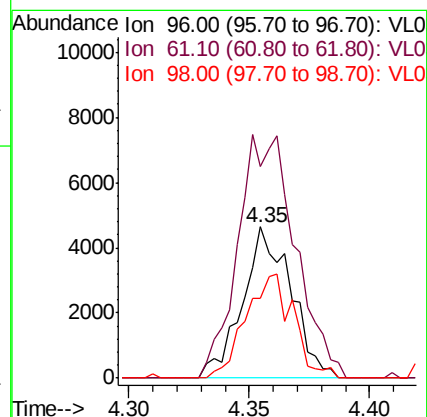
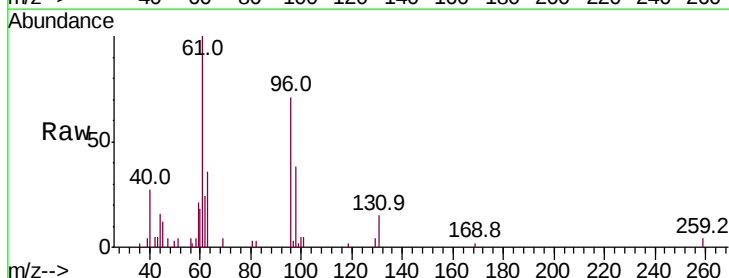
Tgt Ion: 96 Resp: 6415

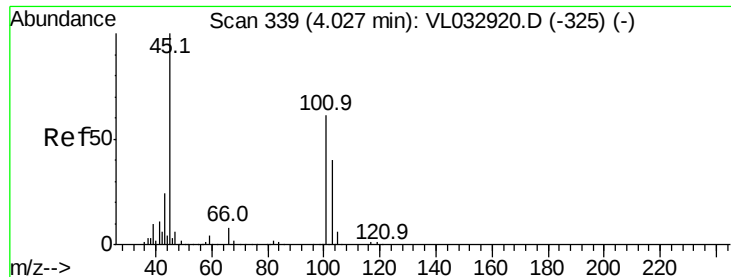
Ion Ratio Lower Upper

96 100

61 140.4 147.0 220.4#

98 53.0 50.7 76.1





#19

Isopropyl Alcohol

Concen: 3.560 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 45 Resp: 161062

Ion Ratio Lower Upper

45 100

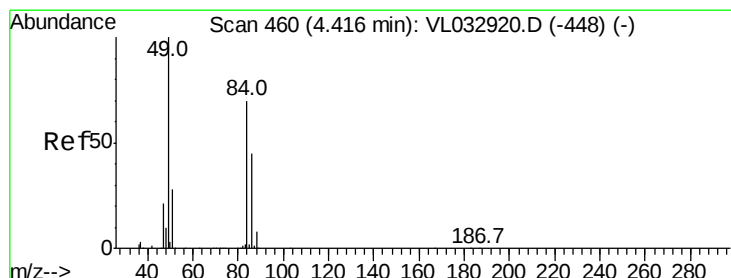
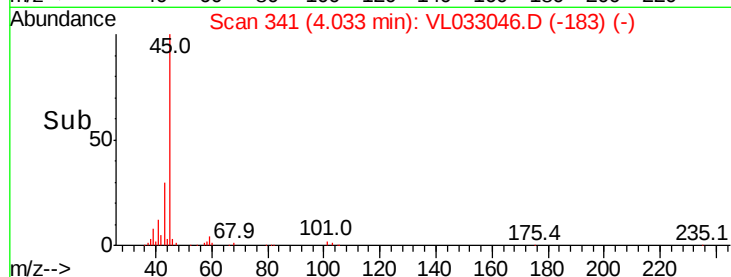
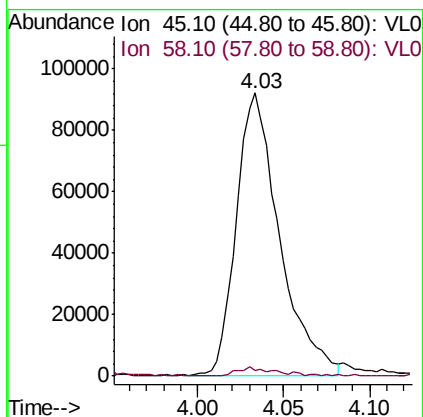
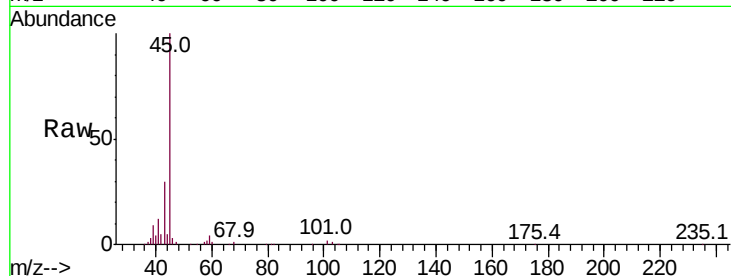
58 2.8 1.4 2.2#

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#20

Methylene Chloride

Concen: 5.025 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Tgt Ion: 84 Resp: 176953

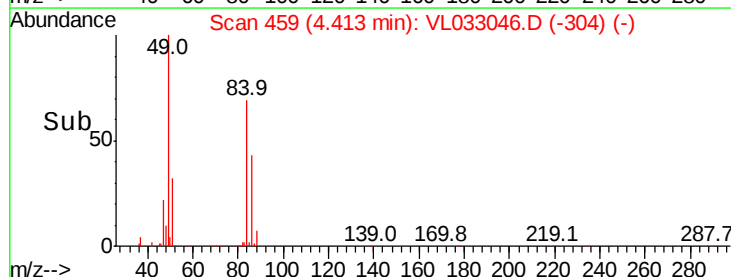
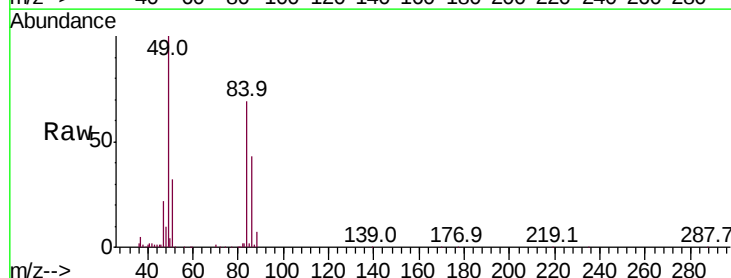
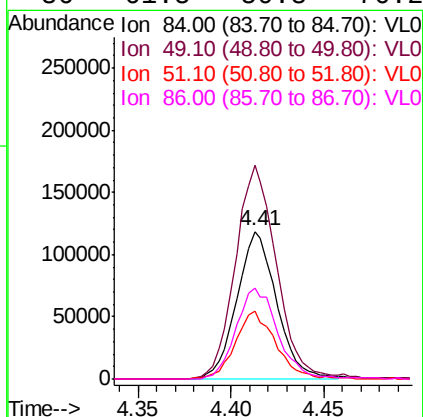
Ion Ratio Lower Upper

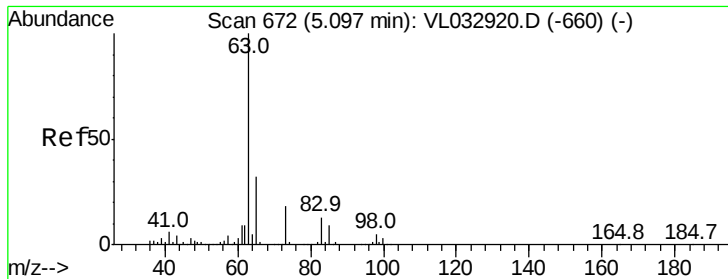
84 100

49 144.1 113.8 170.8

51 45.7 31.8 47.8

86 61.5 50.8 76.2





#24

1,1-Dichloroethane

Concen: 1.360 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

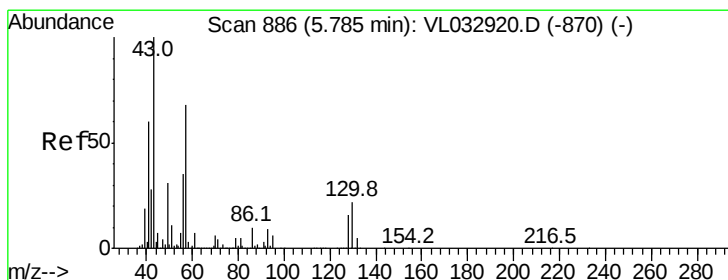
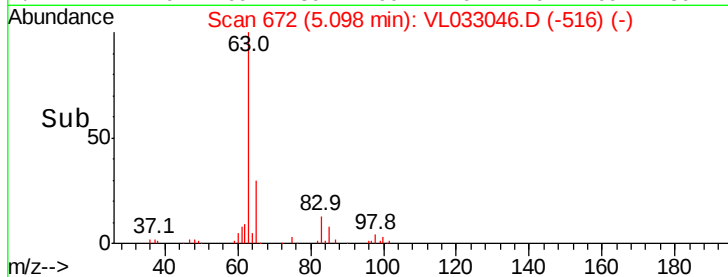
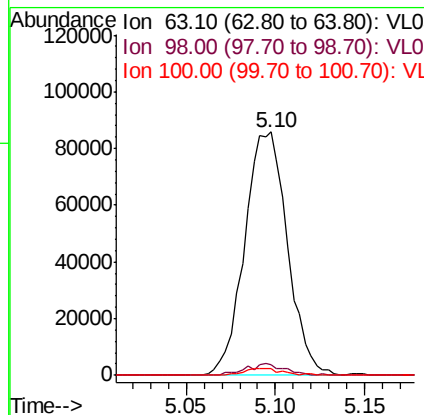
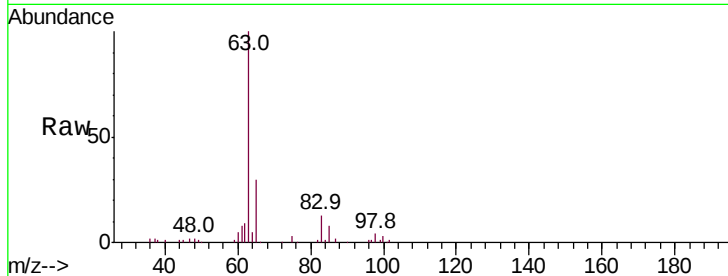
ClientSampleId :

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Tot Ion:	63	Resp:	144209
Ion Ratio	Lower	Upper	
63	100		
98	4.4	2.5	7.5
100	3.0	1.4	4.2

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#26

Hexane

Concen: 0.827 ppbv

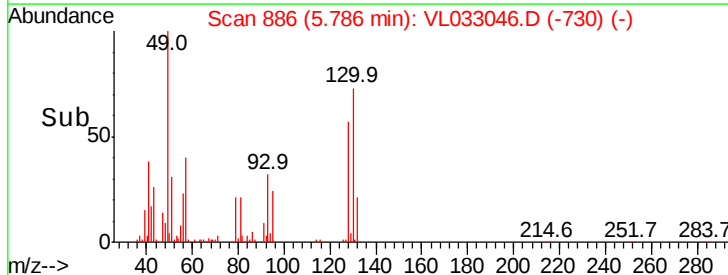
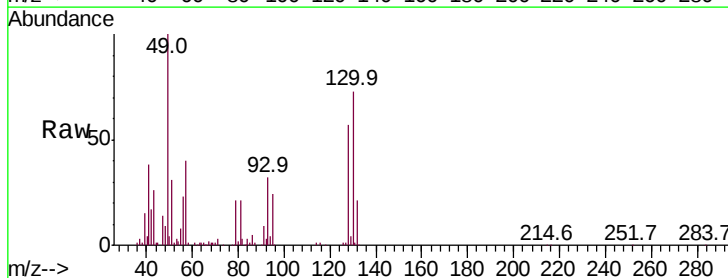
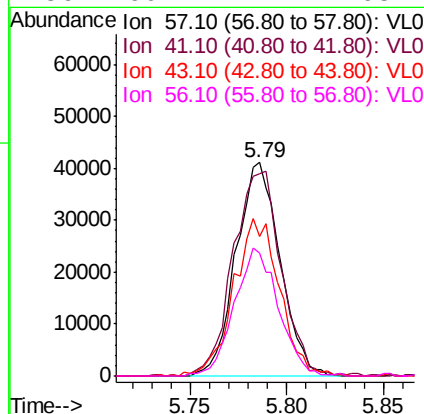
RT: 5.79 min Scan# 886

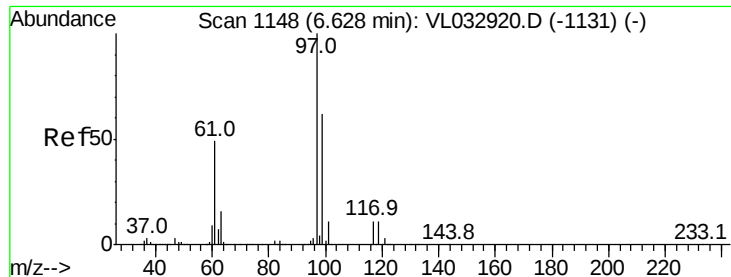
Delta R.T. 0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Tgt Ion:	57	Resp:	65005
Ion Ratio	Lower	Upper	
57	100		
41	105.9	72.2	108.2
43	77.2	171.9	257.9#
56	60.2	42.2	63.2





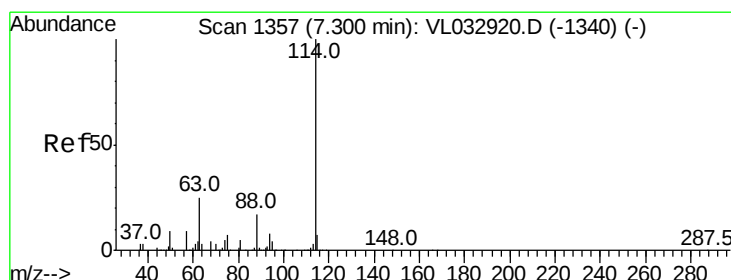
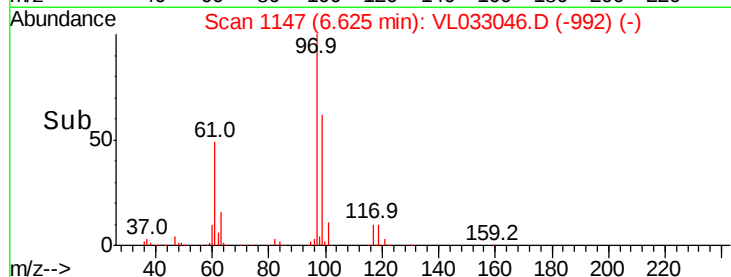
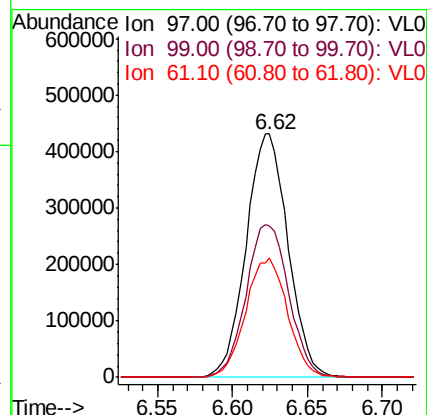
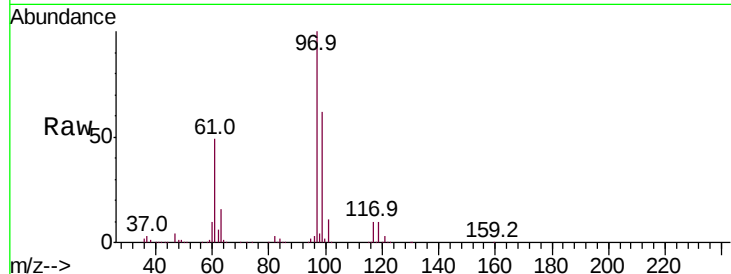
#32
 1,1,1-Trichloroethane
 Concen: 5.667 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. -0.00 min
 Lab File: VL033046.D
 Acq: 21 Dec 2018 8:50

Instrument :
 MSVOA_L
 ClientSampled :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	49.0	39.3	58.9

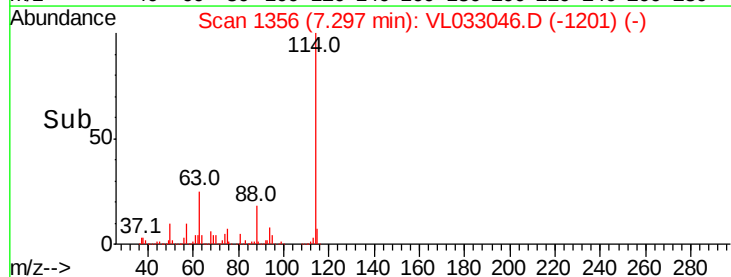
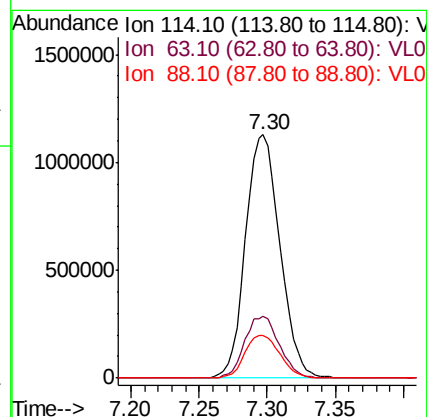
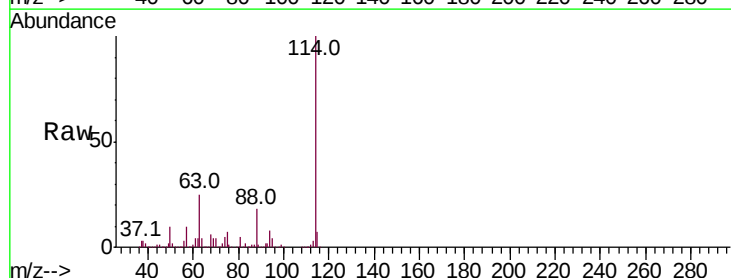
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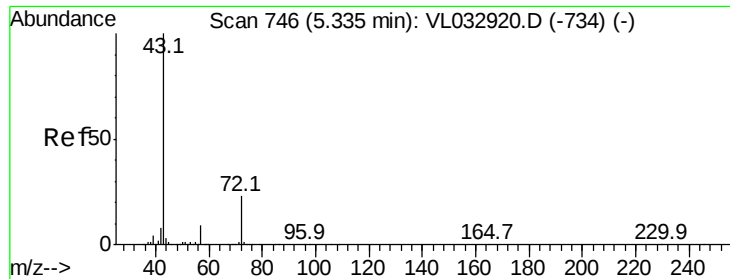
MMDadoda
 12/24/2018 8:26:32 AM



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033046.D
 Acq: 21 Dec 2018 8:50

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	18.0	14.2	21.4





#34

2-Butanone

Concen: 0.242 ppbv m

RT: 5.35 min Scan# 750

Delta R.T. 0.01 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 43 Resp: 20885

Ion Ratio Lower Upper

43 100

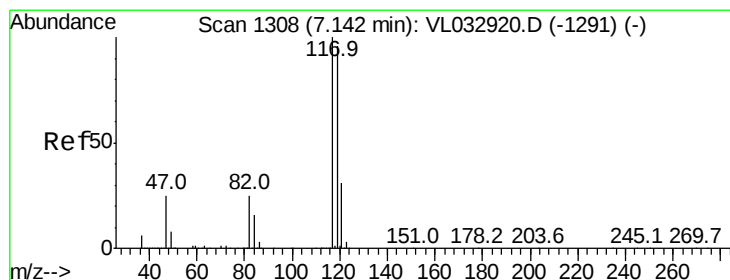
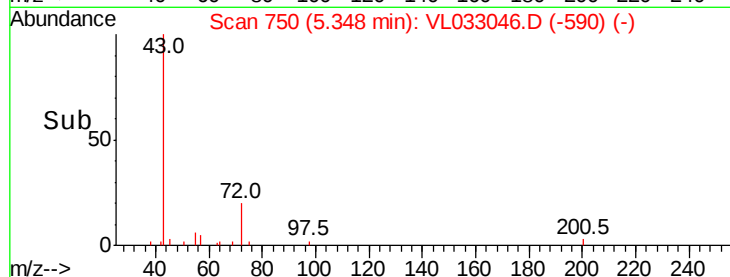
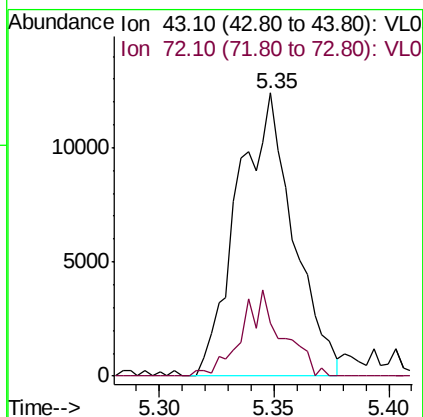
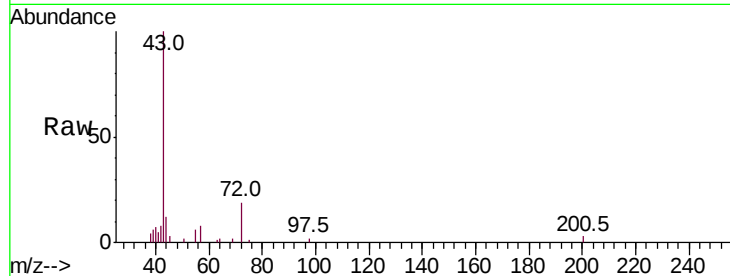
72 0.0 18.8 28.2#

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#35

Carbon Tetrachloride

Concen: 0.082 ppbv m

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

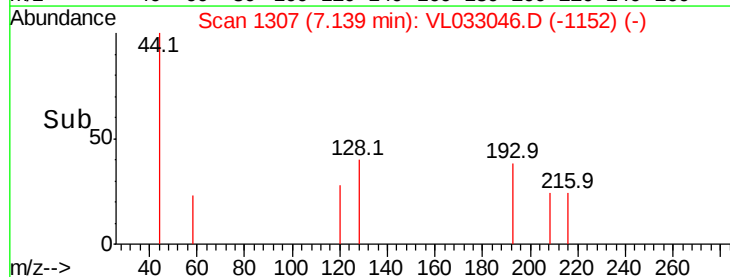
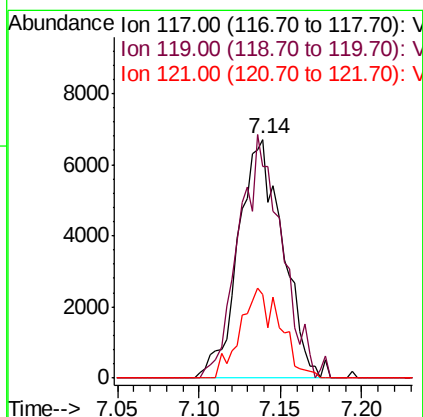
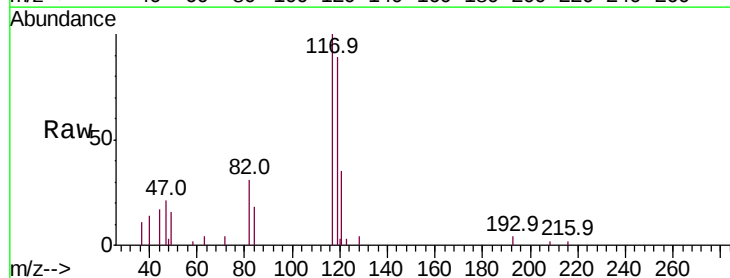
Tgt Ion: 117 Resp: 12772

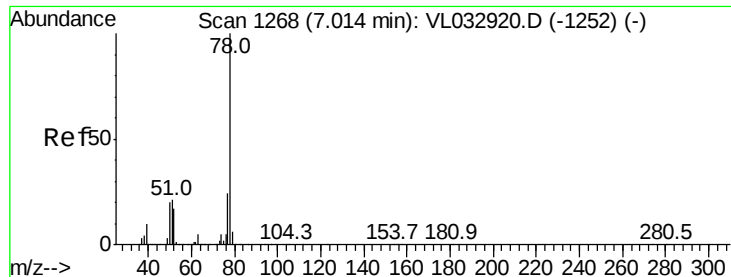
Ion Ratio Lower Upper

117 100

119 88.6 76.5 114.7

121 35.1 24.5 36.7





#36

Benzene

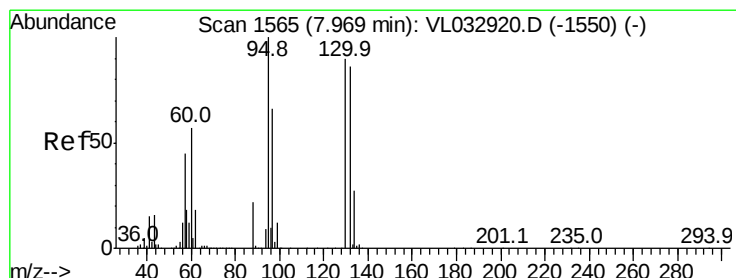
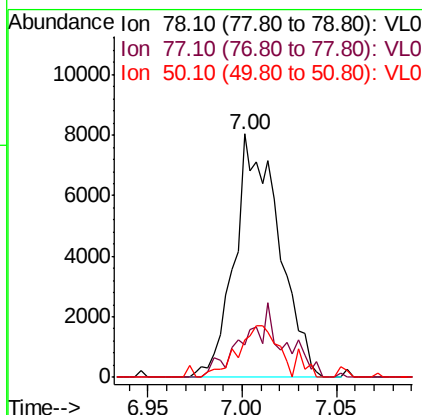
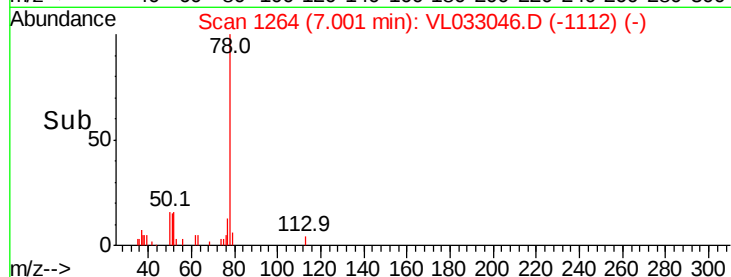
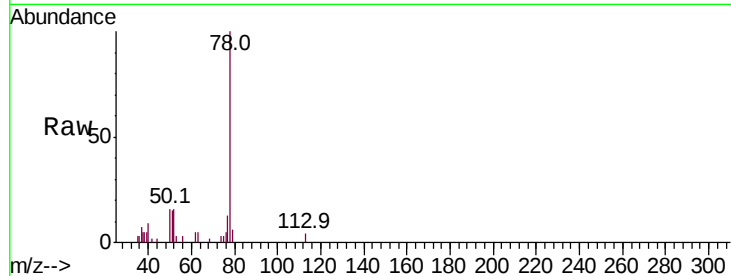
Concen: 0.091 ppbv m
 RT: 7.00 min Scan# 1264
 Delta R.T. -0.01 min
 Lab File: VL033046.D
 Acq: 21 Dec 2018 8:50

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
78	100		
77	13.1	18.9	28.3#
50	15.5	16.1	24.1#

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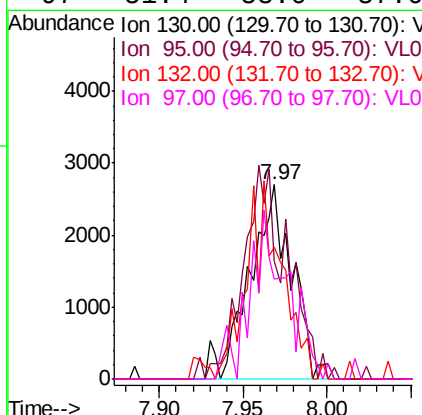
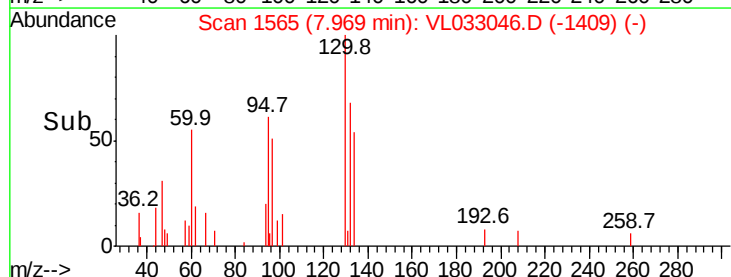
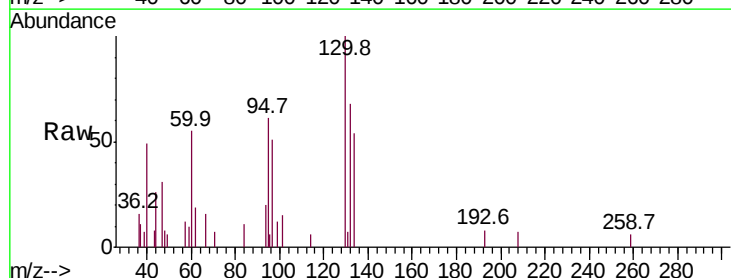


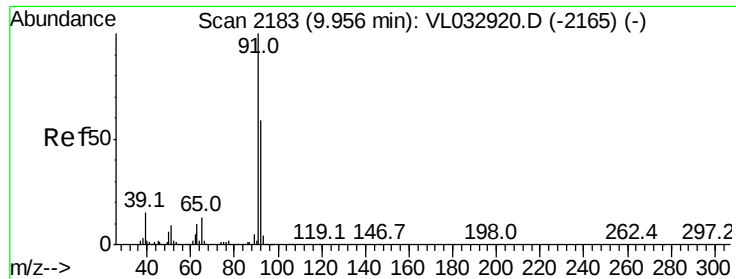
#38

Trichloroethene

Concen: 0.079 ppbv m
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VL033046.D
 Acq: 21 Dec 2018 8:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	60.7	88.6	132.8#
132	68.0	76.1	114.1#
97	51.4	58.0	87.0#





#53

Toluene

Concen: 0.821 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 91 Resp: 126658

Ion Ratio Lower Upper

91 100

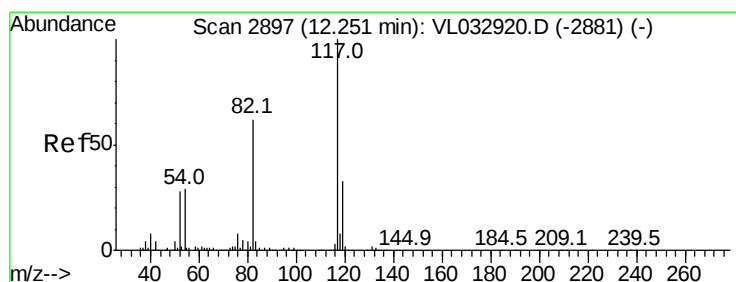
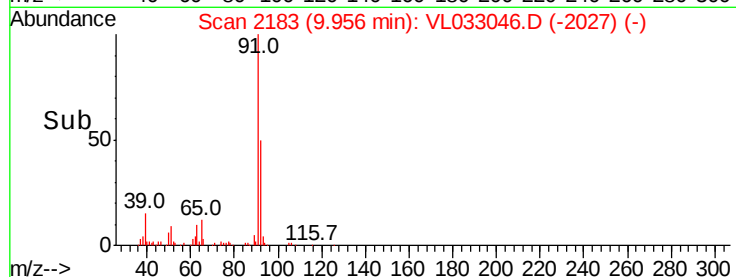
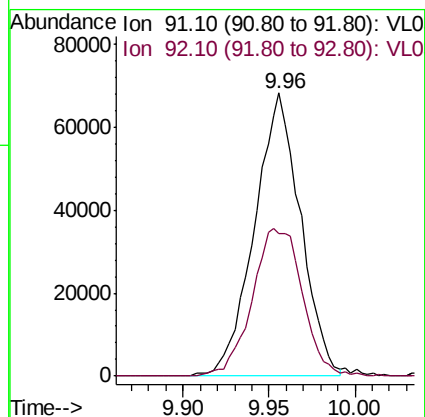
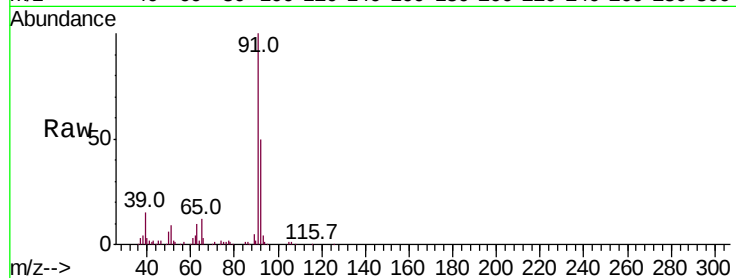
92 57.3 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL033046.D

Acq: 21 Dec 2018 8:50

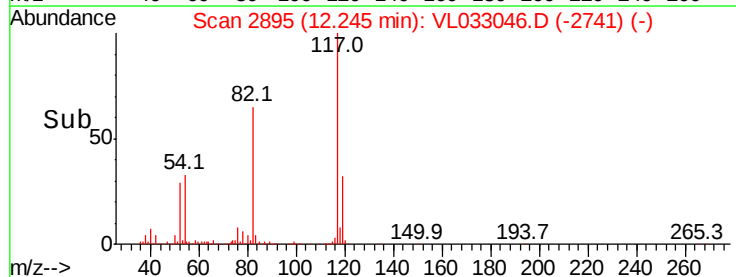
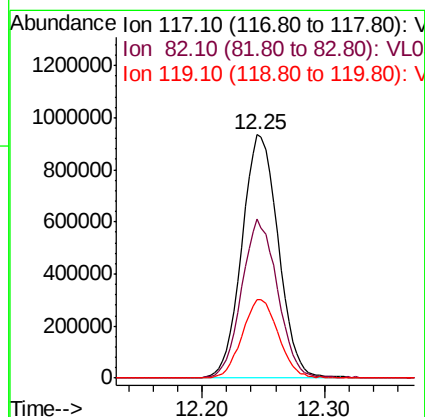
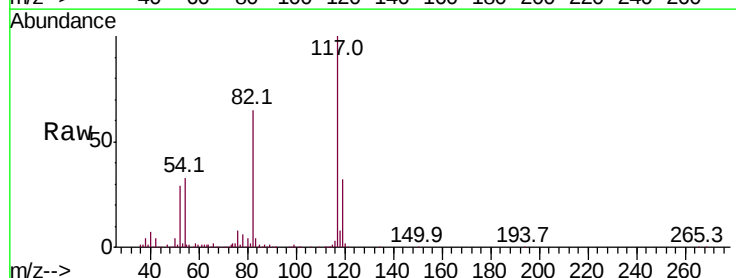
Tgt Ion: 117 Resp: 1920970

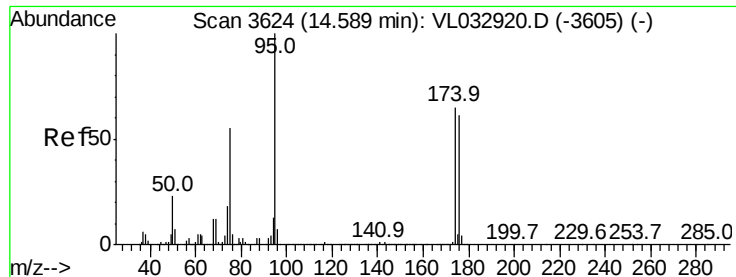
Ion Ratio Lower Upper

117 100

82 64.9 47.8 71.8

119 32.4 43.1 64.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.672 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL033046.D
 Acq: 21 Dec 2018 8:50

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.1	51.4	77.0
175	4.8	3.8	5.6

Manual Integrations
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MMDadoda
 12/24/2018 8:26:32 AM

