

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
 Data File : VL033038.D
 Acq On : 20 Dec 2018 23:21
 Operator : SY/AP
 Sample : J6480-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 8:26:29 AM

Quant Time: Dec 23 11:32:14 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	5.77	49	1390282	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3379893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2086541	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1593068	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.67	45	10268	0.716	ppbv	89
15) Acetone	3.93	43	65765	0.551	ppbv	96
18) 1,1-Dichloroethene	4.36	96	7805m	0.134	ppbv	
22) trans-1,2-Dichloroethene	4.97	96	12224	0.169	ppbv #	78
24) 1,1-Dichloroethane	5.10	63	193425	1.101	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2270399	9.240	ppbv	98
53) Toluene	9.95	91	40908m	0.155	ppbv	

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

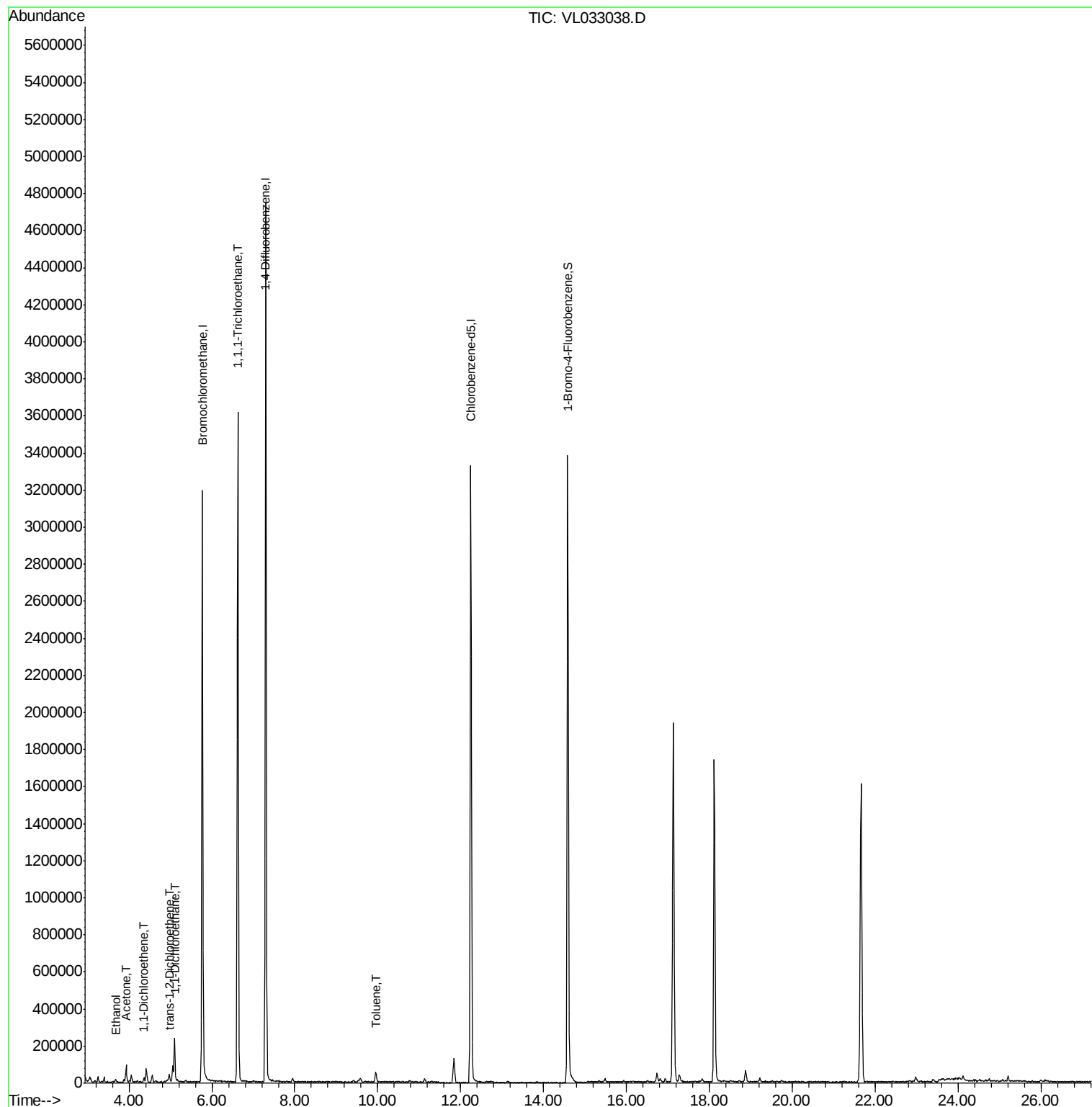
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122018\
Data File : VL033038.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

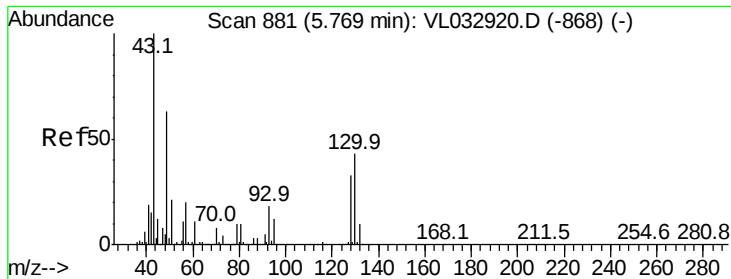
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

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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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033038.D

Acq: 20 Dec 2018 23:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tot Ion: 49 Resp: 1390282

Ion Ratio Lower Upper

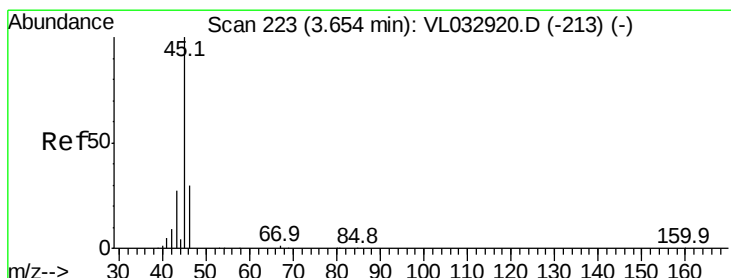
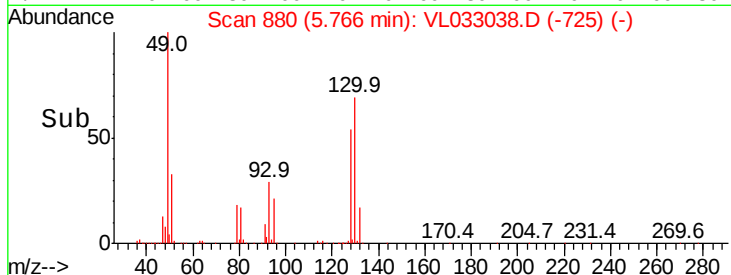
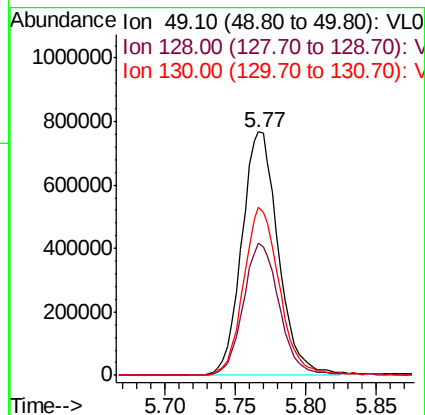
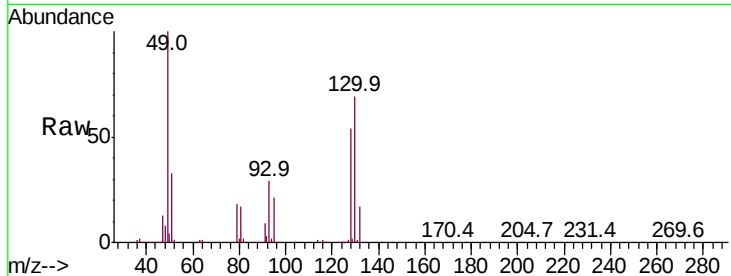
49 100

128 54.3 26.3 78.8

130 68.9 33.9 101.7

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#13

Ethanol

Concen: 0.716 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL033038.D

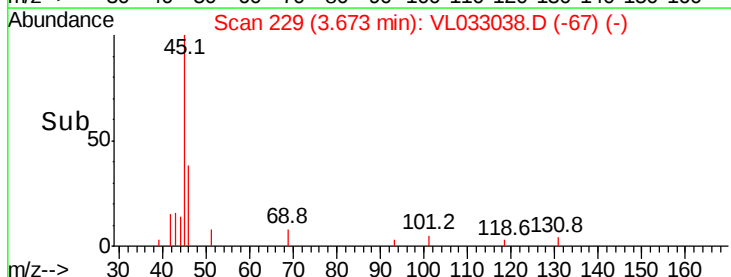
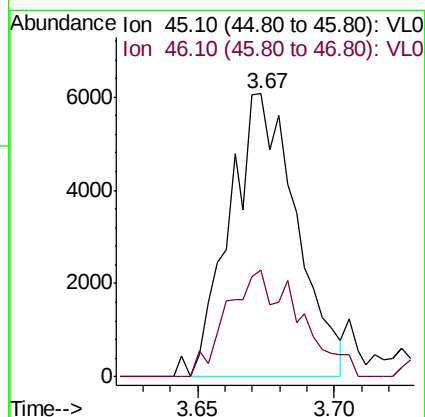
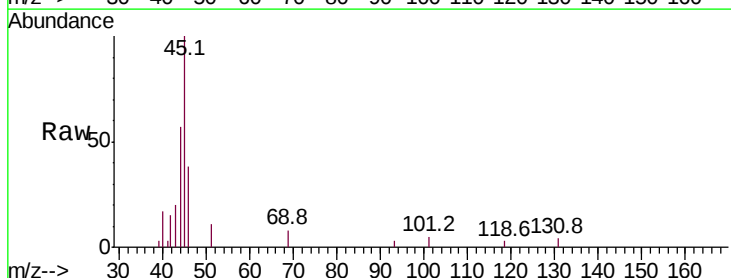
Acq: 20 Dec 2018 23:21

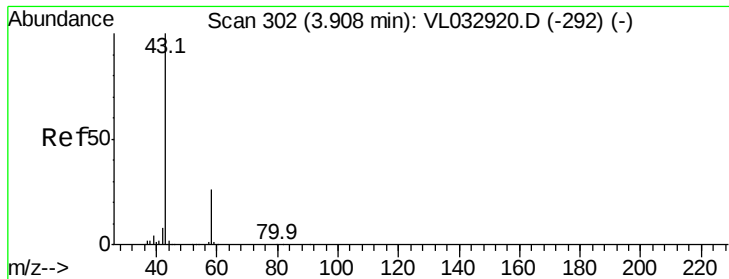
Tgt Ion: 45 Resp: 10268

Ion Ratio Lower Upper

45 100

46 41.0 13.8 55.4





#15

Acetone

Concen: 0.551 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL033038.D

Acq: 20 Dec 2018 23:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tot Ion: 43 Resp: 65765

Ion Ratio Lower Upper

43 100

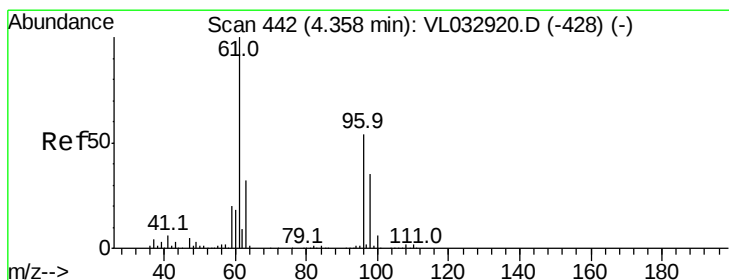
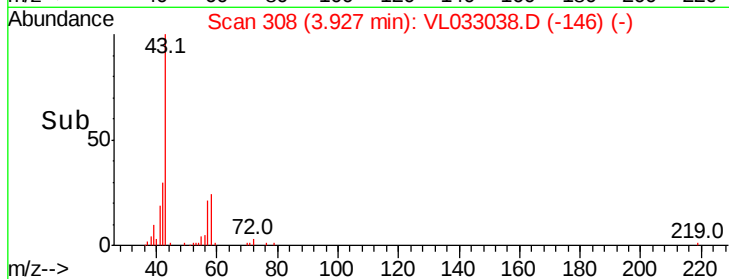
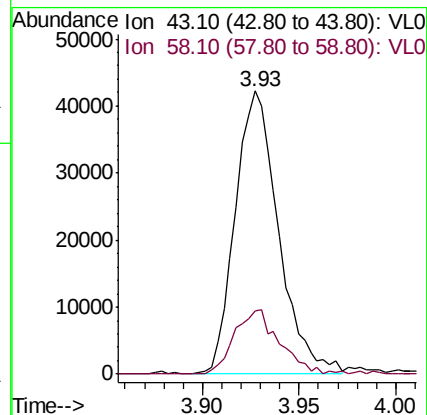
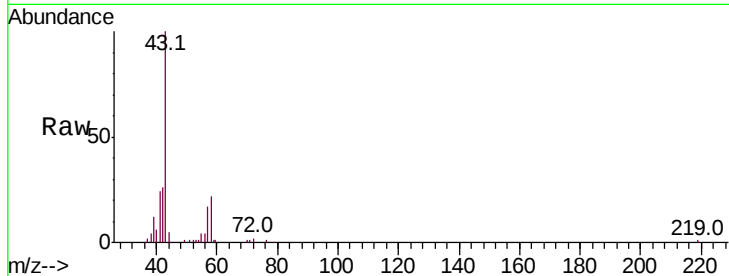
58 23.8 20.6 30.8

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#18

1,1-Dichloroethene

Concen: 0.134 ppbv m

RT: 4.36 min Scan# 443

Delta R.T. 0.00 min

Lab File: VL033038.D

Acq: 20 Dec 2018 23:21

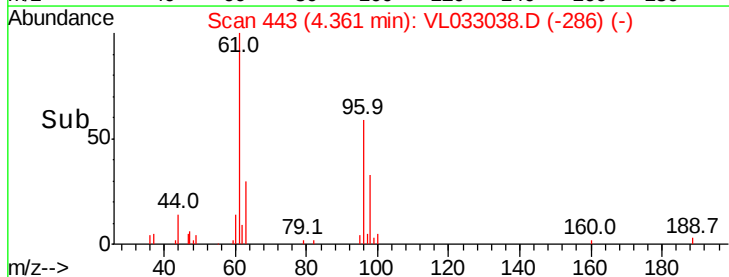
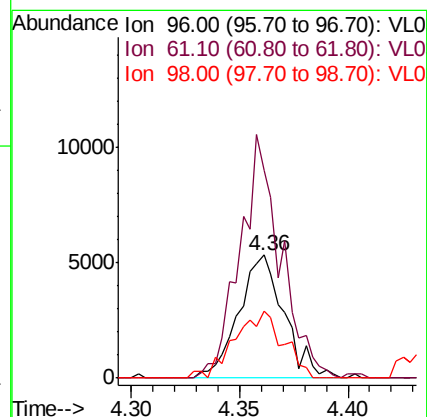
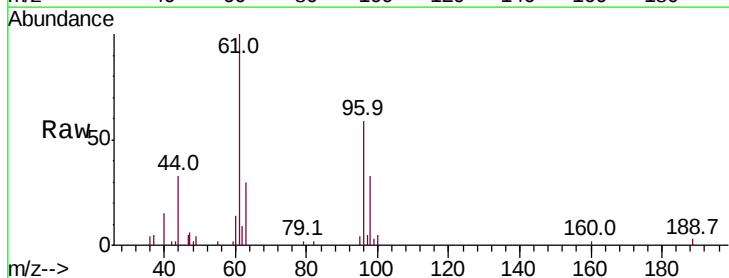
Tgt Ion: 96 Resp: 7805

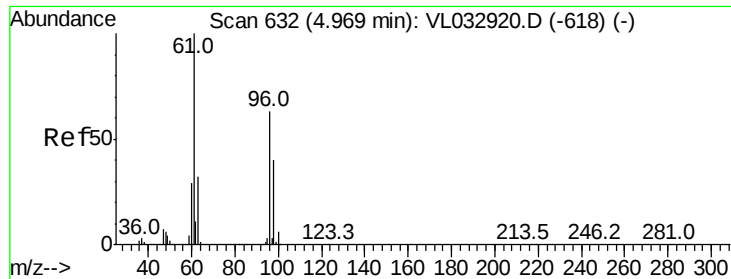
Ion Ratio Lower Upper

96 100

61 168.8 147.0 220.4

98 54.9 50.7 76.1





#22

trans-1,2-Dichloroethene

Concen: 0.169 ppbv

RT: 4.97 min Scan# 633

Delta R.T. 0.00 min

Lab File: VL033038.D

Acq: 20 Dec 2018 23:21

Instrument :

MSVOA_L

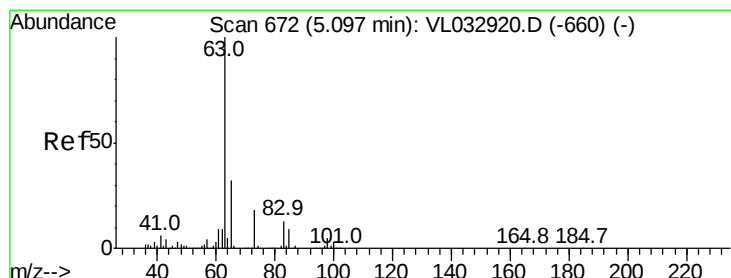
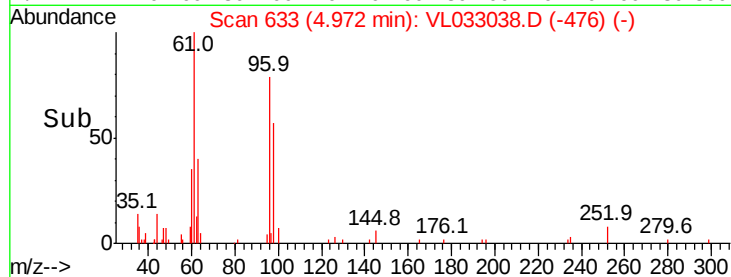
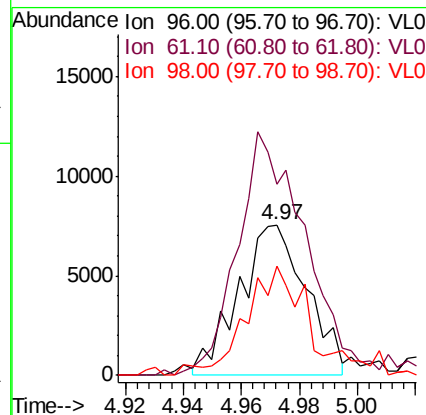
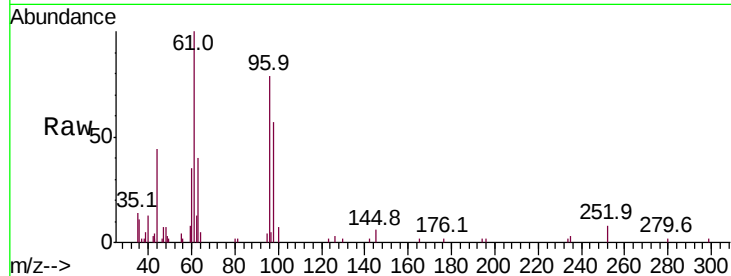
ClientSampleId :

EFFLUENTDL

Tot Ion:	96	Resp:	12224
Ion	Ratio	Lower	Upper
96	100		
61	119.7	127.1	190.7#
98	65.1	51.3	76.9

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#24

1,1-Dichloroethane

Concen: 1.101 ppbv

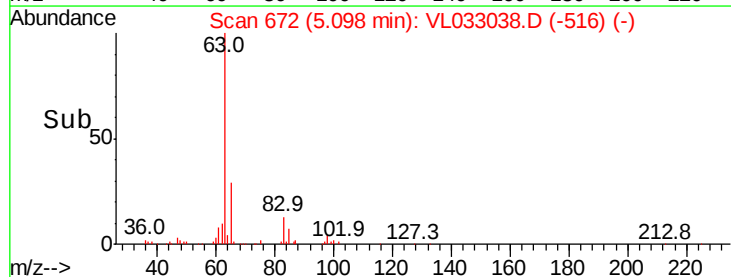
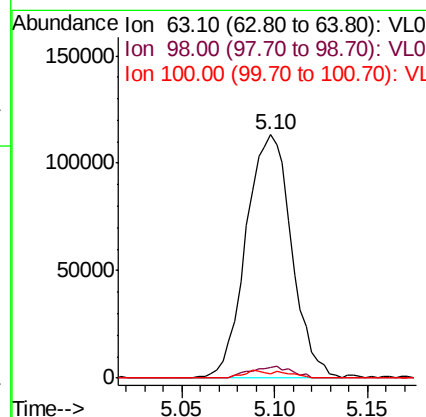
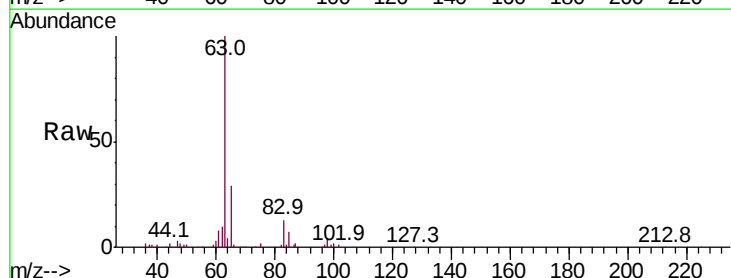
RT: 5.10 min Scan# 672

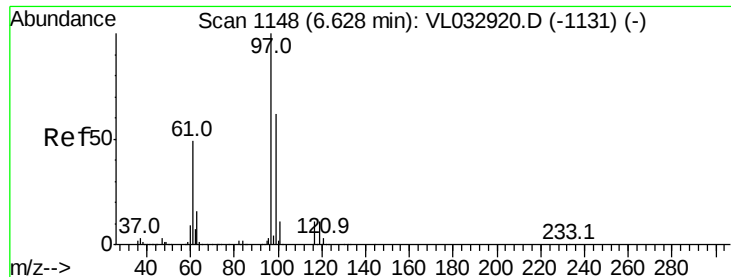
Delta R.T. 0.00 min

Lab File: VL033038.D

Acq: 20 Dec 2018 23:21

Tgt Ion:	63	Resp:	193425
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.5
100	1.9	1.4	4.2





#32

1,1,1-Trichloroethane

Concen: 9.240 ppbv

RT: 6.62 min Scan# 1147

Delta R.T. -0.00 min

Lab File: VL033038.D

Acq: 20 Dec 2018 23:21

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tot Ion: 97 Resp: 2270399

Ion Ratio Lower Upper

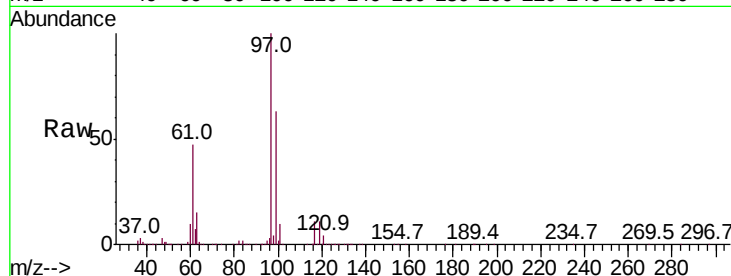
97 100

99 64.8 51.1 76.7

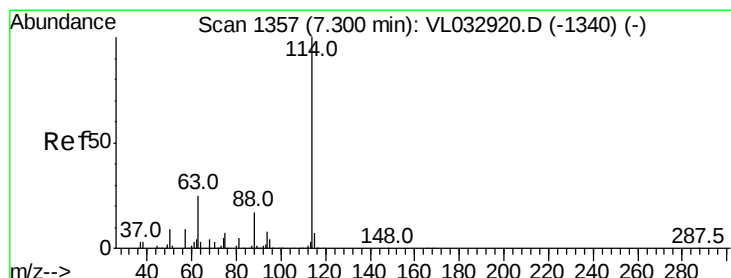
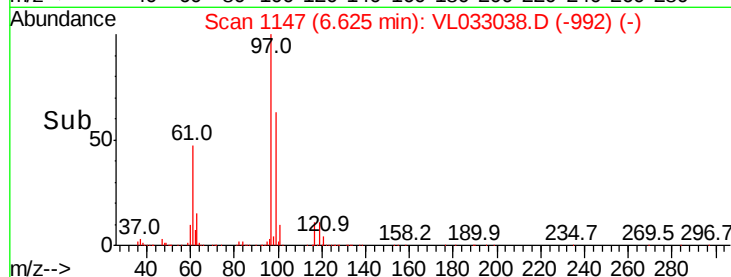
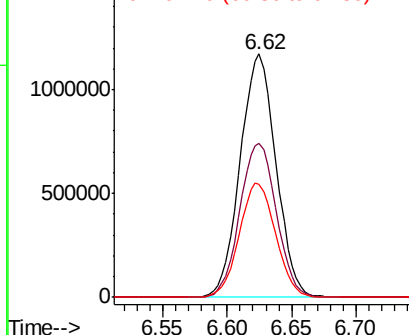
61 47.7 39.3 58.9

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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL033038.D

Acq: 20 Dec 2018 23:21

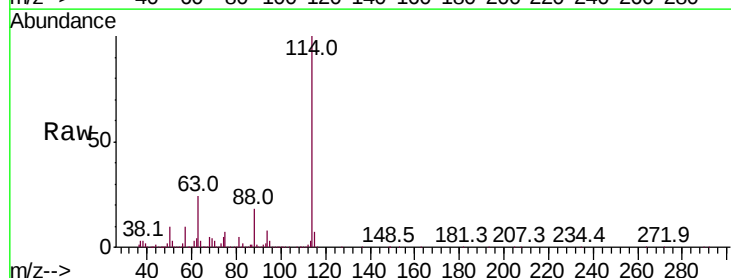
Tgt Ion: 114 Resp: 3379893

Ion Ratio Lower Upper

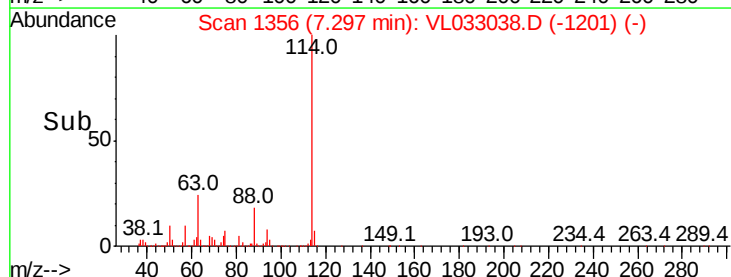
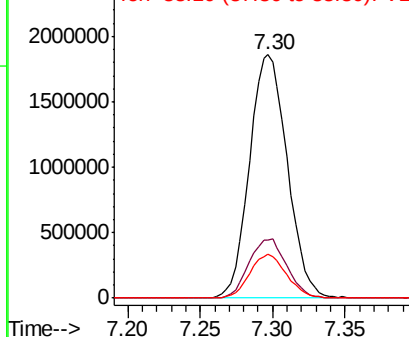
114 100

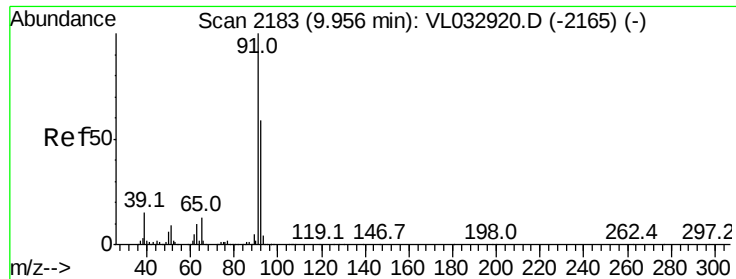
63 24.2 20.1 30.1

88 17.6 14.2 21.4



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





#53

Toluene

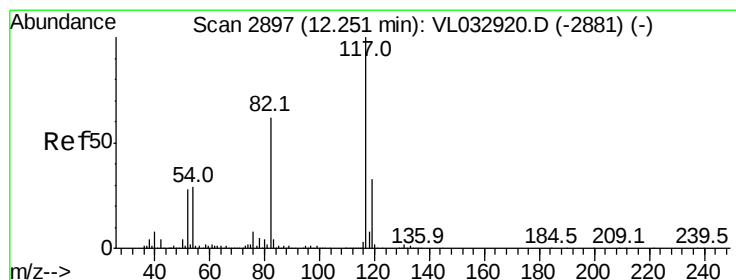
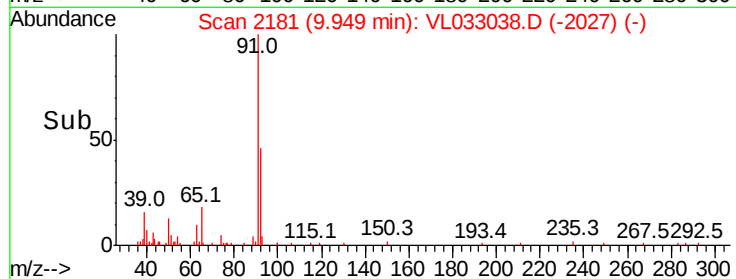
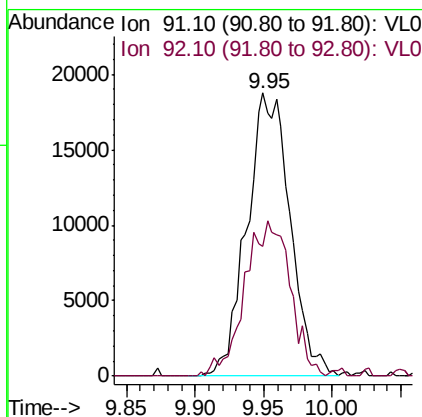
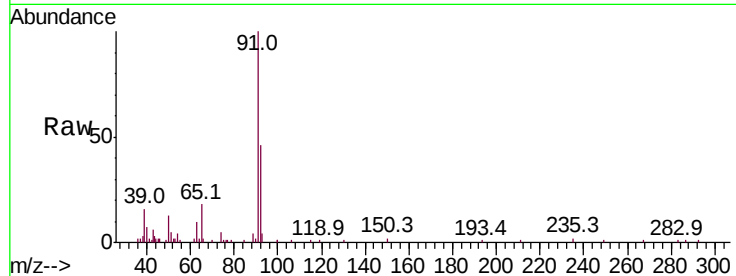
Concen: 0.155 ppbv m
RT: 9.95 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL033038.D
Acq: 20 Dec 2018 23:21

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tot Ion	91	Resp	40908
Ion	Ratio	Lower	Upper
91	100		
92	58.4	47.4	71.0

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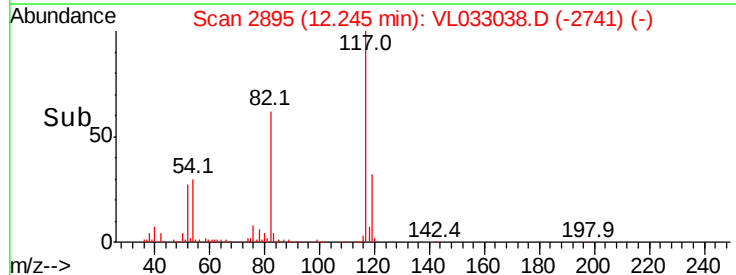
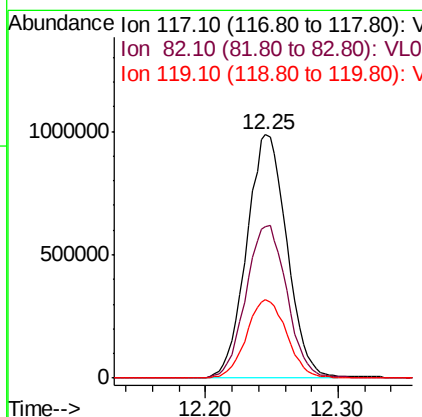
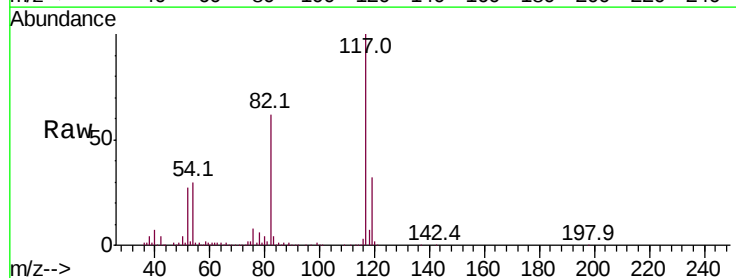


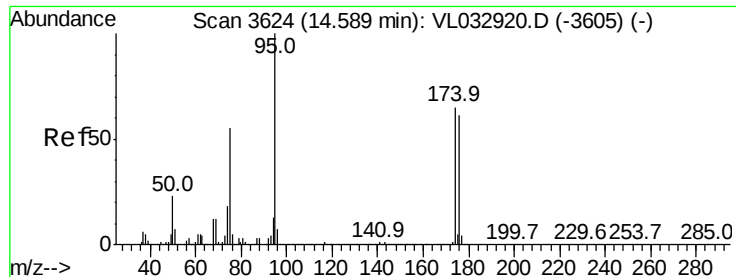
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL033038.D
Acq: 20 Dec 2018 23:21

Tgt Ion	117	Resp	2086541
Ion	Ratio	Lower	Upper
117	100		
82	64.0	47.8	71.8
119	32.6	43.1	64.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.334 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL033038.D
 Acq: 20 Dec 2018 23:21

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

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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