

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033955.D
 Acq On : 25 Jun 2019 3:14
 Operator : SY/AP
 Sample : K3474-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Quant Time: Jun 25 05:13:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	845545	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.27	114	2060413	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2066325	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	1651877	9.73	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

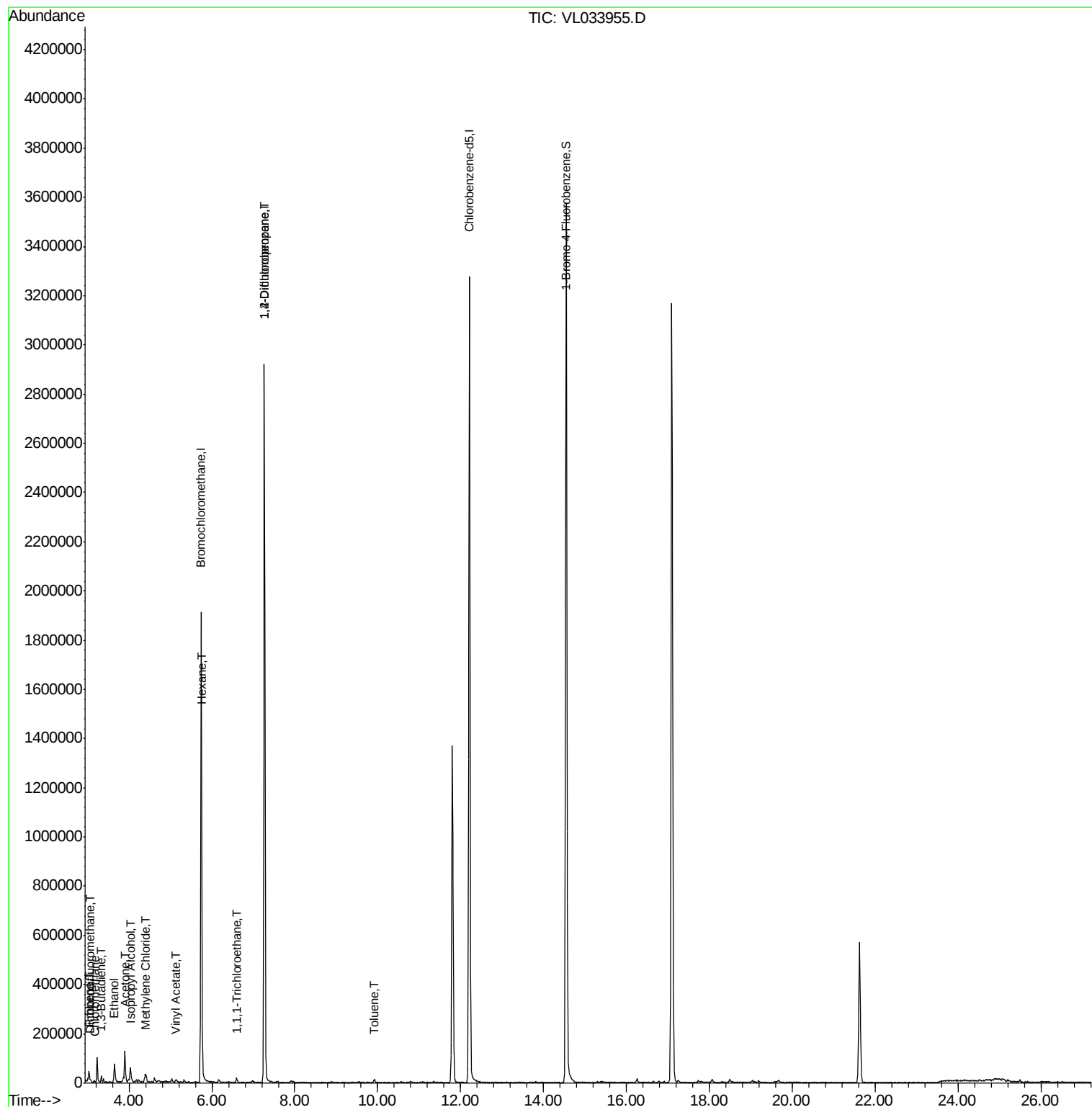
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	10736	0.078 ppbv	94
4) Chloromethane	3.17	50	4480	0.079 ppbv #	76
9) Propene	3.03	41	9466	0.254 ppbv	90
13) Ethanol	3.65	45	74789	6.172 ppbv	98
15) Acetone	3.90	43	123002	0.997 ppbv	92
16) 1,3-Butadiene	3.34	39	2220	0.047 ppbv #	6
19) Isopropyl Alcohol	4.03	45	60998	0.866 ppbv #	93
20) Methylene Chloride	4.40	84	7880	0.164 ppbv #	94
23) Vinyl Acetate	5.13	43	12552	0.088 ppbv #	91
26) Hexane	5.76	57	6108	0.071 ppbv #	47
32) 1,1,1-Trichloroethane	6.60	97	9691	0.069 ppbv	99
39) 1,2-Dichloropropane	7.26	63	512877	8.443 ppbv #	25
53) Toluene	9.92	91	7563	0.043 ppbv #	21

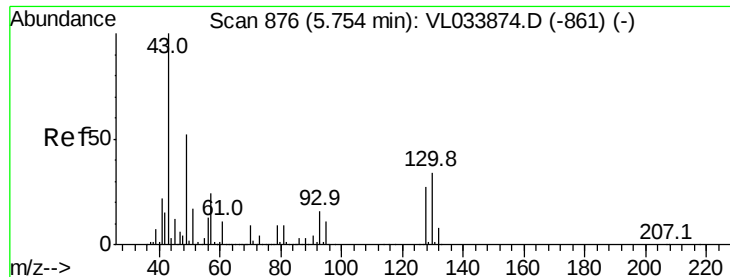
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

Lab File: VL033955.D

Acq: 25 Jun 2019 3:14

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

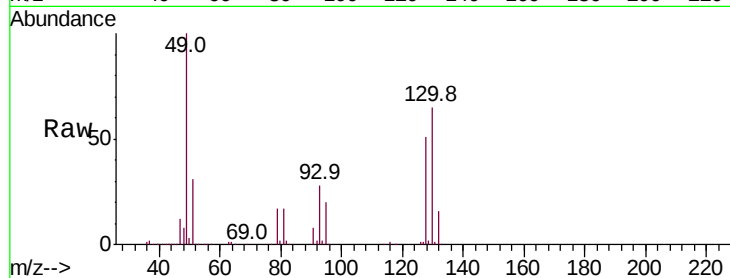
Tot Ion: 49 Resp: 845545

Ion Ratio Lower Upper

49 100

128 52.0 25.5 76.5

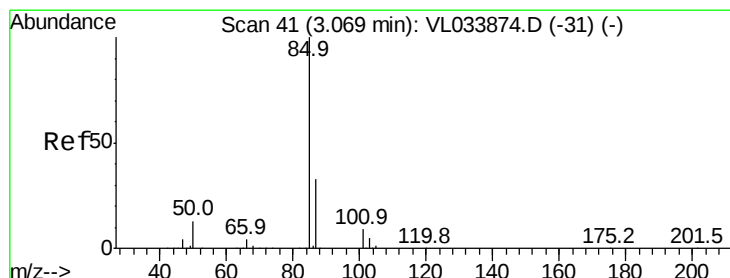
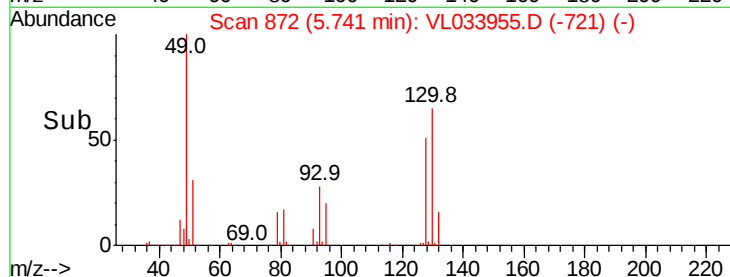
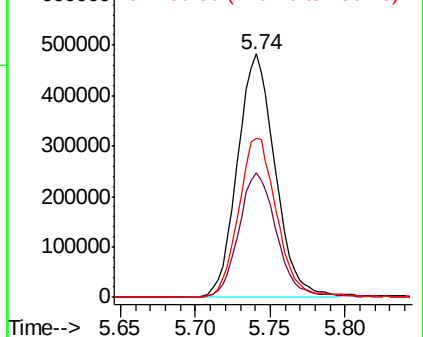
130 66.7 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL

Ion 130.00 (129.70 to 130.70): VL



#2

Dichlorodifluoromethane

Concen: 0.078 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033955.D

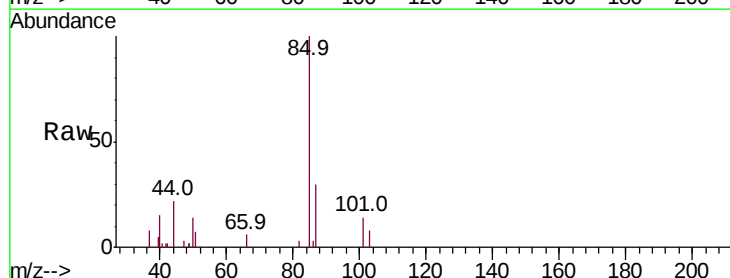
Acq: 25 Jun 2019 3:14

Tgt Ion: 85 Resp: 10736

Ion Ratio Lower Upper

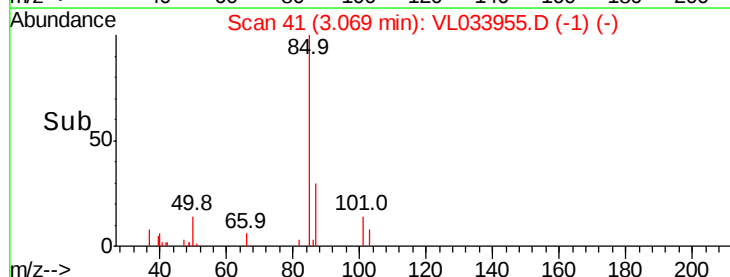
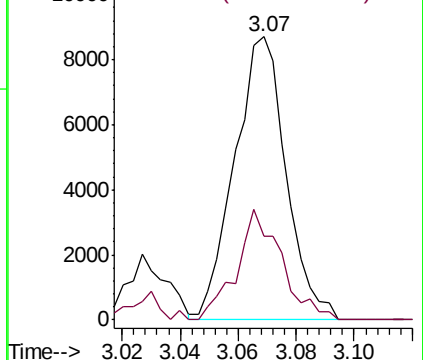
85 100

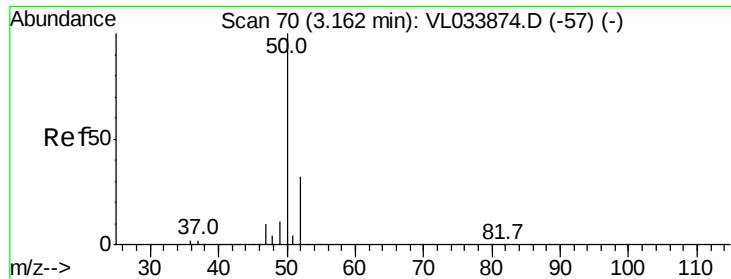
87 29.8 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.079 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL033955.D

Acq: 25 Jun 2019 3:14

Instrument :

MSVOA_L

ClientSampleId :

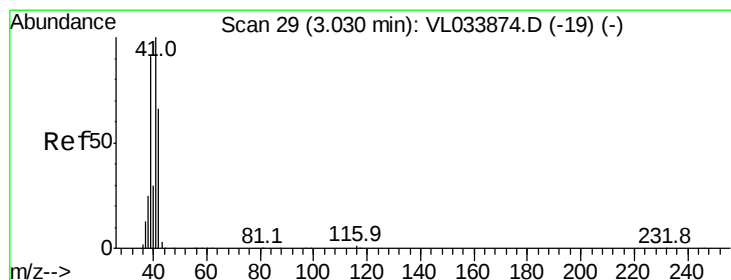
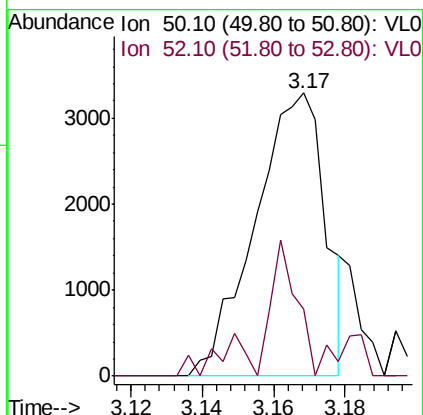
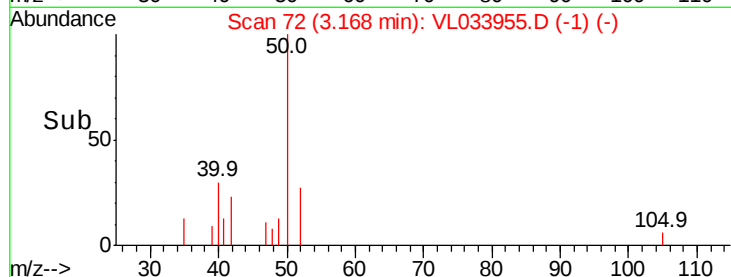
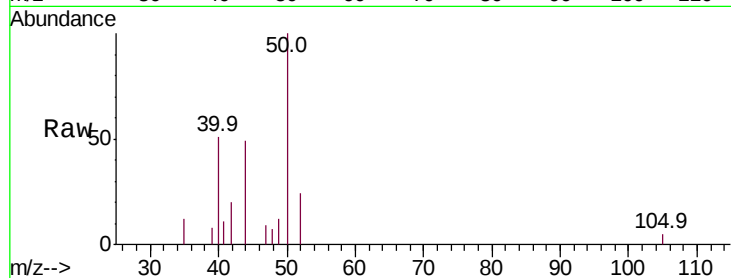
EFFLUENTDL

Tot Ion: 50 Resp: 4480

Ion Ratio Lower Upper

50 100

52 18.5 25.4 38.0#



#9

Propene

Concen: 0.254 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033955.D

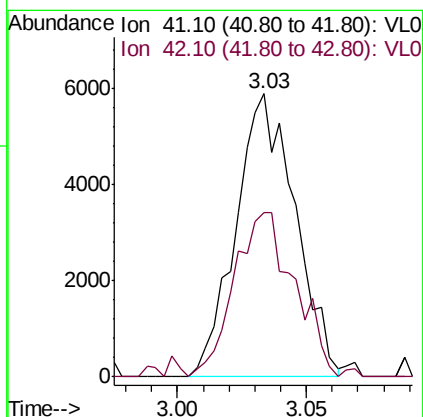
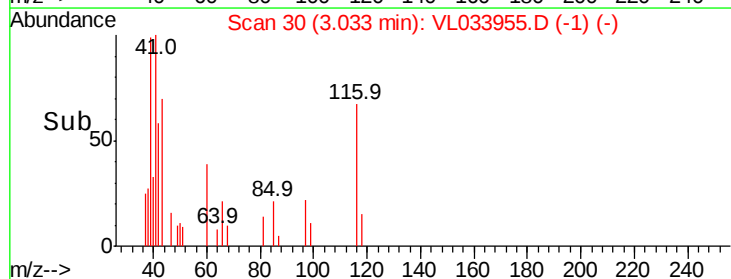
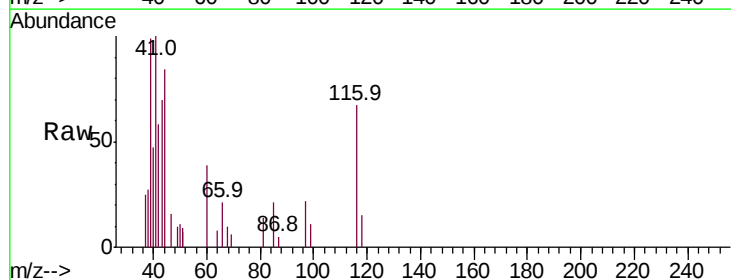
Acq: 25 Jun 2019 3:14

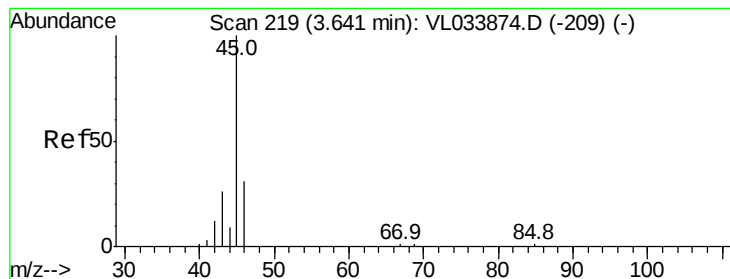
Tgt Ion: 41 Resp: 9466

Ion Ratio Lower Upper

41 100

42 62.1 56.3 84.5





#13

Ethanol

Concen: 6.172 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.01 min

Lab File: VL033955.D

Acq: 25 Jun 2019 3:14

Instrument :

MSVOA_L

ClientSampleId :

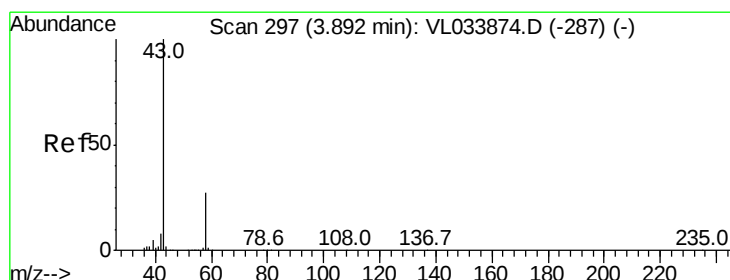
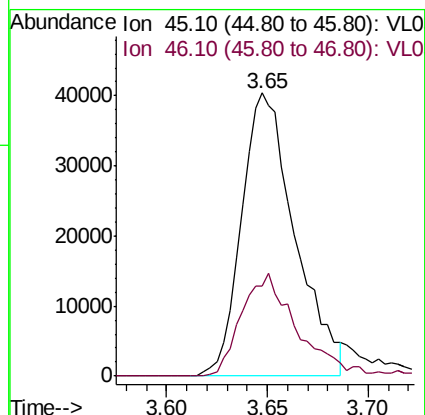
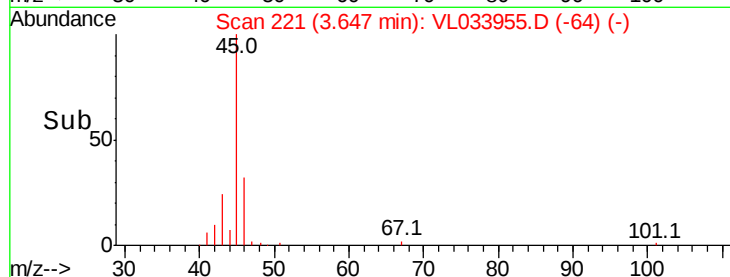
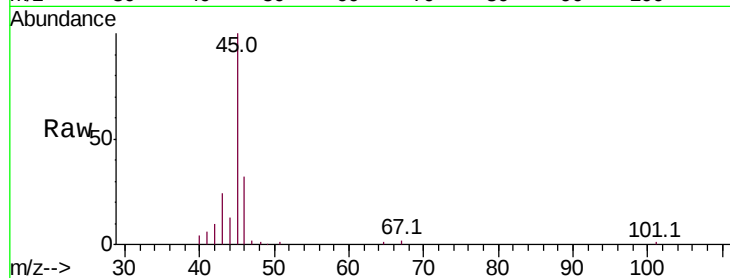
EFFLUENTDL

Tot Ion: 45 Resp: 74789

Ion Ratio Lower Upper

45 100

46 39.6 15.3 61.1



#15

Acetone

Concen: 0.997 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL033955.D

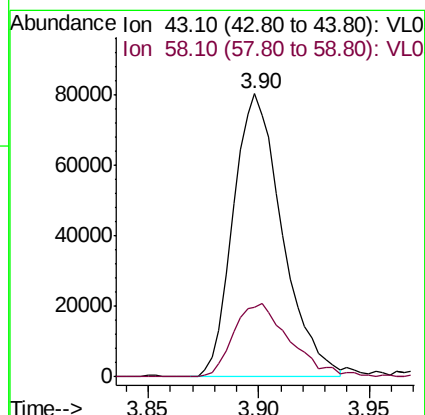
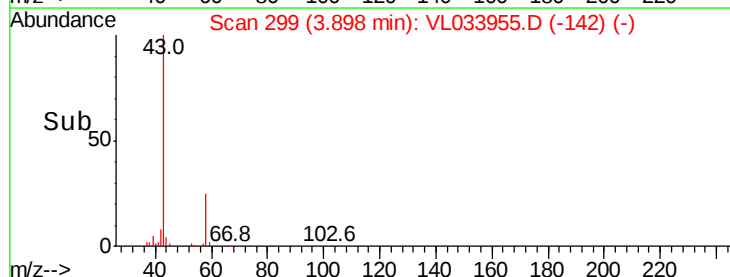
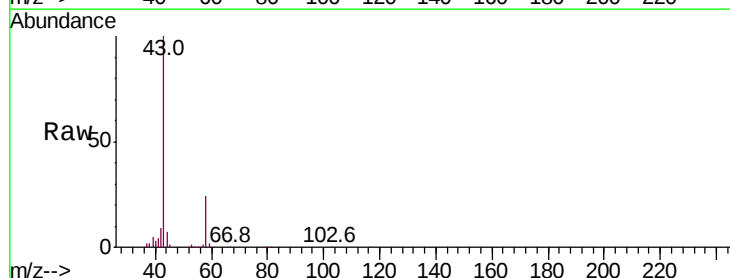
Acq: 25 Jun 2019 3:14

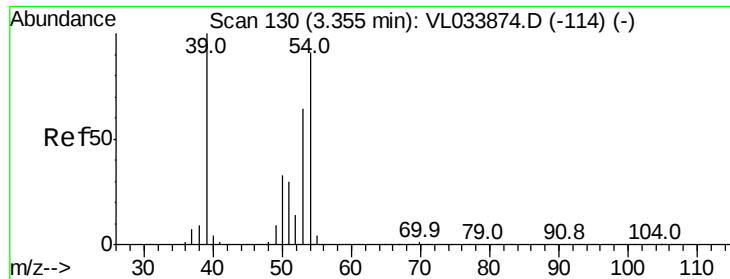
Tgt Ion: 43 Resp: 123002

Ion Ratio Lower Upper

43 100

58 30.5 21.3 31.9

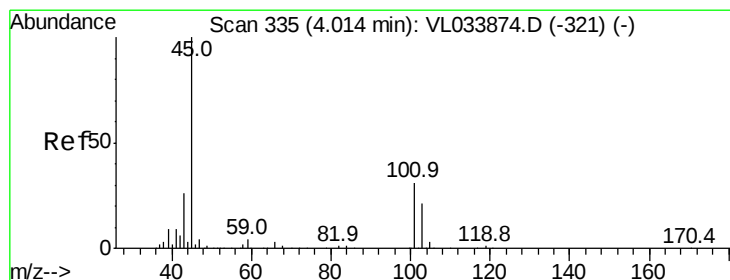
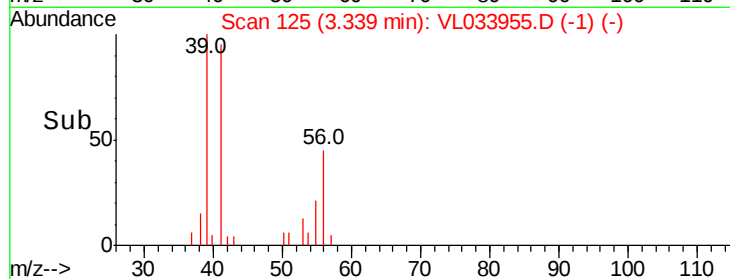
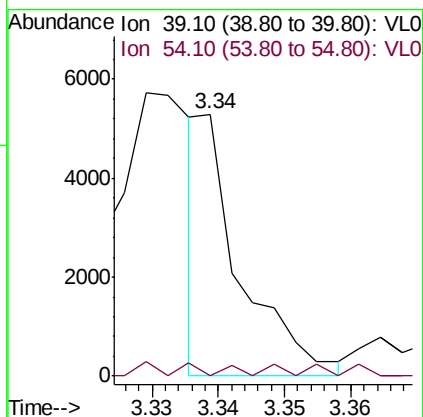
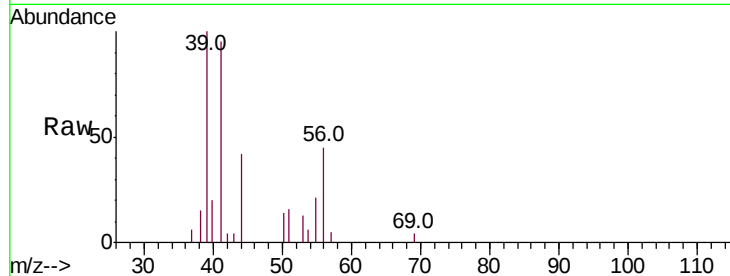




#16
 1,3-Butadiene
 Concen: 0.047 ppbv
 RT: 3.34 min Scan# 125
 Delta R.T. -0.02 min
 Lab File: VL033955.D
 Acq: 25 Jun 2019 3:14

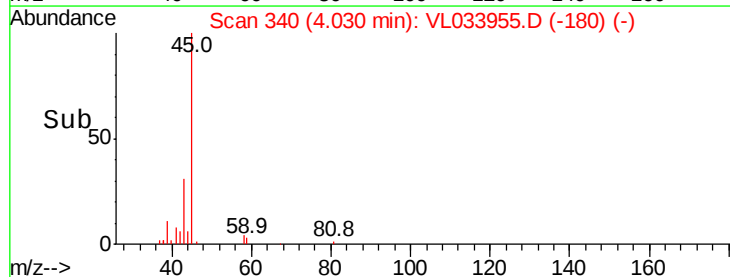
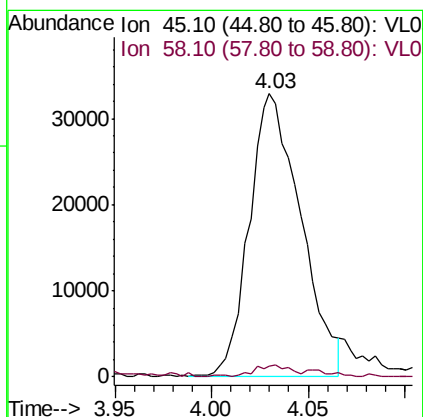
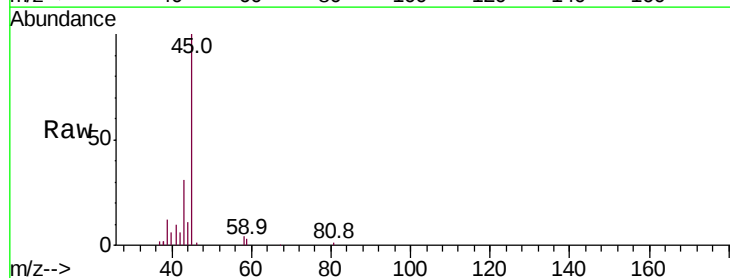
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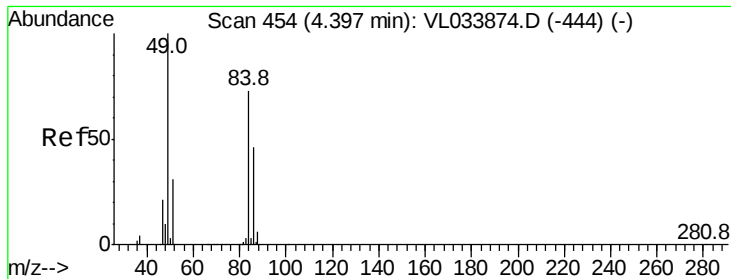
Tot Ion: 39 Resp: 2220
 Ion Ratio Lower Upper
 39 100
 54 0.0 68.6 103.0#



#19
 Isopropyl Alcohol
 Concen: 0.866 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. 0.02 min
 Lab File: VL033955.D
 Acq: 25 Jun 2019 3:14

Tgt Ion: 45 Resp: 60998
 Ion Ratio Lower Upper
 45 100
 58 4.5 1.8 2.6#

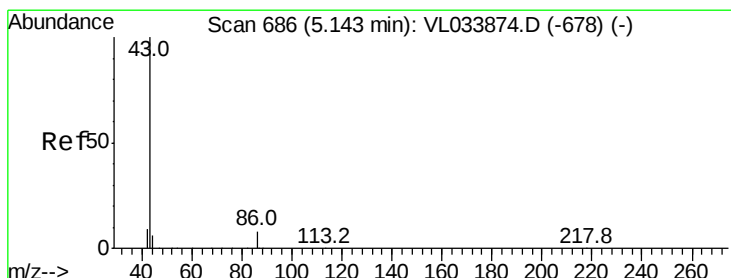
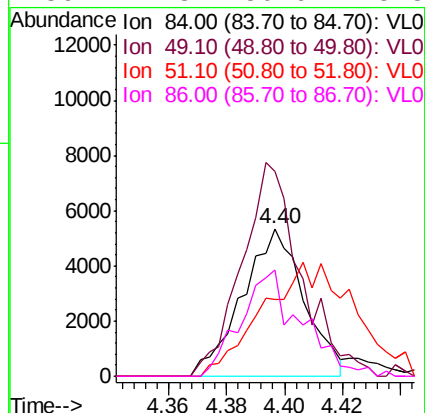
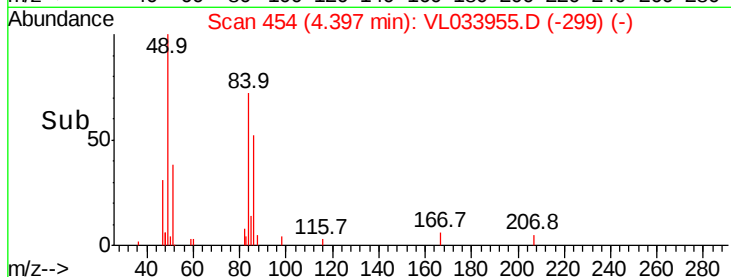
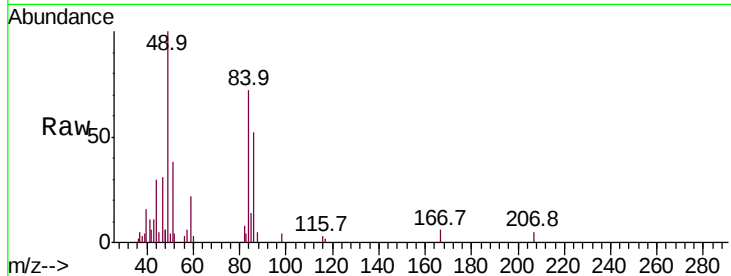




#20
Methvlene Chloride
Concen: 0.164 ppbv
RT: 4.40 min Scan# 454
Delta R.T. -0.00 min
Lab File: VL033955.D
Acq: 25 Jun 2019 3:14

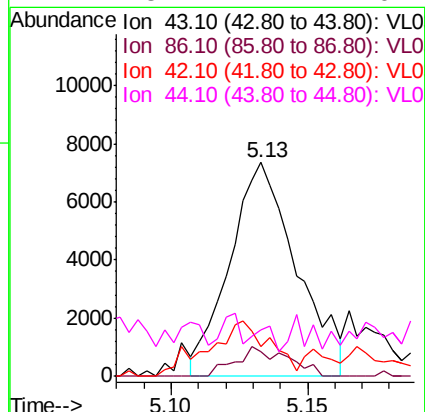
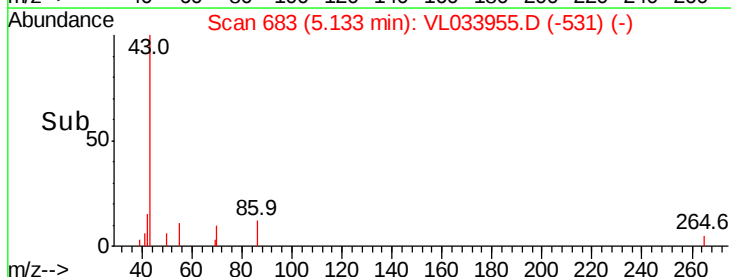
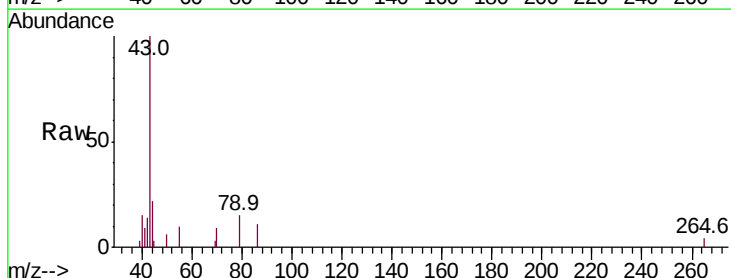
Instrument :
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ClientSampleId :
EFFLUENTDL

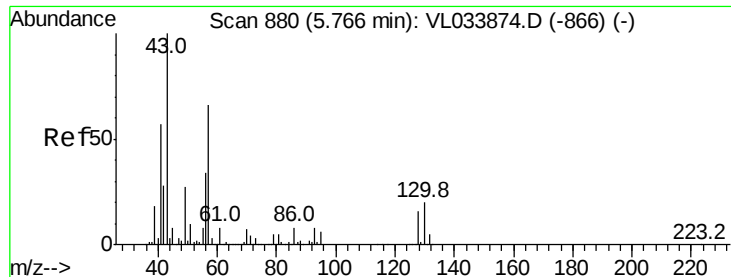
Tot Ion: 84 Resp: 7880
Ion Ratio Lower Upper
84 100
49 139.1 110.0 165.0
51 52.3 34.6 51.8#
86 72.3 50.6 75.8



#23
Vinyl Acetate
Concen: 0.088 ppbv
RT: 5.13 min Scan# 683
Delta R.T. -0.01 min
Lab File: VL033955.D
Acq: 25 Jun 2019 3:14

Tgt Ion: 43 Resp: 12552
Ion Ratio Lower Upper
43 100
86 12.6 5.8 8.8#
42 8.6 7.8 11.8
44 8.4 4.2 6.4#

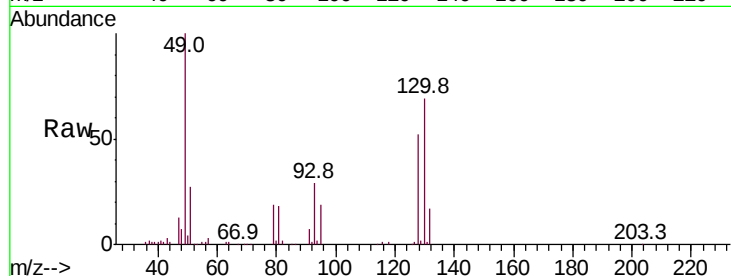




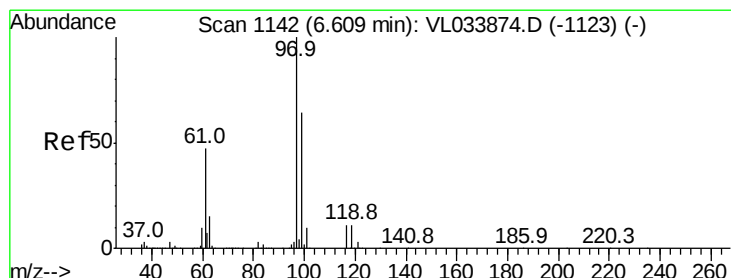
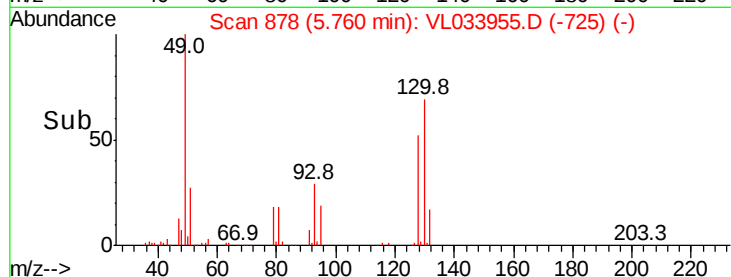
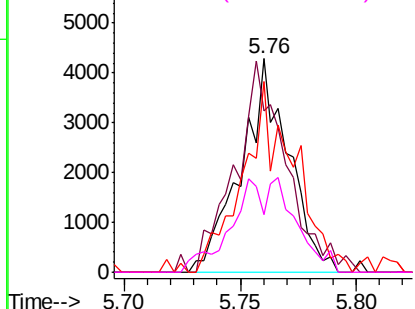
#26
Hexane
Concen: 0.071 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033955.D
Acq: 25 Jun 2019 3:14

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tot Ion: 57 Resp: 6108
Ion Ratio Lower Upper
57 100
41 107.2 71.4 107.2
43 102.5 183.7 275.5#
56 57.3 42.7 64.1

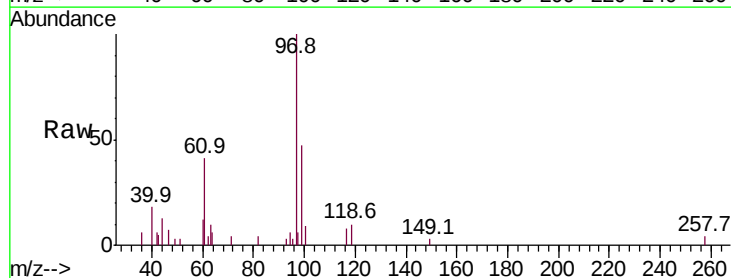


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

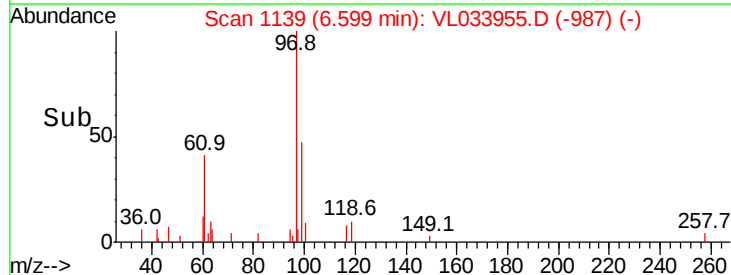
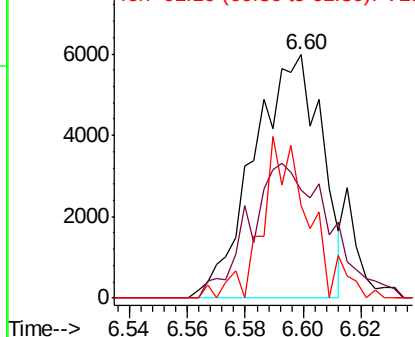


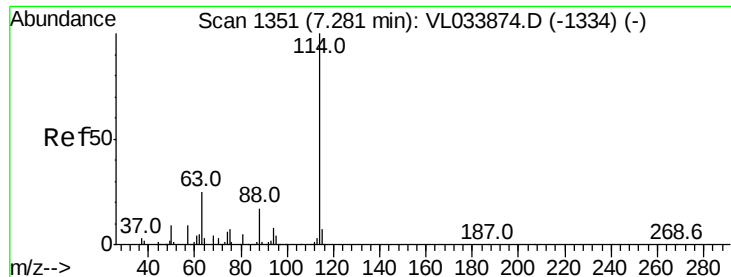
#32
1,1,1-Trichloroethane
Concen: 0.069 ppbv
RT: 6.60 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VL033955.D
Acq: 25 Jun 2019 3:14

Tgt Ion: 97 Resp: 9691
Ion Ratio Lower Upper
97 100
99 65.1 51.7 77.5
61 46.2 37.7 56.5



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

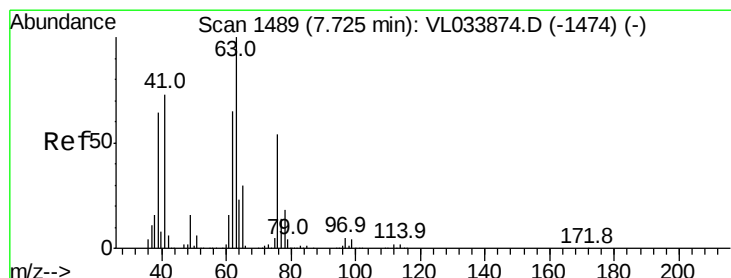
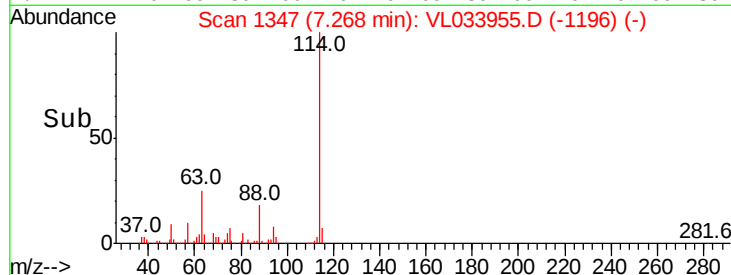
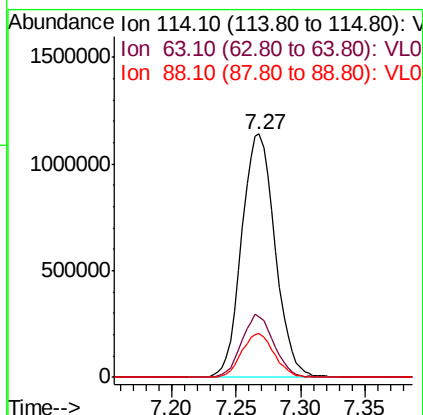
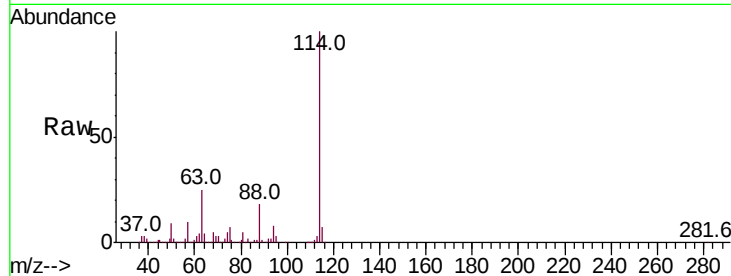




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1347
 Delta R.T. -0.01 min
 Lab File: VL033955.D
 Acq: 25 Jun 2019 3:14

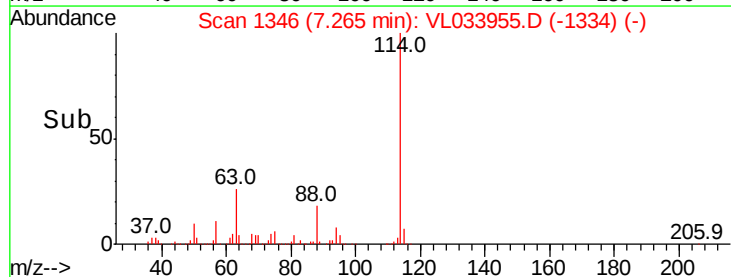
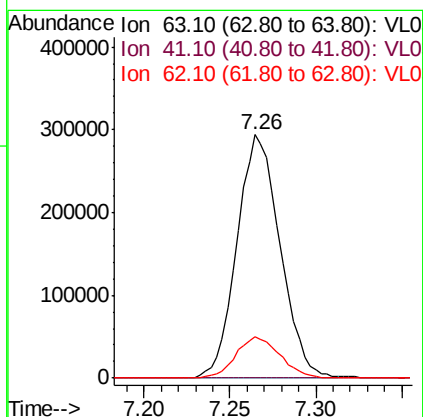
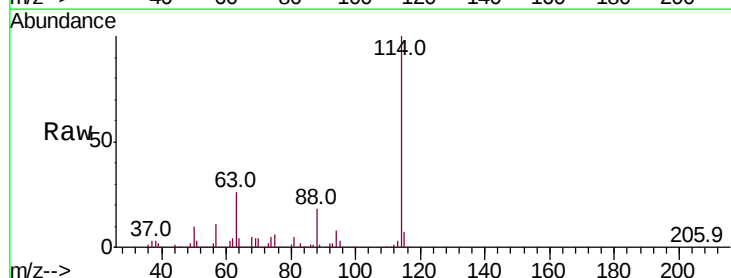
Instrument :
 MSVOA_L
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 EFFLUENTDL

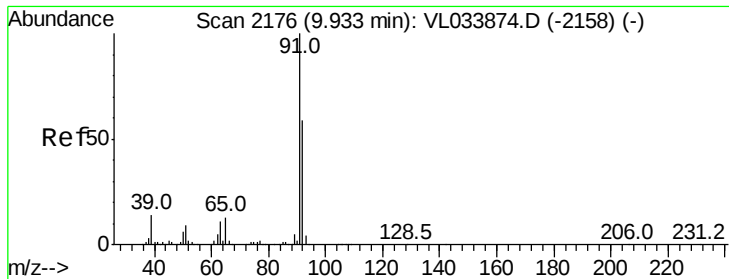
Tot Ion:114 Resp: 2060413
 Ion Ratio Lower Upper
 114 100
 63 25.0 21.1 31.7
 88 17.6 14.2 21.4



#39
 1,2-Dichloropropane
 Concen: 8.443 ppbv
 RT: 7.26 min Scan# 1346
 Delta R.T. -0.46 min
 Lab File: VL033955.D
 Acq: 25 Jun 2019 3:14

Tgt Ion: 63 Resp: 512877
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.7 88.1#
 62 17.1 51.9 77.9#





#53

Toluene

Concen: 0.043 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033955.D

Acq: 25 Jun 2019 3:14

Instrument :

MSVOA_L

ClientSampleId :

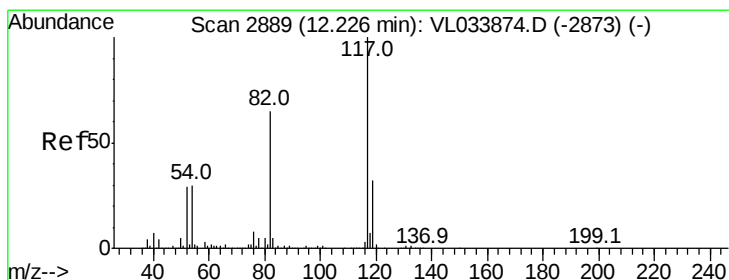
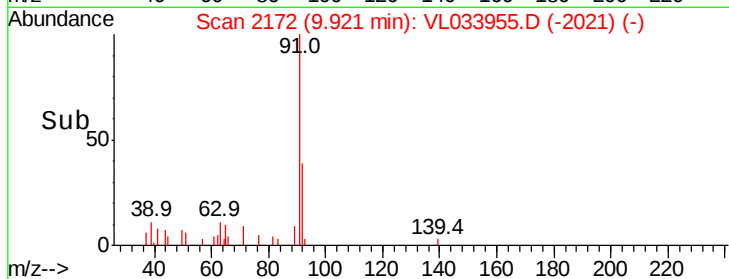
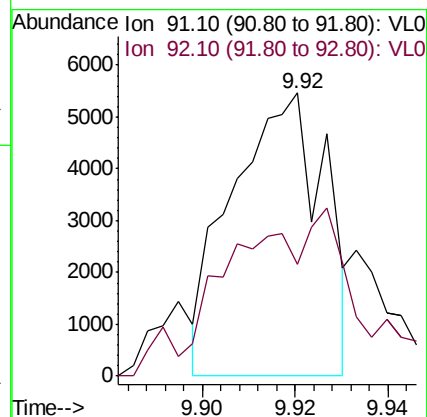
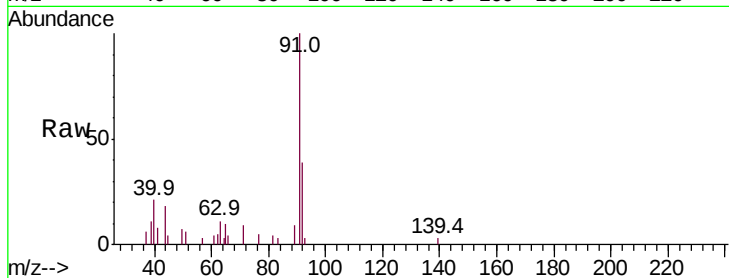
EFFLUENTDL

Tot Ion: 91 Resp: 7563

Ion Ratio Lower Upper

91 100

92 0.0 47.0 70.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033955.D

Acq: 25 Jun 2019 3:14

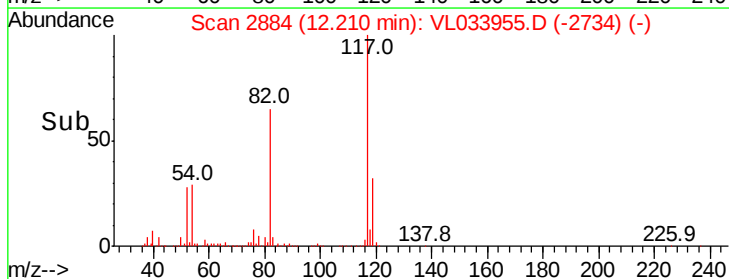
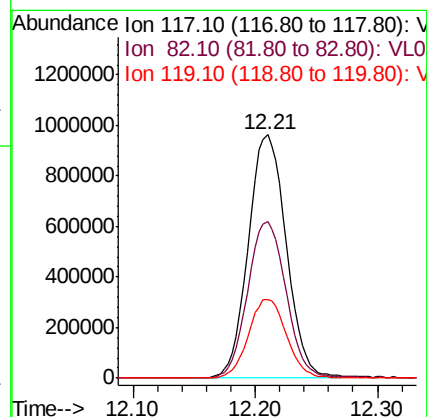
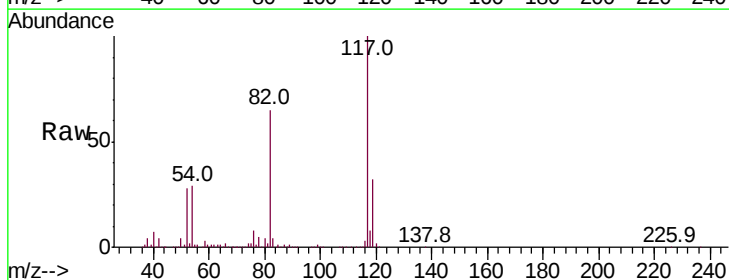
Tgt Ion: 117 Resp: 2066325

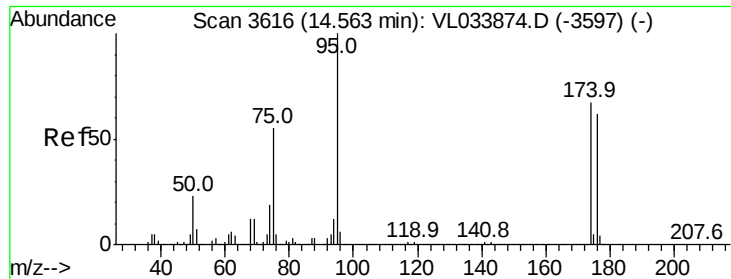
Ion Ratio Lower Upper

117 100

82 65.7 50.2 75.2

119 32.7 24.8 37.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.733 ppbv

RT: 14.54 min Scan# 3610

Delta R.T. -0.02 min

Lab File: VL033955.D

Acq: 25 Jun 2019 3:14

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

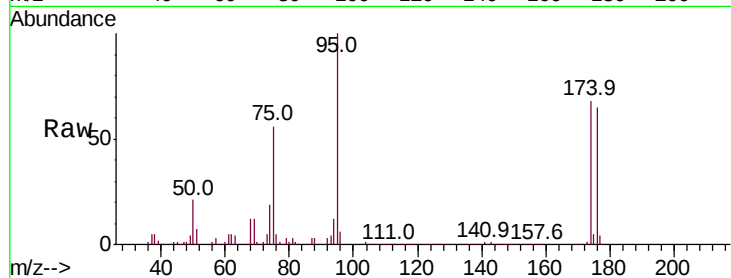
Tot Ion: 95 Resp: 1651877

Ion Ratio Lower Upper

95 100

174 68.7 54.0 81.0

175 4.9 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

