

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034892.D
 Acq On : 16 Mar 2020 16:04
 Operator : SY/AP
 Sample : L1924-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-02DL

Quant Time: Mar 17 04:26:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	914135	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1958907	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	1944503	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1571199	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

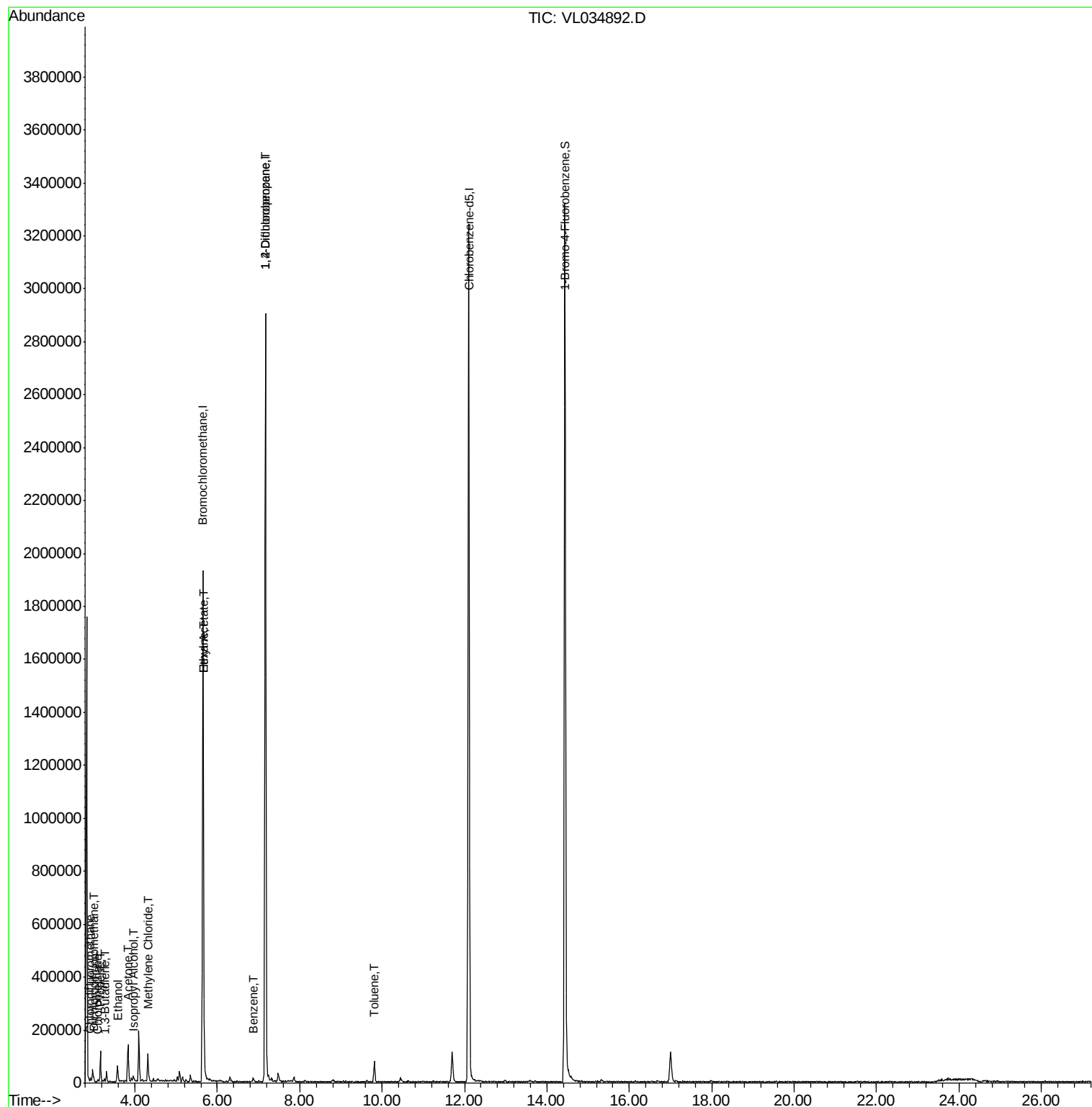
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	9736	0.078	ppbv	93
3) Chlorodifluoromethane	2.92	51	11164	0.109	ppbv #	84
4) Chloromethane	3.10	50	2248	0.039	ppbv	96
9) Propene	3.16	41	28105	0.576	ppbv	95
13) Ethanol	3.57	45	57808	3.900	ppbv	93
15) Acetone	3.83	43	102062	0.861	ppbv	94
16) 1,3-Butadiene	3.27	39	1794	0.033	ppbv #	9
19) Isopropyl Alcohol	3.96	45	15397	0.206	ppbv #	49
20) Methylene Chloride	4.31	84	29541	0.789	ppbv	92
25) Ethyl Acetate	5.67	43	25478	0.121	ppbv #	92
26) Hexane	5.67	57	15546	0.171	ppbv #	59
36) Benzene	6.88	78	6594	0.038	ppbv #	62
39) 1,2-Dichloropropane	7.17	63	531890	7.689	ppbv #	22
53) Toluene	9.81	91	51235	0.254	ppbv	97

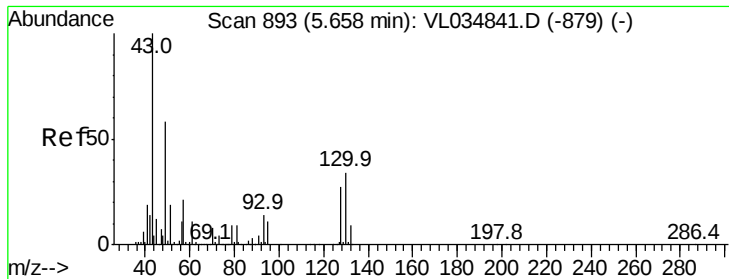
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL034892.D

Acq: 16 Mar 2020 16:04

Instrument :

MSVOA_L

ClientSampleId :

IA-02DL

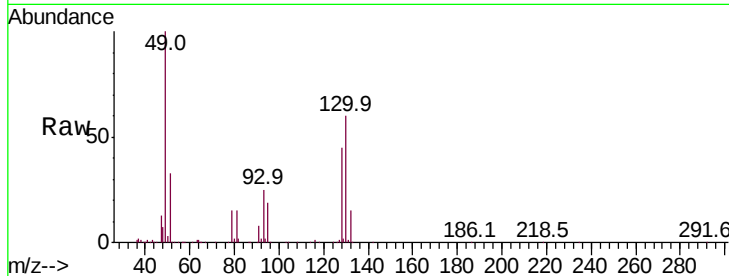
Tot Ion: 49 Resp: 914135

Ion Ratio Lower Upper

49 100

128 44.9 23.4 70.3

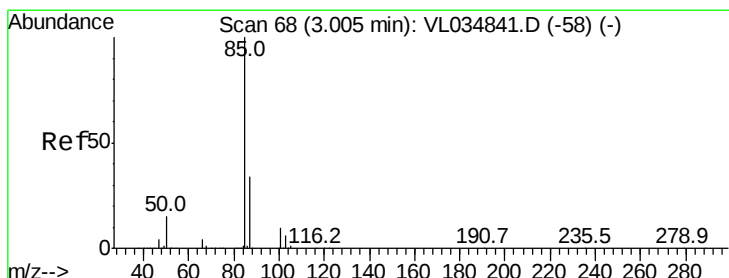
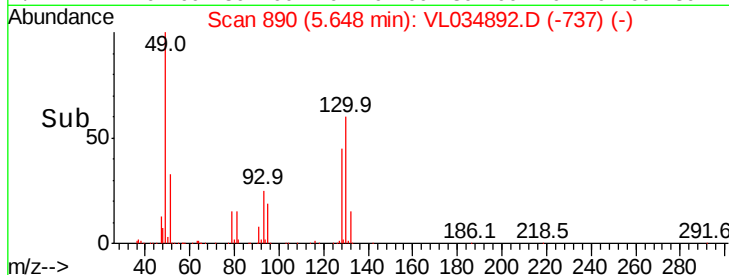
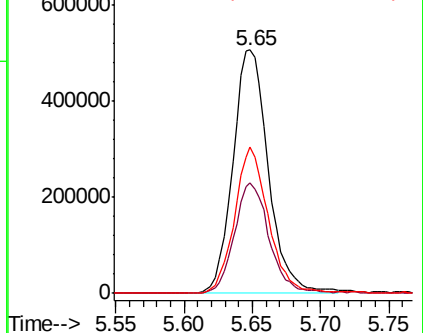
130 58.1 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.078 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL034892.D

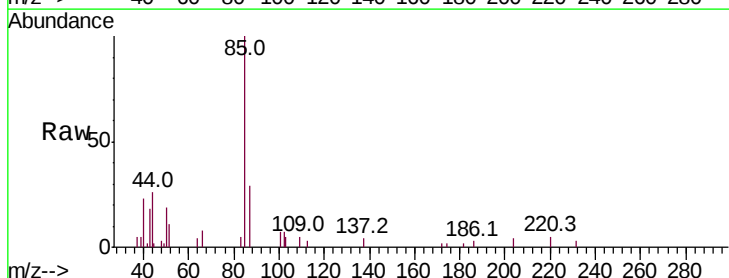
Acq: 16 Mar 2020 16:04

Tgt Ion: 85 Resp: 9736

Ion Ratio Lower Upper

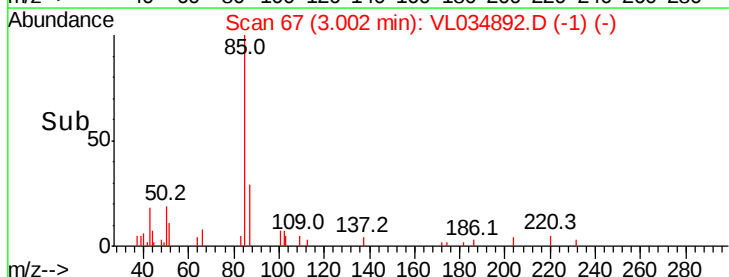
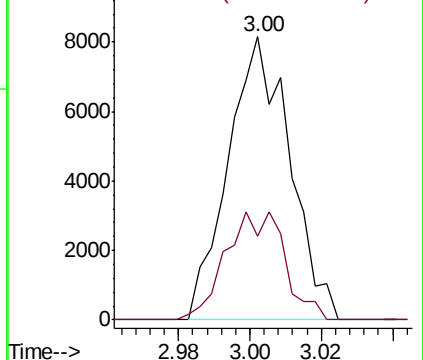
85 100

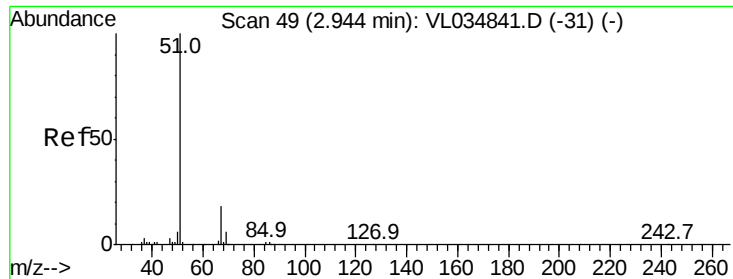
87 29.5 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

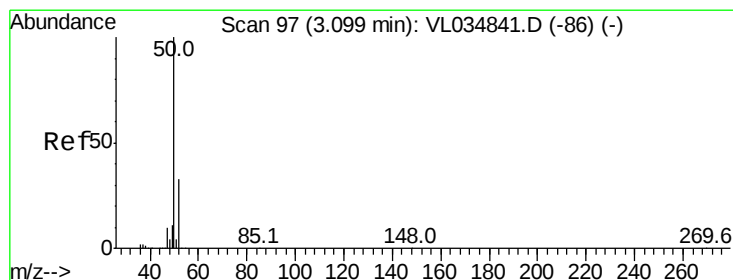
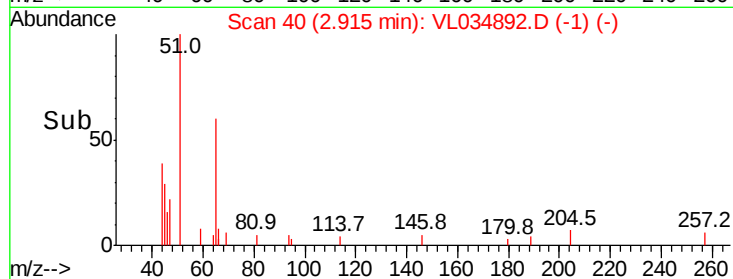
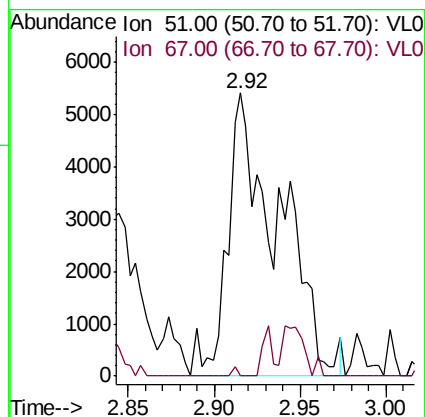
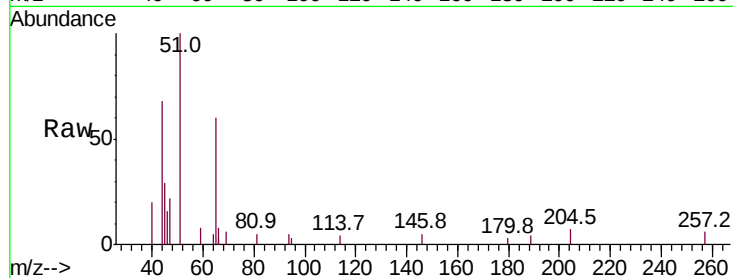




#3
Chlorodifluoromethane
Concen: 0.109 ppbv
RT: 2.92 min Scan# 40
Delta R.T. -0.03 min
Lab File: VL034892.D
Acq: 16 Mar 2020 16:04

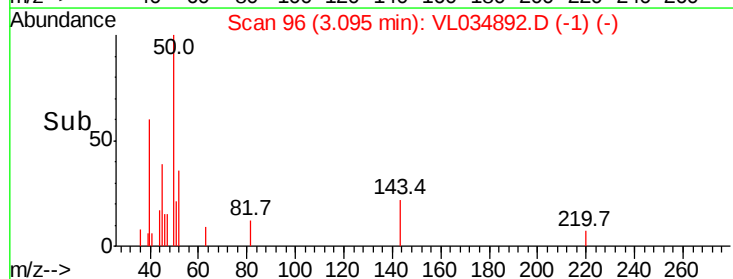
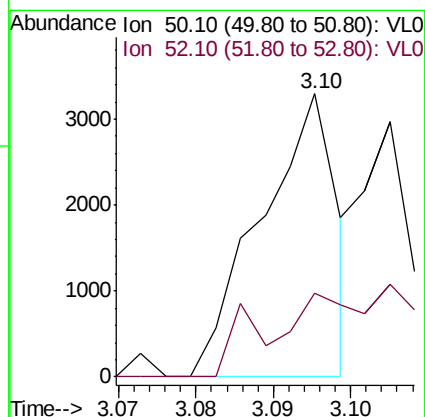
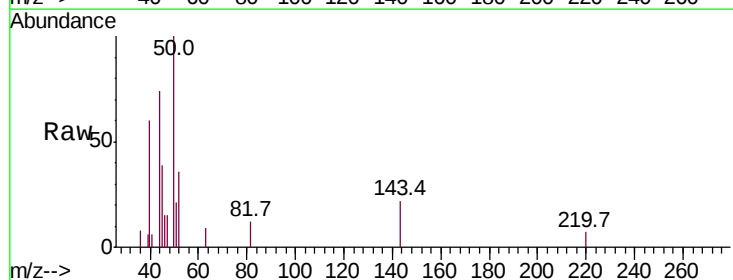
Instrument :
MSVOA_L
ClientSampleId :
IA-02DL

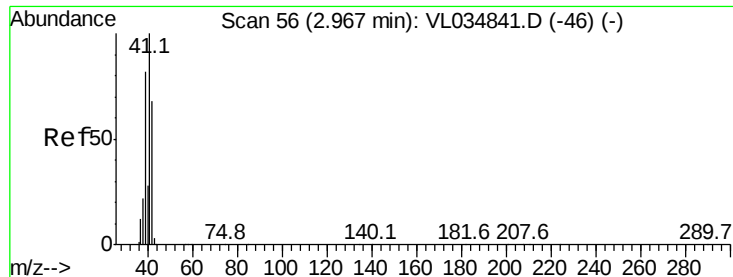
Tot Ion: 51 Resp: 11164
Ion Ratio Lower Upper
51 100
67 10.8 14.3 21.5#



#4
Chloromethane
Concen: 0.039 ppbv
RT: 3.10 min Scan# 96
Delta R.T. -0.00 min
Lab File: VL034892.D
Acq: 16 Mar 2020 16:04

Tgt Ion: 50 Resp: 2248
Ion Ratio Lower Upper
50 100
52 31.3 26.8 40.2





#9

Propene

Concen: 0.576 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.20 min

Lab File: VL034892.D

Acq: 16 Mar 2020 16:04

Instrument :

MSVOA_L

ClientSampleId :

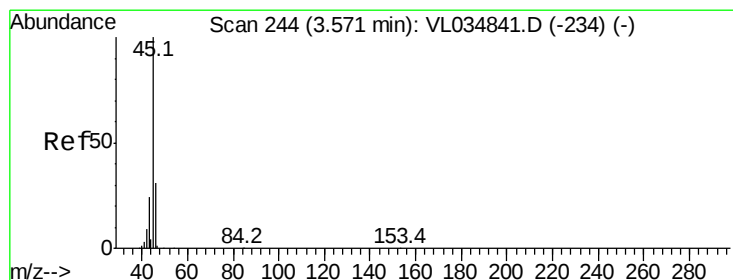
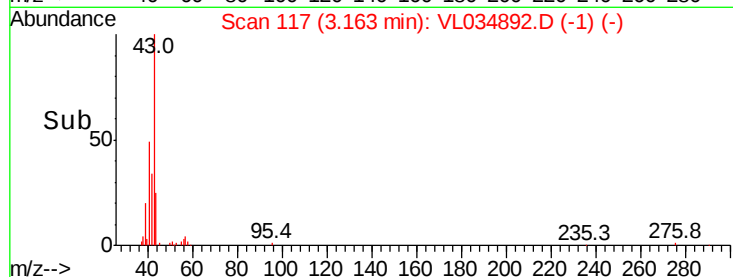
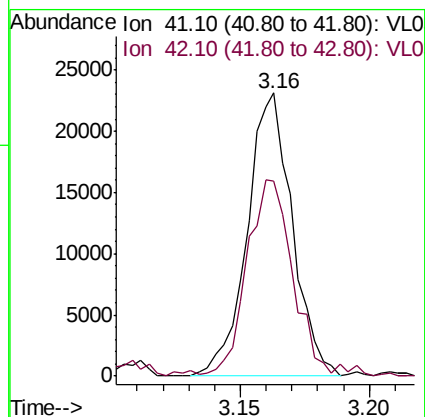
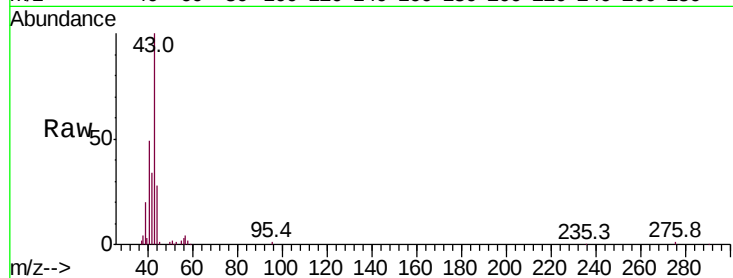
IA-02DL

Tot Ion: 41 Resp: 28105

Ion Ratio Lower Upper

41 100

42 72.8 55.2 82.8



#13

Ethanol

Concen: 3.900 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.00 min

Lab File: VL034892.D

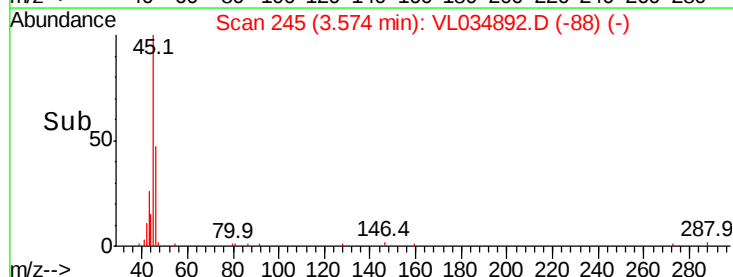
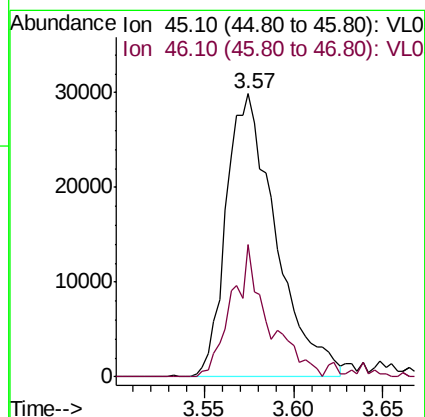
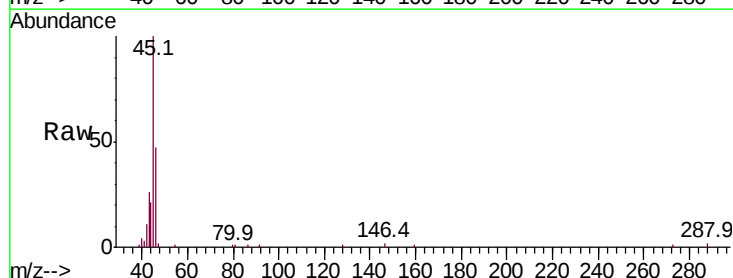
Acq: 16 Mar 2020 16:04

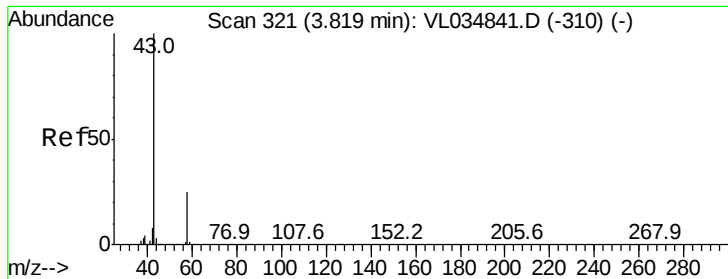
Tgt Ion: 45 Resp: 57808

Ion Ratio Lower Upper

45 100

46 35.5 16.0 64.0





#15

Acetone

Concen: 0.861 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034892.D

Acq: 16 Mar 2020 16:04

Instrument :

MSVOA_L

ClientSampleId :

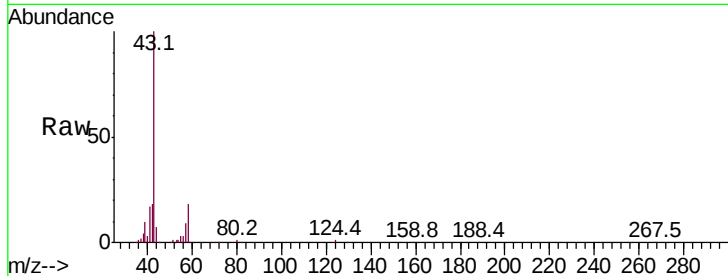
IA-02DL

Tot Ion: 43 Resp: 102062

Ion Ratio Lower Upper

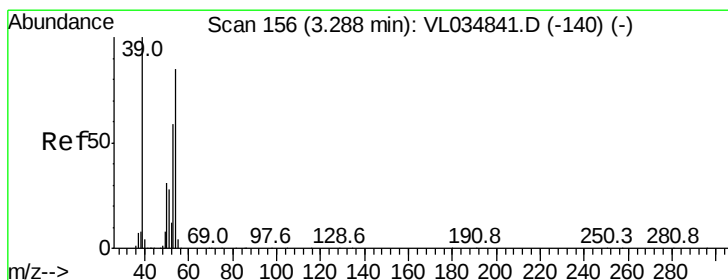
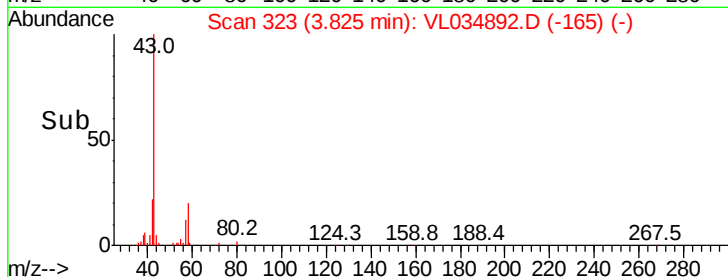
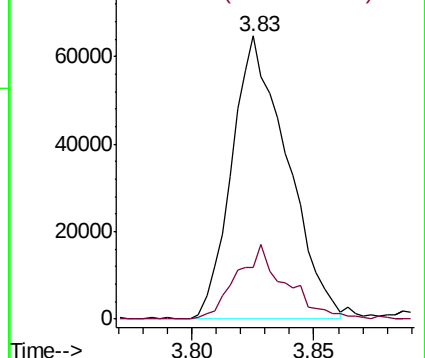
43 100

58 23.5 21.0 31.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 3.27 min Scan# 149

Delta R.T. -0.02 min

Lab File: VL034892.D

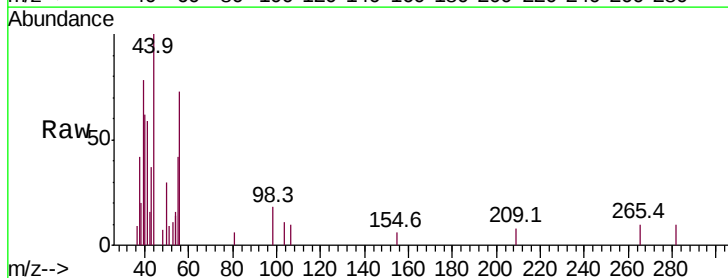
Acq: 16 Mar 2020 16:04

Tgt Ion: 39 Resp: 1794

Ion Ratio Lower Upper

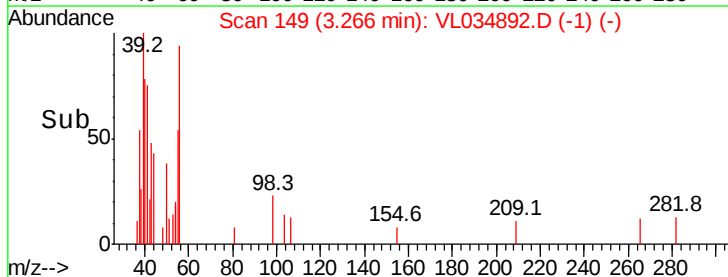
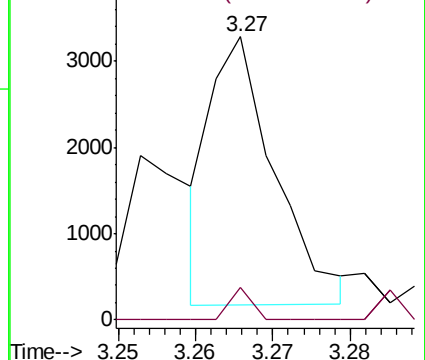
39 100

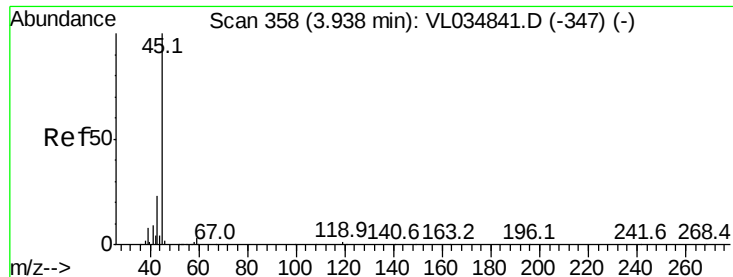
54 0.0 65.0 97.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.206 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL034892.D

Acq: 16 Mar 2020 16:04

Instrument :

MSVOA_L

ClientSampleId :

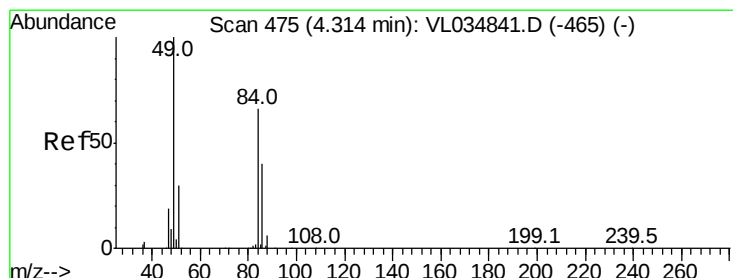
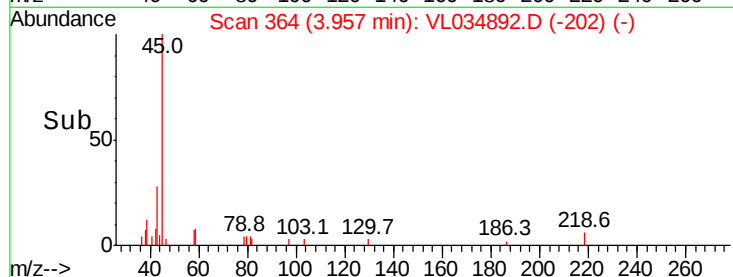
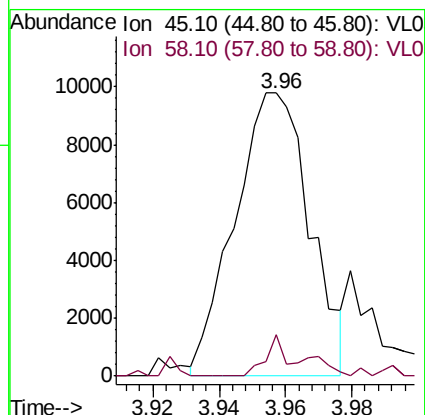
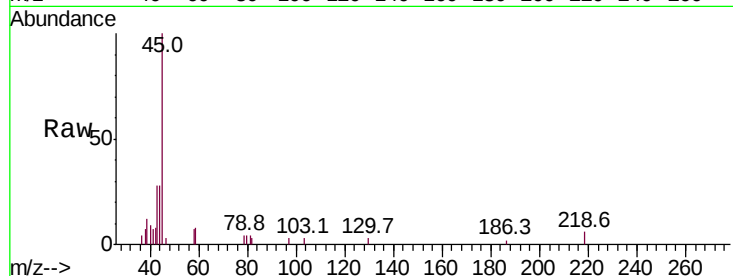
IA-02DL

Tot Ion: 45 Resp: 15397

Ion Ratio Lower Upper

45 100

58 7.4 30.5 45.7#



#20

Methylene Chloride

Concen: 0.789 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL034892.D

Acq: 16 Mar 2020 16:04

Tgt Ion: 84 Resp: 29541

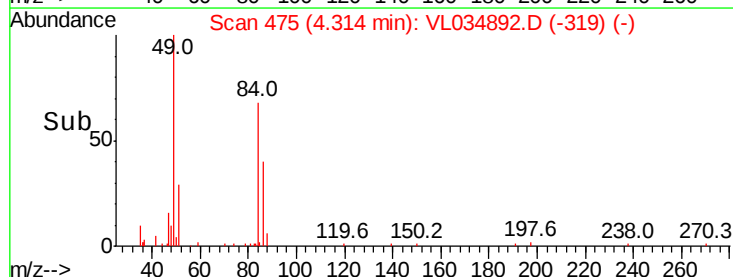
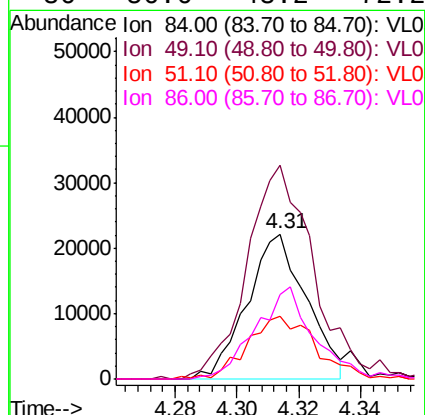
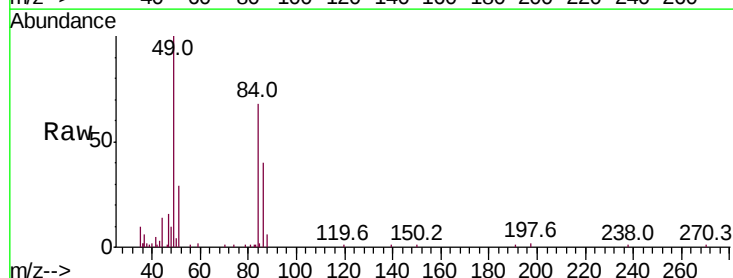
Ion Ratio Lower Upper

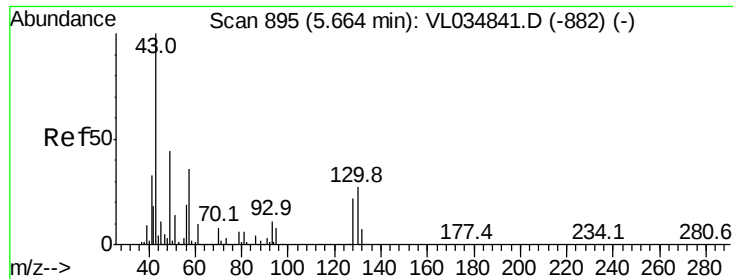
84 100

49 139.5 121.5 182.3

51 41.1 36.6 55.0

86 56.6 48.2 72.2

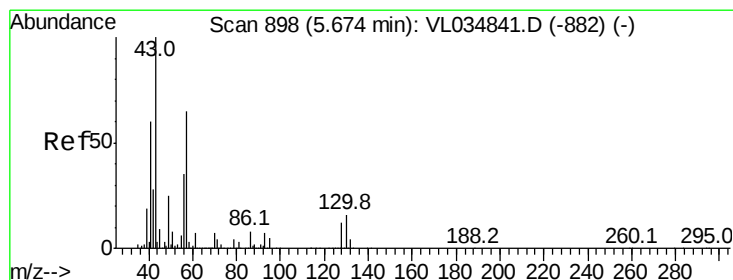
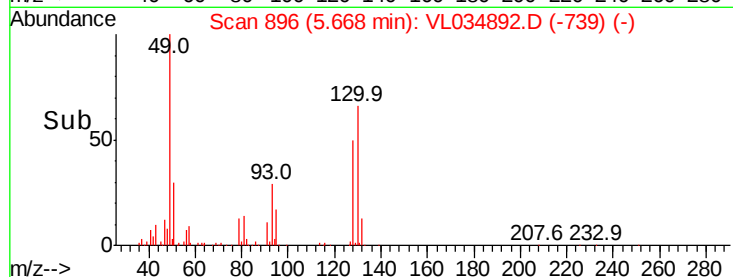
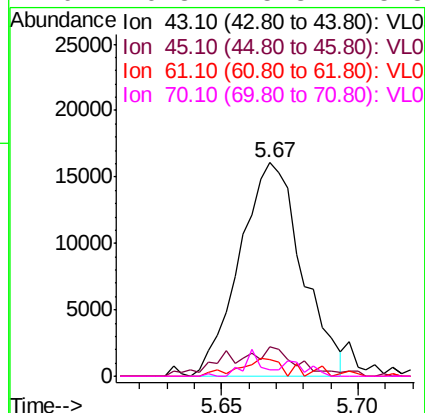
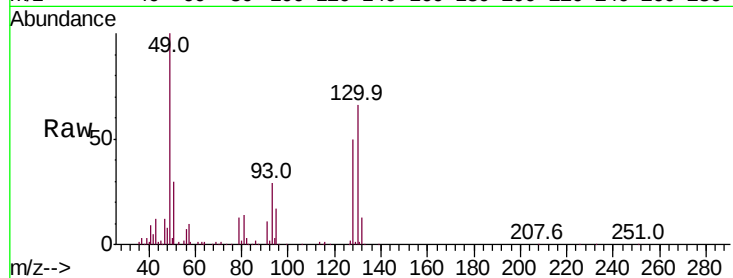




#25
Ethyl Acetate
Concen: 0.121 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL034892.D
Acq: 16 Mar 2020 16:04

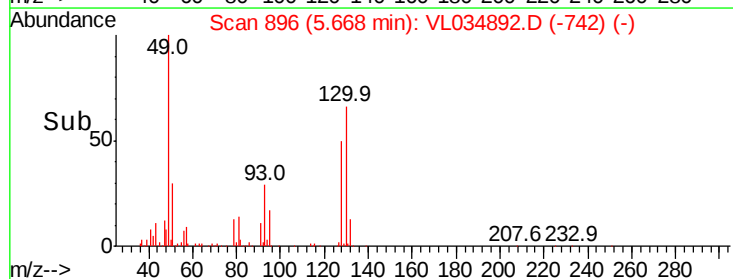
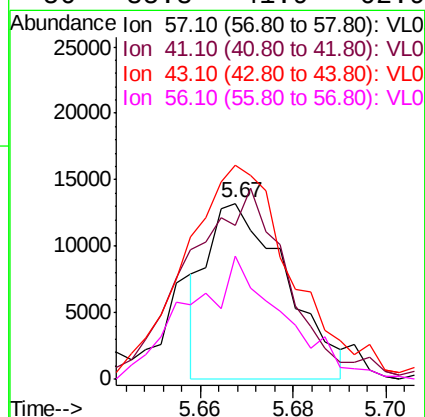
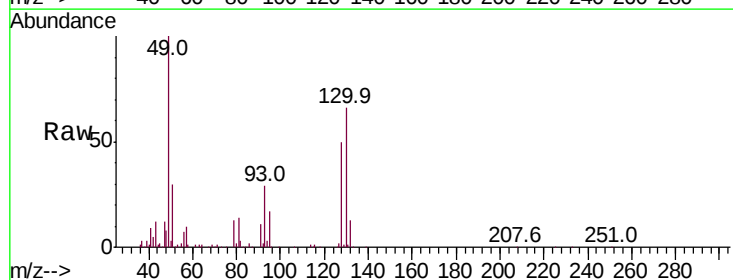
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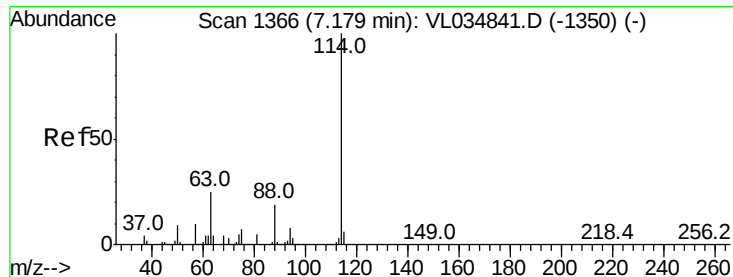
Tot Ion:	43	Resp:	25478
Ion	Ratio	Lower	Upper
43	100		
45	15.7	8.2	12.2#
61	7.5	7.8	11.6#
70	6.3	5.8	8.8



#26
Hexane
Concen: 0.171 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL034892.D
Acq: 16 Mar 2020 16:04

Tgt Ion:	57	Resp:	15546
Ion	Ratio	Lower	Upper
57	100		
41	145.5	72.6	109.0#
43	174.0	183.8	275.6#
56	85.8	41.9	62.9#



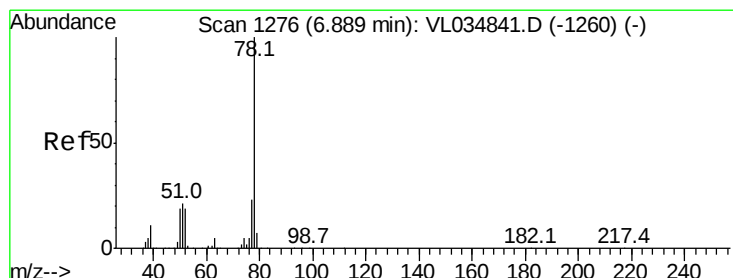
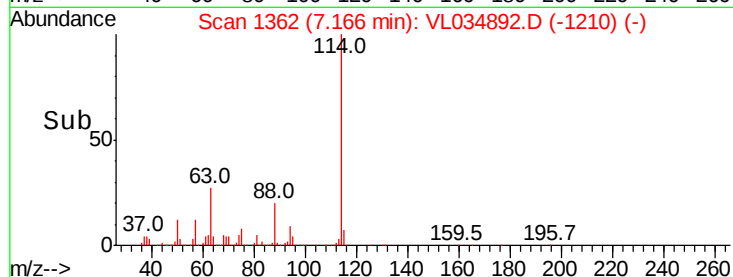
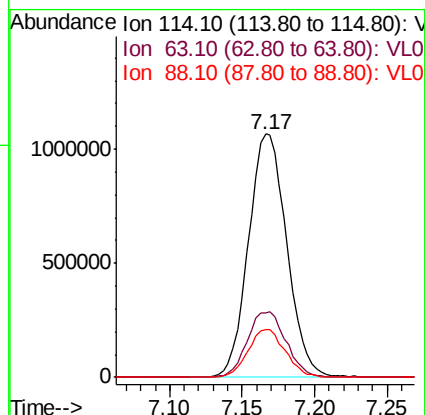
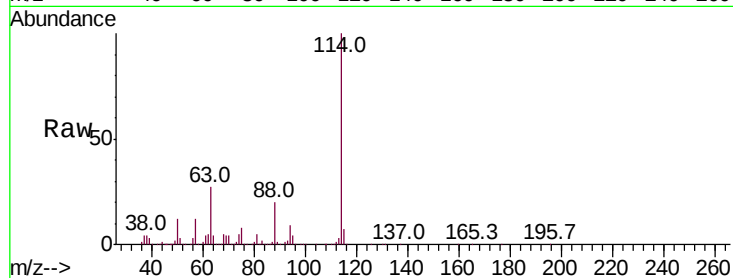


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VL034892.D
 Acq: 16 Mar 2020 16:04

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-02DL

Tot Ion:114 Resp: 1958907

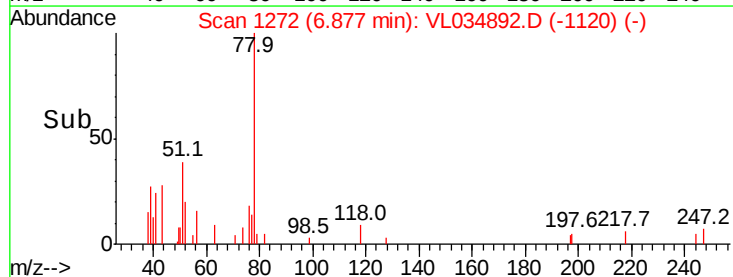
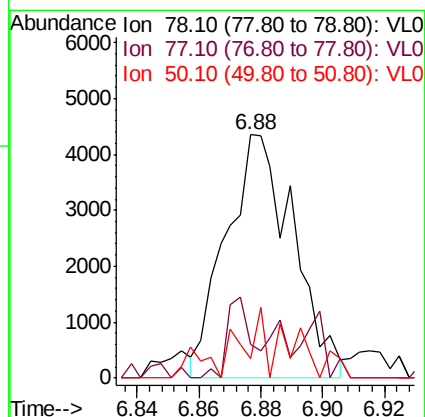
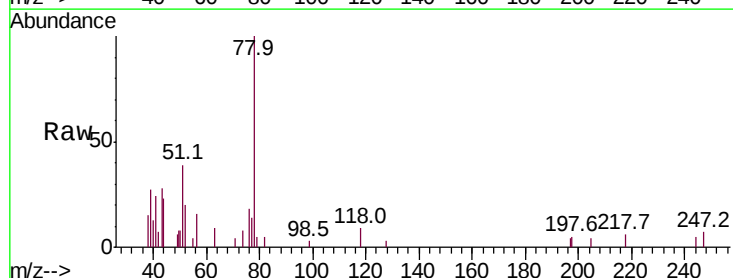
Ion	Ratio	Lower	Upper
114	100		
63	27.5	20.6	31.0
88	19.4	15.0	22.6

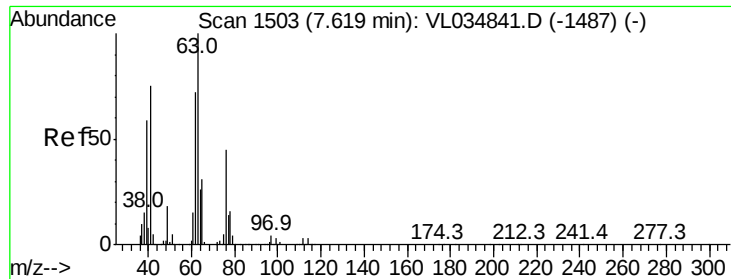


#36
 Benzene
 Concen: 0.038 ppbv
 RT: 6.88 min Scan# 1272
 Delta R.T. -0.01 min
 Lab File: VL034892.D
 Acq: 16 Mar 2020 16:04

Tgt Ion: 78 Resp: 6594

Ion	Ratio	Lower	Upper
78	100		
77	5.9	18.2	27.2#
50	0.1	15.2	22.8#

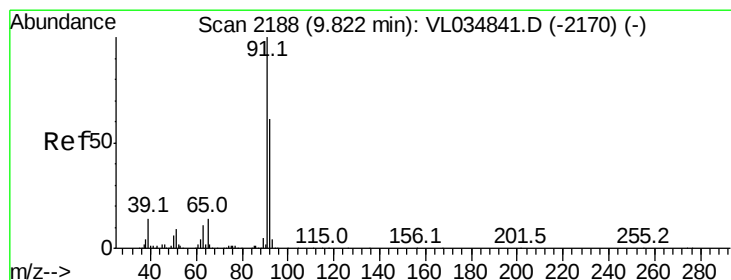
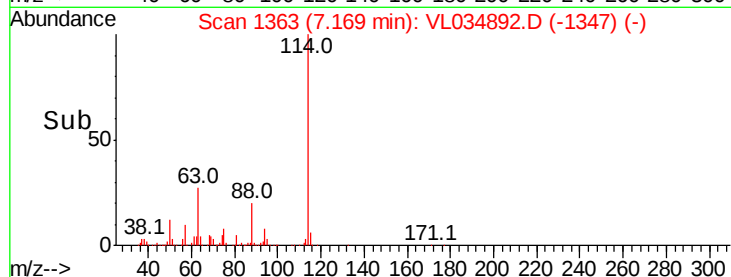
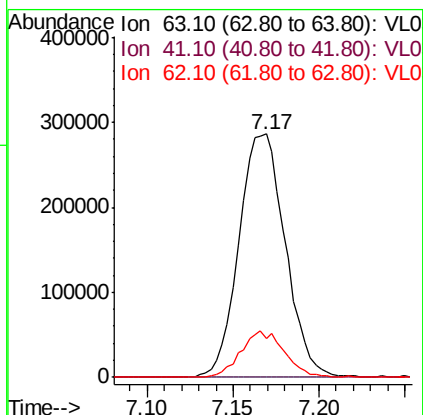
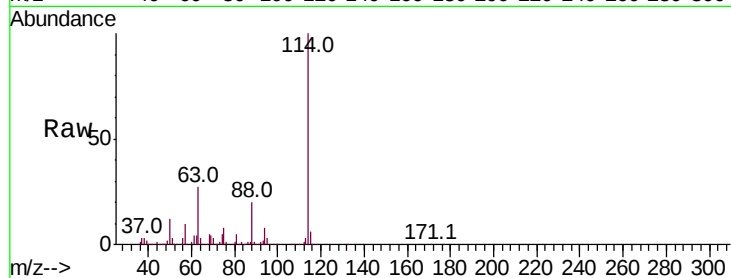




#39
 1,2-Dichloropropane
 Concen: 7.689 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL034892.D
 Acq: 16 Mar 2020 16:04

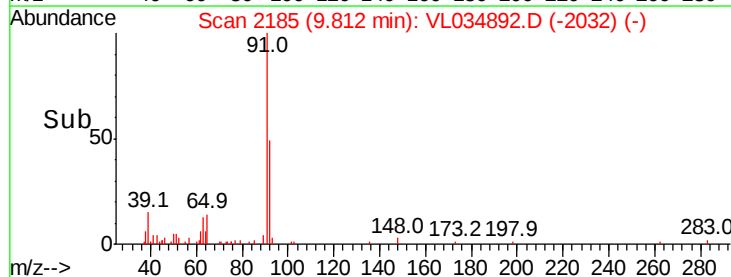
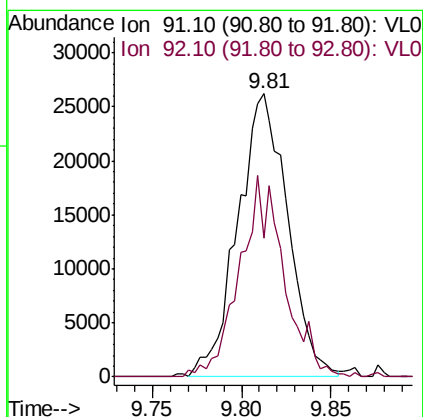
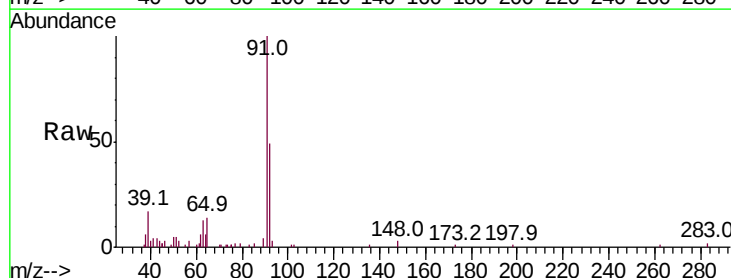
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-02DL

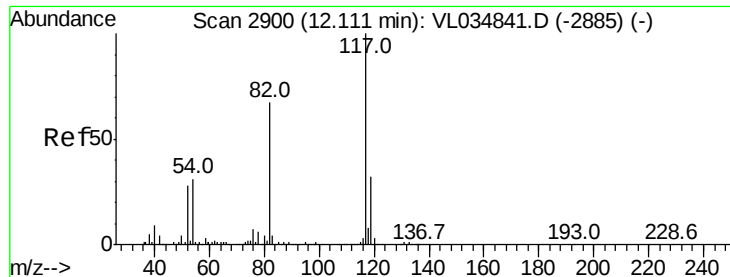
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.3	59.8	89.8#
62	16.0	57.6	86.4#



#53
 Toluene
 Concen: 0.254 ppbv
 RT: 9.81 min Scan# 2185
 Delta R.T. -0.01 min
 Lab File: VL034892.D
 Acq: 16 Mar 2020 16:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.3	48.6	72.8

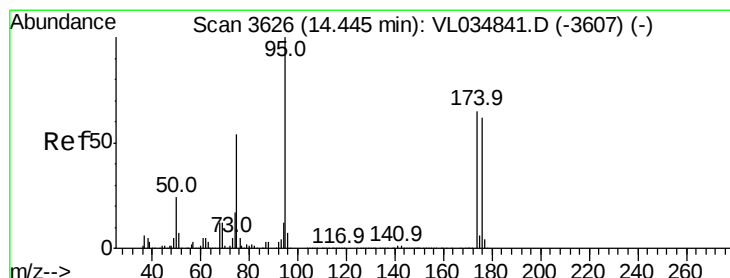
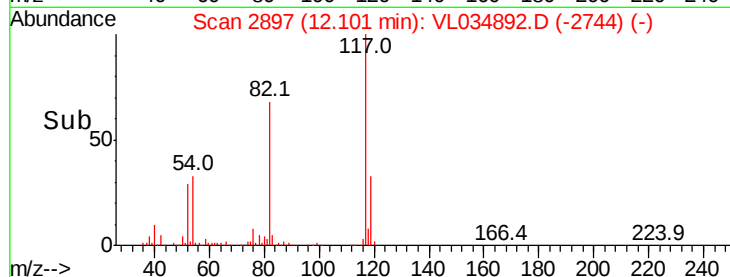
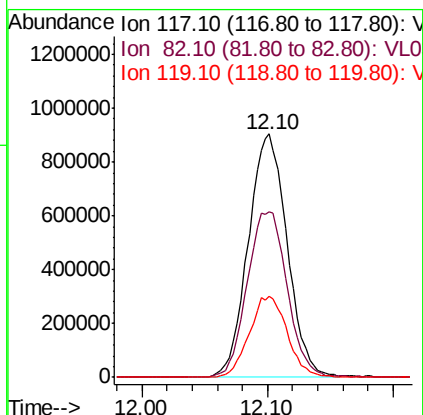
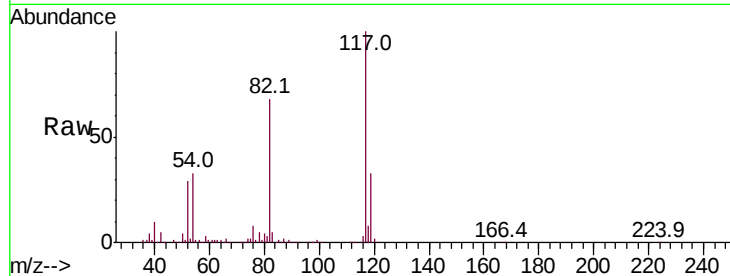




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL034892.D
Acq: 16 Mar 2020 16:04

Instrument :
MSVOA_L
ClientSampleId :
IA-02DL

Tot Ion:117 Resp: 1944503
Ion Ratio Lower Upper
117 100
82 70.4 51.1 76.7
119 32.9 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.361 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. -0.01 min
Lab File: VL034892.D
Acq: 16 Mar 2020 16:04

Tgt Ion: 95 Resp: 1571199
Ion Ratio Lower Upper
95 100
174 65.8 55.2 82.8
175 4.7 4.3 6.5

