

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032414.D
 Acq On : 20 Aug 2018 21:22
 Operator : SY/AP
 Sample : J4472-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 21 01:43:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1749155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3313952	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3294448	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	2537521	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

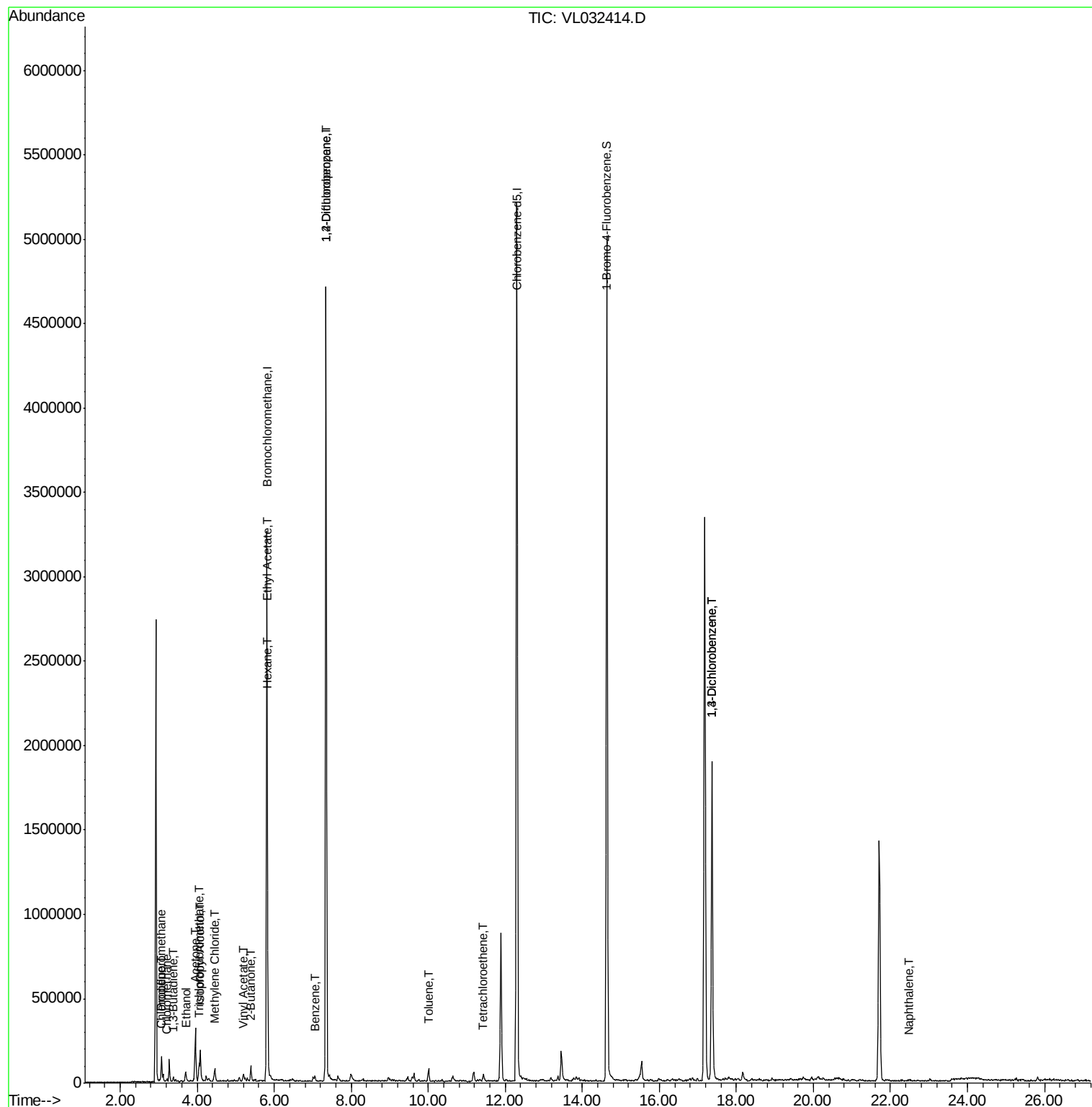
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	616	Below Cal		95
3) Chlorodifluoromethane	3.05	51	13557	0.084	ppbv	97
4) Chloromethane	3.21	50	12784	0.133	ppbv	91
9) Propene	3.07	41	57632	0.831	ppbv	98
11) Trichlorofluoromethane	4.05	101	69037	0.353	ppbv	94
13) Ethanol	3.70	45	56647	3.181	ppbv	96
15) Acetone	3.95	43	323660	1.948	ppbv	99
16) 1,3-Butadiene	3.38	39	8384	0.122	ppbv #	14
19) Isopropyl Alcohol	4.08	45	195297	1.745	ppbv #	96
20) Methylene Chloride	4.46	84	23988	0.382	ppbv	89
23) Vinyl Acetate	5.20	43	42108	0.147	ppbv #	89
25) Ethyl Acetate	5.83	43	37816	0.106	ppbv #	96
26) Hexane	5.83	57	10996	0.069	ppbv #	16
34) 2-Butanone	5.39	43	101724	0.451	ppbv	100
36) Benzene	7.06	78	20593	0.073	ppbv	95
39) 1,2-Dichloropropane	7.34	63	919528	7.835	ppbv #	25
52) Tetrachloroethene	11.42	164	2820	0.034	ppbv #	35
53) Toluene	10.01	91	51674	0.168	ppbv	99
75) 1,3-Dichlorobenzene	17.37	146	963724	4.245	ppbv	99
76) 1,4-Dichlorobenzene	17.37	146	963724	4.481	ppbv	100
79) Naphthalene	22.48	128	1872	0.332	ppbv #	80

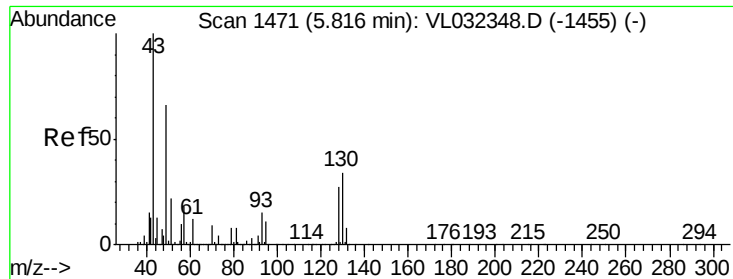
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampleId :

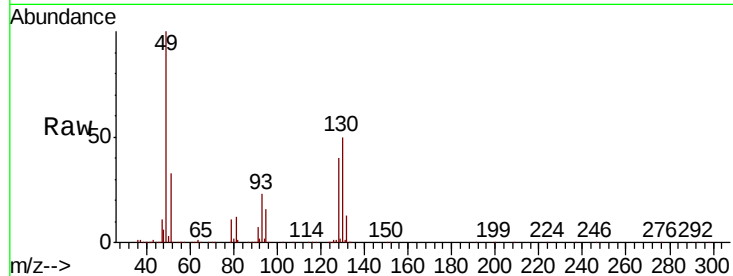
Tot Ion: 49 Resp: 1749155

Ion Ratio Lower Upper

49 100

128 39.8 20.5 61.6

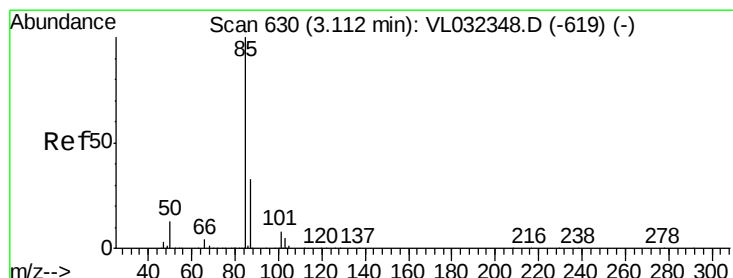
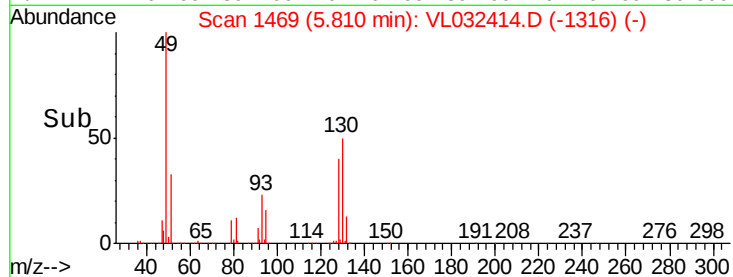
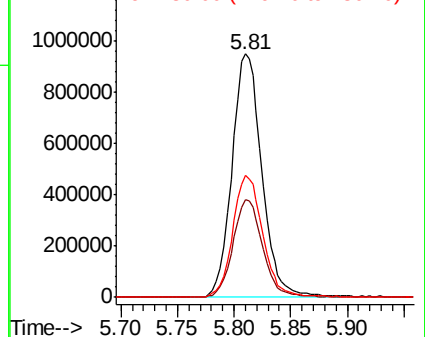
130 50.8 26.2 78.5



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: Below Cal

RT: 3.07 min Scan# 617

Delta R.T. -0.04 min

Lab File: VL032414.D

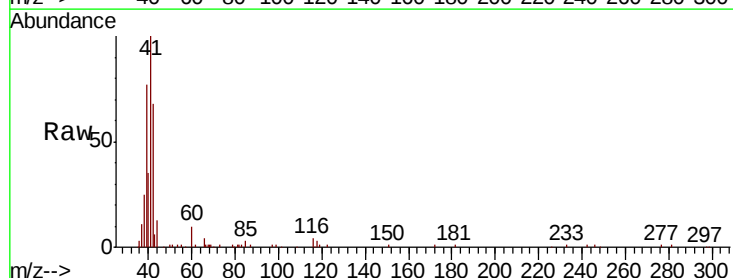
Acq: 20 Aug 2018 21:22

Tgt Ion: 85 Resp: 616

Ion Ratio Lower Upper

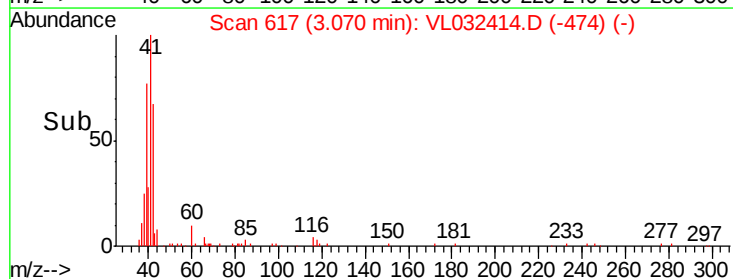
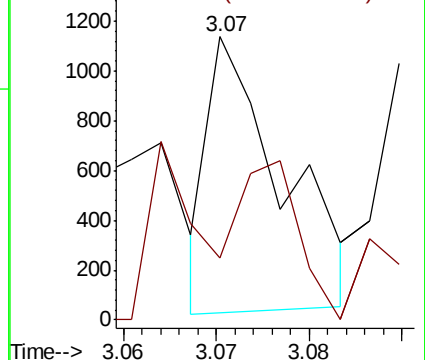
85 100

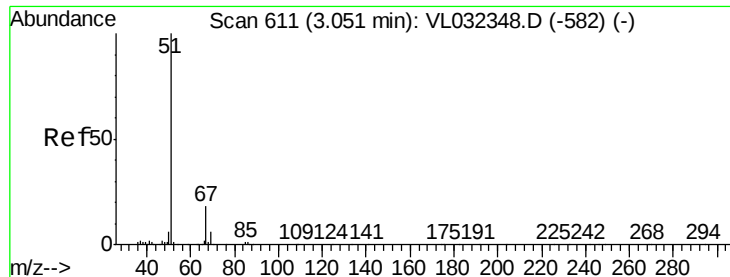
87 29.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.084 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

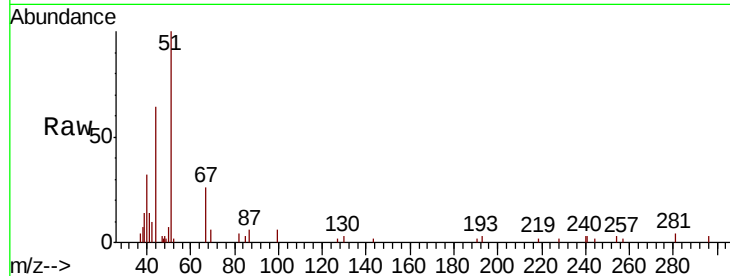
ClientSampleId :

Tot Ion: 51 Resp: 13557

Ion Ratio Lower Upper

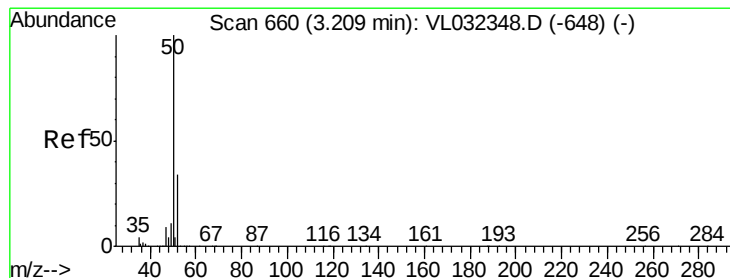
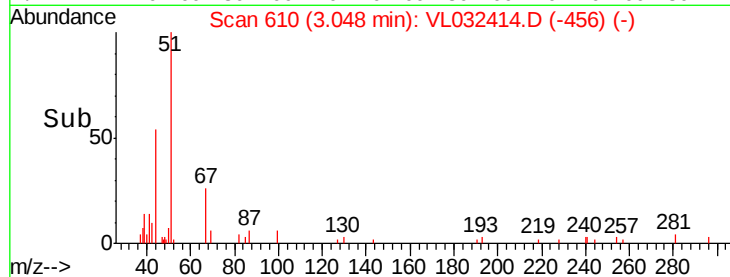
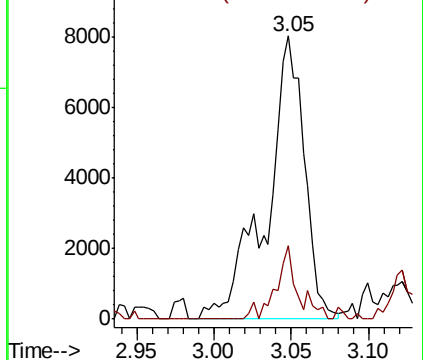
51 100

67 15.7 13.7 20.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.133 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032414.D

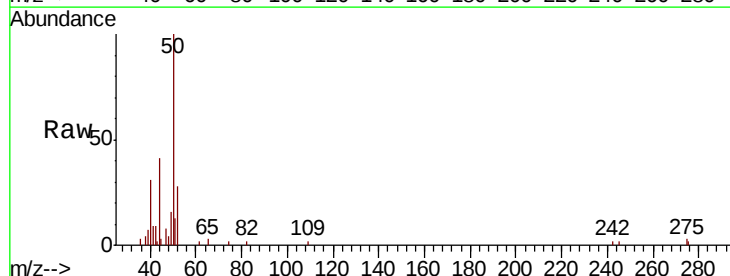
Acq: 20 Aug 2018 21:22

Tgt Ion: 50 Resp: 12784

Ion Ratio Lower Upper

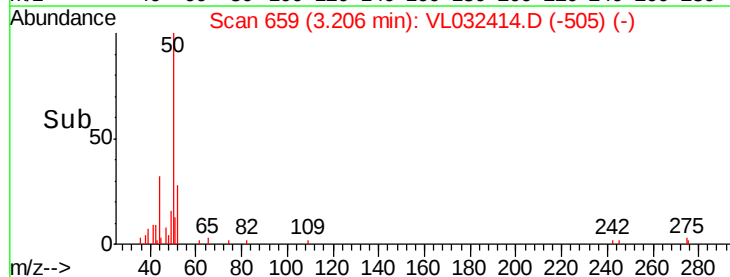
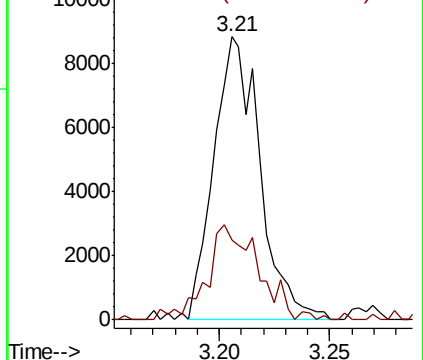
50 100

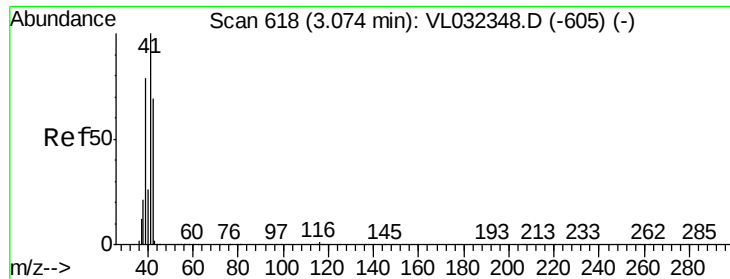
52 28.1 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.831 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

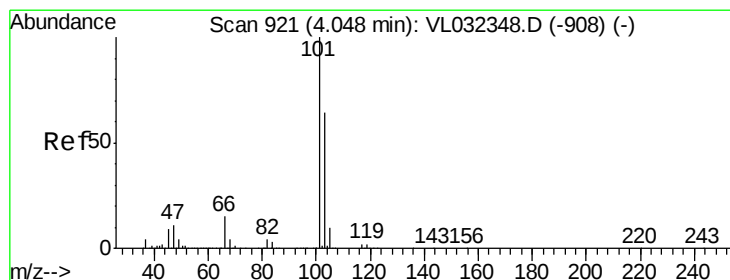
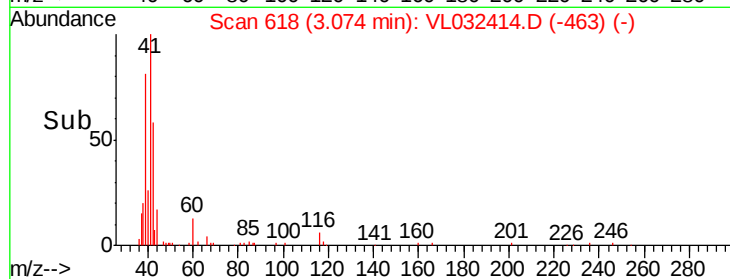
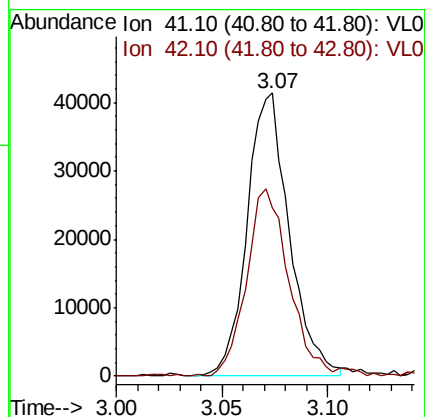
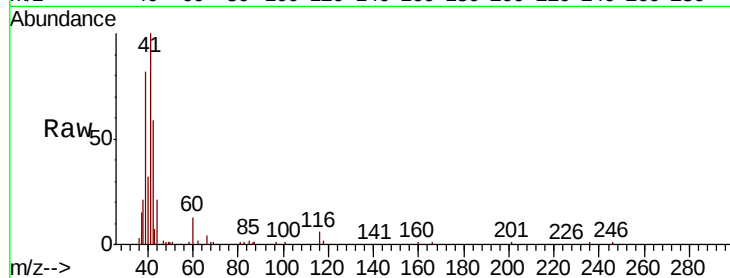
ClientSampleId :

Tot Ion: 41 Resp: 57632

Ion Ratio Lower Upper

41 100

42 68.2 55.9 83.9



#11

Trichlorofluoromethane

Concen: 0.353 ppbv

RT: 4.05 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL032414.D

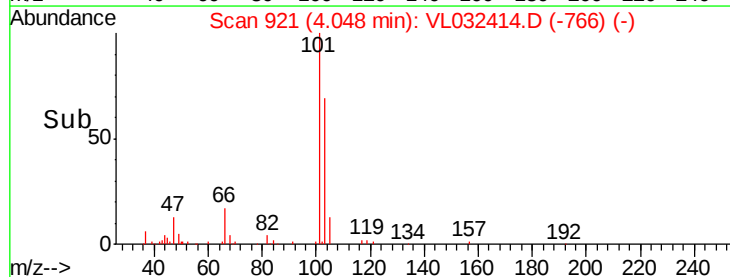
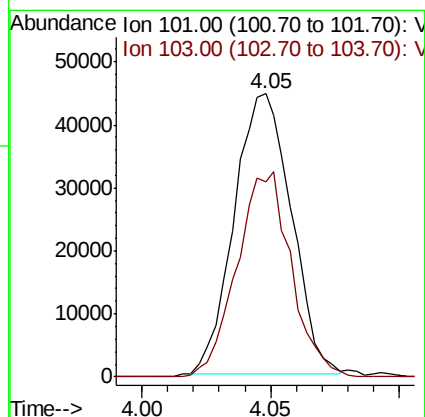
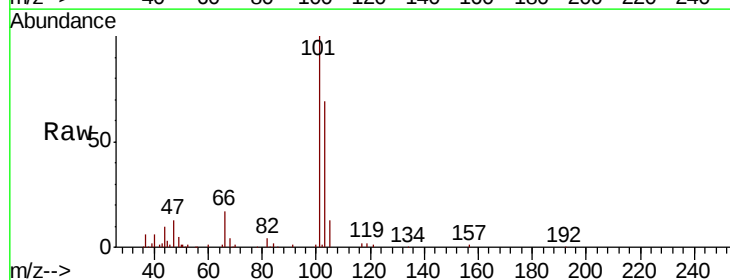
Acq: 20 Aug 2018 21:22

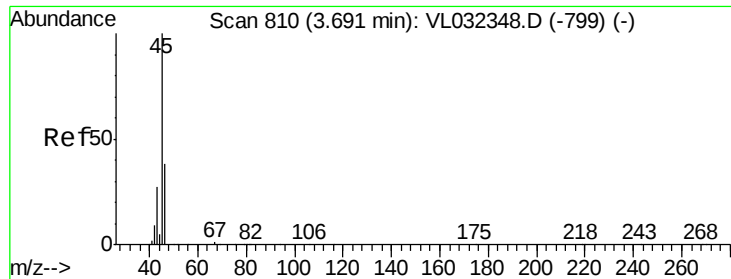
Tgt Ion: 101 Resp: 69037

Ion Ratio Lower Upper

101 100

103 69.3 51.4 77.0

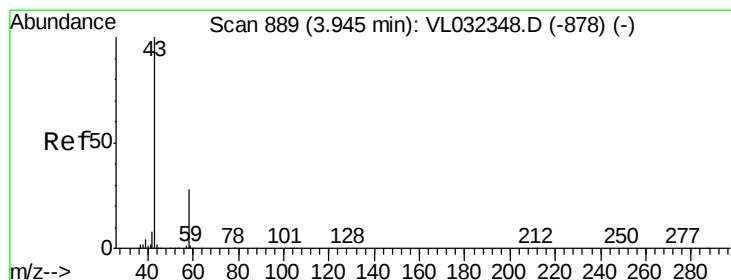
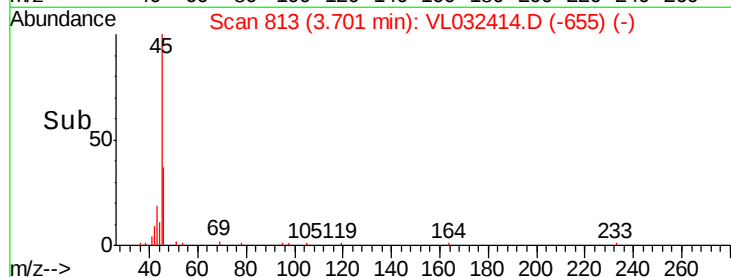
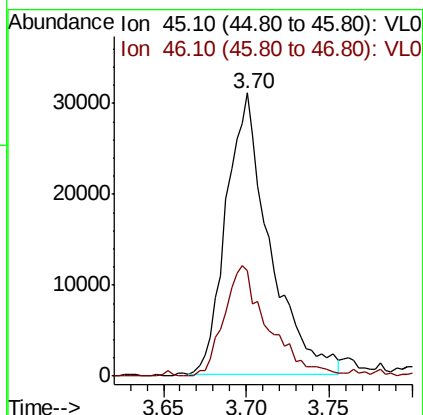
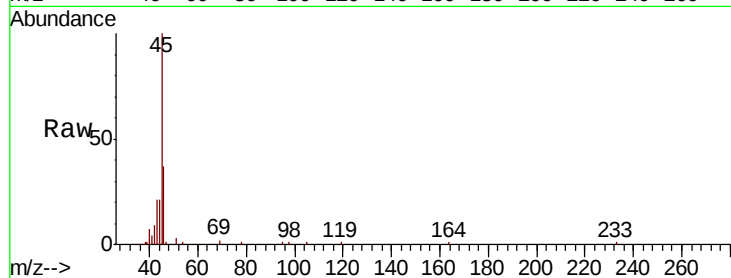




#13
Ethanol
Concen: 3.181 ppbv
RT: 3.70 min Scan# 813
Delta R.T. 0.01 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

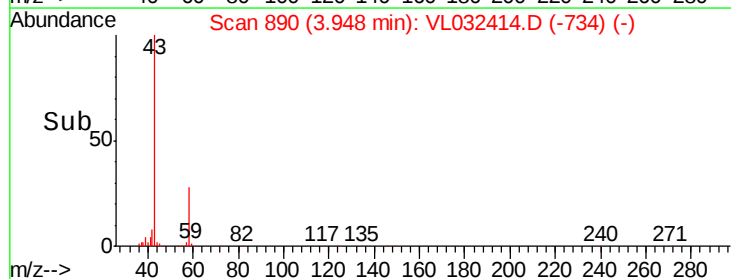
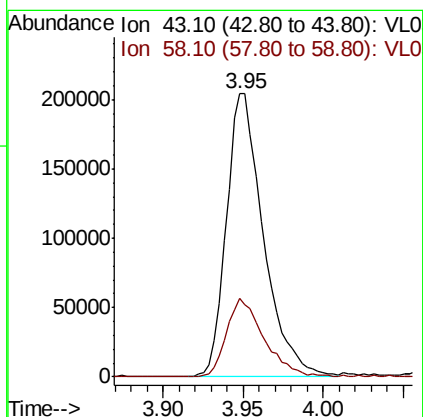
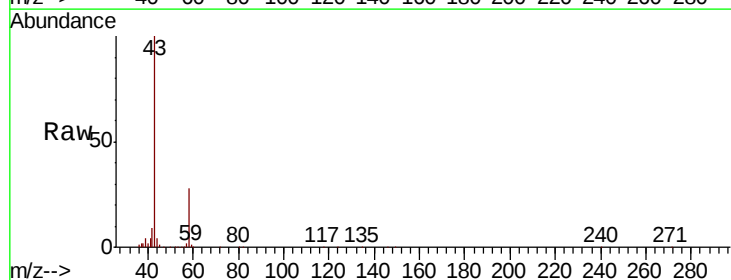
Instrument :
MSVOA_L
ClientSampleId :

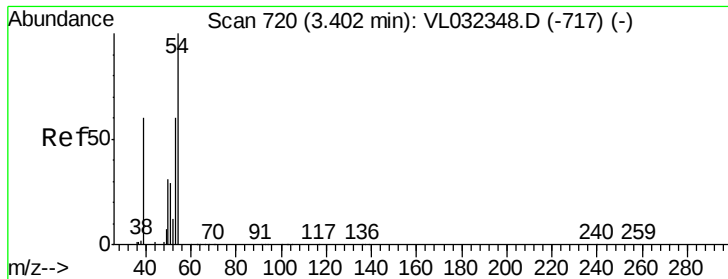
Tot Ion: 45 Resp: 56647
Ion Ratio Lower Upper
45 100
46 41.5 15.6 62.4



#15
Acetone
Concen: 1.948 ppbv
RT: 3.95 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Tgt Ion: 43 Resp: 323660
Ion Ratio Lower Upper
43 100
58 28.3 22.4 33.6

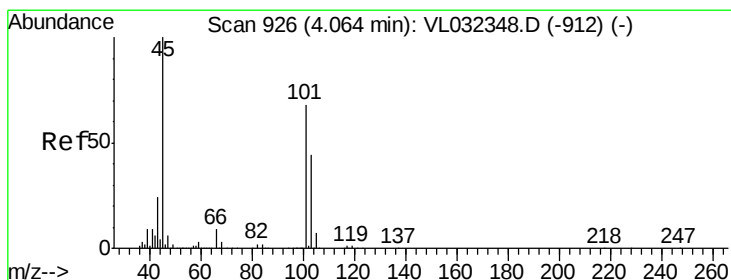
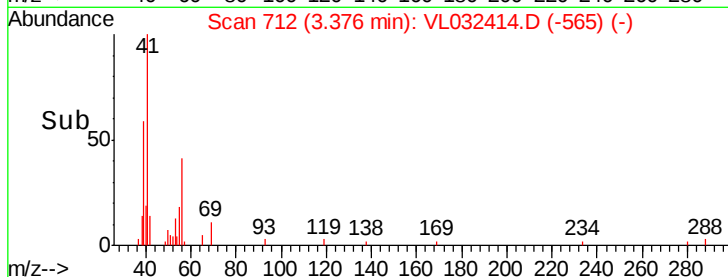
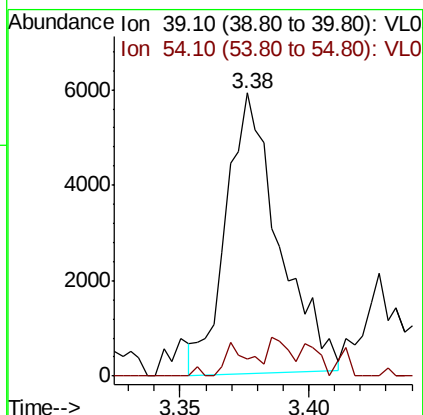
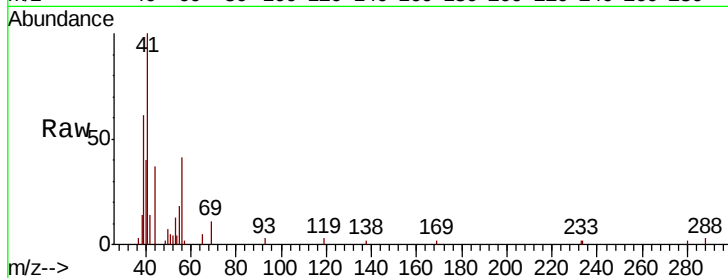




#16
 1,3-Butadiene
 Concen: 0.122 ppbv
 RT: 3.38 min Scan# 712
 Delta R.T. -0.03 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

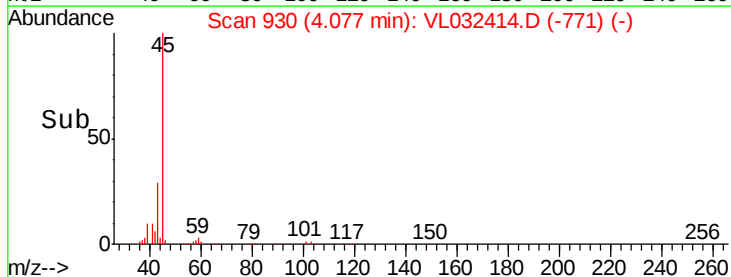
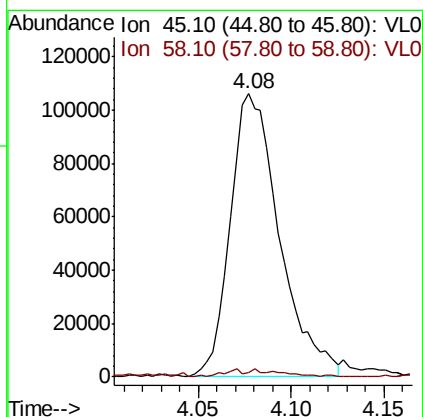
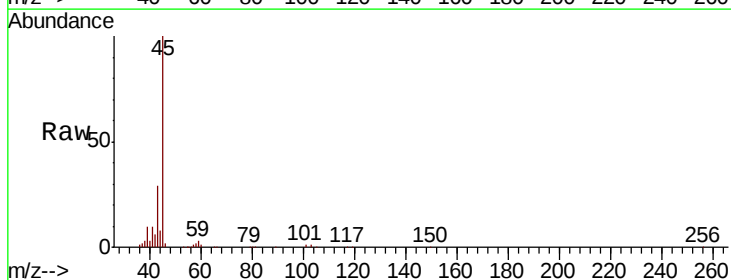
Instrument :
 MSVOA_L
 ClientSampleId :

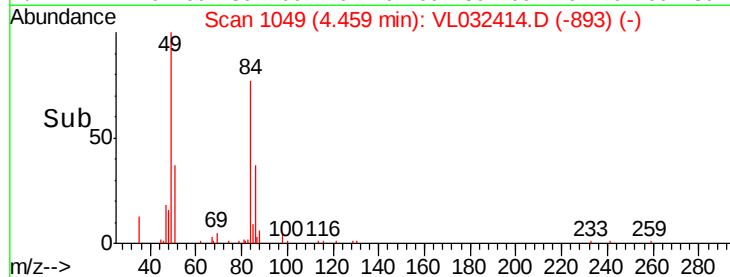
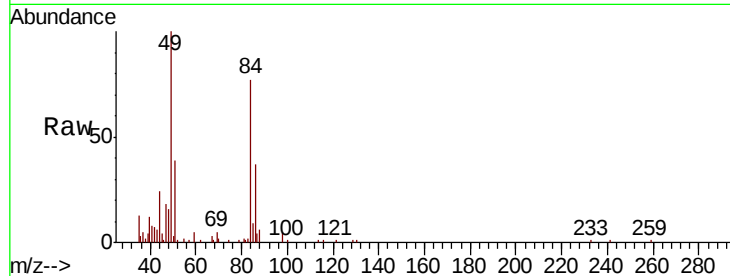
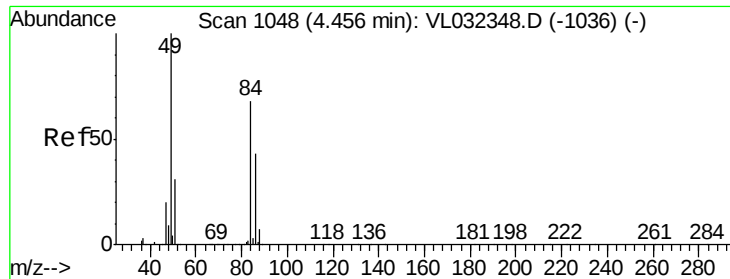
Tot Ion: 39 Resp: 8384
 Ion Ratio Lower Upper
 39 100
 54 18.0 85.5 128.3#



#19
 Isopropyl Alcohol
 Concen: 1.745 ppbv
 RT: 4.08 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

Tgt Ion: 45 Resp: 195297
 Ion Ratio Lower Upper
 45 100
 58 3.3 1.4 2.0#

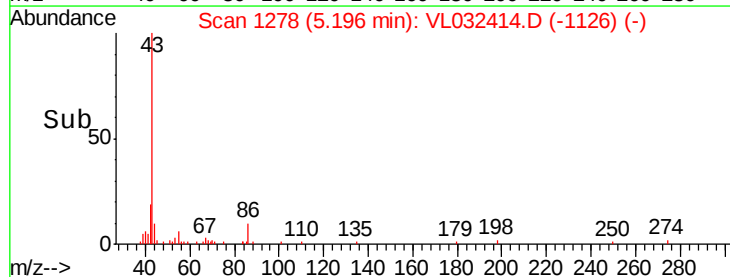
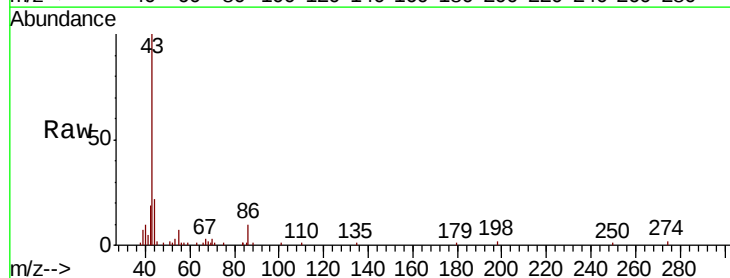
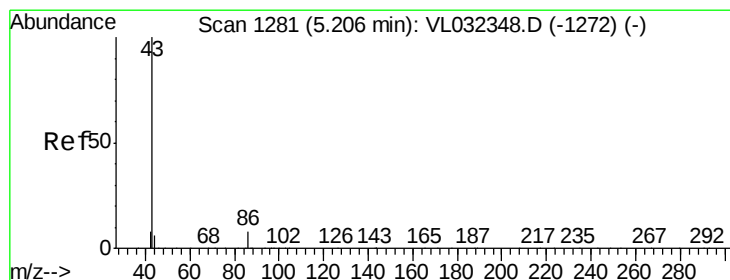
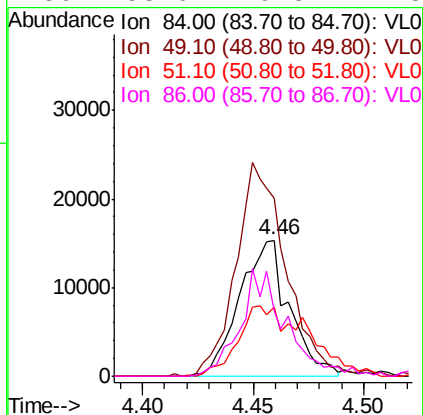




#20
Methylene Chloride
Concen: 0.382 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

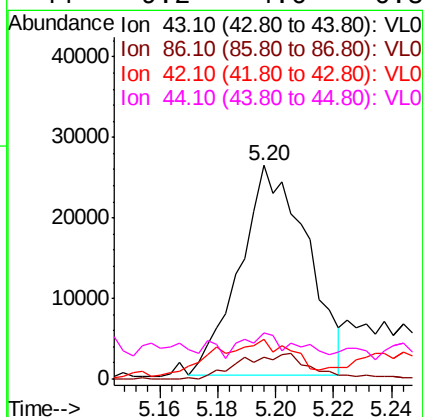
Instrument :
MSVOA_L
ClientSampleId :

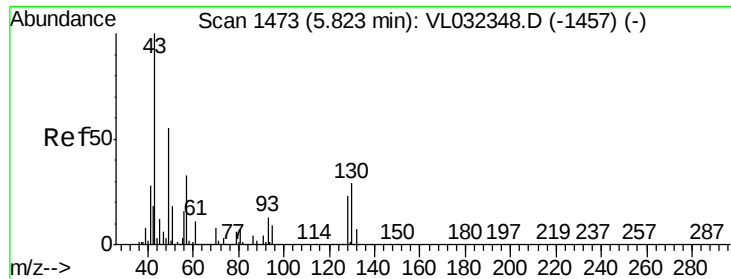
Tot Ion:	84	Resp:	23988
Ion	Ratio	Lower	Upper
84	100		
49	130.6	117.3	175.9
51	49.4	36.6	55.0
86	53.6	49.8	74.8



#23
Vinyl Acetate
Concen: 0.147 ppbv
RT: 5.20 min Scan# 1278
Delta R.T. -0.01 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Tgt Ion:	43	Resp:	42108
Ion	Ratio	Lower	Upper
43	100		
86	9.3	5.5	8.3#
42	13.8	7.0	10.6#
44	9.2	4.6	6.8#

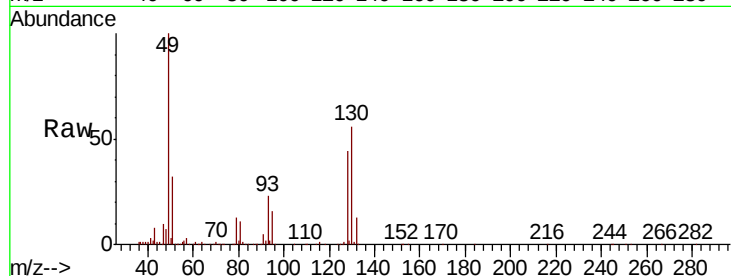




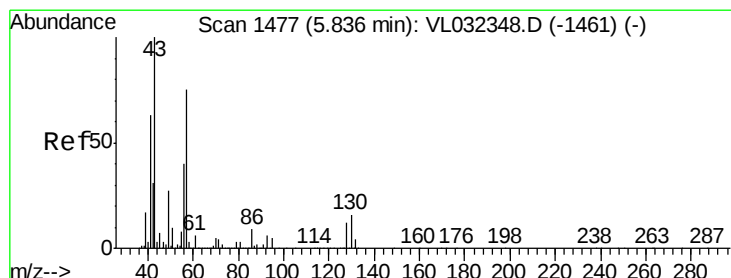
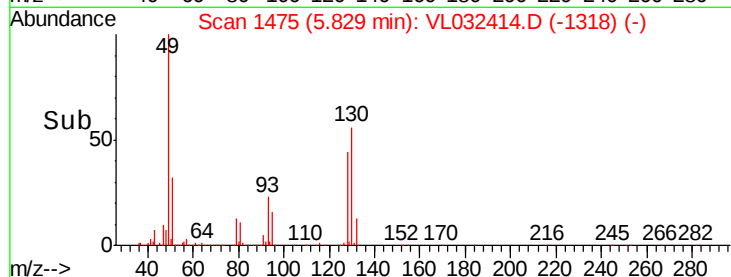
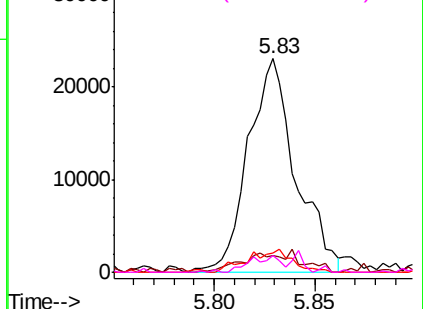
#25
Ethyl Acetate
Concen: 0.106 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. 0.01 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	37816
Ion	Ratio	Lower	Upper
43	100		
45	12.3	7.9	11.9#
61	10.4	7.4	11.2
70	7.9	5.8	8.6

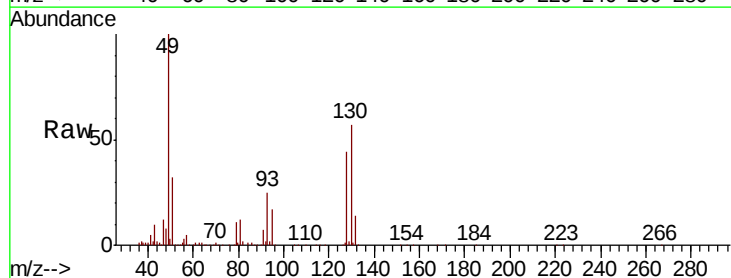


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

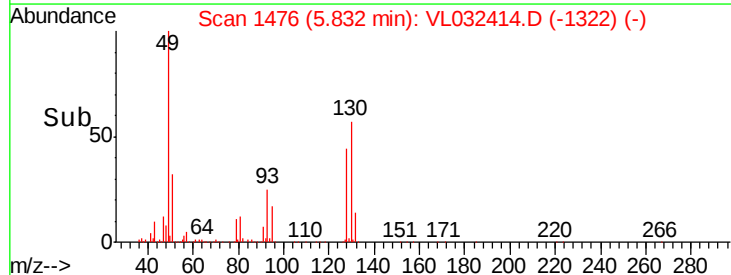
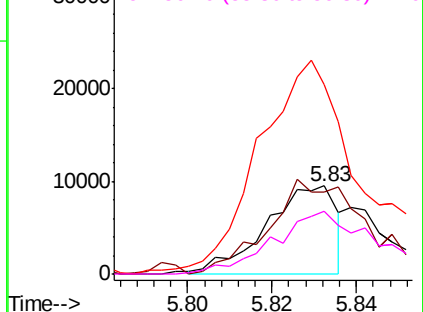


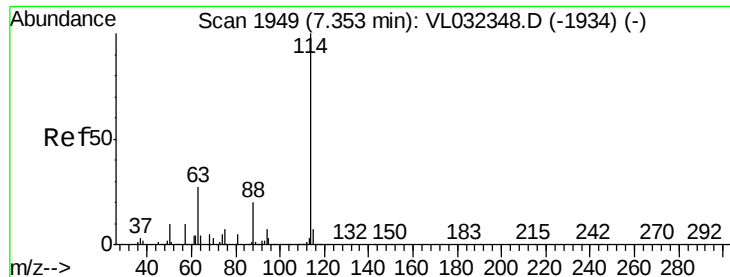
#26
Hexane
Concen: 0.069 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Tgt Ion:	57	Resp:	10996
Ion	Ratio	Lower	Upper
57	100		
41	164.9	68.0	102.0#
43	356.8	175.3	262.9#
56	102.5	42.0	63.0#



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

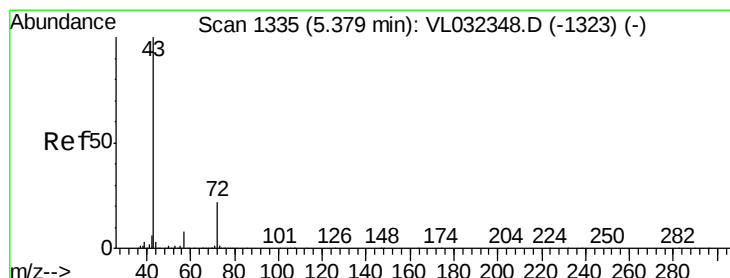
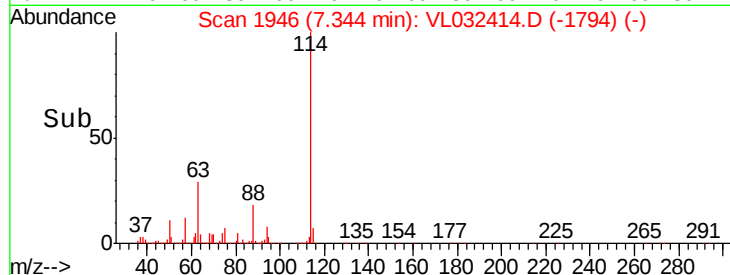
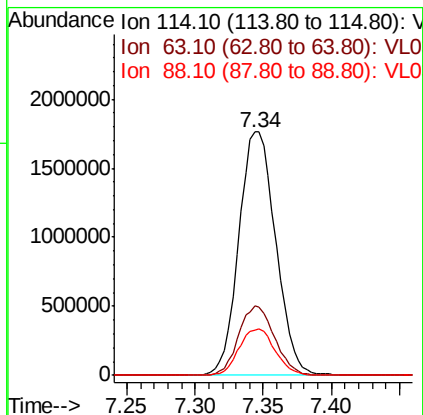
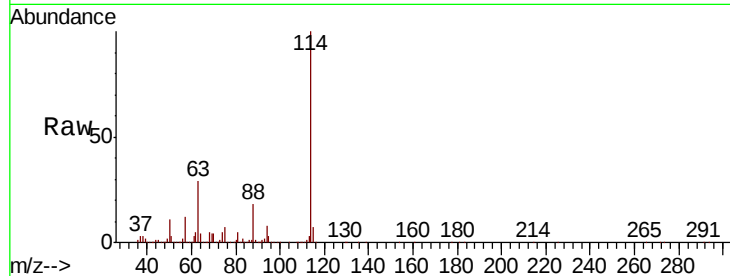




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1946
 Delta R.T. -0.01 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

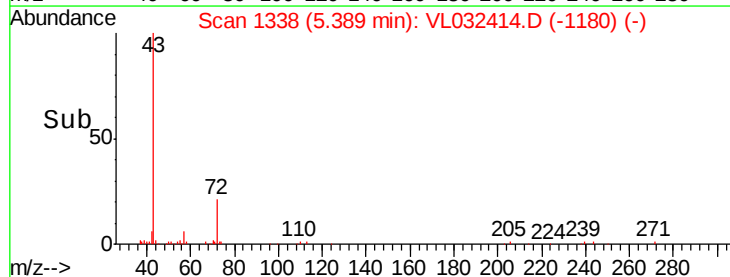
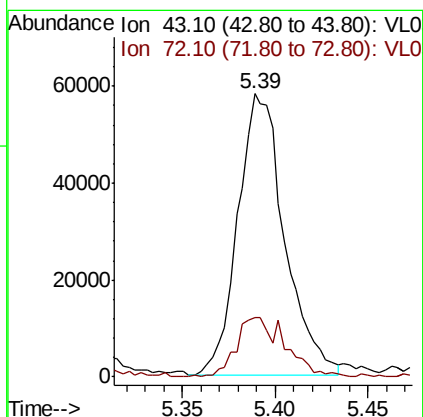
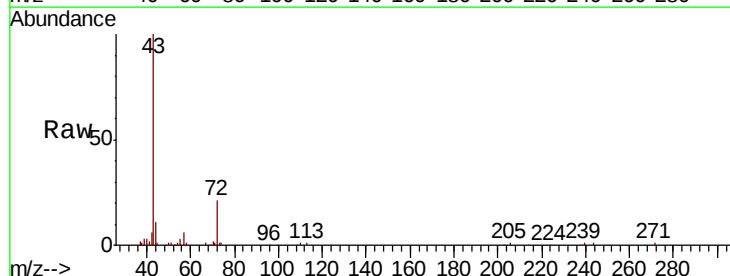
Instrument :
 MSVOA_L
 ClientSampleId :

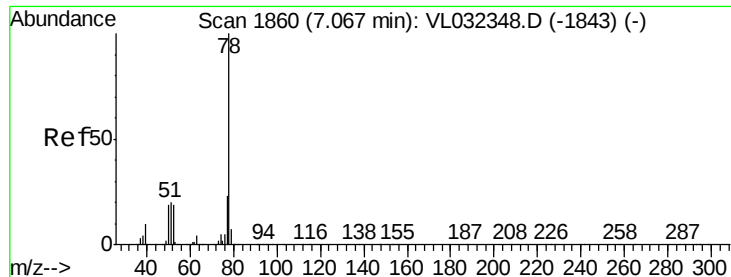
Tot Ion:114 Resp: 3313952
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.0 33.0
 88 18.7 15.3 22.9



#34
 2-Butanone
 Concen: 0.451 ppbv
 RT: 5.39 min Scan# 1338
 Delta R.T. 0.01 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

Tgt Ion: 43 Resp: 101724
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.9 26.9





#36

Benzene

Concen: 0.073 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

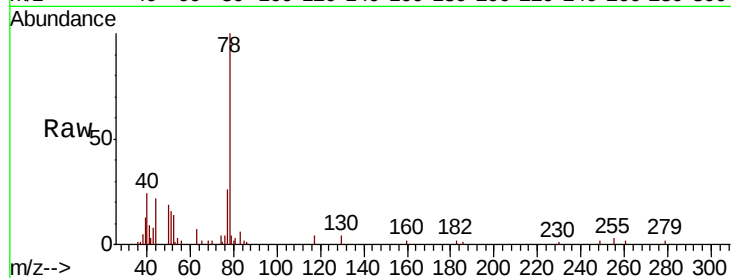
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 20593

Ion	Ratio	Lower	Upper
78	100		
77	26.8	18.0	27.0
50	18.8	15.1	22.7



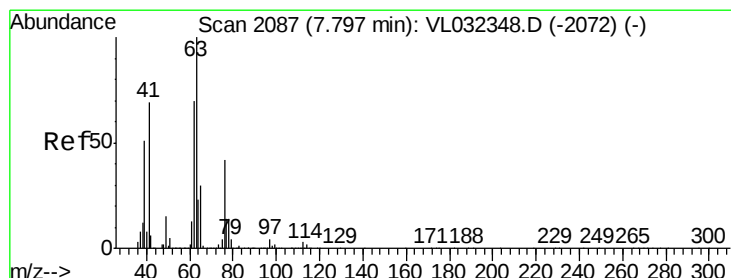
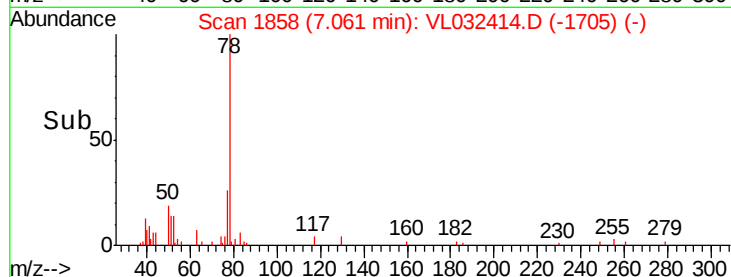
Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

7.06

Time-->



#39

1,2-Dichloropropane

Concen: 7.835 ppbv

RT: 7.34 min Scan# 1946

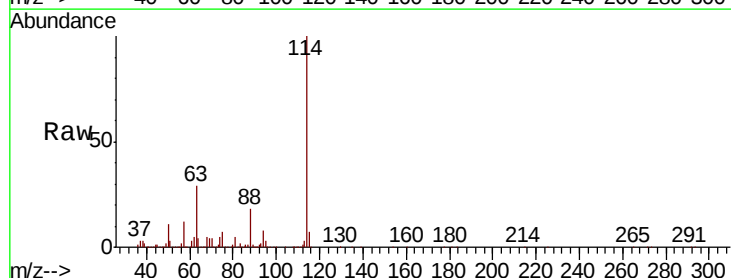
Delta R.T. -0.45 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Tgt Ion: 63 Resp: 919528

Ion	Ratio	Lower	Upper
63	100		
41	0.1	55.5	83.3#
62	15.9	56.3	84.5#



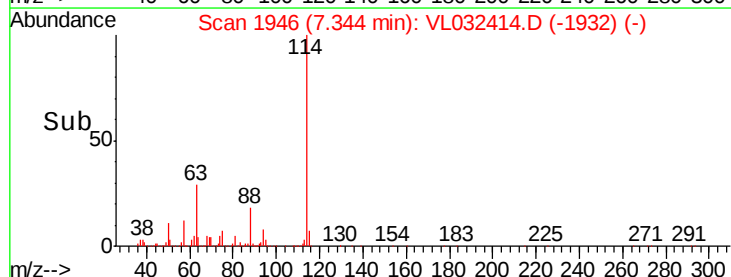
Abundance Ion 63.10 (62.80 to 63.80): VL0

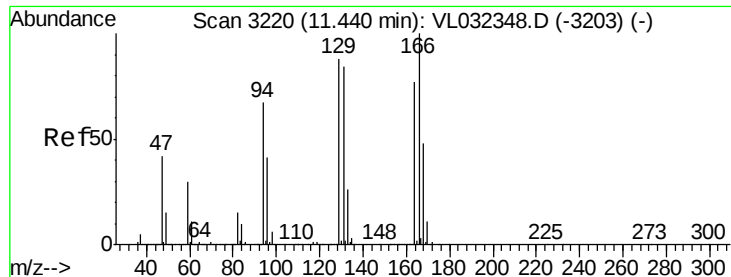
Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

7.34

Time-->





#52

Tetrachloroethene

Concen: 0.034 ppbv

RT: 11.42 min Scan# 3215

Delta R.T. -0.02 min

Lab File: VL032414.D

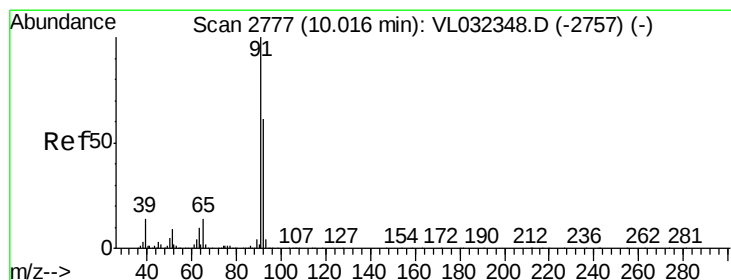
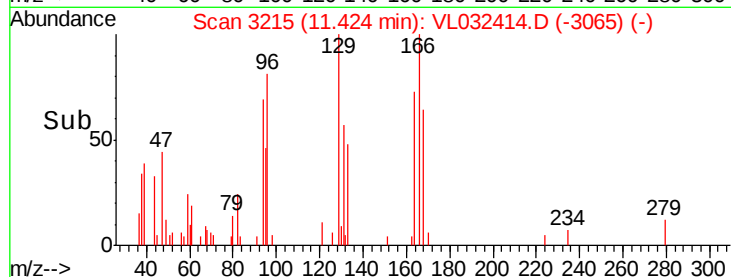
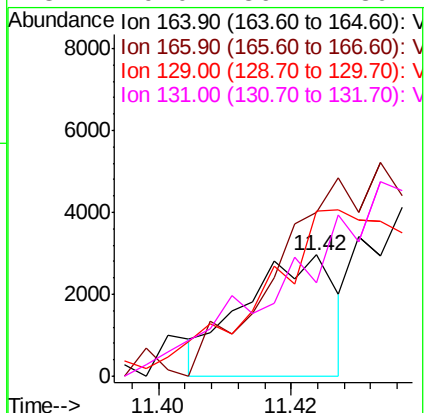
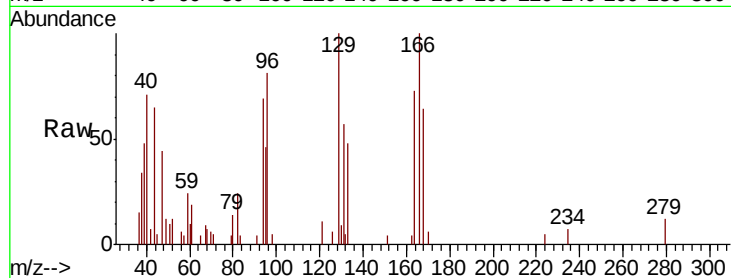
Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164	Resp:	2820
Ion	Ratio	Lower Upper
164	100	
166	225.4	103.5 155.3#
129	198.9	90.9 136.3#
131	79.0	86.7 130.1#



#53

Toluene

Concen: 0.168 ppbv

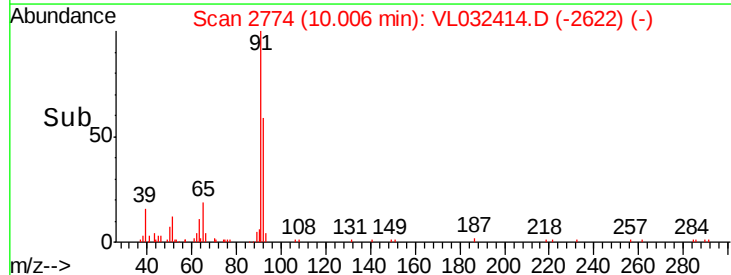
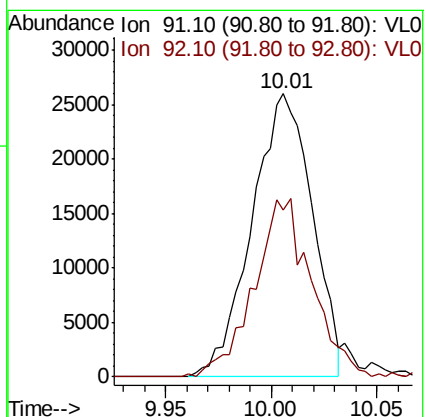
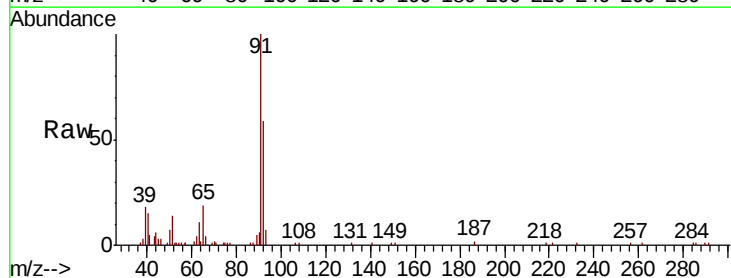
RT: 10.01 min Scan# 2774

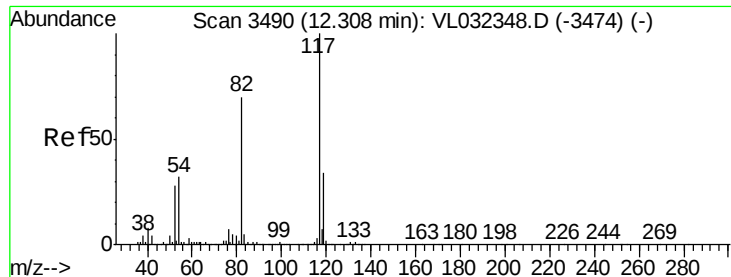
Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Tgt Ion: 91	Resp:	51674
Ion	Ratio	Lower Upper
91	100	
92	60.4	48.7 73.1

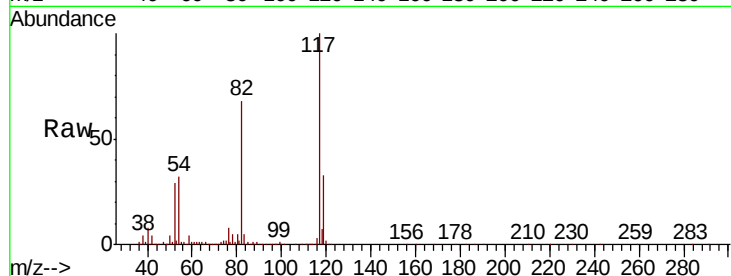




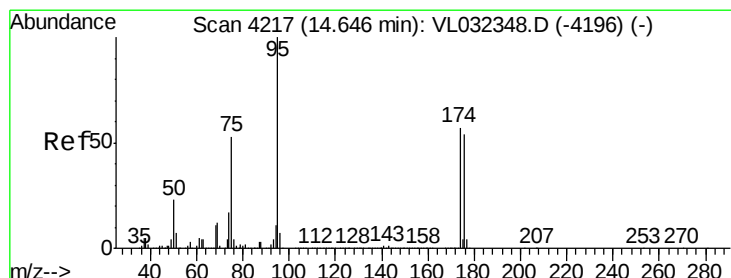
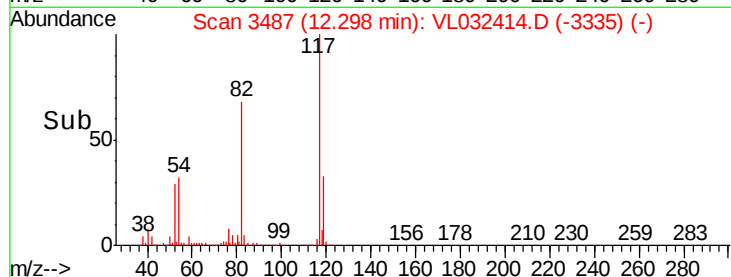
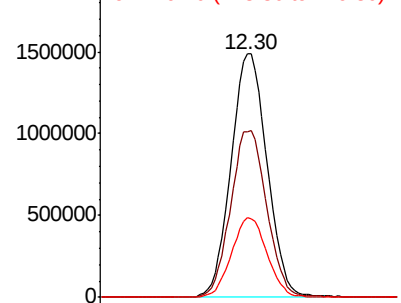
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3487
Delta R.T. -0.01 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3294448
Ion Ratio Lower Upper
117 100
82 69.1 55.1 82.7
119 32.3 46.0 69.0#

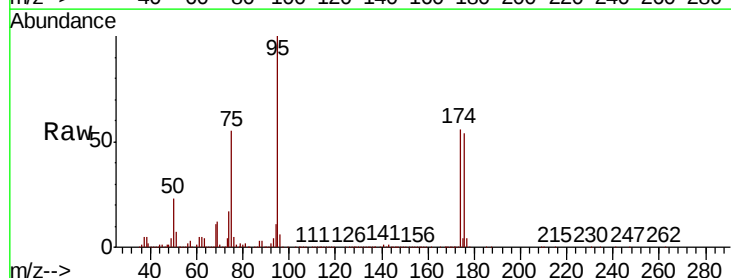


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

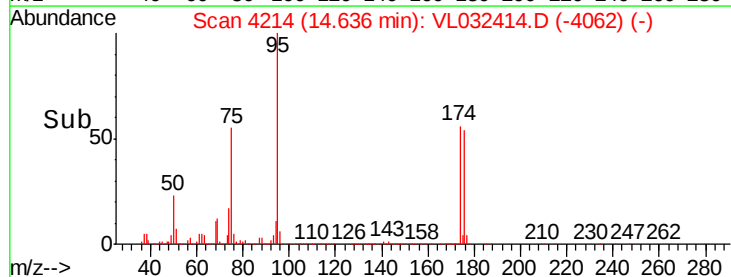
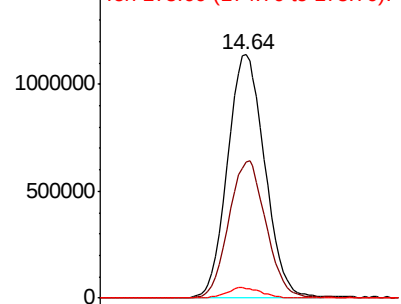


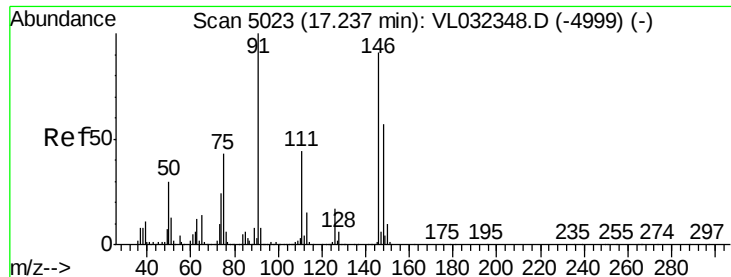
#68
1-Bromo-4-Fluorobenzene
Concen: 10.096 ppbv
RT: 14.64 min Scan# 4214
Delta R.T. -0.01 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Tgt Ion: 95 Resp: 2537521
Ion Ratio Lower Upper
95 100
174 56.7 46.2 69.4
175 4.1 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0
1500000 Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V





#75

1,3-Dichlorobenzene

Concen: 4.245 ppbv

RT: 17.37 min Scan# 5064

Delta R.T. 0.13 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampleId :

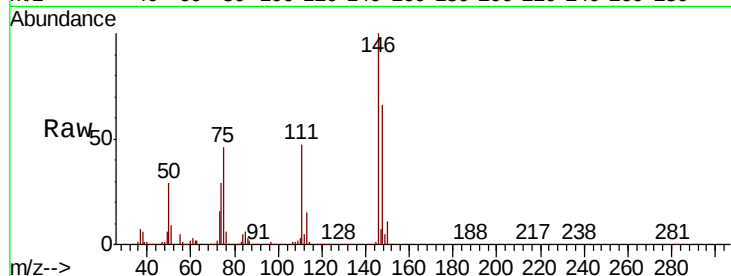
Tot Ion:146 Resp: 963724

Ion Ratio Lower Upper

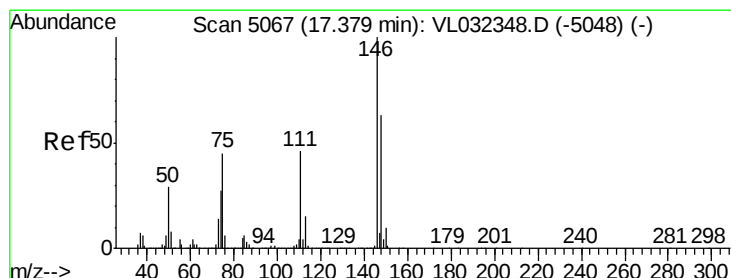
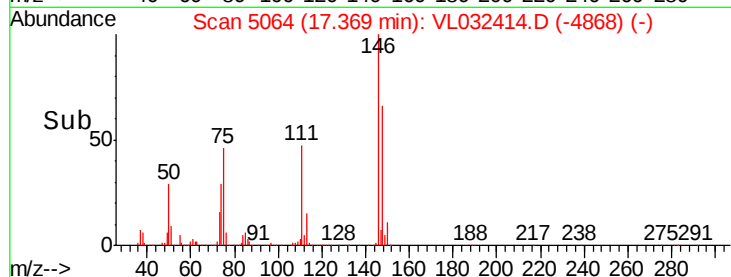
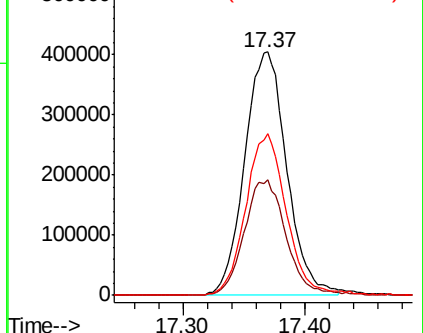
146 100

111 47.3 24.6 73.8

148 64.3 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 4.481 ppbv

RT: 17.37 min Scan# 5064

Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

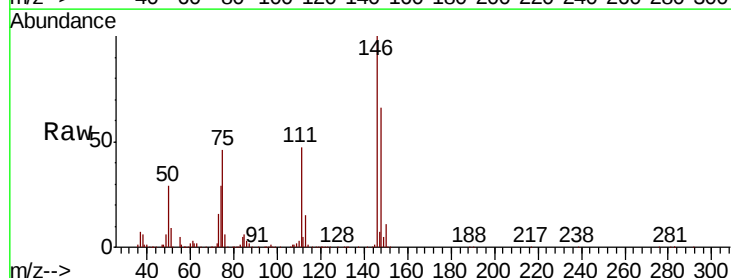
Tgt Ion:146 Resp: 963724

Ion Ratio Lower Upper

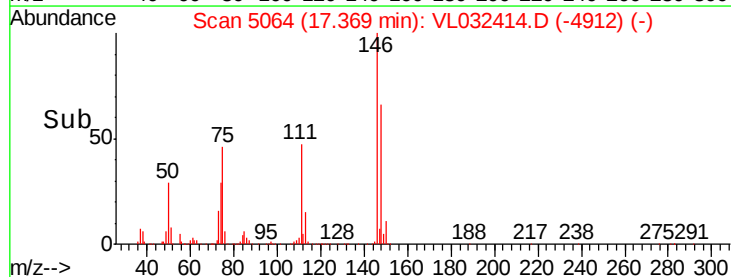
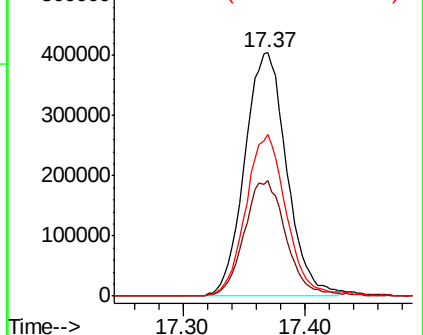
146 100

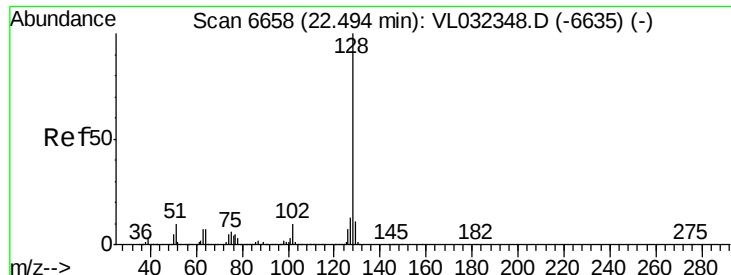
111 47.3 23.8 71.4

148 64.4 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.332 ppbv

RT: 22.48 min Scan# 6654

Delta R.T. -0.01 min

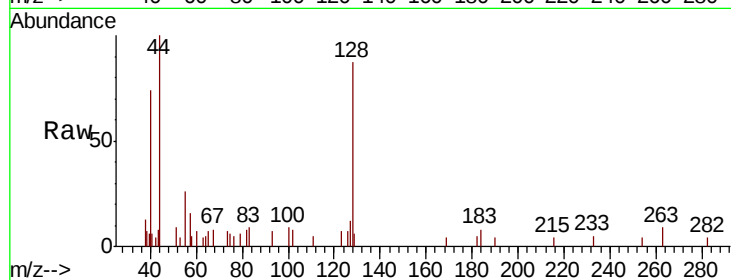
Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampleId :



Tot Ion:	128	Resp:	1872
Ion	Ratio	Lower	Upper
128	100		
127	17.8	10.3	15.5#
129	0.0	8.6	13.0#

