

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032447.D
 Acq On : 31 Aug 2018 19:06
 Operator : SY/AP
 Sample : J4717-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

Manual Integrations
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 9/4/2018 8:26:48 AM

Quant Time: Sep 02 22:45:21 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 2018

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1667142	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3489312	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3341000	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2557149	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.10	85	28968	0.136	ppbv	98
3) Chlorodifluoromethane	3.04	51	48468	0.321	ppbv	100
4) Chloromethane	3.20	50	20207	0.221	ppbv	95
9) Propene	3.06	41	9978707	163.920	ppbv	99
10) Heptane	8.30	43	891648	4.083	ppbv	98
11) Trichlorofluoromethane	4.04	101	110276	0.573	ppbv	94
13) Ethanol	3.69	45	837099	44.114	ppbv	98
15) Acetone	3.94	43	16603861	110.596	ppbv #	78
16) 1,3-Butadiene	3.38	39	2268299m	32.108	ppbv	
17) tert-Butyl alcohol	4.40	59	1013709	43.877	ppbv #	100
20) Methylene Chloride	4.46	84	796349	13.911	ppbv	97
26) Hexane	5.83	57	2479193	15.617	ppbv #	40
27) Carbon Disulfide	4.66	76	246656	1.683	ppbv	97
29) Chloroform	5.90	83	240026	0.992	ppbv	97
30) Cyclohexane	7.30	84	96423m	0.830	ppbv	
34) 2-Butanone	5.37	43	4356722	18.798	ppbv	99
36) Benzene	7.06	78	1775844	5.981	ppbv	97
50) 4-Methyl-2-Pentanone	8.92	43	614196	1.759	ppbv	98
51) 2-Hexanone	10.32	43	884127	3.931	ppbv #	96
52) Tetrachloroethene	11.43	164	47437m	0.515	ppbv	
53) Toluene	10.00	91	5029243	16.203	ppbv	99
58) Ethyl Benzene	12.92	91	1852045	4.632	ppbv	95
59) m/p-Xylene	13.17	91	5126178	14.381	ppbv	98
60) o-Xylene	13.90	91	1607839	4.592	ppbv	98
62) Isopropylbenzene	14.88	105	125566	0.255	ppbv	91
64) n-propylbenzene	15.78	120	196323	1.526	ppbv	80
72) 4-Ethyltoluene	16.06	105	1034739	2.707	ppbv	97
73) 1,3,5-Trimethylbenzene	16.22	105	538891	1.407	ppbv	95
74) 1,2,4-Trimethylbenzene	16.99	105	2016219	4.815	ppbv #	70

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

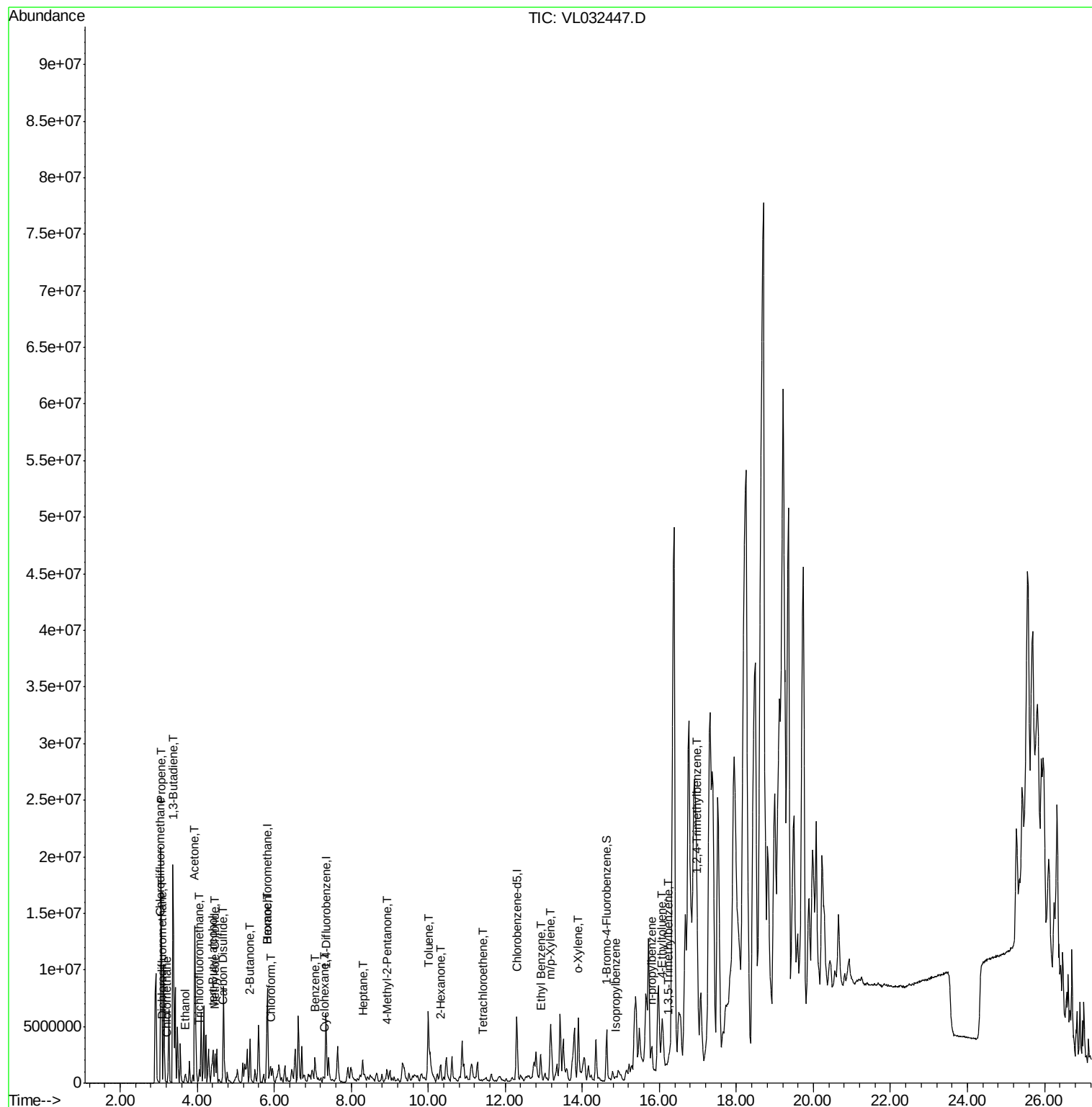
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032447.D
Acq On : 31 Aug 2018 19:06
Operator : SY/AP
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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

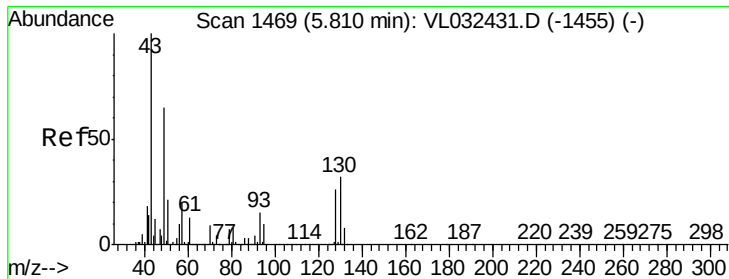
Instrument :
MSVOA_L
ClientSampleId :
VP-04

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Quant Time: Sep 02 22:45:21 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampled :

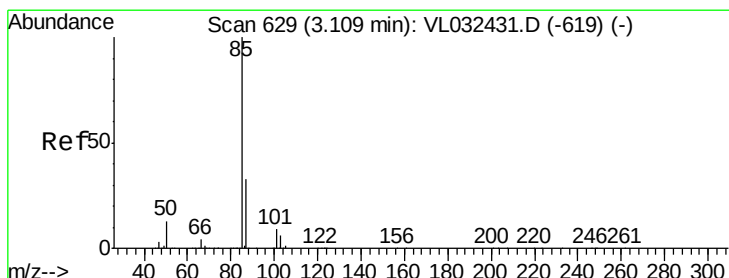
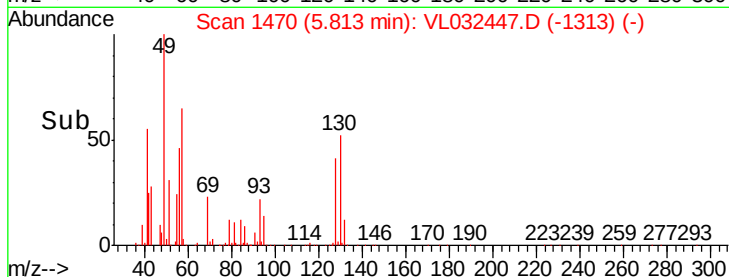
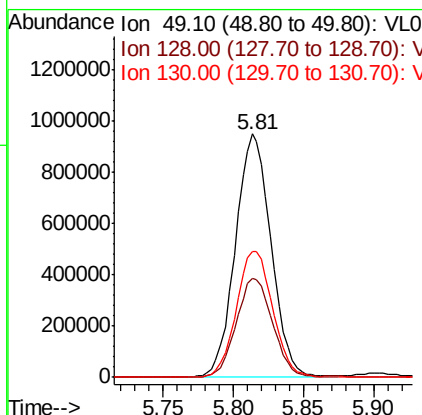
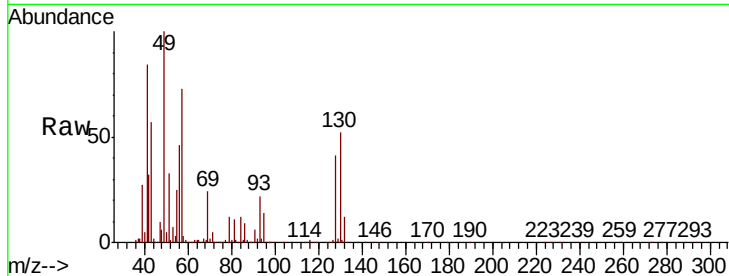
VP-04

Tgt Ion: 49 Resp: 1667142

Ion	Ratio	Lower	Upper
49	100		
128	42.3	20.7	62.1
130	53.7	26.6	79.7

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#2

Dichlorodifluoromethane

Concen: 0.136 ppbv

RT: 3.10 min Scan# 627

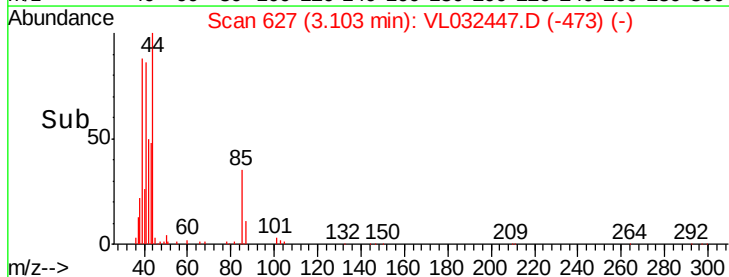
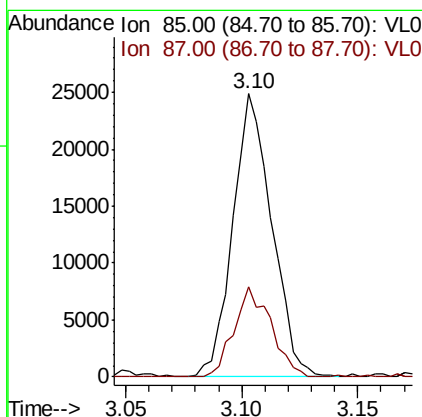
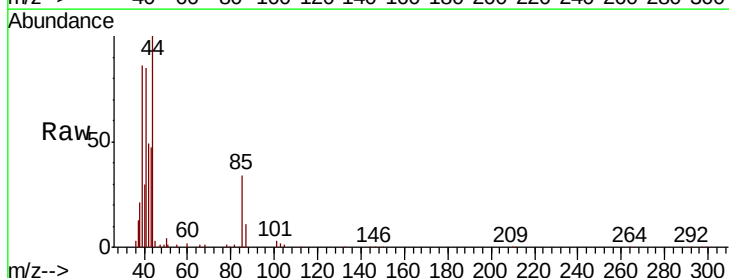
Delta R.T. -0.01 min

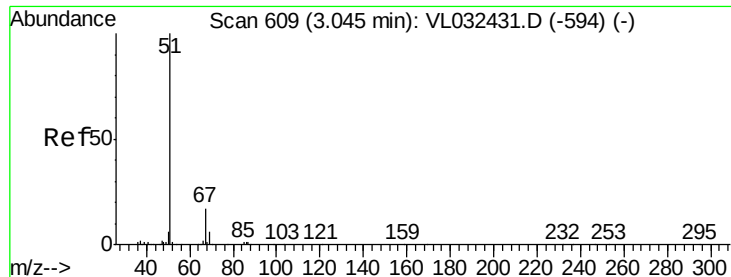
Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Tgt Ion: 85 Resp: 28968

Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.2	39.4





#3

Chlorodifluoromethane

Concen: 0.321 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

VP-04

Tgt Ion: 51 Resp: 48468

Ion Ratio Lower Upper

51 100

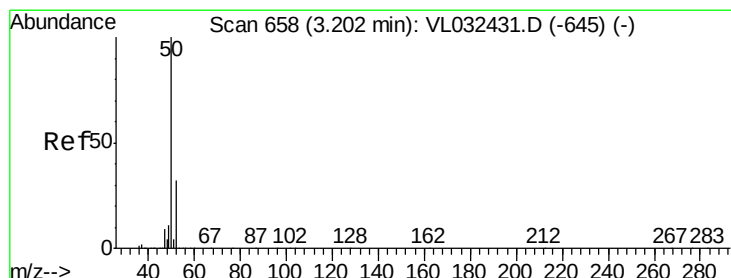
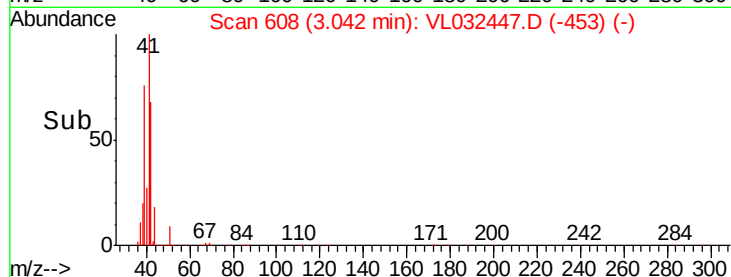
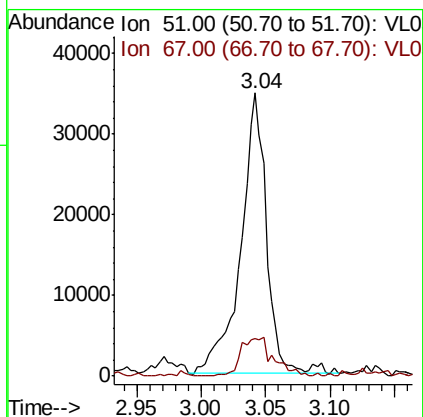
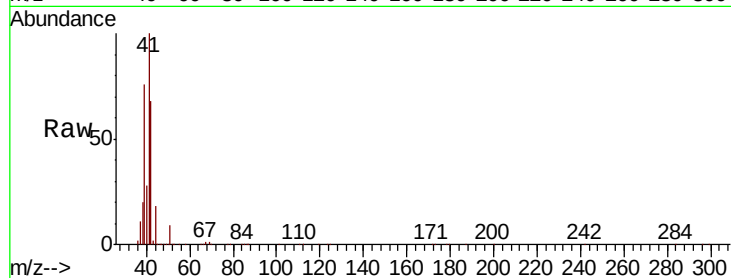
67 17.2 13.8 20.8

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#4

Chloromethane

Concen: 0.221 ppbv

RT: 3.20 min Scan# 656

Delta R.T. -0.01 min

Lab File: VL032447.D

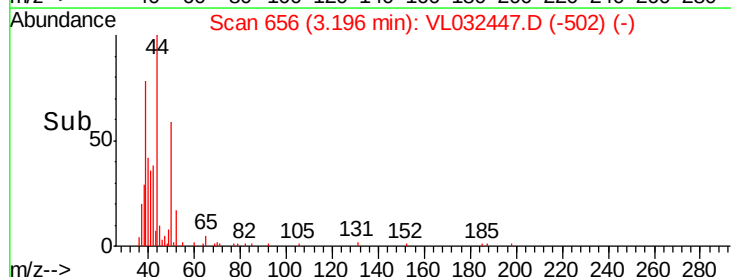
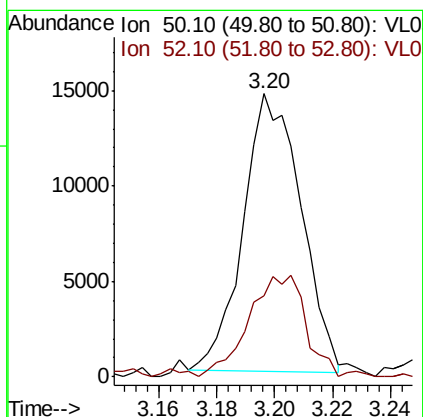
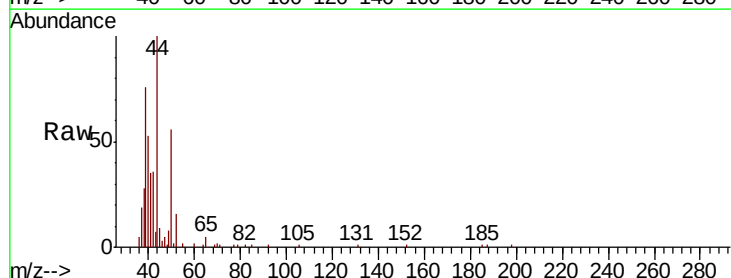
Acq: 31 Aug 2018 19:06

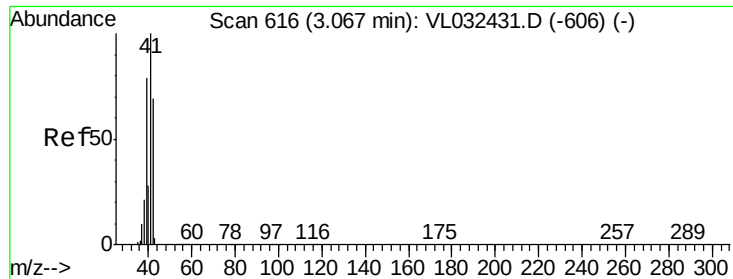
Tgt Ion: 50 Resp: 20207

Ion Ratio Lower Upper

50 100

52 29.3 25.6 38.4





#9

Propene

Concen: 163.920 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampled :

VP-04

Tgt Ion: 41 Resp: 9978707

Ion Ratio Lower Upper

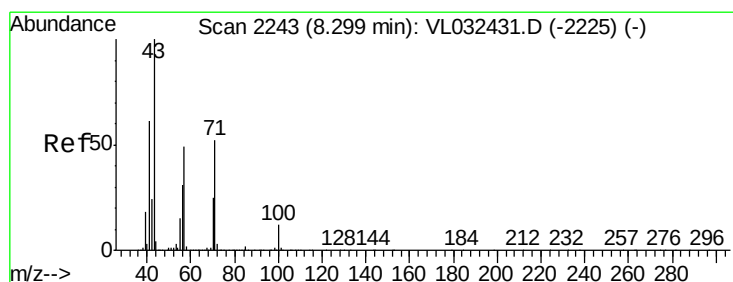
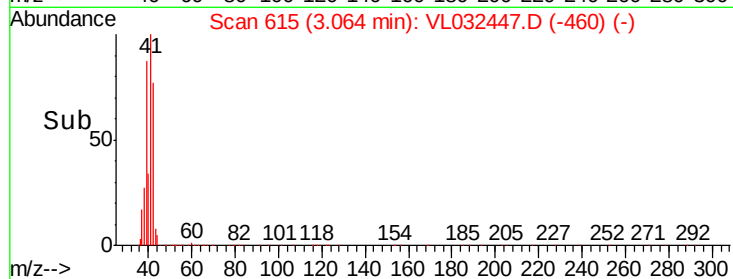
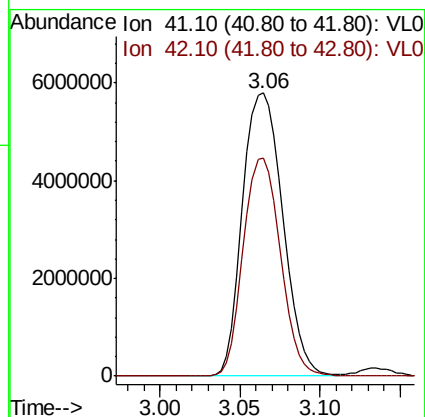
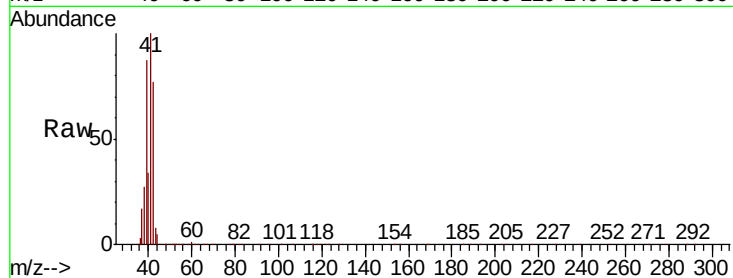
41 100

42 71.4 56.6 84.8

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#10

Heptane

Concen: 4.083 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VL032447.D

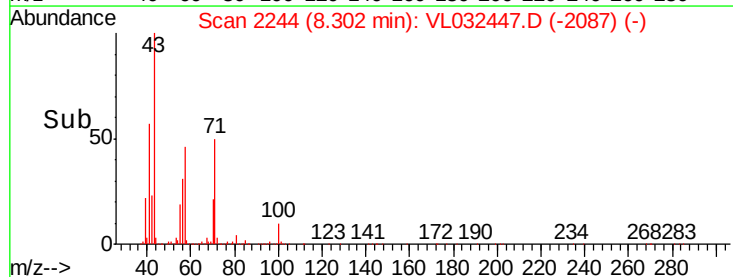
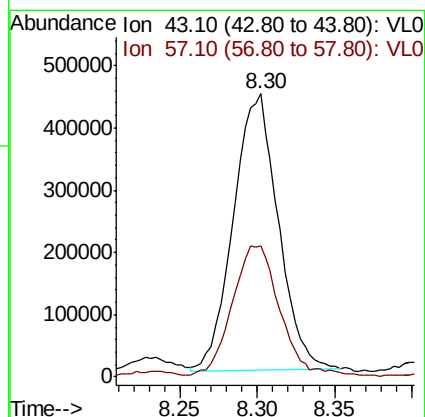
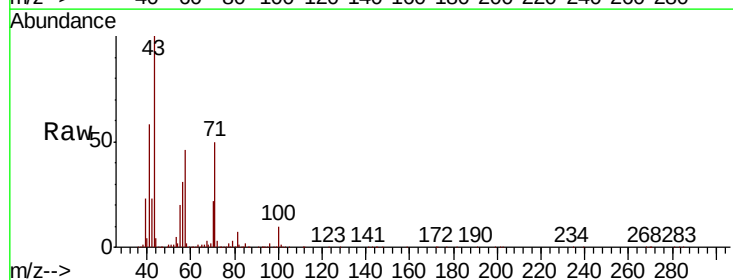
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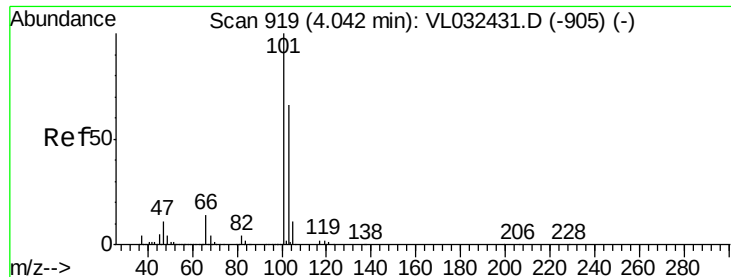
Tgt Ion: 43 Resp: 891648

Ion Ratio Lower Upper

43 100

57 50.6 39.6 59.4





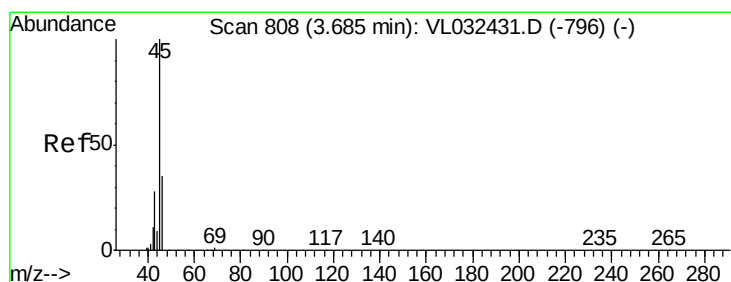
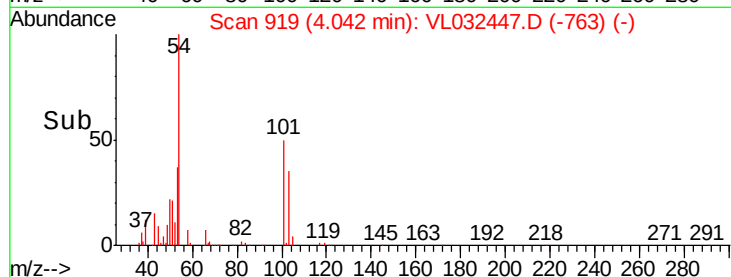
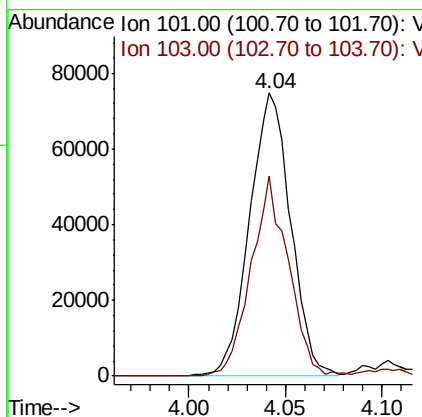
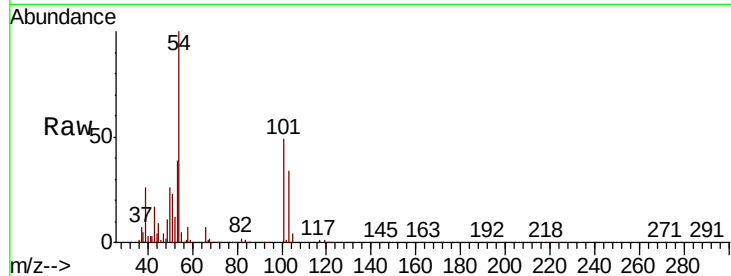
#11
 Trichlorofluoromethane
 Concen: 0.573 ppbv
 RT: 4.04 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

Tgt Ion: 101 Resp: 110276
 Ion Ratio Lower Upper
 101 100
 103 70.8 52.8 79.2

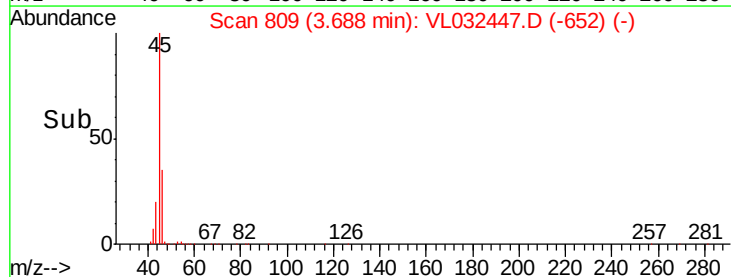
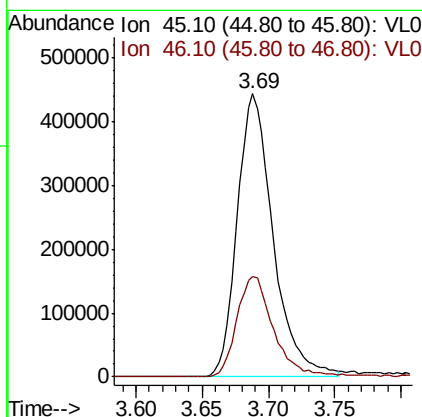
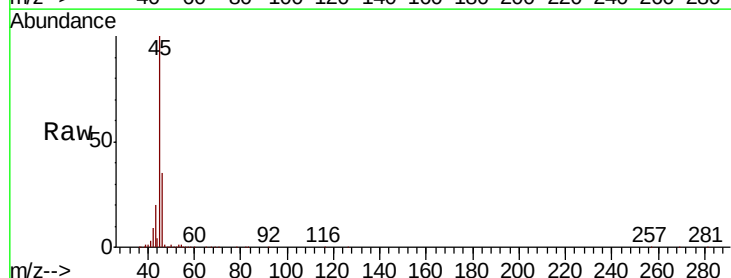
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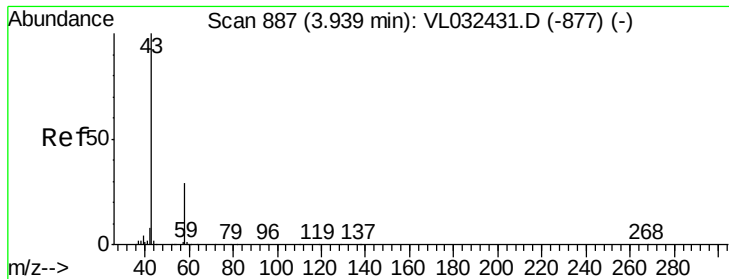
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#13
 Ethanol
 Concen: 44.114 ppbv
 RT: 3.69 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion: 45 Resp: 837099
 Ion Ratio Lower Upper
 45 100
 46 36.7 14.2 56.8





#15

Acetone

Concen: 110.596 ppbv

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampled :

VP-04

Tgt Ion: 43 Resp:16603861

Ion Ratio Lower Upper

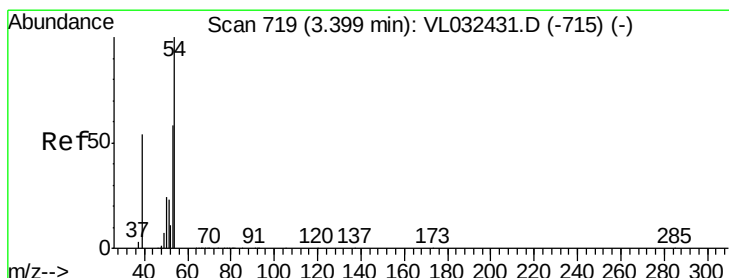
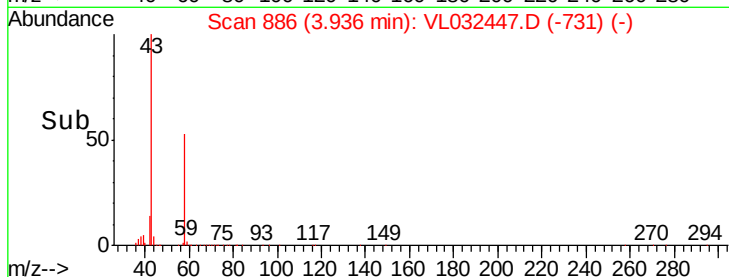
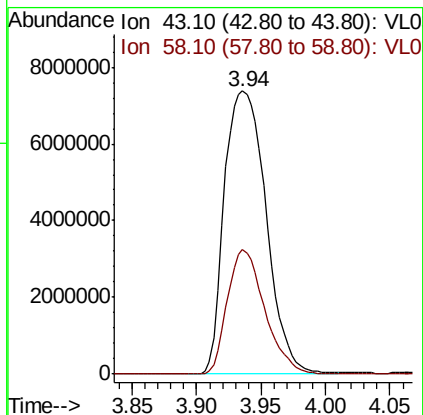
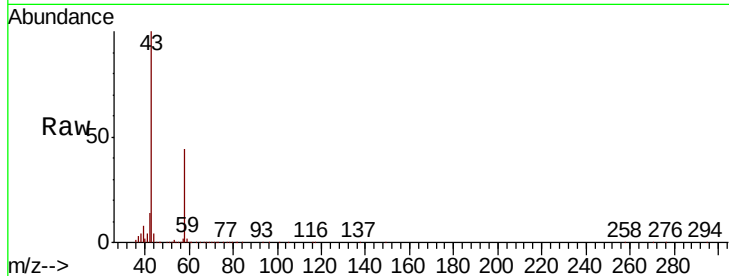
43 100

58 39.8 22.6 33.8#

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#16

1,3-Butadiene

Concen: 32.108 ppbv m

RT: 3.38 min Scan# 714

Delta R.T. -0.02 min

Lab File: VL032447.D

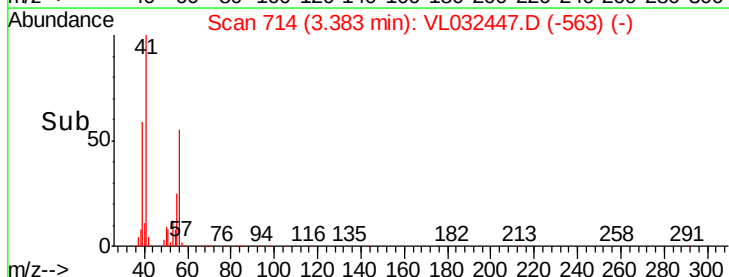
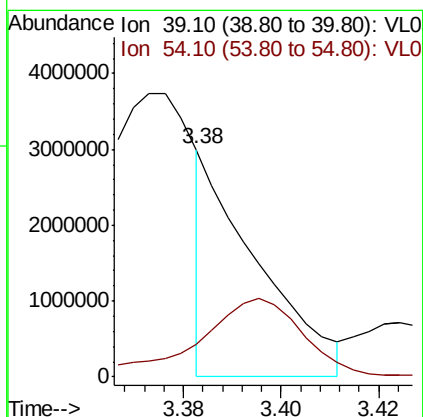
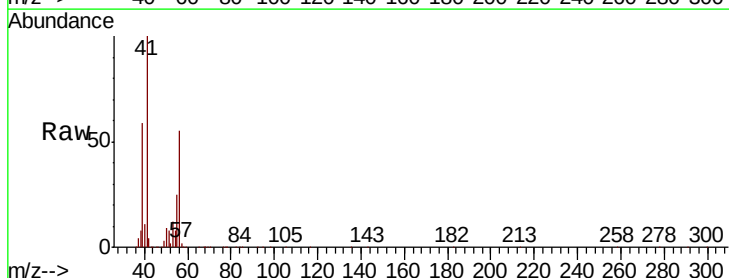
Acq: 31 Aug 2018 19:06

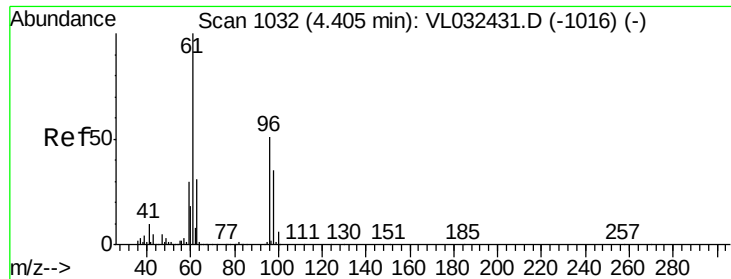
Tgt Ion: 39 Resp: 2268299

Ion Ratio Lower Upper

39 100

54 0.0 80.8 121.2#





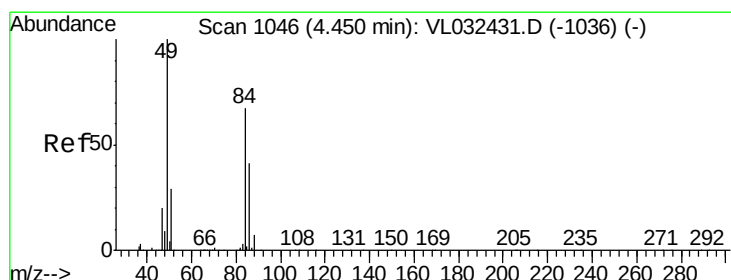
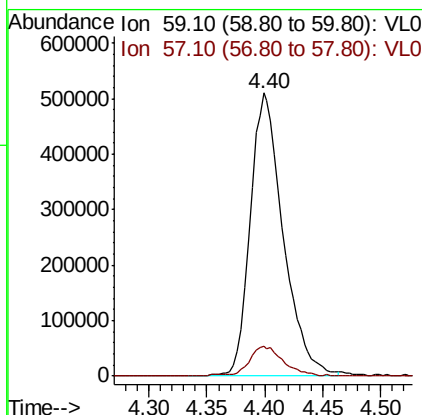
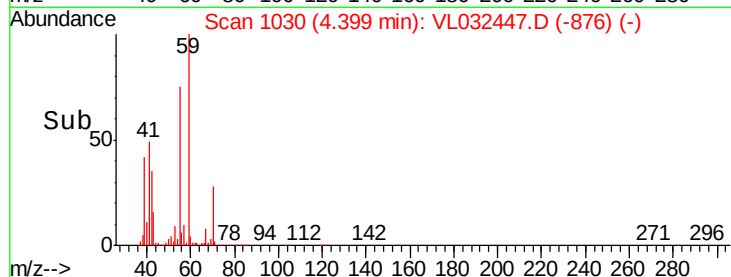
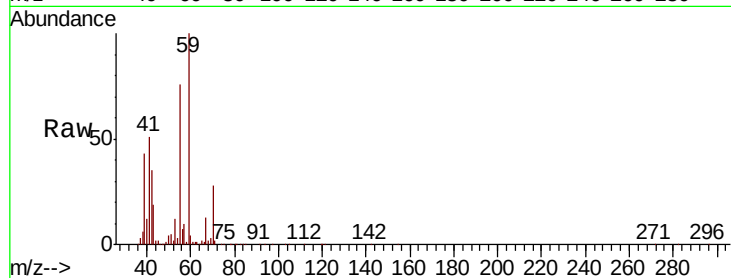
#17
 tert-Butyl alcohol
 Concen: 43.877 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. -0.01 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Instrument :
 MSVOA_L
 ClientSampled :
 VP-04

Tgt Ion: 59 Resp: 1013709
 Ion Ratio Lower Upper
 59 100
 57 10.8 0.0 0.0#

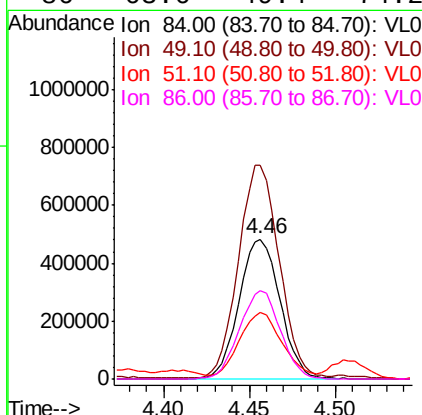
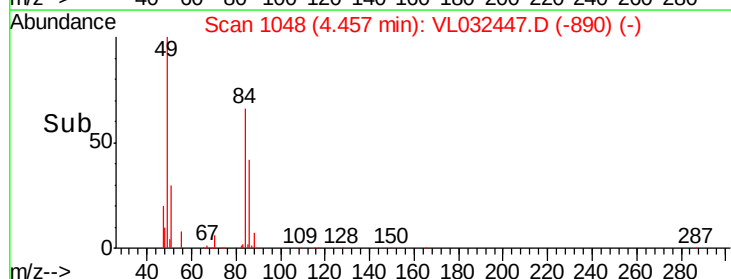
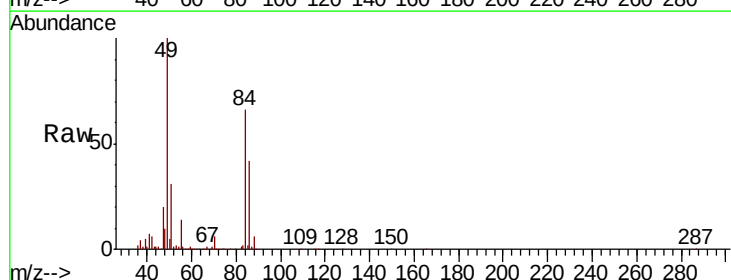
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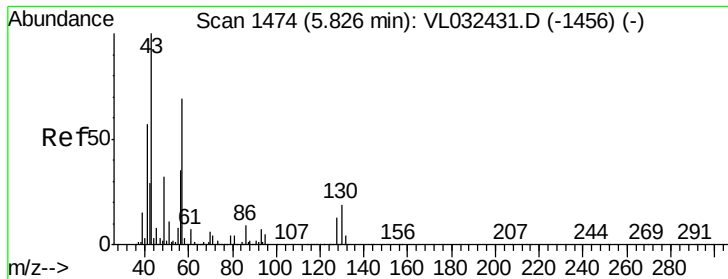
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#20
 Methylene Chloride
 Concen: 13.911 ppbv
 RT: 4.46 min Scan# 1048
 Delta R.T. 0.01 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion: 84 Resp: 796349
 Ion Ratio Lower Upper
 84 100
 49 151.9 119.1 178.7
 51 41.7 35.2 52.8
 86 63.6 49.4 74.2





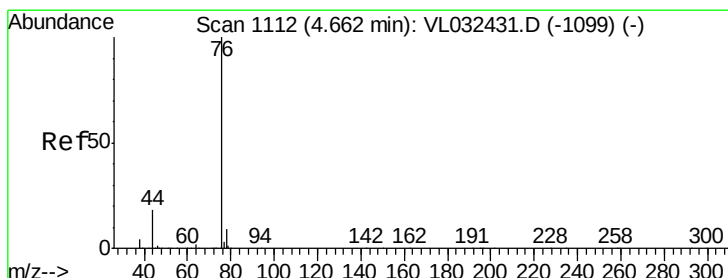
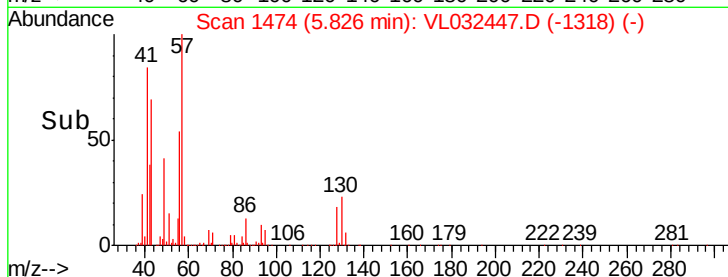
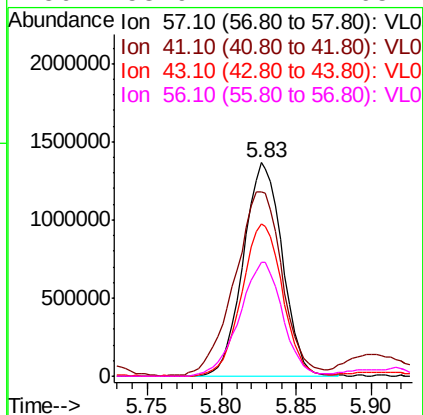
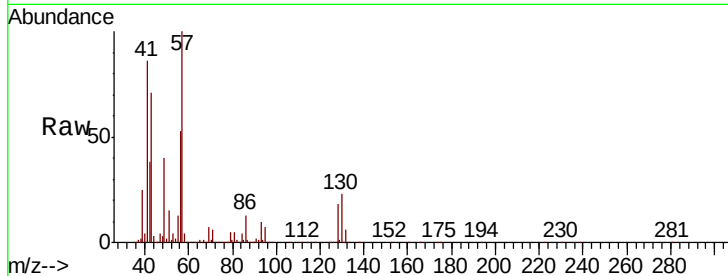
#26
Hexane
Concen: 15.617 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Instrument :
MSVOA_L
ClientSampled :
VP-04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	105.0	69.0	103.4#
43	74.4	172.1	258.1#
56	58.9	42.2	63.2

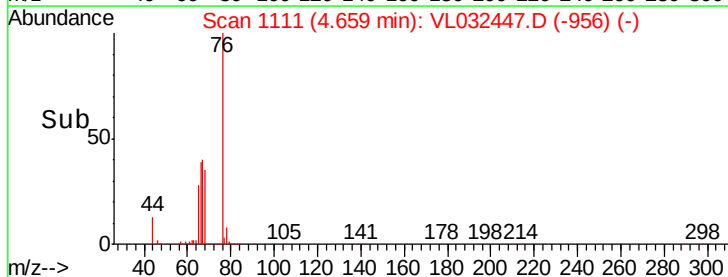
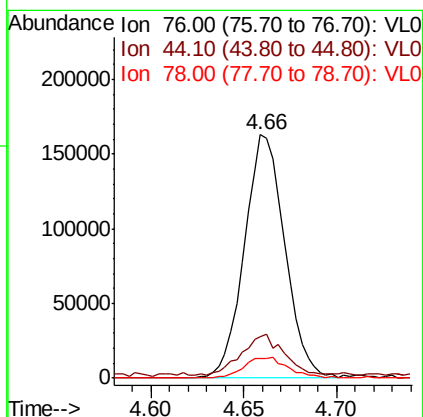
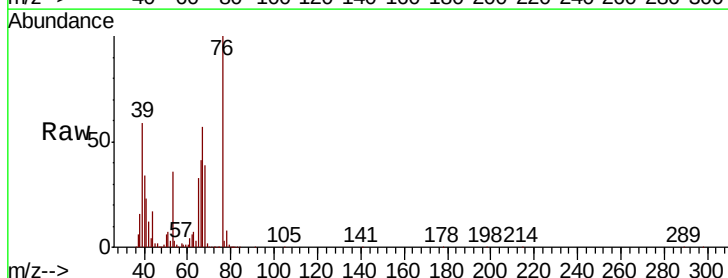
Manual Integrations
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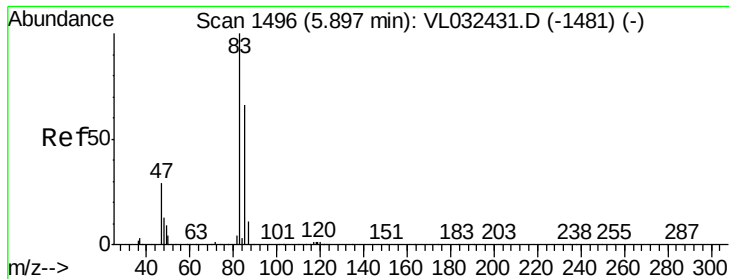
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#27
Carbon Disulfide
Concen: 1.683 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.6	14.0	21.0
78	9.5	7.5	11.3





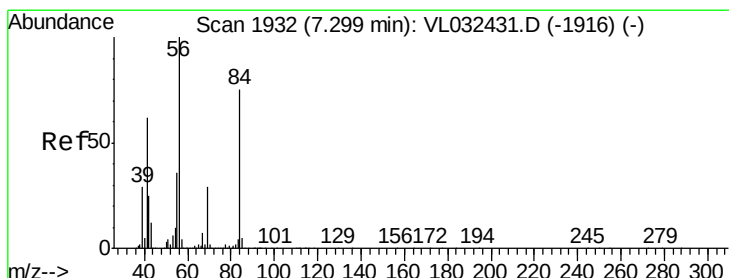
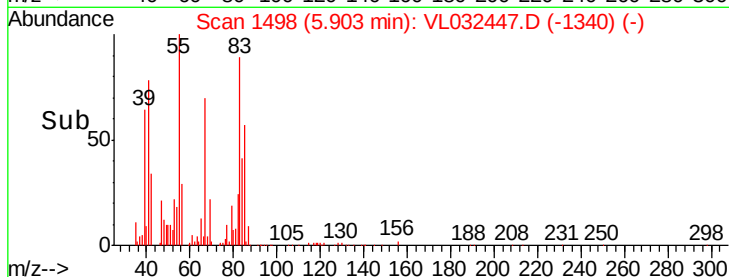
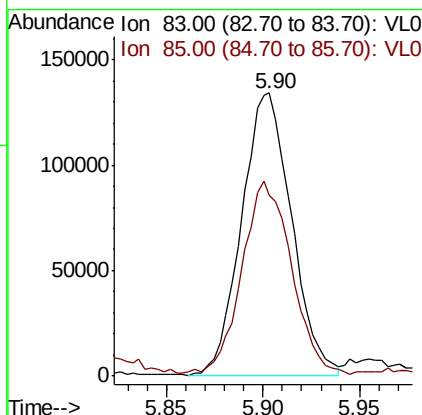
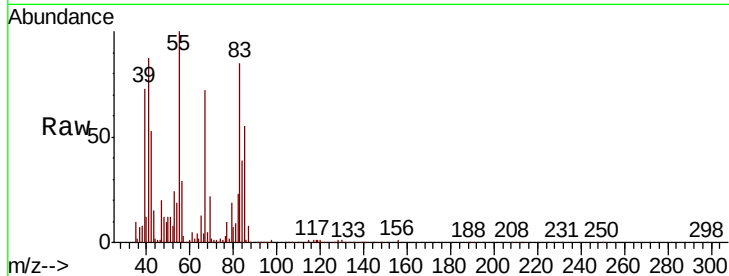
#29
Chloroform
Concen: 0.992 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.01 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Instrument :
MSVOA_L
ClientSampled :
VP-04

Tgt Ion: 83 Resp: 240026
Ion Ratio Lower Upper
83 100
85 63.0 52.5 78.7

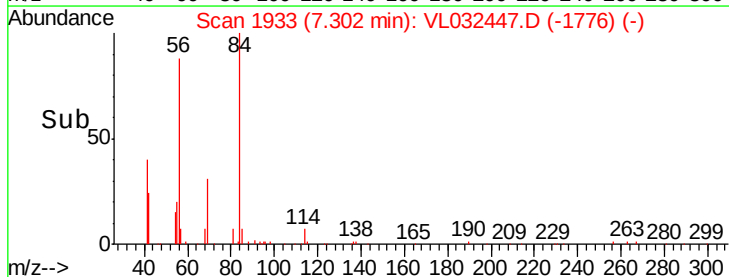
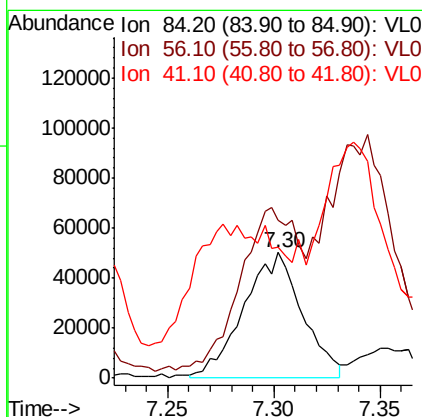
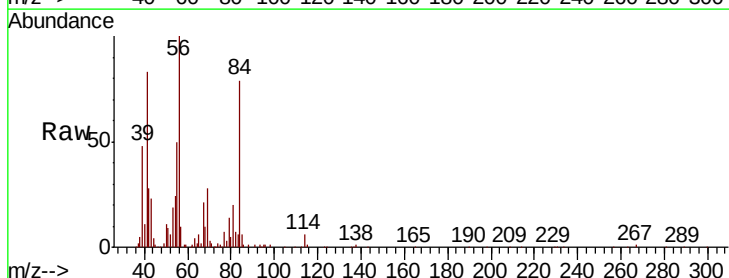
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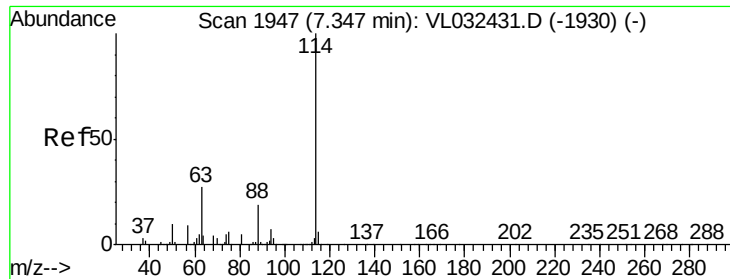
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#30
Cyclohexane
Concen: 0.830 ppbv m
RT: 7.30 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion: 84 Resp: 96423
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 0.0 68.1 102.1#





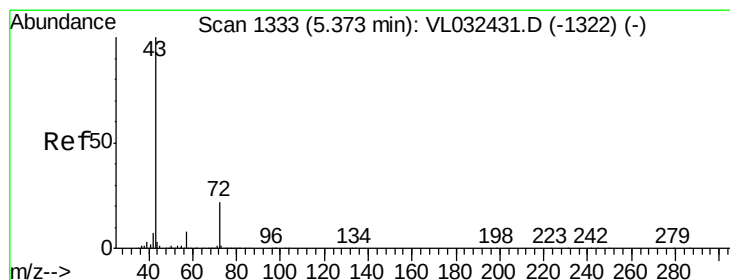
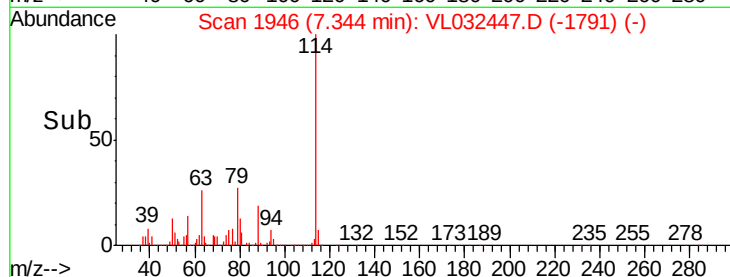
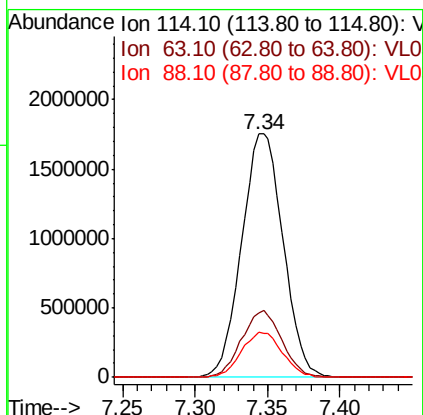
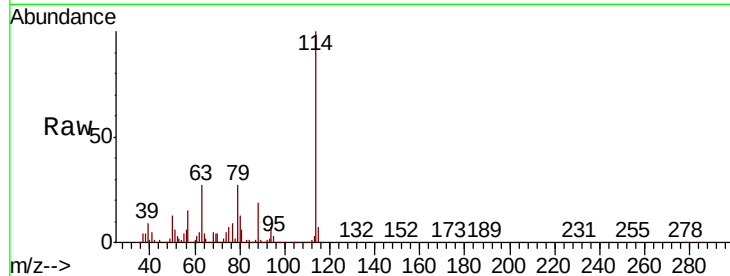
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.2	33.4
88	18.5	15.0	22.4

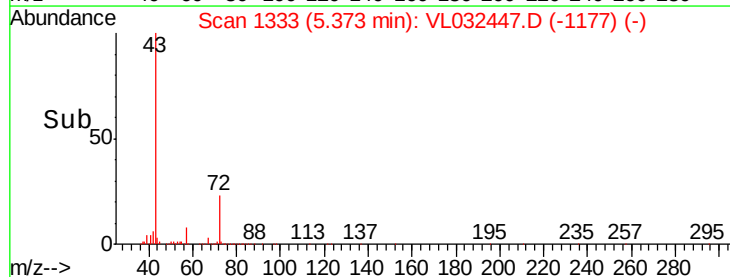
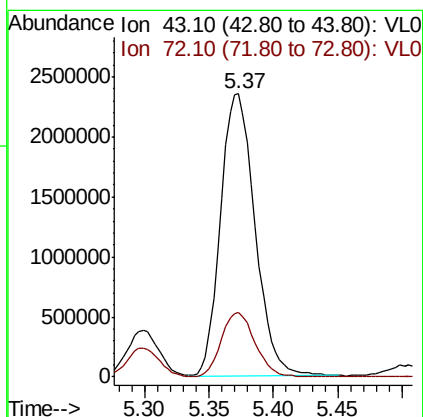
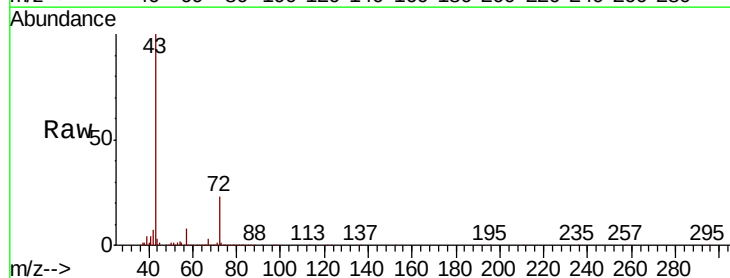
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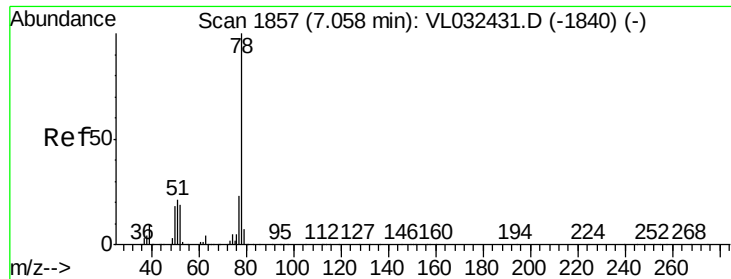
apatel
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#34
 2-Butanone
 Concen: 18.798 ppbv
 RT: 5.37 min Scan# 1333
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.8	26.6





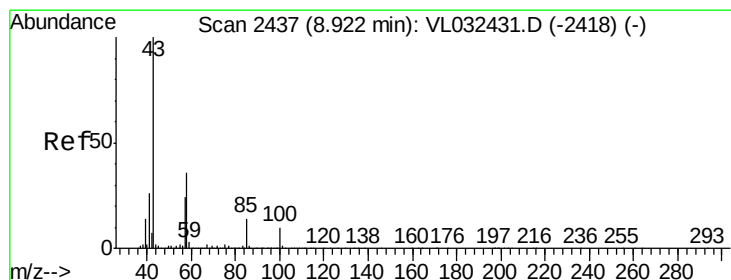
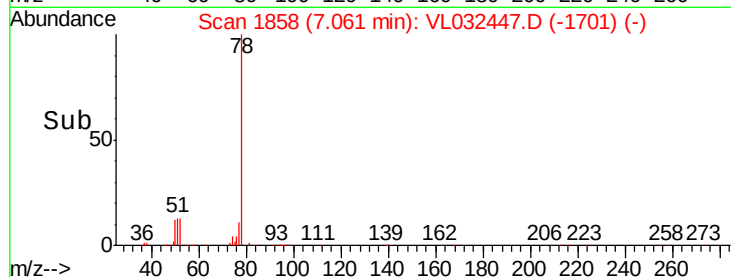
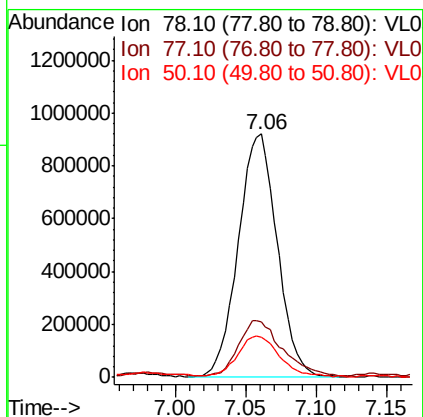
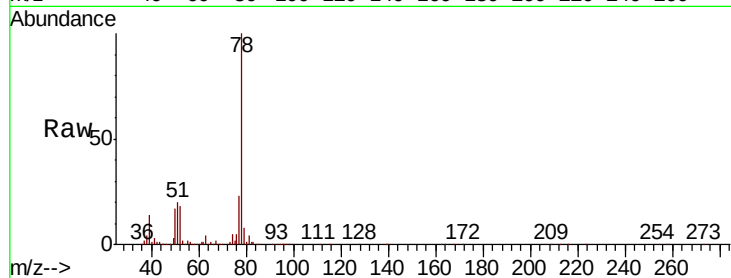
#36
Benzene
Concen: 5.981 ppbv
RT: 7.06 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Instrument :
MSVOA_L
ClientSampleId :
VP-04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.4	27.6
50	16.1	14.4	21.6

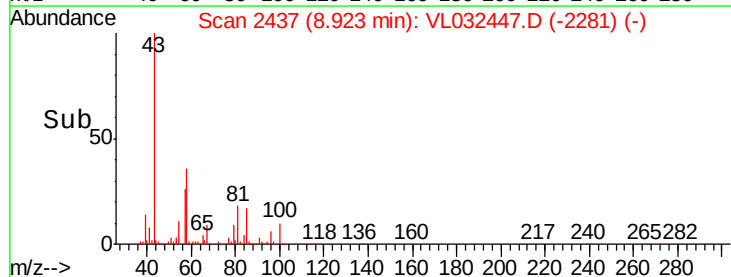
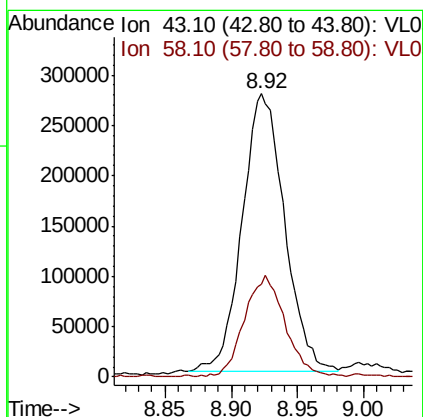
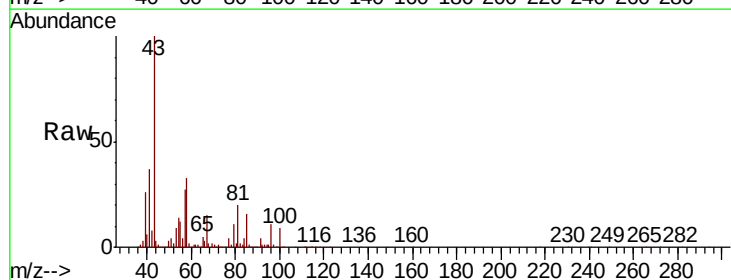
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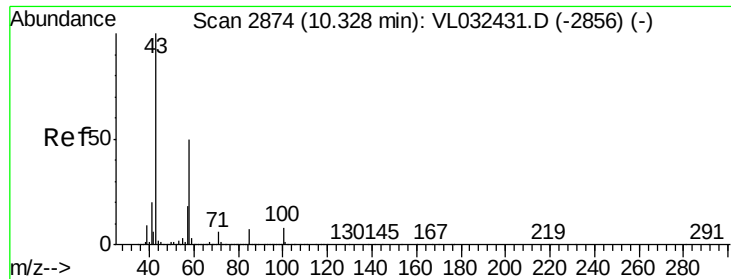
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#50
4-Methyl-2-Pentanone
Concen: 1.759 ppbv
RT: 8.92 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.8	29.0	43.4





#51

2-Hexanone

Concen: 3.931 ppbv

RT: 10.32 min Scan# 2872

Delta R.T. -0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

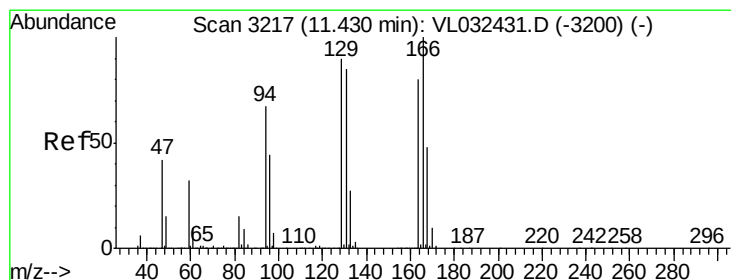
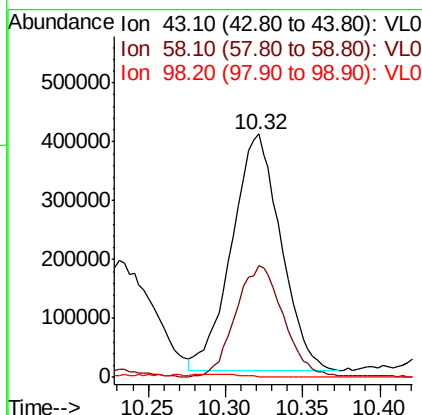
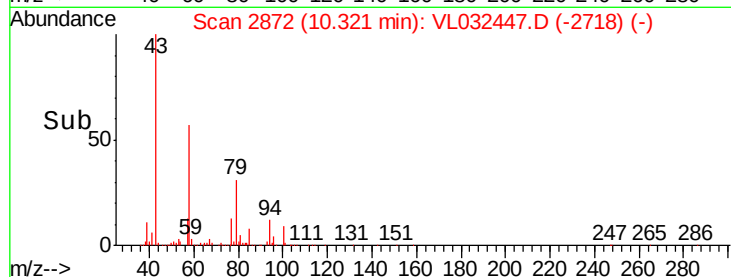
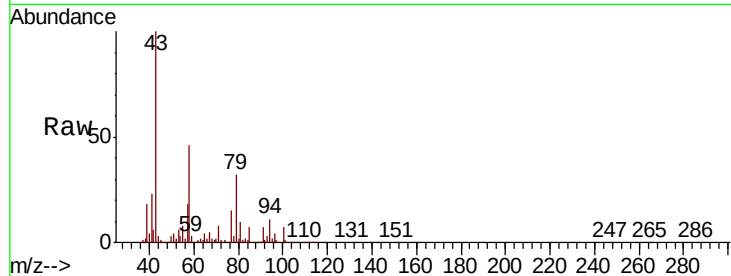
ClientSampled :

VP-04

Tgt Ion:	43	Resp:	884127
Ion Ratio	Lower	Upper	
43	100		
58	46.4	39.2	58.8
98	1.2	0.4	0.6#

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#52

Tetrachloroethene

Concen: 0.515 ppbv m

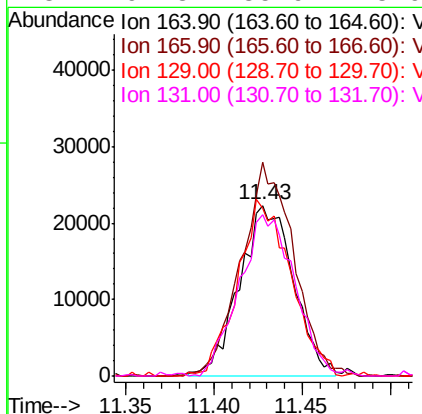
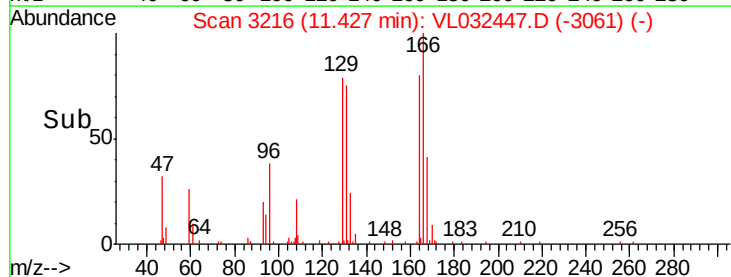
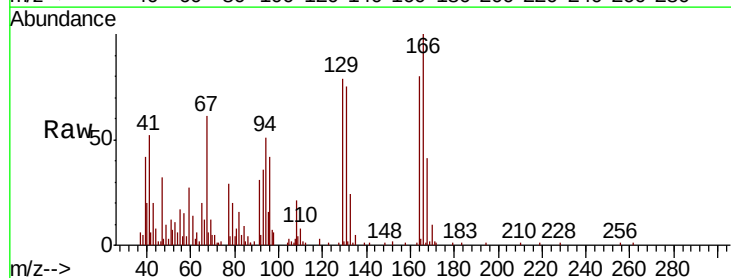
RT: 11.43 min Scan# 3216

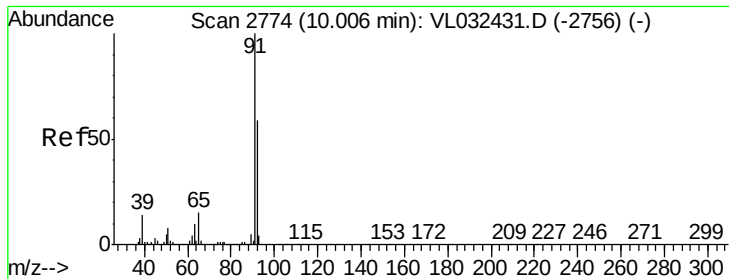
Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Tgt Ion:	164	Resp:	47437
Ion Ratio	Lower	Upper	
164	100		
166	125.2	100.6	150.8
129	98.4	89.9	134.9
131	94.3	85.9	128.9





#53

Toluene

Concen: 16.203 ppbv

RT: 10.00 min Scan# 2772

Delta R.T. -0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampled :

VP-04

Tgt Ion: 91 Resp: 5029243

Ion Ratio Lower Upper

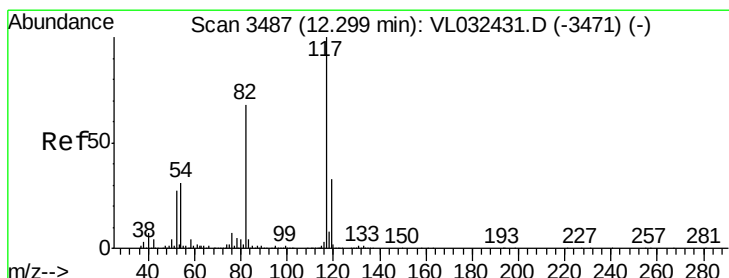
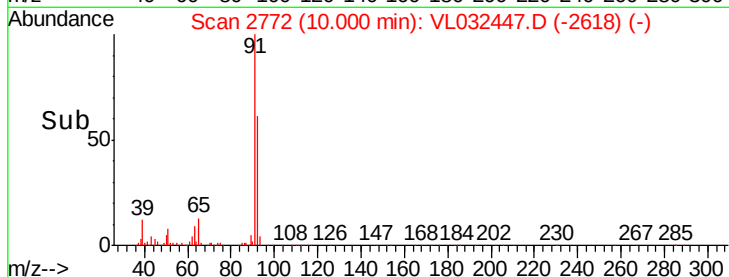
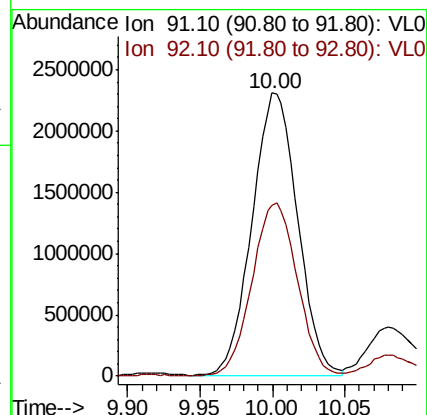
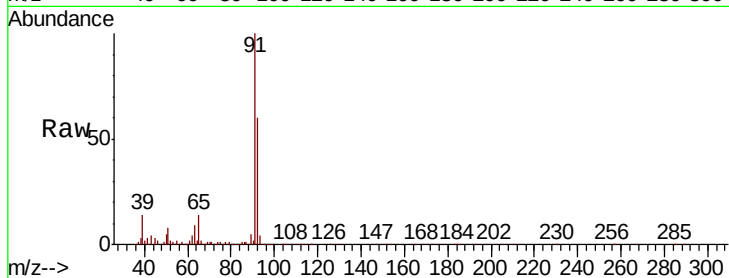
91 100

92 60.8 48.1 72.1

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3486

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

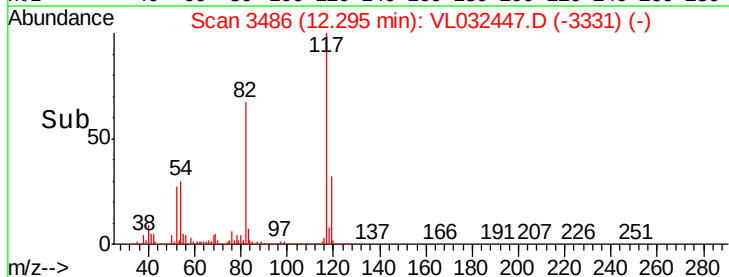
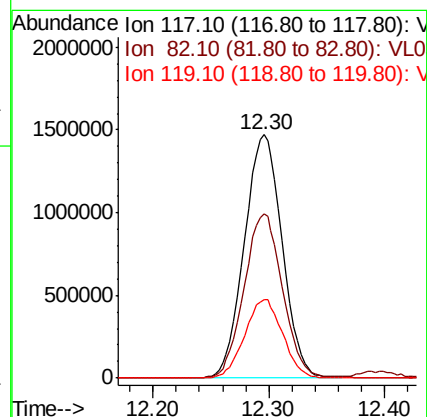
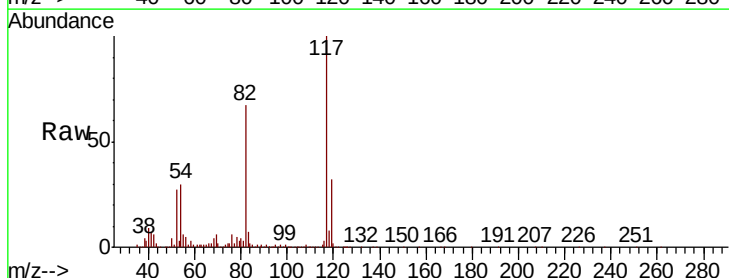
Tgt Ion: 117 Resp: 3341000

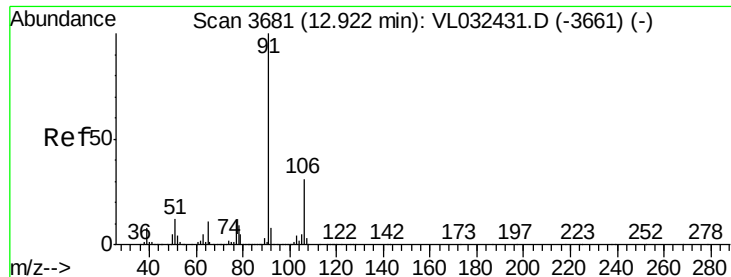
Ion Ratio Lower Upper

117 100

82 68.2 53.0 79.6

119 32.3 45.9 68.9#





#58

Ethyl Benzene

Concen: 4.632 ppbv

RT: 12.92 min Scan# 3680

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

VP-04

Tgt Ion: 91 Resp: 1852045

Ion Ratio Lower Upper

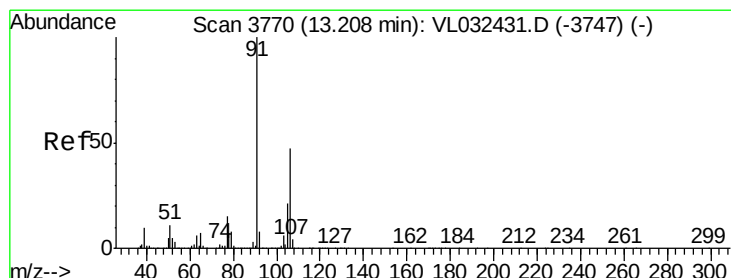
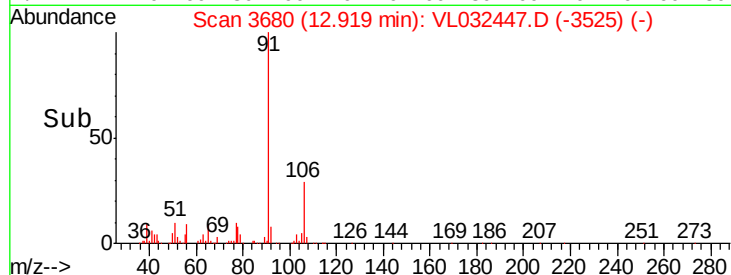
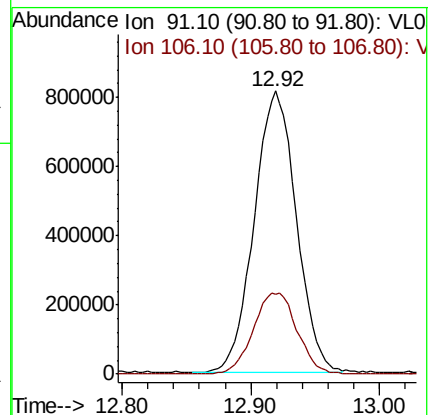
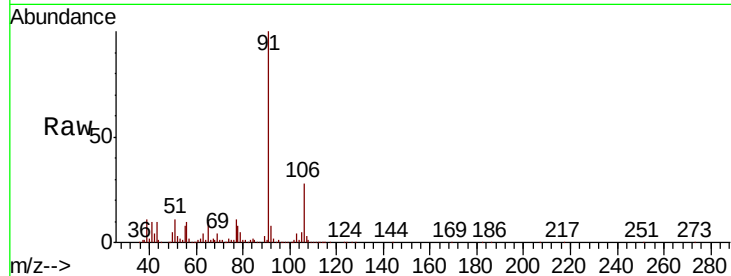
91 100

106 28.5 24.8 37.2

Manual Integrations
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#59

m/p-Xylene

Concen: 14.381 ppbv

RT: 13.17 min Scan# 3759

Delta R.T. -0.04 min

Lab File: VL032447.D

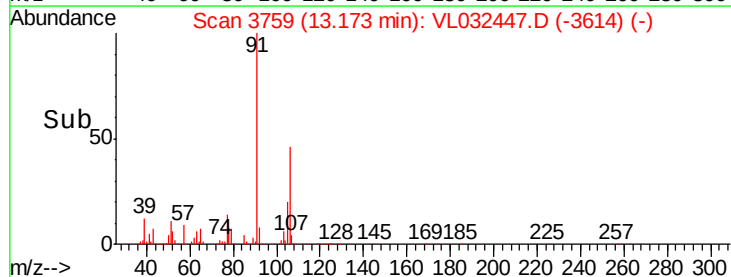
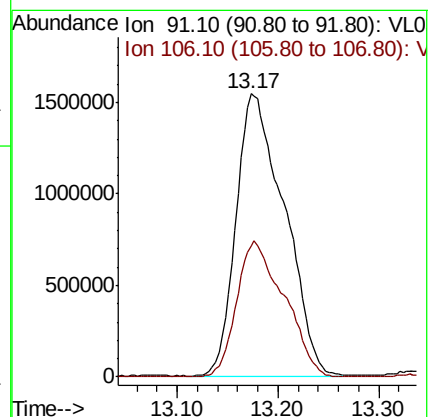
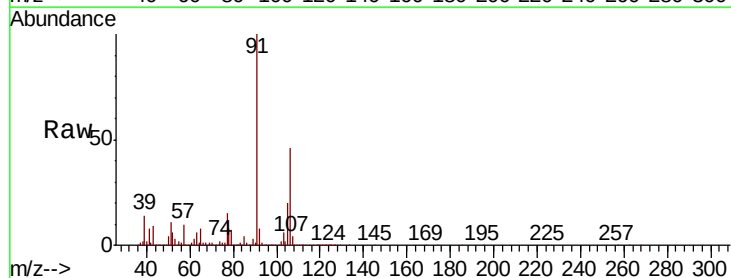
Acq: 31 Aug 2018 19:06

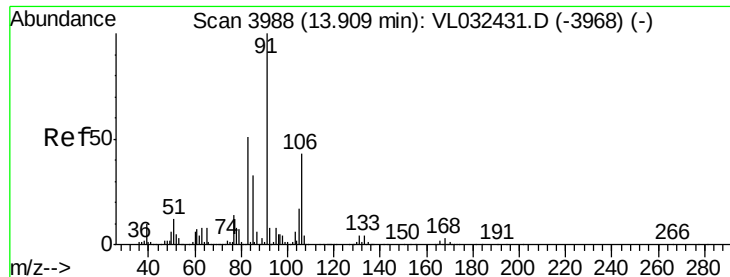
Tgt Ion: 91 Resp: 5126178

Ion Ratio Lower Upper

91 100

106 47.3 36.6 55.0





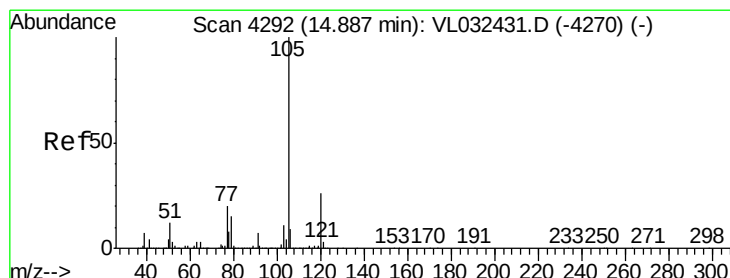
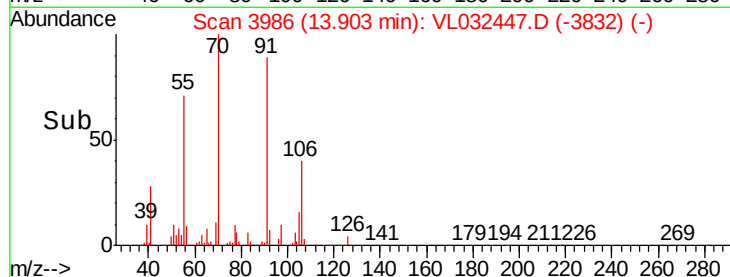
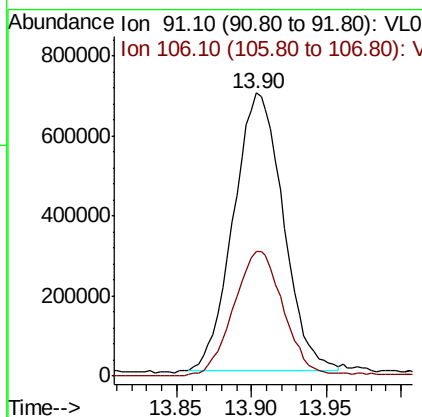
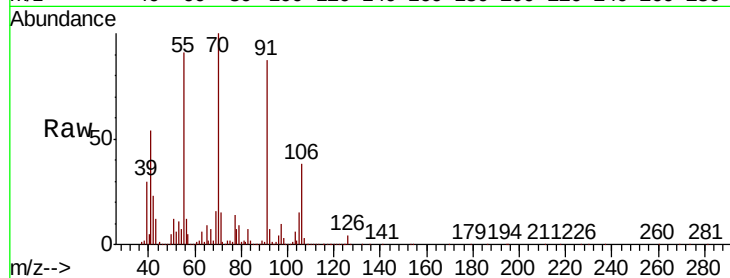
#60
o-Xylene
Concen: 4.592 ppbv
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Instrument :
MSVOA_L
ClientSampled :
VP-04

Tgt Ion: 91 Resp: 1607839
Ion Ratio Lower Upper
91 100
106 45.3 21.9 65.7

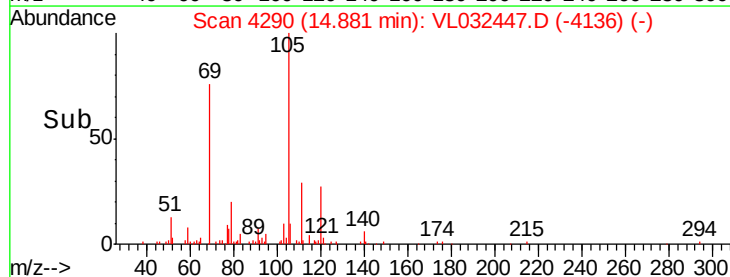
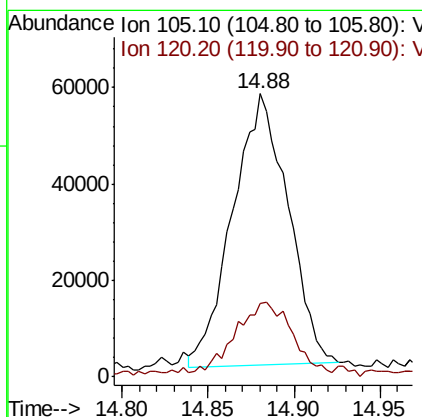
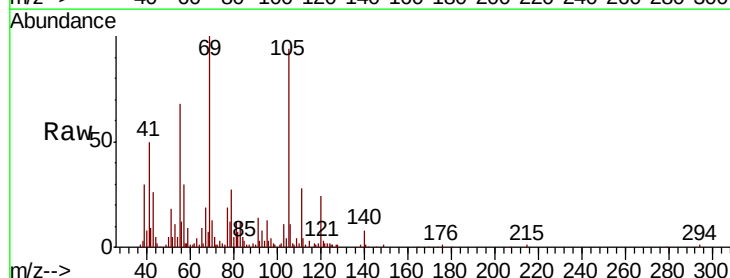
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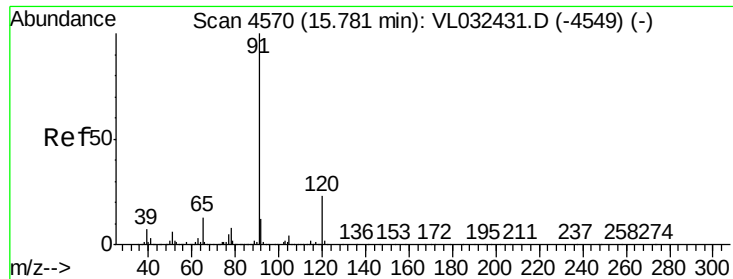
apatel
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#62
Isopropylbenzene
Concen: 0.255 ppbv
RT: 14.88 min Scan# 4290
Delta R.T. -0.01 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion: 105 Resp: 125566
Ion Ratio Lower Upper
105 100
120 30.1 20.6 31.0





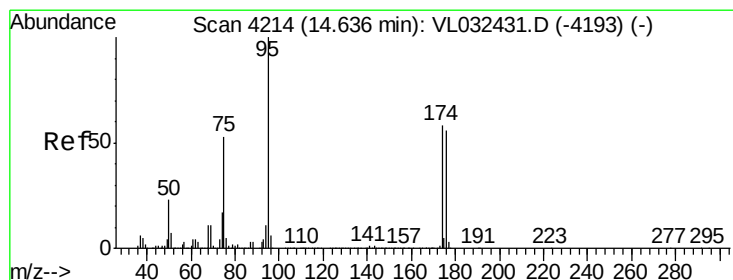
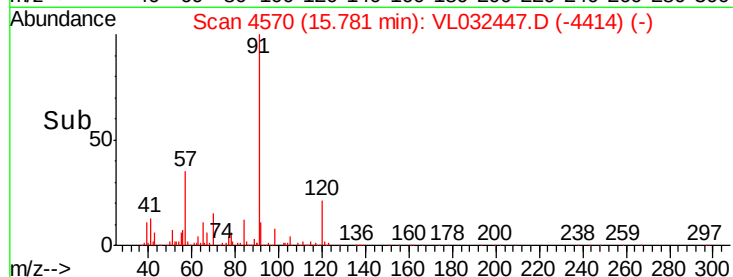
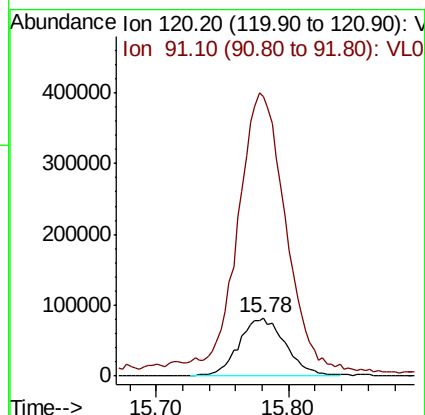
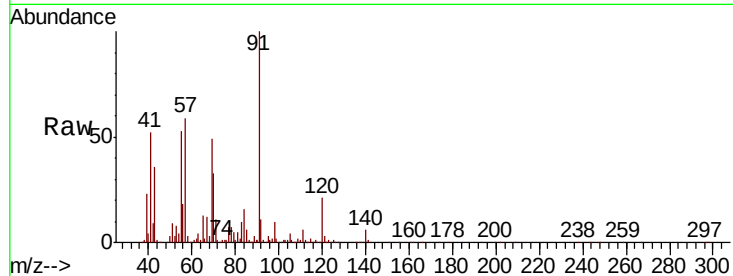
#64
n-propylbenzene
Concen: 1.526 ppbv
RT: 15.78 min Scan# 4570
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Instrument :
MSVOA_L
ClientSampled :
VP-04

Tgt Ion: 120 Resp: 196323
Ion Ratio Lower Upper
120 100
91 530.4 381.8 572.6

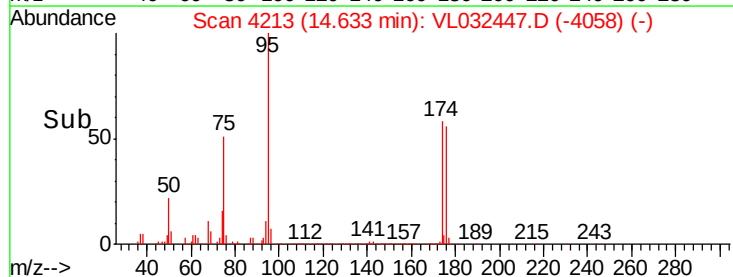
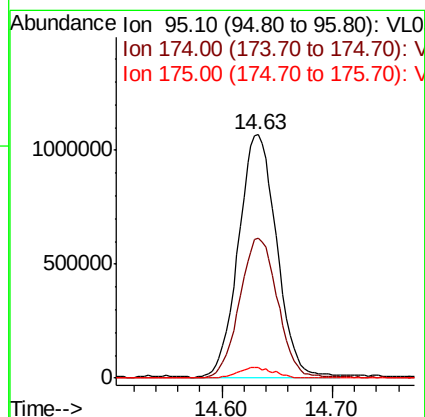
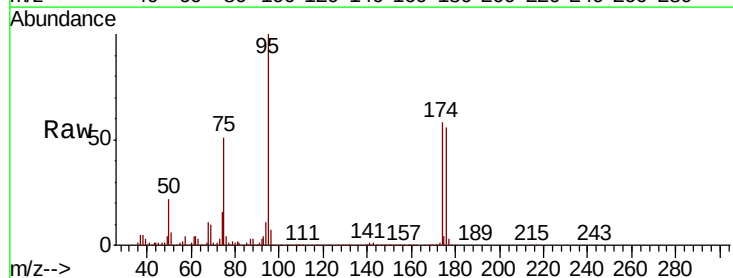
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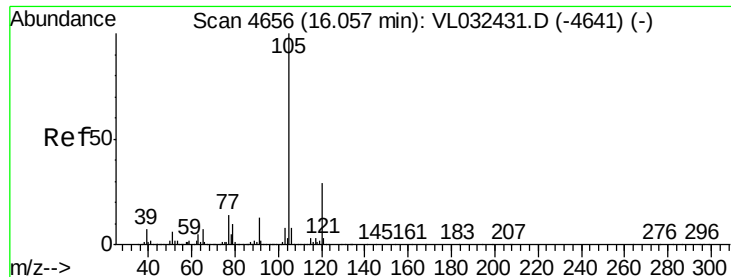
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.309 ppbv
RT: 14.63 min Scan# 4213
Delta R.T. -0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion: 95 Resp: 2557149
Ion Ratio Lower Upper
95 100
174 58.2 46.3 69.5
175 4.2 3.4 5.0





#72

4-Ethyltoluene

Concen: 2.707 ppbv

RT: 16.06 min Scan# 4656

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

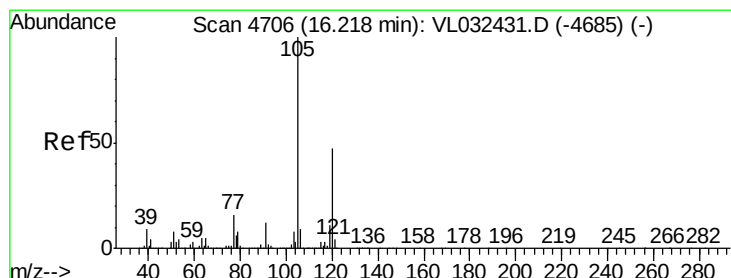
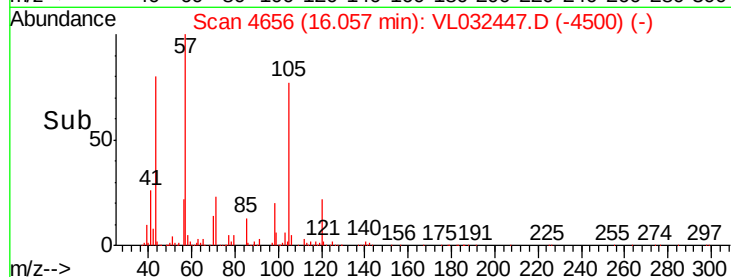
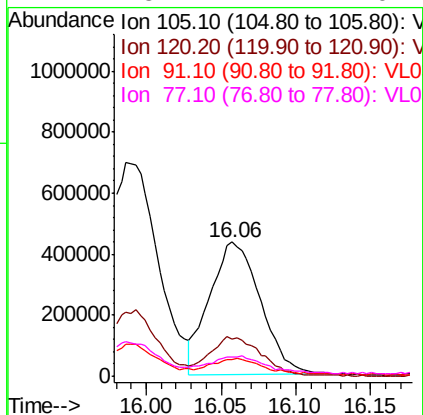
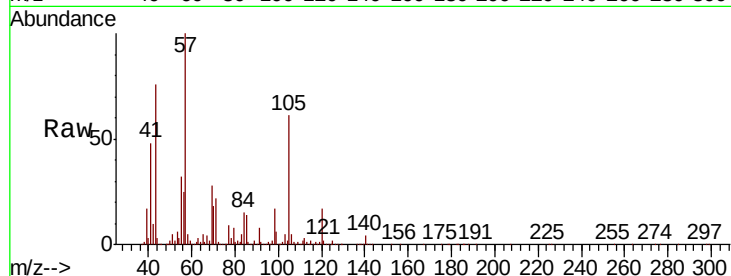
ClientSampled :

VP-04

Tgt Ion:	105	Resp:	1034739
Ion Ratio	Lower	Upper	
105	100		
120	31.1	23.5	35.3
91	13.9	10.2	15.2
77	15.1	11.1	16.7

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#73

1,3,5-Trimethylbenzene

Concen: 1.407 ppbv

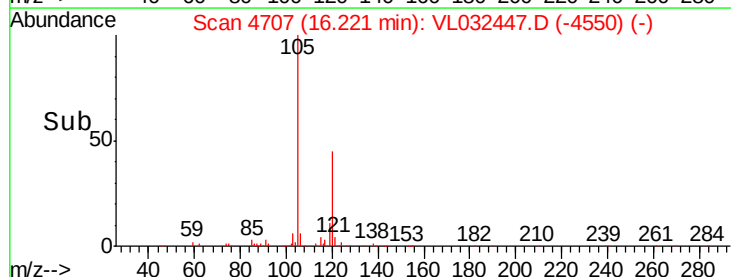
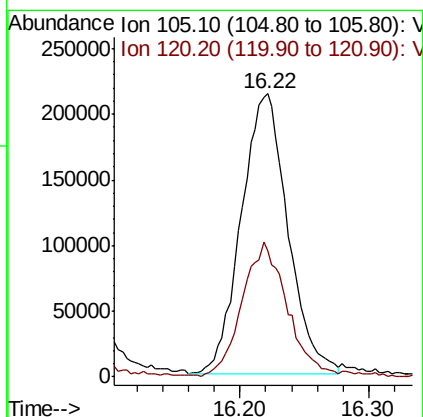
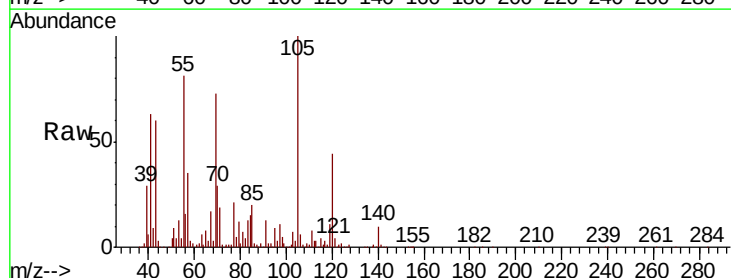
RT: 16.22 min Scan# 4707

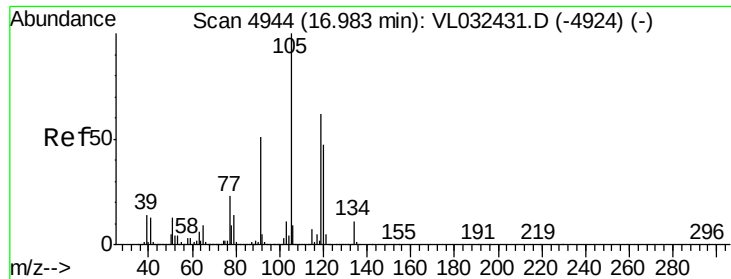
Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Tgt Ion:	105	Resp:	538891
Ion Ratio	Lower	Upper	
105	100		
120	44.2	37.9	56.9





#74
 1,2,4-Trimethylbenzene
 Concen: 4.815 ppbv
 RT: 16.99 min Scan# 4947
 Delta R.T. 0.01 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	2016219		
120	44.2		37.8	56.8
91	10.8		41.4	62.0#
77	13.9		18.6	28.0#

Manual Integrations
 APPROVED

apatel
 9/4/2018 8:26:48 AM

