

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032473.D
 Acq On : 6 Sep 2018 2:32
 Operator : SY/AP
 Sample : J4745-01 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6

Manual Integrations
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MMDadoda
 9/7/2018 10:46:08 AM

Quant Time: Sep 07 08:53:14 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

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	1543141	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3136115	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3264709	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2545816	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	25099	0.13	ppbv	88
3) Chlorodifluoromethane	3.04	51	17646	0.13	ppbv	94
4) Chloromethane	3.20	50	11389	0.13	ppbv	94
9) Propene	3.06	41	2117114m	37.57	ppbv	
10) Heptane	8.30	43	1070361	5.29	ppbv	98
11) Trichlorofluoromethane	4.04	101	43852	0.25	ppbv #	82
13) Ethanol	3.69	45	1048860	59.72	ppbv	98
15) Acetone	3.93	43	2695792	19.40	ppbv #	47
17) tert-Butyl alcohol	4.40	59	1437228	67.21	ppbv #	100
20) Methylene Chloride	4.45	84	85487	1.61	ppbv #	92
26) Hexane	5.82	57	1697558	11.55	ppbv #	45
27) Carbon Disulfide	4.66	76	98009	0.72	ppbv #	90
30) Cyclohexane	7.29	84	87082	0.81	ppbv #	53
34) 2-Butanone	5.37	43	2191926	10.52	ppbv	100
36) Benzene	7.05	78	663118	2.48	ppbv	97
38) Trichloroethene	8.01	130	4842m	0.05	ppbv	
41) Tetrahydrofuran	6.19	42	194929	1.72	ppbv	98
44) 2,2,4-Trimethylpentane	8.04	57	489173	0.95	ppbv #	74
50) 4-Methyl-2-Pentanone	8.93	43	962899	3.07	ppbv	98
51) 2-Hexanone	10.34	43	1657120	8.20	ppbv #	91
52) Tetrachloroethene	11.43	164	120731	1.46	ppbv	96
53) Toluene	10.00	91	1641890	5.89	ppbv	99
58) Ethyl Benzene	12.93	91	429926	1.10	ppbv	95
59) m/p-Xylene	13.19	91	975767	2.80	ppbv	99
60) o-Xylene	13.92	91	402002	1.17	ppbv	97
62) Isopropylbenzene	14.89	105	73049	0.15	ppbv	100
67) sec-Butylbenzene	17.53	105	106964	0.17	ppbv	100
69) p-Isopropyltoluene	17.87	119	343654	0.71	ppbv	96
73) 1,3,5-Trimethylbenzene	16.22	105	234279	0.63	ppbv	91
74) 1,2,4-Trimethylbenzene	16.99	105	713867	1.74	ppbv #	71
79) Naphthalene	22.48	128	64456m	0.19	ppbv	

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

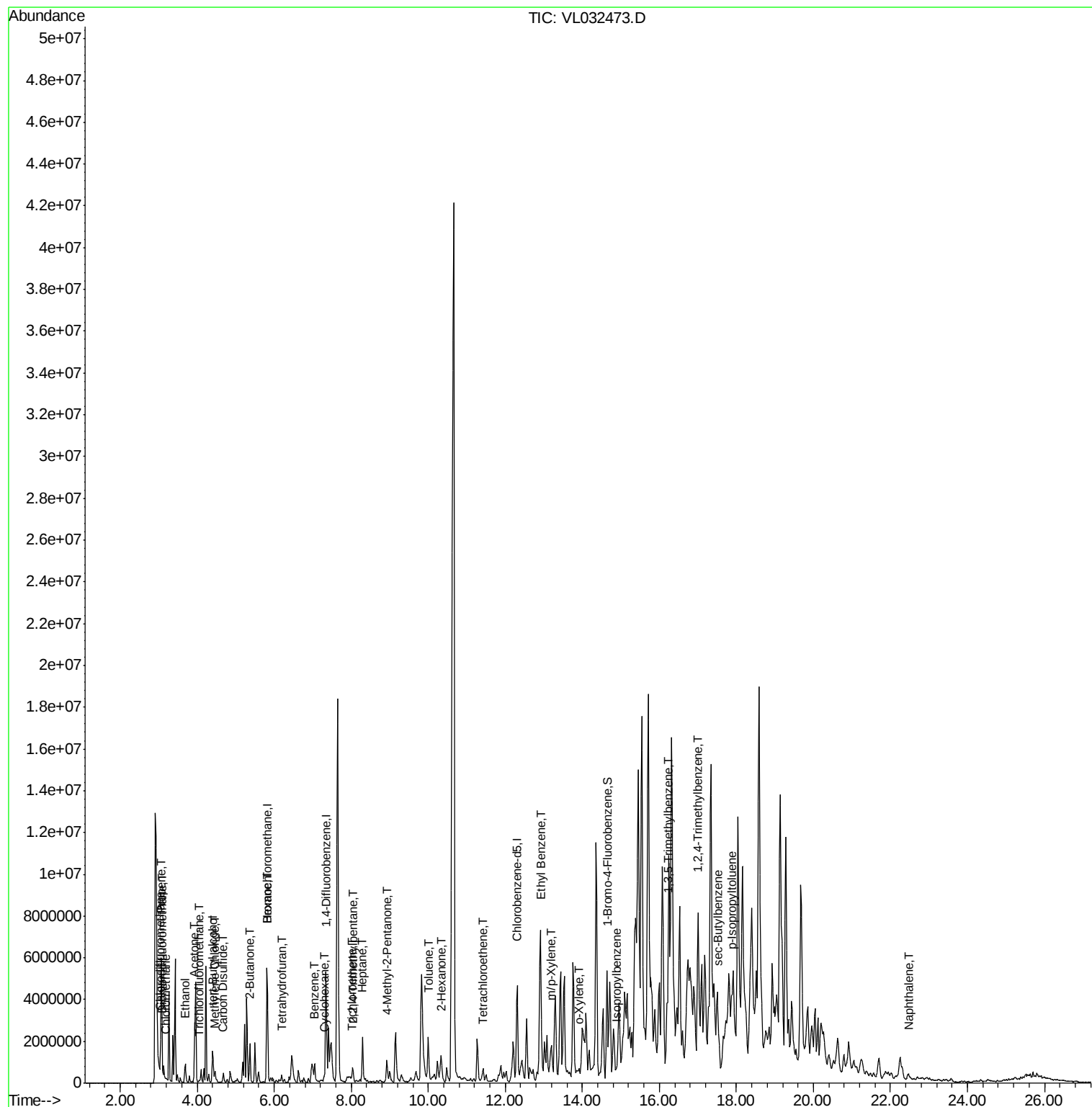
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032473.D
Acq On : 6 Sep 2018 2:32
Operator : SY/AP
Sample : J4745-01 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

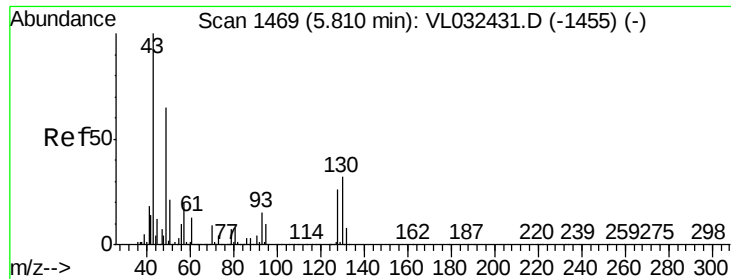
Instrument :
MSVOA_L
ClientSampleId :
VP-6

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9/7/2018 10:46:08 AM

Quant Time: Sep 07 08:53:14 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: 10.00 ppbv

RT: 5.81 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

ClientSampled :

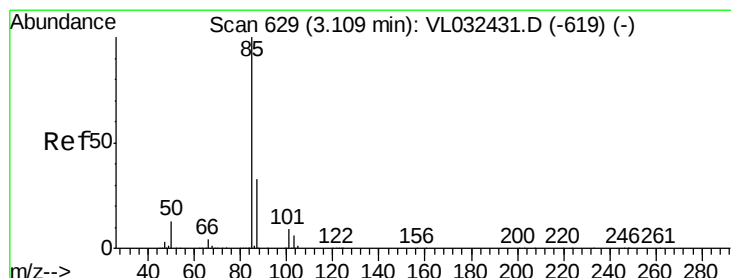
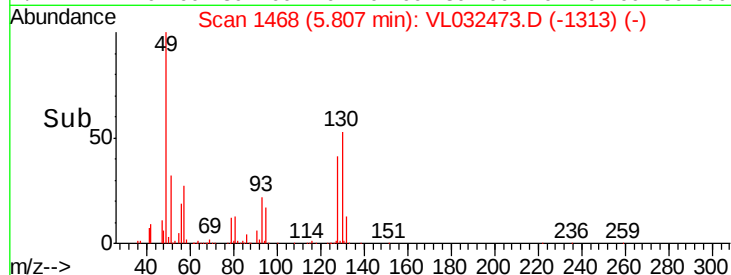
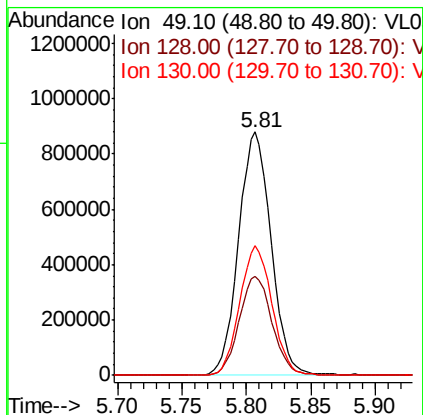
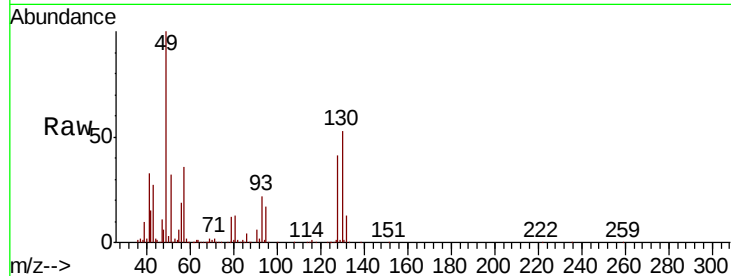
VP-6

Tot Ion: 49 Resp: 1543141

Ion	Ratio	Lower	Upper
49	100		
128	41.3	20.7	62.1
130	53.1	26.6	79.7

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#2

Dichlorodifluoromethane

Concen: 0.13 ppbv

RT: 3.10 min Scan# 627

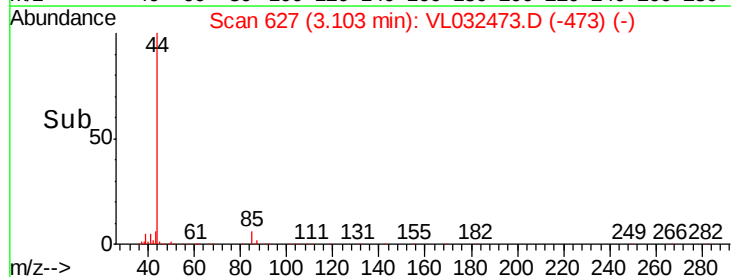
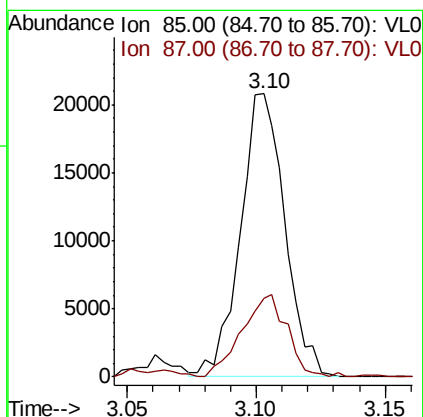
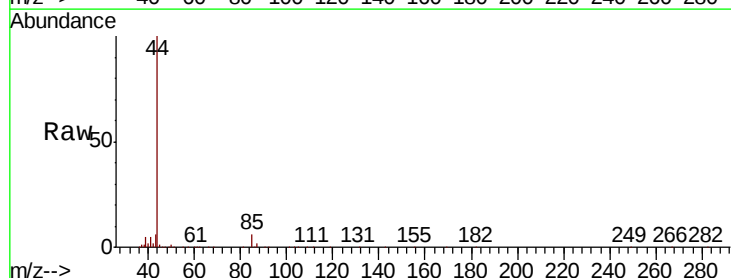
Delta R.T. -0.01 min

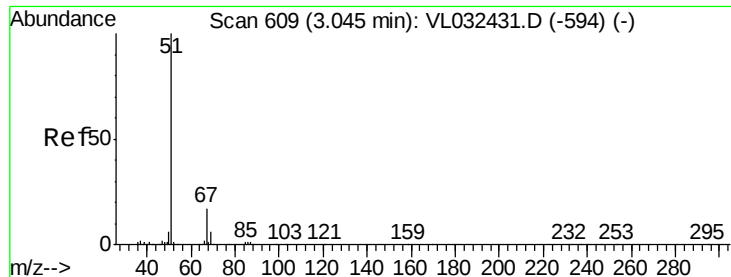
Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Tgt Ion: 85 Resp: 25099

Ion	Ratio	Lower	Upper
85	100		
87	26.3	26.2	39.4





#3

Chlorodifluoromethane

Concen: 0.13 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.01 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

ClientSampleId :

VP-6

Tot Ion: 51 Resp: 17646

Ion Ratio Lower Upper

51 100

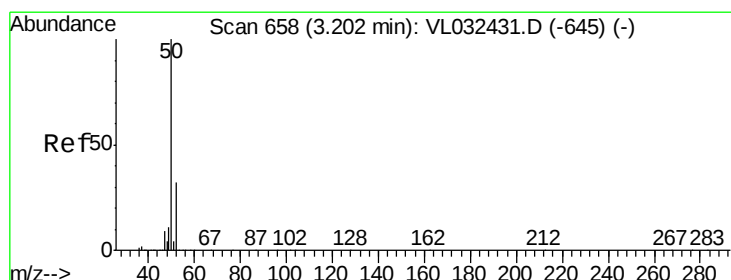
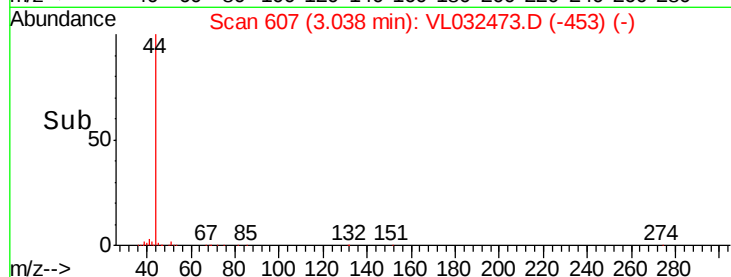
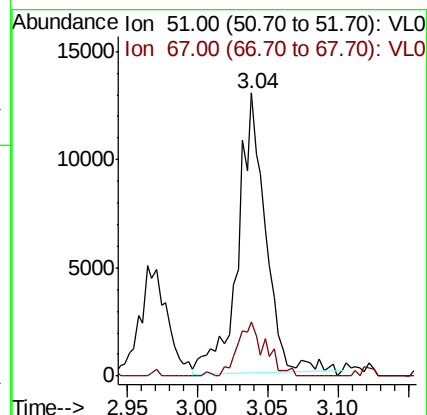
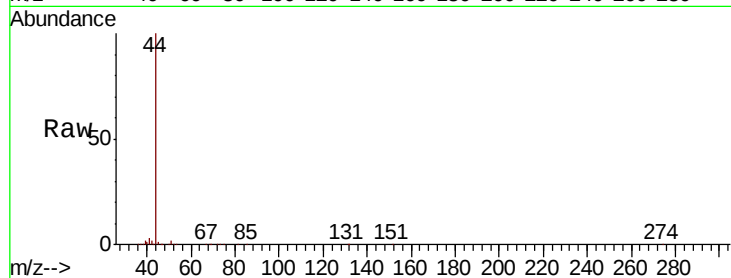
67 19.9 13.8 20.8

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#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.20 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL032473.D

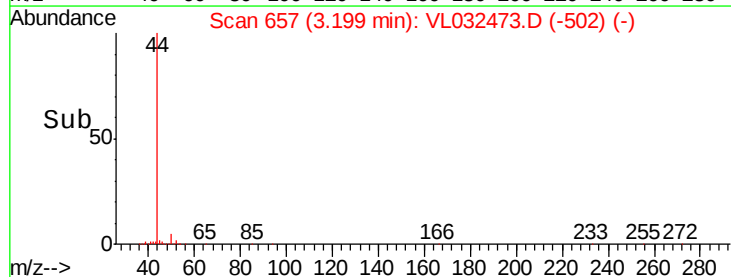
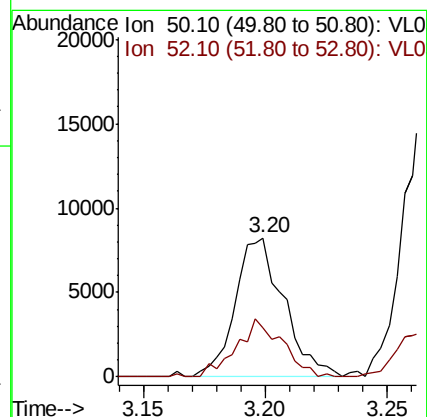
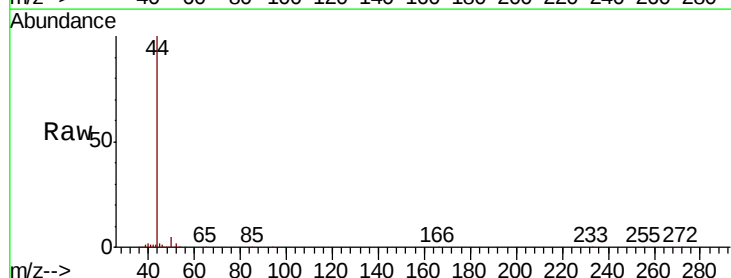
Acq: 6 Sep 2018 2:32

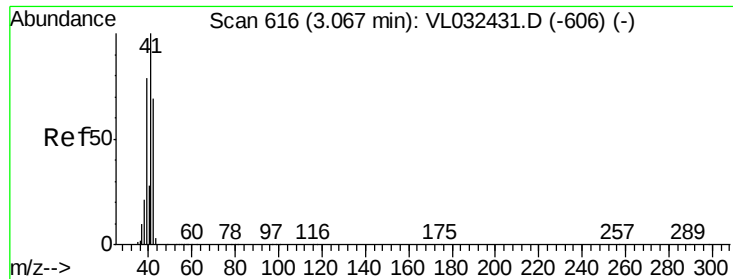
Tgt Ion: 50 Resp: 11389

Ion Ratio Lower Upper

50 100

52 35.4 25.6 38.4





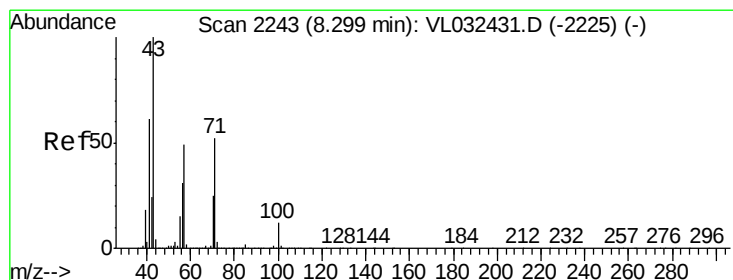
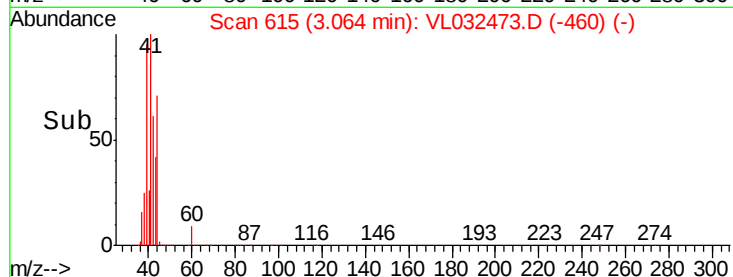
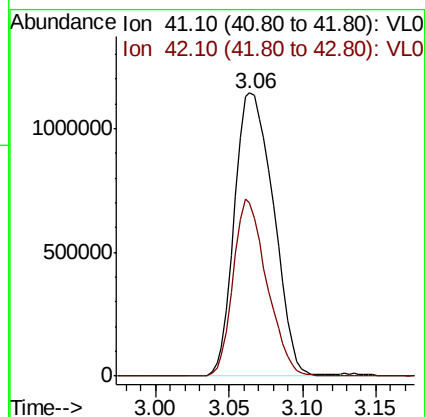
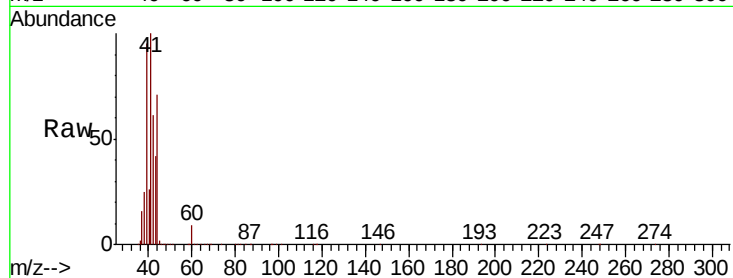
#9
 Propene
 Concen: 37.57 ppbv m
 RT: 3.06 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: VL032473.D
 Acq: 6 Sep 2018 2:32

Instrument :
 MSVOA_L
 ClientSampled :
 VP-6

Tot Ion: 41 Resp: 2117114
 Ion Ratio Lower Upper
 41 100
 42 37.7 56.6 84.8#

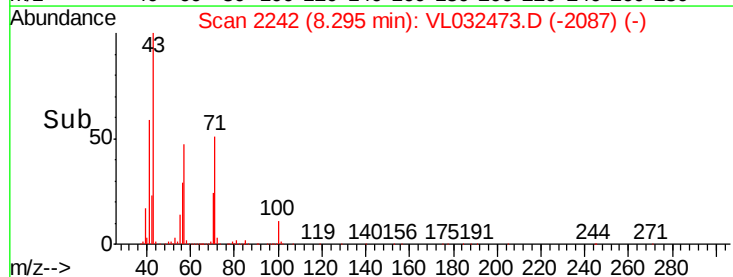
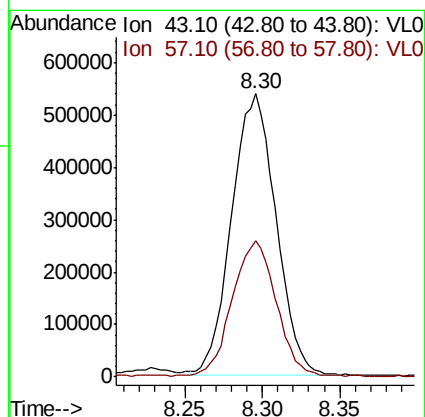
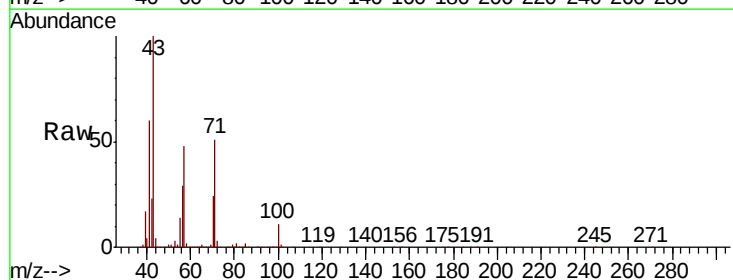
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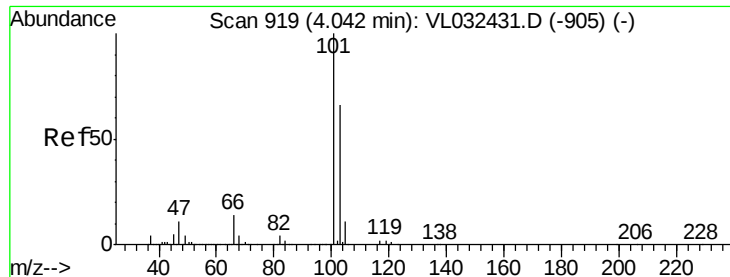
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#10
 Heptane
 Concen: 5.29 ppbv
 RT: 8.30 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: VL032473.D
 Acq: 6 Sep 2018 2:32

Tgt Ion: 43 Resp: 1070361
 Ion Ratio Lower Upper
 43 100
 57 48.1 39.6 59.4





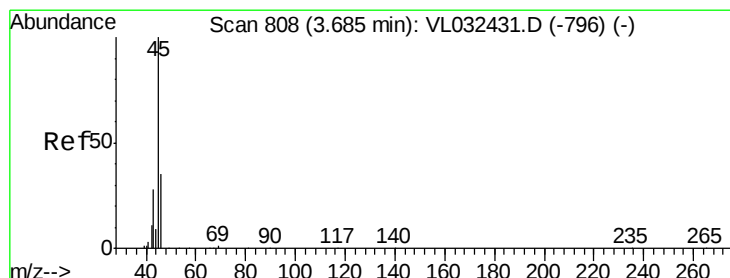
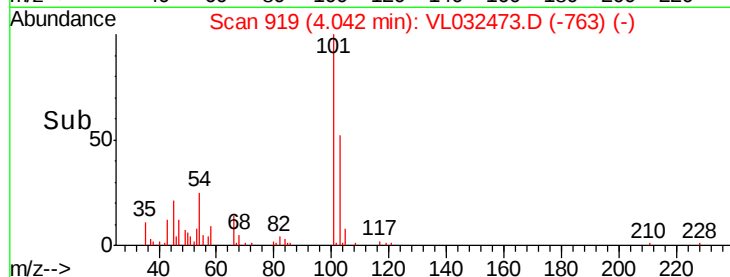
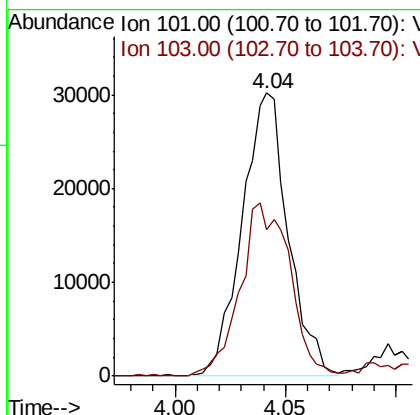
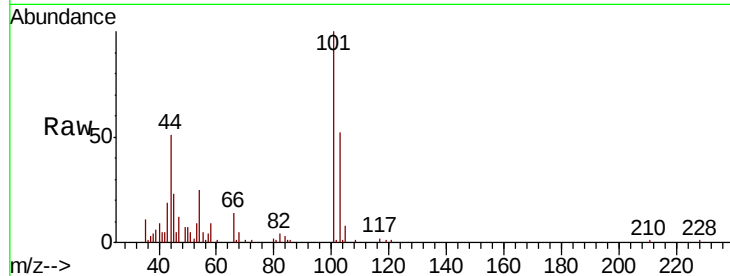
#11
 Trichlorofluoromethane
 Concen: 0.25 ppbv
 RT: 4.04 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VL032473.D
 Acq: 6 Sep 2018 2:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6

Tot Ion:101 Resp: 43852
 Ion Ratio Lower Upper
 101 100
 103 51.6 52.8 79.2#

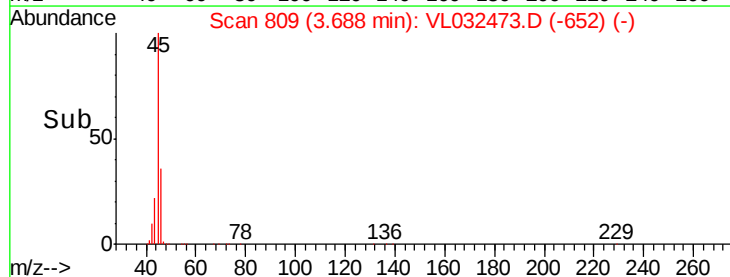
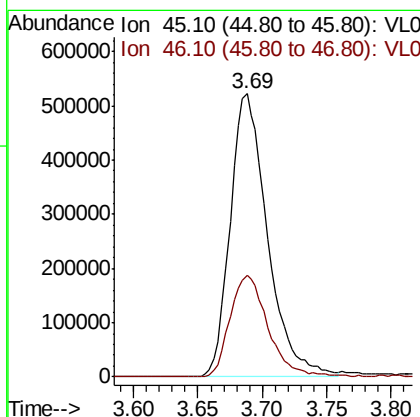
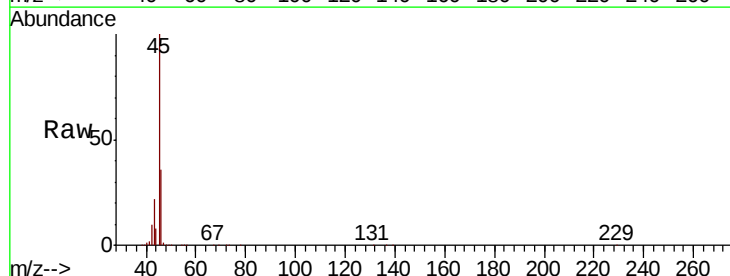
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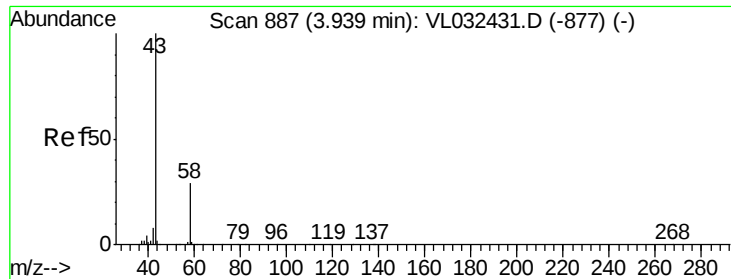
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#13
 Ethanol
 Concen: 59.72 ppbv
 RT: 3.69 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: VL032473.D
 Acq: 6 Sep 2018 2:32

Tgt Ion: 45 Resp: 1048860
 Ion Ratio Lower Upper
 45 100
 46 36.7 14.2 56.8





#15

Acetone

Concen: 19.40 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

ClientSampleId :

VP-6

Tot Ion: 43 Resp: 2695792

Ion Ratio Lower Upper

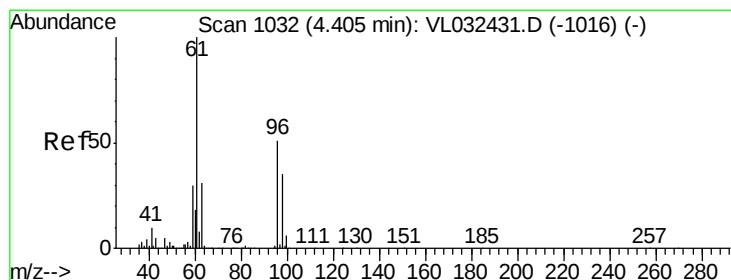
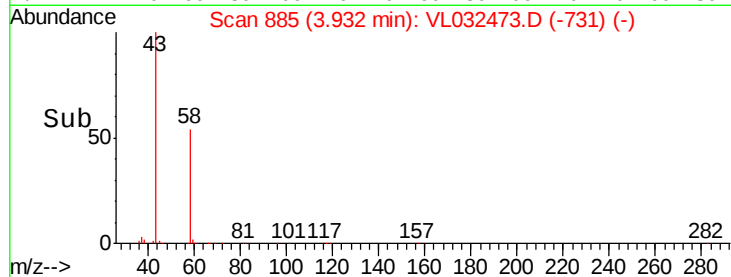
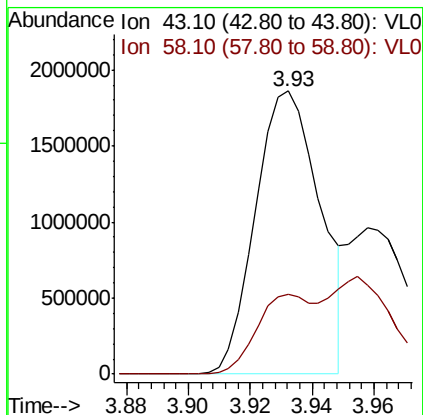
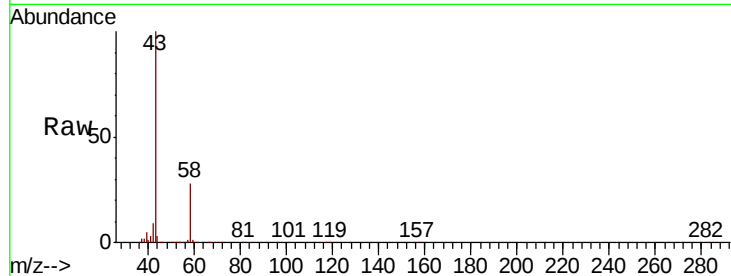
43 100

58 0.0 22.6 33.8#

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#17

tert-Butyl alcohol

Concen: 67.21 ppbv

RT: 4.40 min Scan# 1032

Delta R.T. 0.00 min

Lab File: VL032473.D

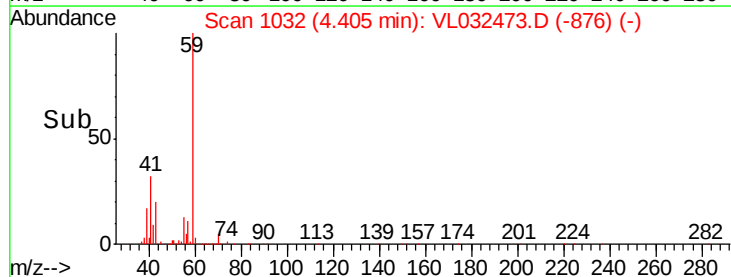
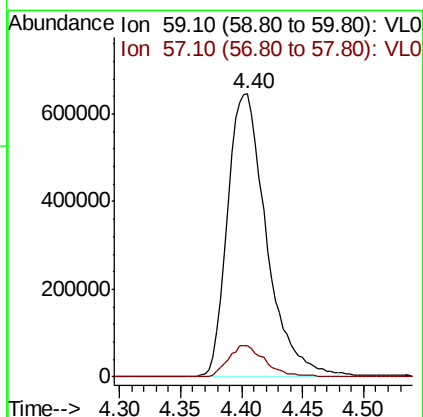
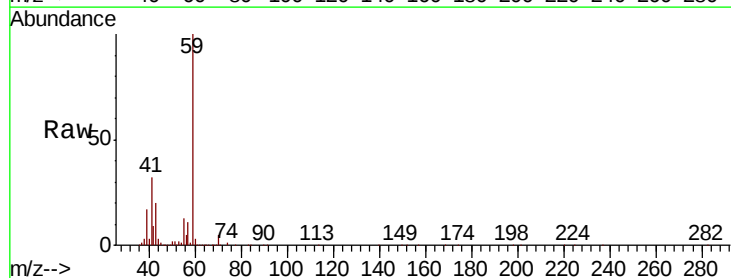
Acq: 6 Sep 2018 2:32

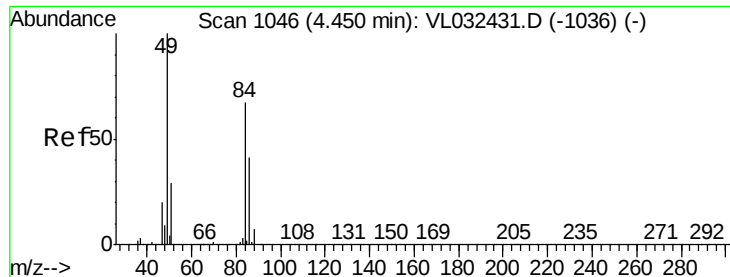
Tgt Ion: 59 Resp: 1437228

Ion Ratio Lower Upper

59 100

57 10.9 0.0 0.0#





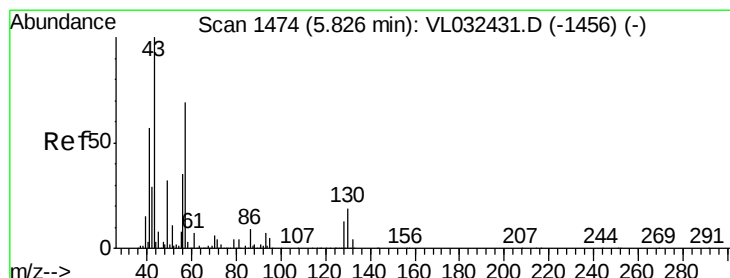
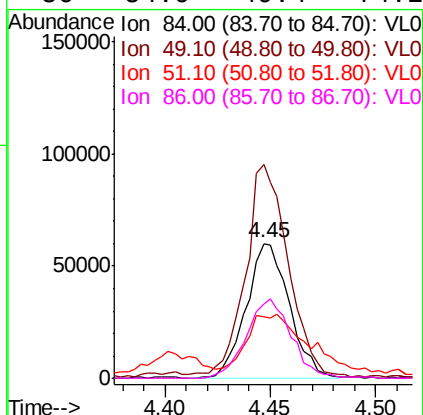
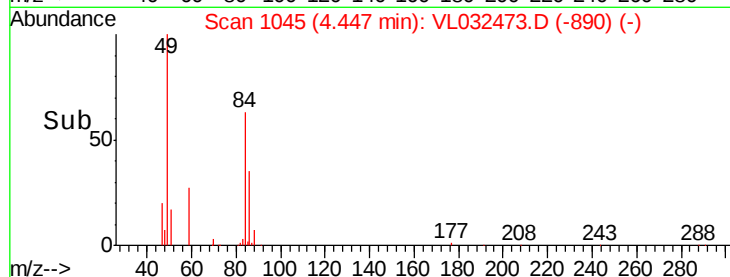
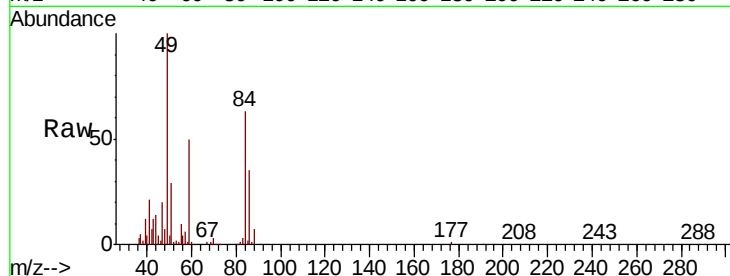
#20
Methvlene Chloride
Concen: 1.61 ppbv
RT: 4.45 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion	84	Resp	85487
Ion	Ratio	Lower	Upper
84	100		
49	156.4	119.1	178.7
51	34.1	35.2	52.8#
86	54.9	49.4	74.2

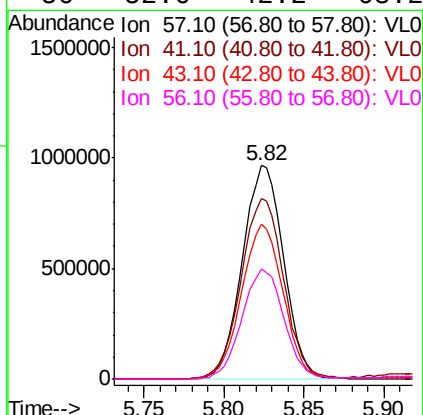
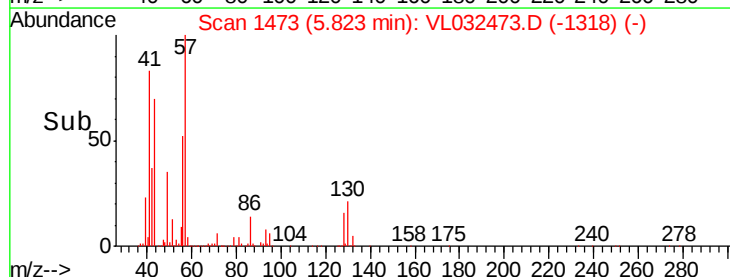
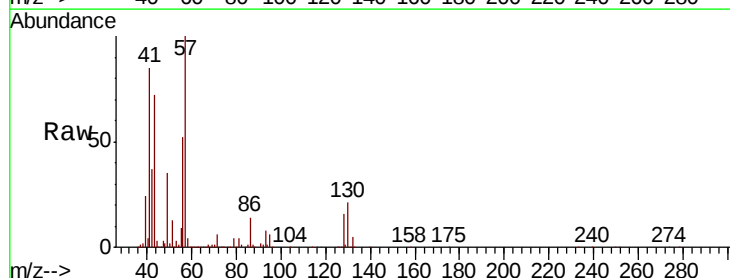
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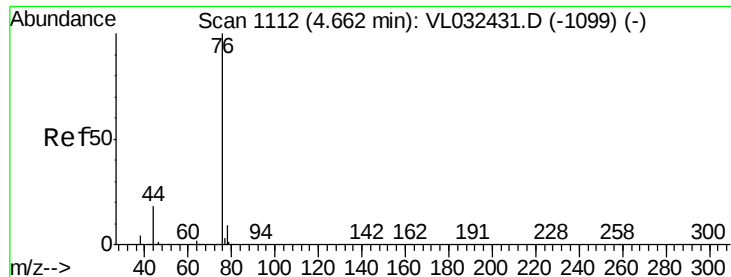
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#26
Hexane
Concen: 11.55 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Tgt Ion	57	Resp	1697558
Ion	Ratio	Lower	Upper
57	100		
41	88.0	69.0	103.4
43	72.6	172.1	258.1#
56	52.6	42.2	63.2





#27

Carbon Disulfide

Concen: 0.72 ppbv

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

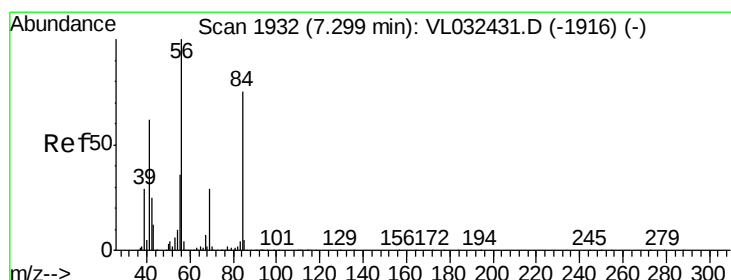
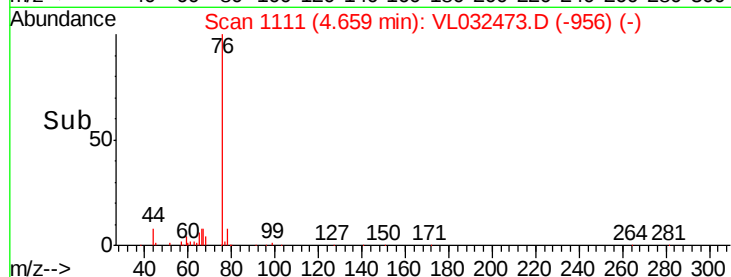
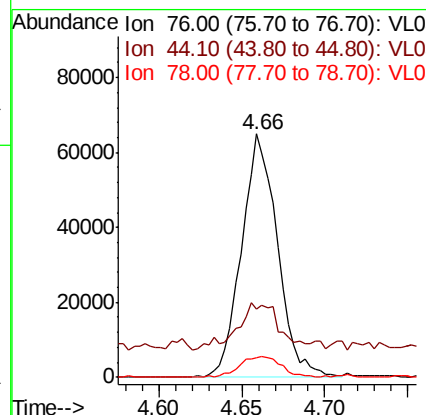
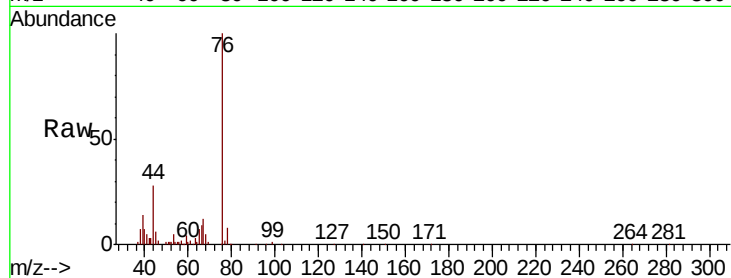
ClientSampled :

VP-6

Tot Ion:	76	Resp:	98009
Ion Ratio	Lower	Upper	
76	100		
44	23.3	14.0	21.0#
78	10.5	7.5	11.3

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#30

Cyclohexane

Concen: 0.81 ppbv

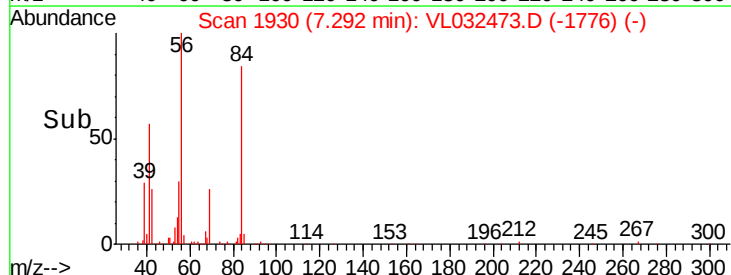
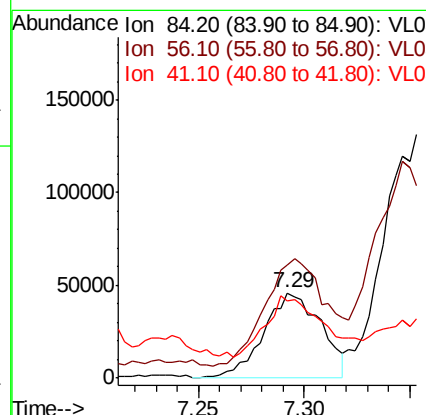
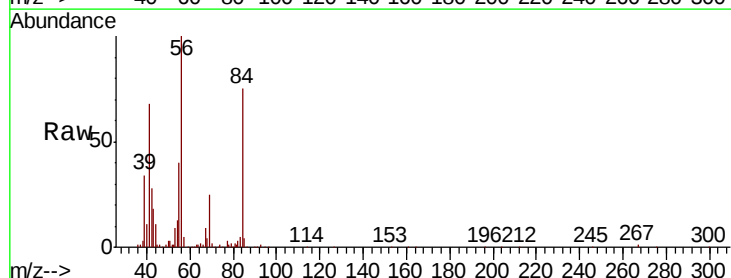
RT: 7.29 min Scan# 1930

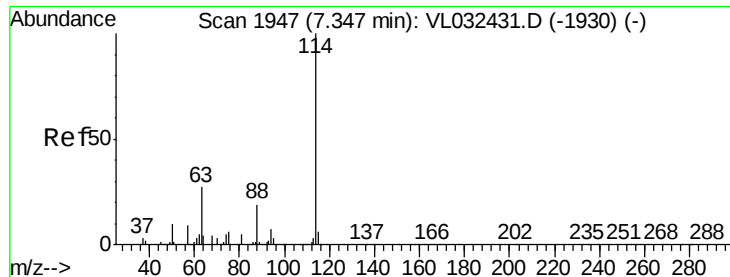
Delta R.T. -0.01 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Tgt Ion:	84	Resp:	87082
Ion Ratio	Lower	Upper	
84	100		
56	119.0	113.5	170.3
41	0.0	68.1	102.1#





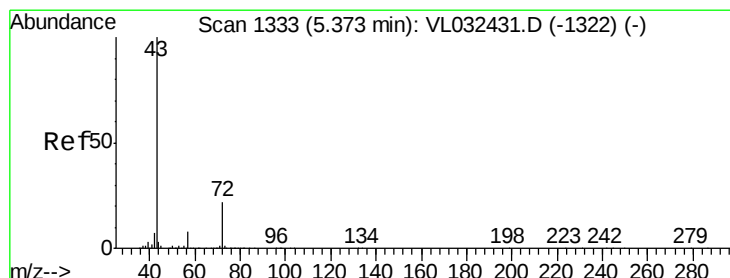
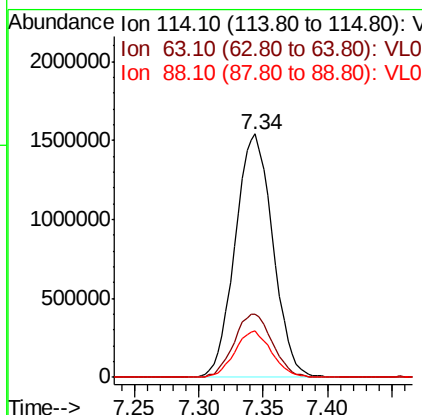
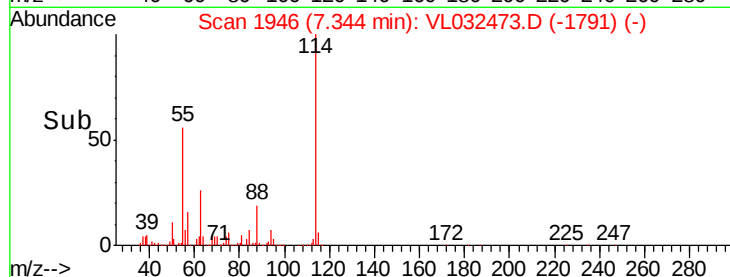
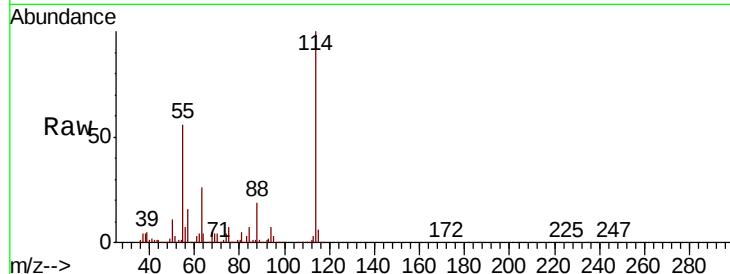
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VL032473.D
 Acq: 6 Sep 2018 2:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	22.2	33.4
88	18.5	15.0	22.4

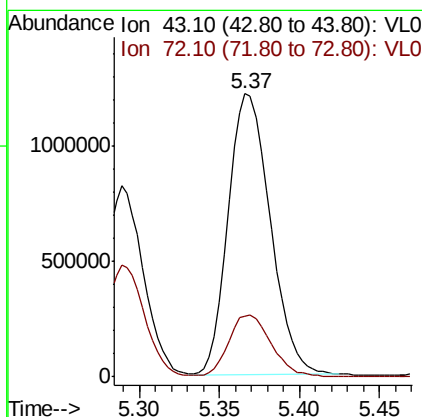
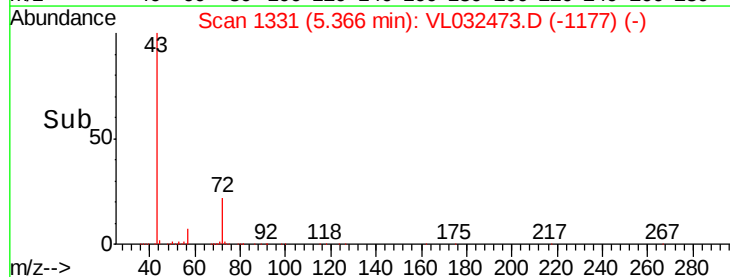
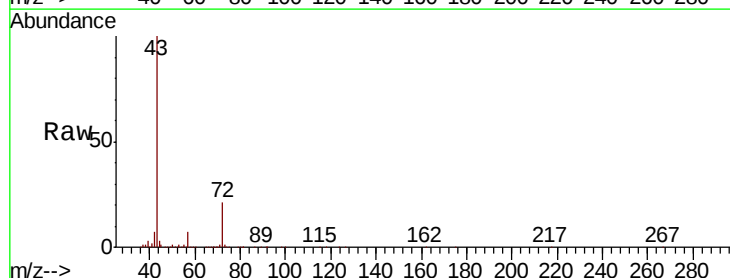
Manual Integrations
 APPROVED

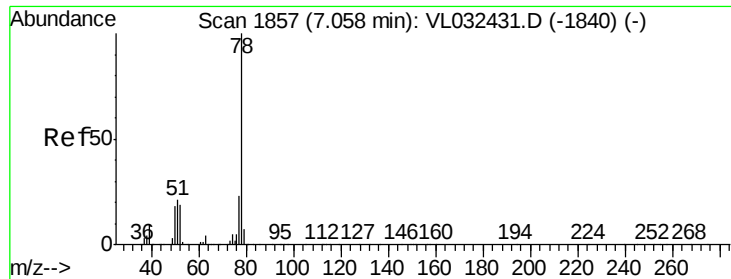
MMDadoda
 9/7/2018 10:46:08 AM



#34
 2-Butanone
 Concen: 10.52 ppbv
 RT: 5.37 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VL032473.D
 Acq: 6 Sep 2018 2:32

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.8	26.6





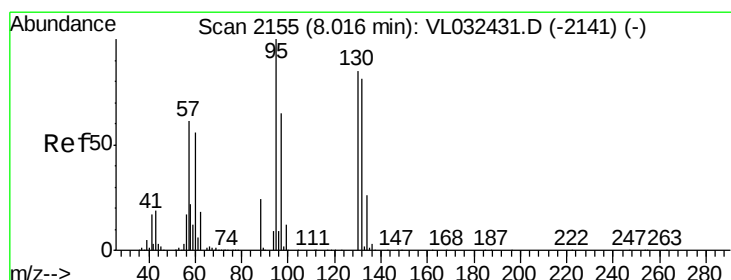
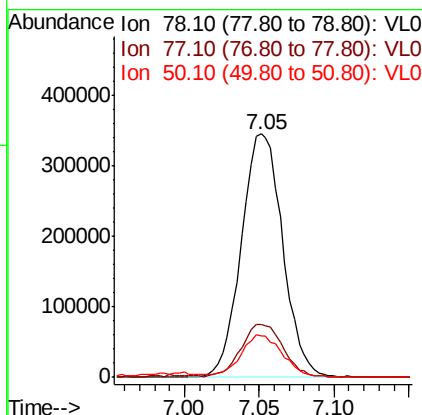
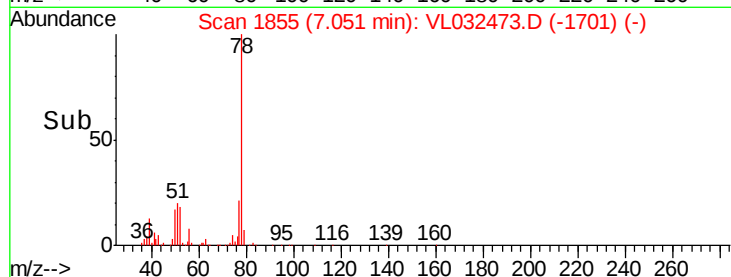
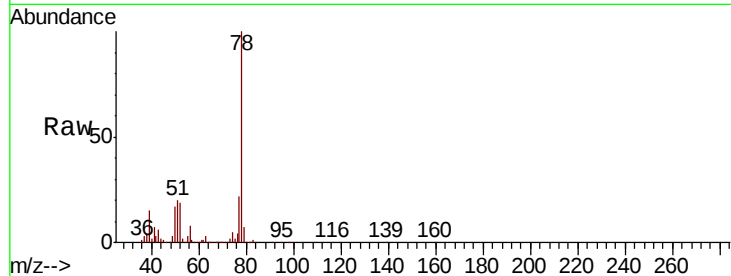
#36
Benzene
Concen: 2.48 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Instrument :
MSVOA_L
ClientSampleId :
VP-6

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.6	18.4	27.6
50	16.7	14.4	21.6

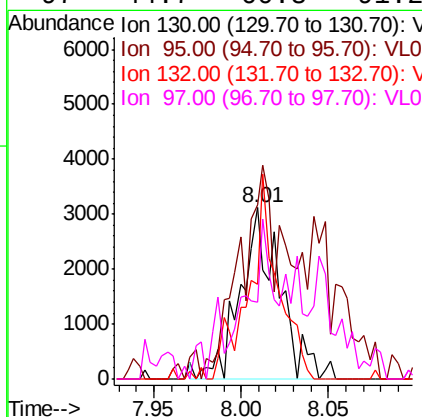
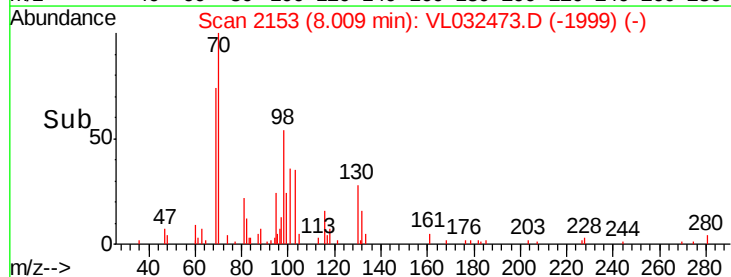
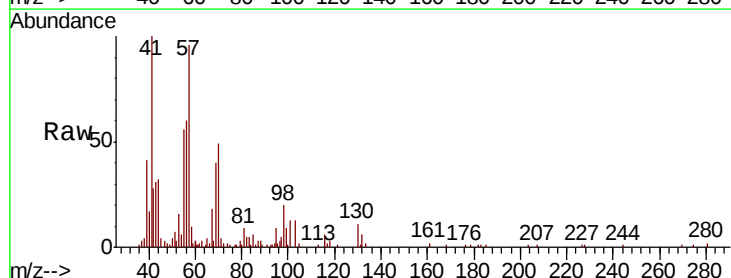
Manual Integrations
APPROVED

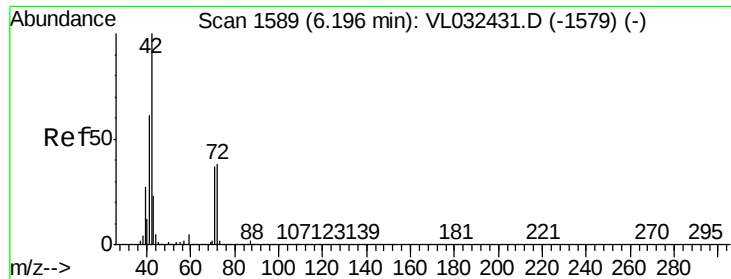
MMDadoda
9/7/2018 10:46:08 AM



#38
Trichloroethene
Concen: 0.05 ppbv m
RT: 8.01 min Scan# 2153
Delta R.T. -0.01 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	84.4	94.2	141.4#
132	55.3	76.2	114.4#
97	44.7	60.8	91.2#





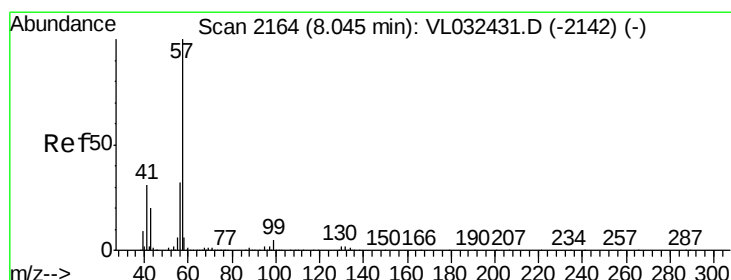
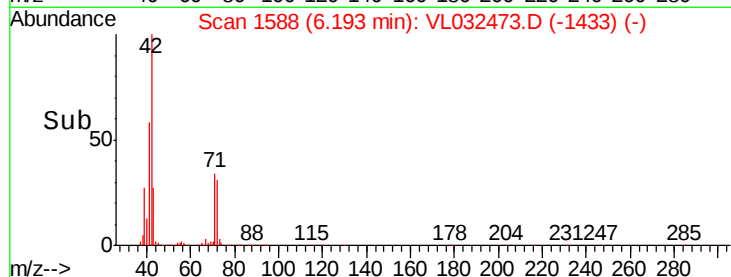
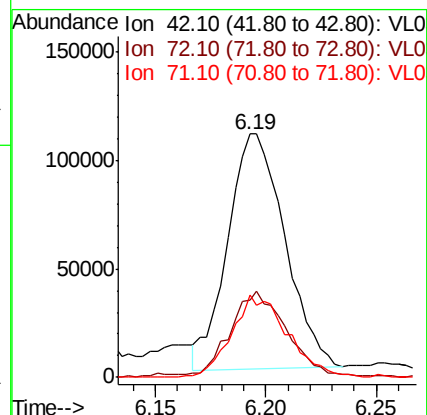
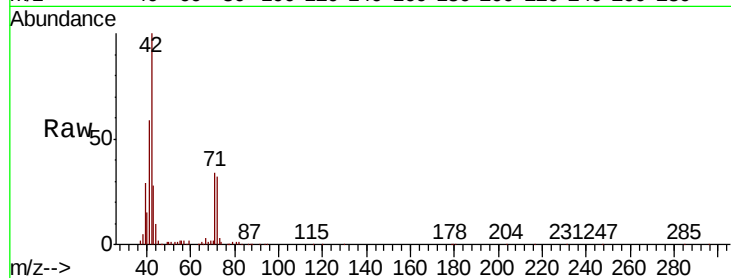
#41
Tetrahydrofuran
Concen: 1.72 ppbv
RT: 6.19 min Scan# 1588
Delta R.T. -0.00 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Instrument :
MSVOA_L
ClientSampleId :
VP-6

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	29.5	44.3
71	34.4	28.3	42.5

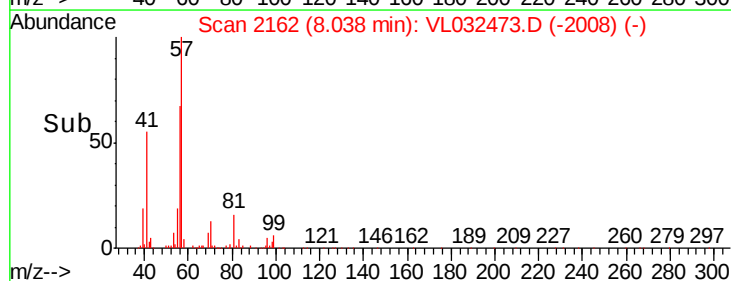
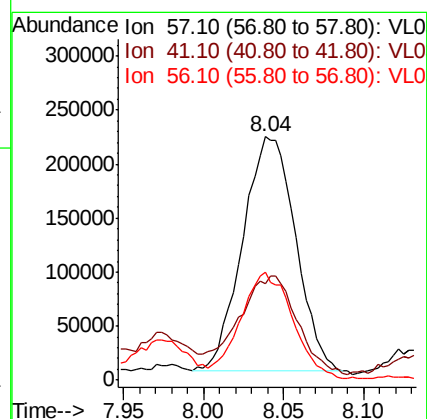
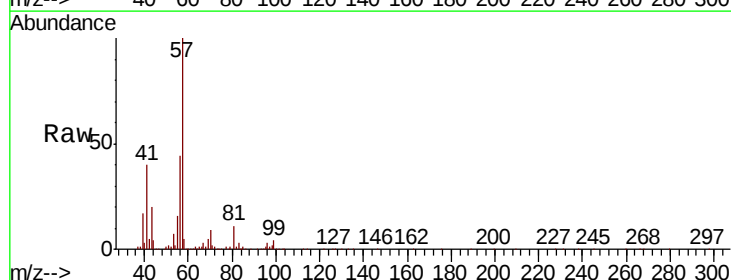
Manual Integrations
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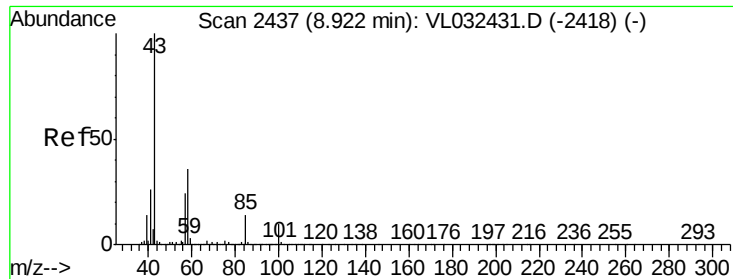
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.95 ppbv
RT: 8.04 min Scan# 2162
Delta R.T. -0.01 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	46.5	24.4	36.6#
56	44.7	25.7	38.5#





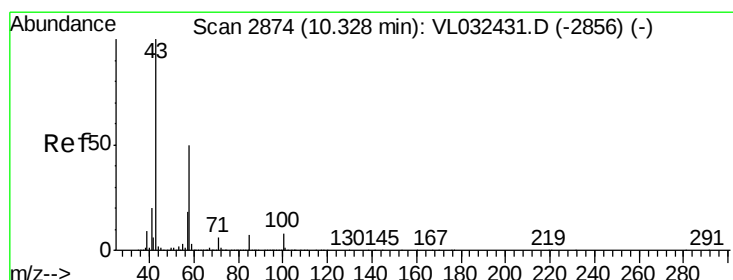
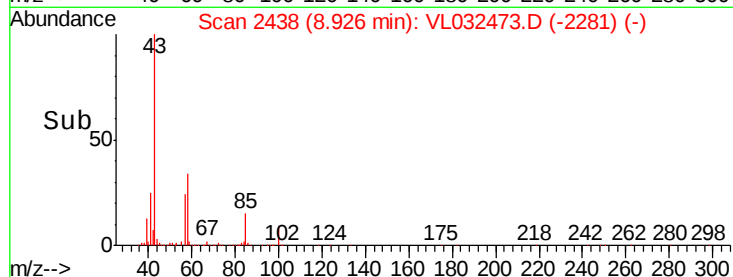
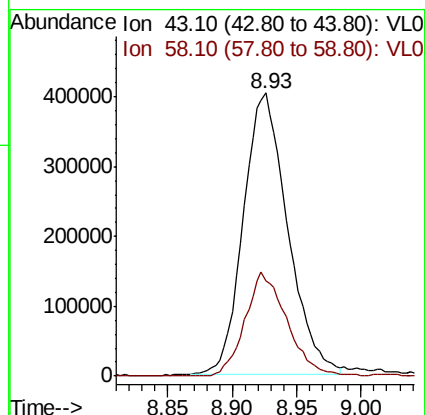
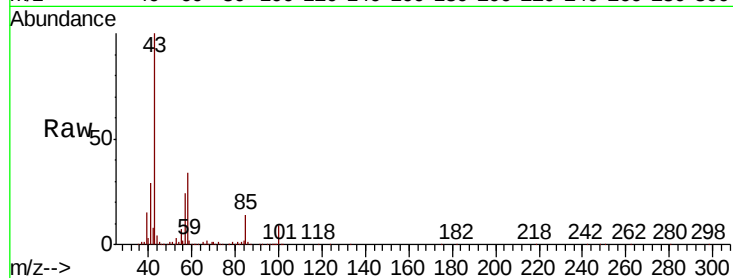
#50
4-Methyl-2-Pentanone
Concen: 3.07 ppbv
RT: 8.93 min Scan# 2438
Delta R.T. 0.00 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.1	29.0	43.4

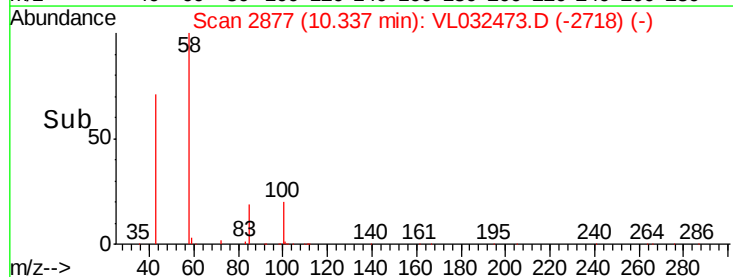
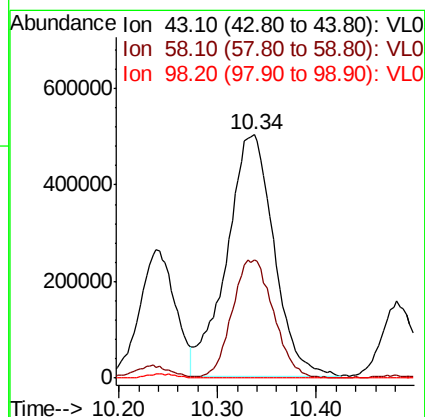
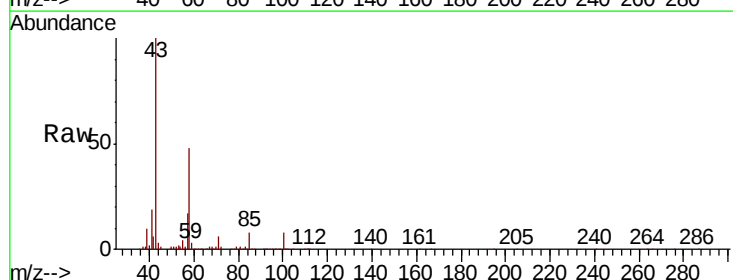
Manual Integrations
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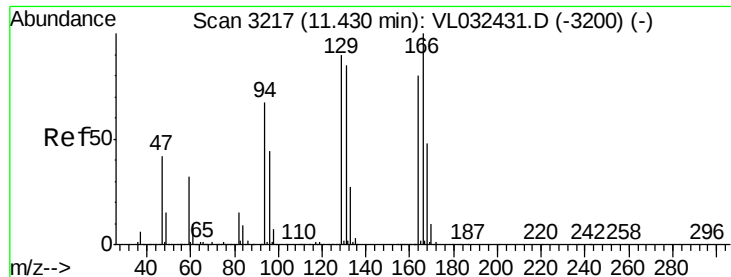
MMDadoda
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#51
2-Hexanone
Concen: 8.20 ppbv
RT: 10.34 min Scan# 2877
Delta R.T. 0.01 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.7	39.2	58.8
98	0.1	0.4	0.6#





#52

Tetrachloroethene

Concen: 1.46 ppbv

RT: 11.43 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

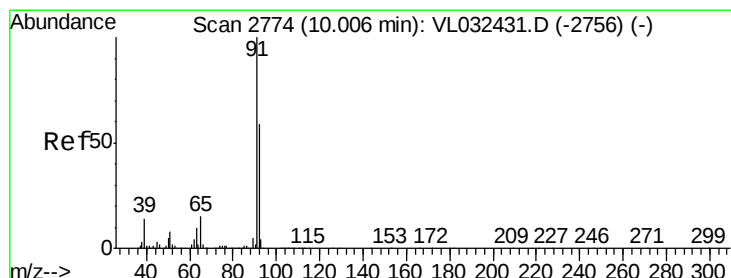
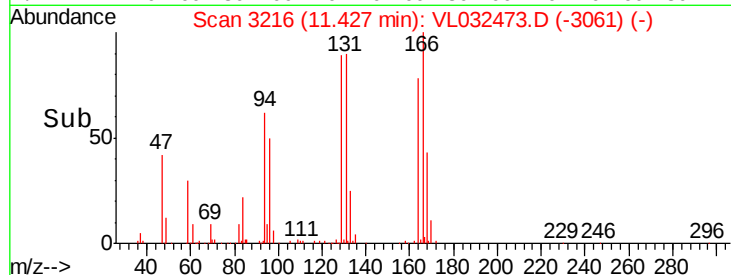
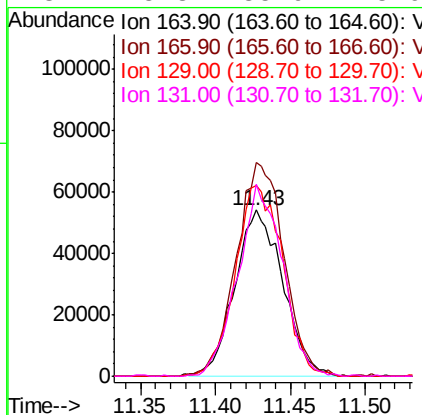
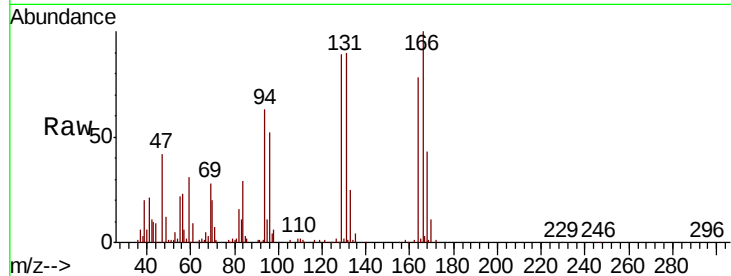
ClientSampleId :

VP-6

Tot Ion:	164	Resp:	120731
Ion	Ratio	Lower	Upper
164	100		
166	128.4	100.6	150.8
129	114.8	89.9	134.9
131	115.3	85.9	128.9

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#53

Toluene

Concen: 5.89 ppbv

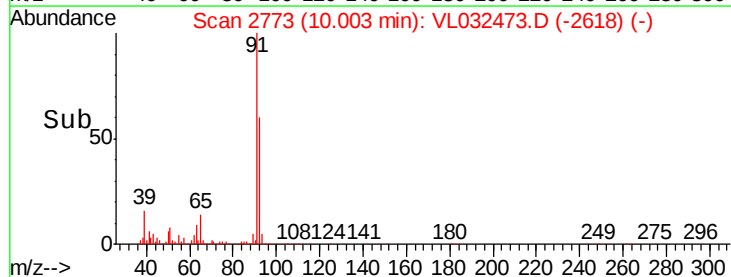
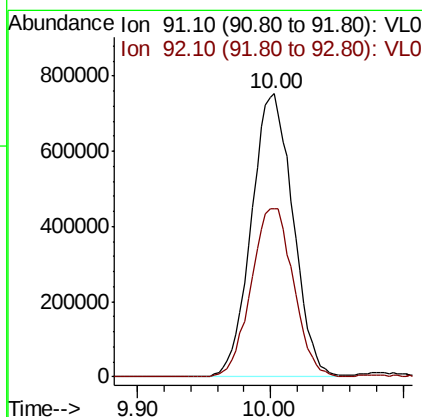
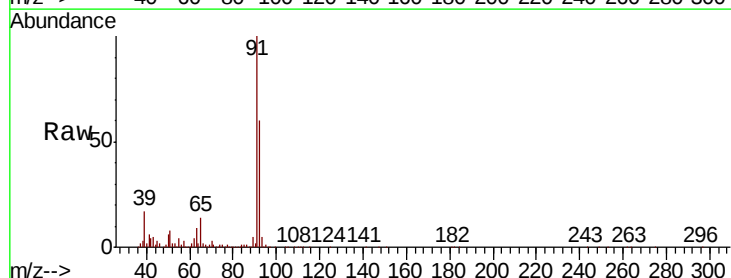
RT: 10.00 min Scan# 2773

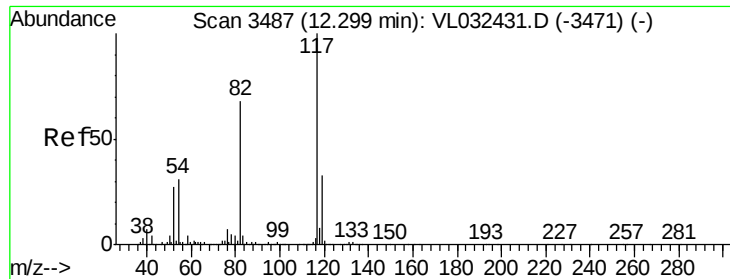
Delta R.T. -0.00 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Tgt Ion:	91	Resp:	1641890
Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.1	72.1





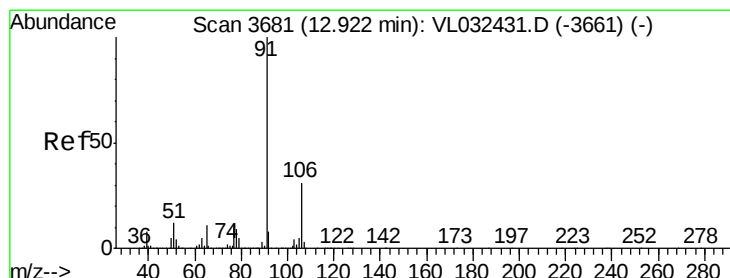
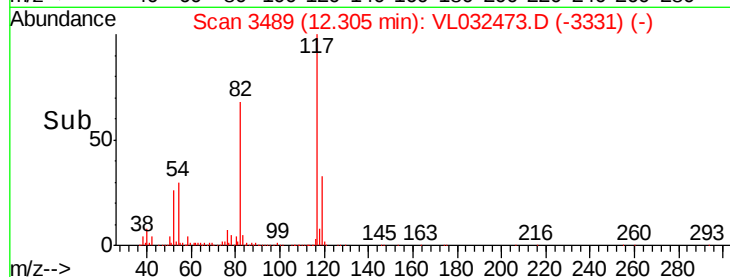
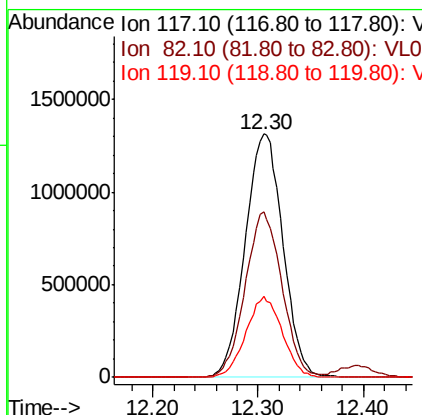
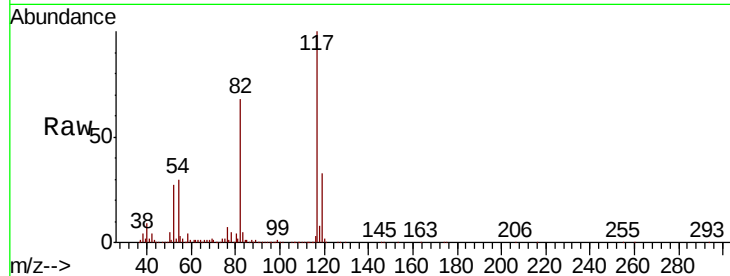
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.30 min Scan# 3489
Delta R.T. 0.01 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Instrument :
MSVOA_L
ClientSampleId :
VP-6

Tot Ion:117 Resp: 3264709
Ion Ratio Lower Upper
117 100
82 66.4 53.0 79.6
119 32.1 45.9 68.9#

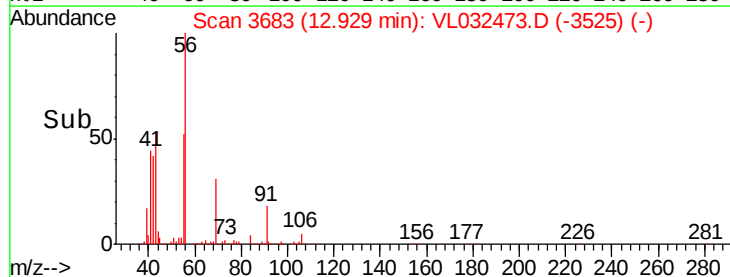
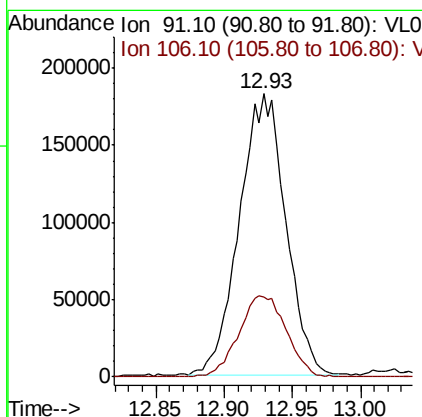
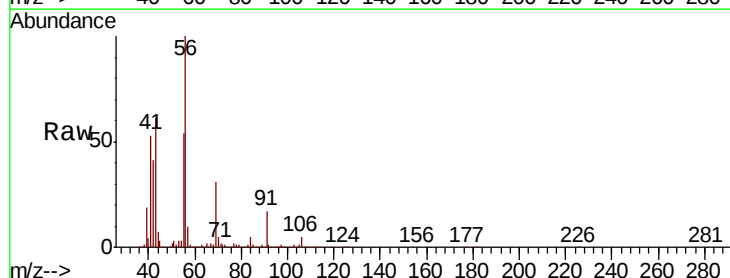
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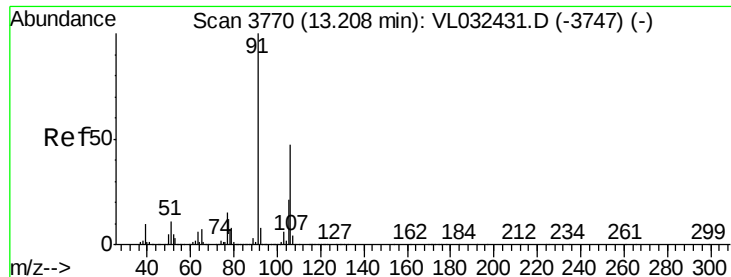
MMDadoda
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#58
Ethyl Benzene
Concen: 1.10 ppbv
RT: 12.93 min Scan# 3683
Delta R.T. 0.01 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Tgt Ion: 91 Resp: 429926
Ion Ratio Lower Upper
91 100
106 28.2 24.8 37.2





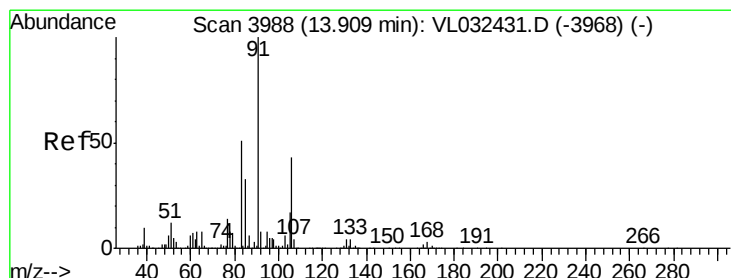
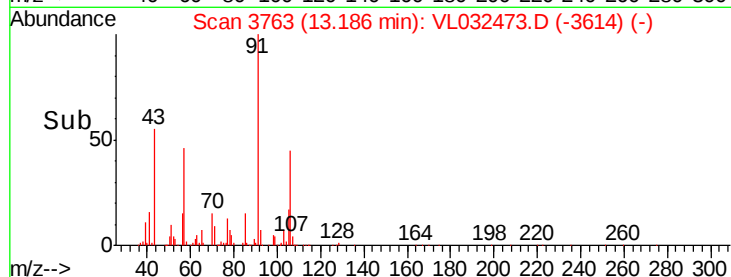
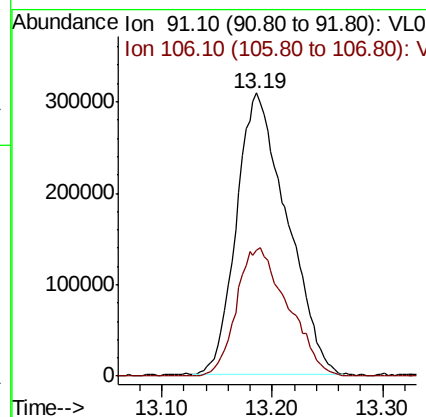
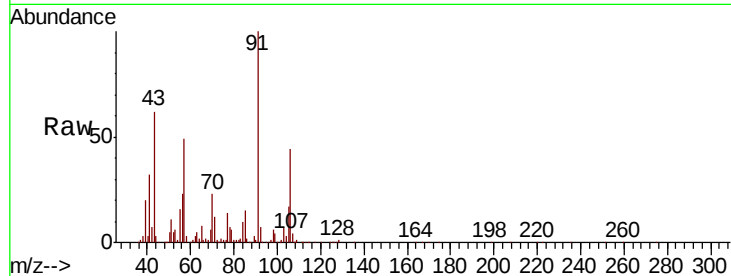
#59
m/p-Xylene
Concen: 2.80 ppbv
RT: 13.19 min Scan# 3763
Delta R.T. -0.02 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion: 91 Resp: 975767
Ion Ratio Lower Upper
91 100
106 46.7 36.6 55.0

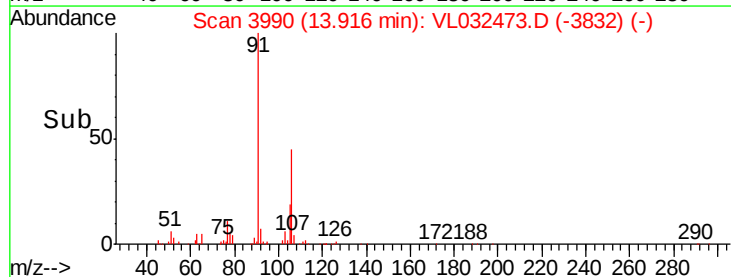
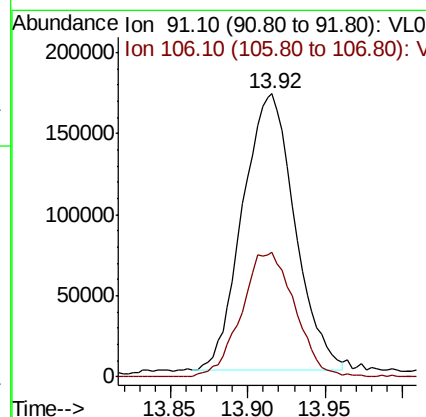
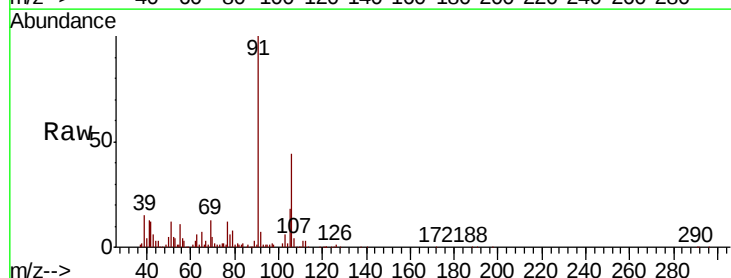
Manual Integrations
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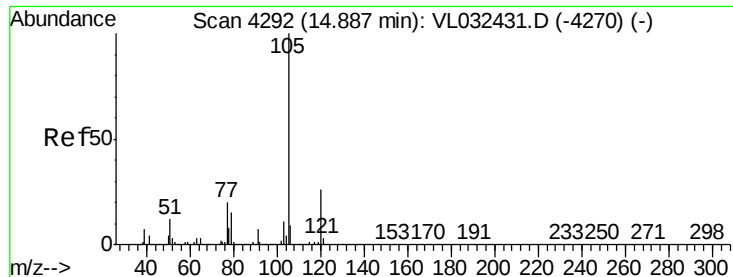
MMDadoda
9/7/2018 10:46:08 AM



#60
o-Xylene
Concen: 1.17 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. 0.01 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Tgt Ion: 91 Resp: 402002
Ion Ratio Lower Upper
91 100
106 45.9 21.9 65.7





#62

Isopropylbenzene

Concen: 0.15 ppbv

RT: 14.89 min Scan# 4293

Delta R.T. 0.00 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

ClientSampled :

VP-6

Tot Ion:105 Resp: 73049

Ion Ratio Lower Upper

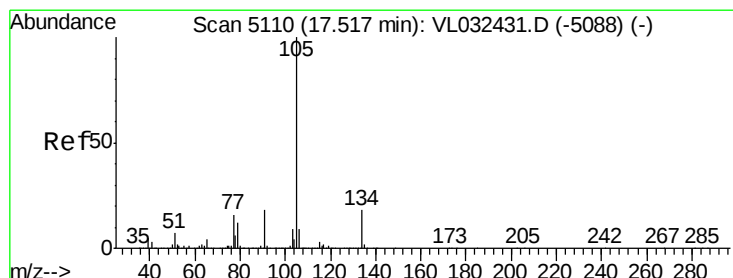
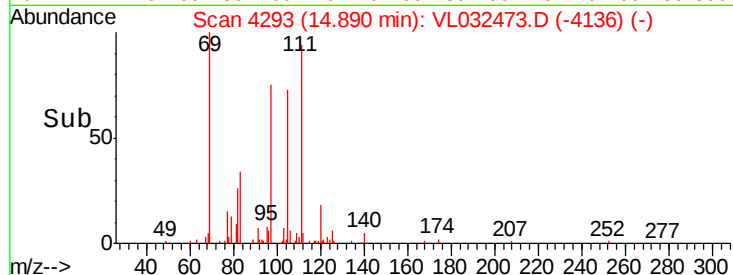
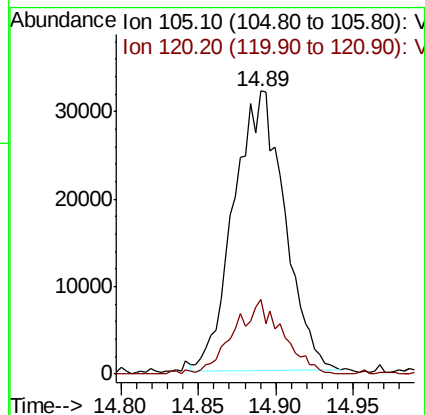
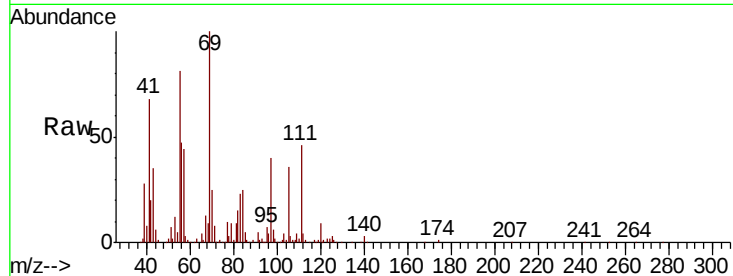
105 100

120 25.8 20.6 31.0

Manual Integrations
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MMDadoda

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#67

sec-Butylbenzene

Concen: 0.17 ppbv

RT: 17.53 min Scan# 5113

Delta R.T. 0.01 min

Lab File: VL032473.D

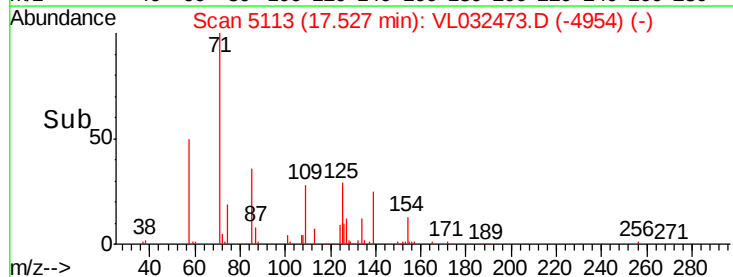
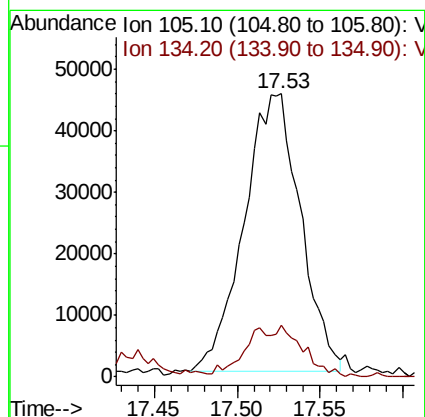
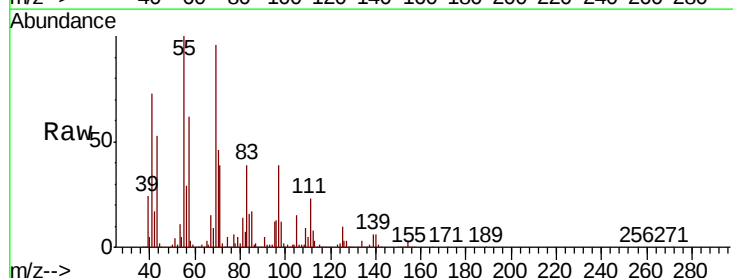
Acq: 6 Sep 2018 2:32

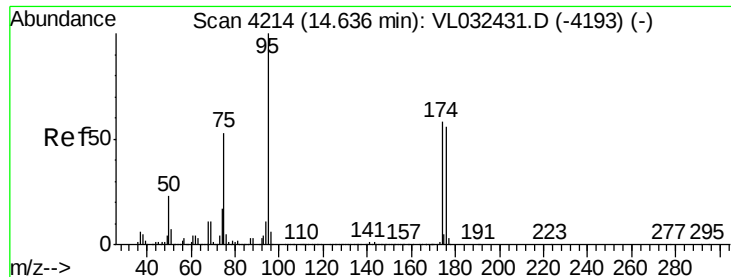
Tgt Ion:105 Resp: 106964

Ion Ratio Lower Upper

105 100

134 18.2 14.4 21.6





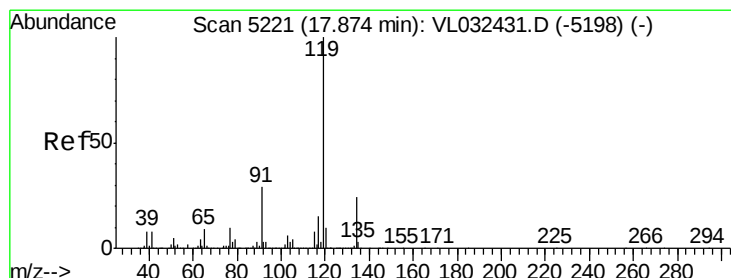
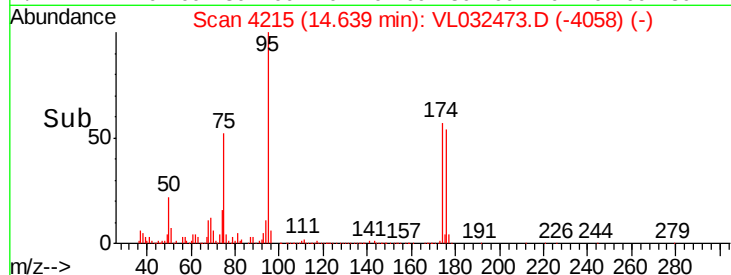
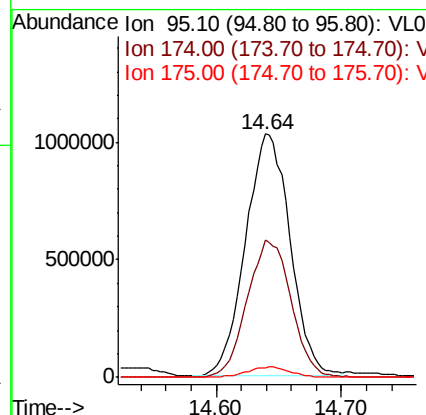
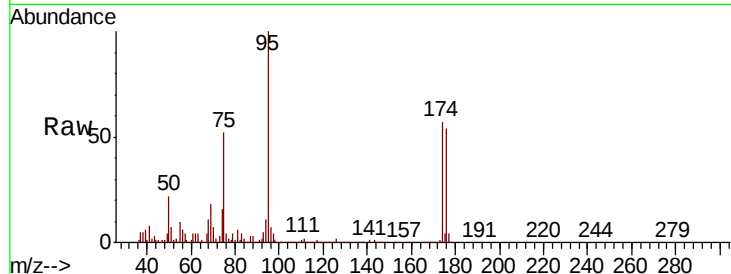
#68
1-Bromo-4-Fluorobenzene
Concen: 10.50 ppbv
RT: 14.64 min Scan# 4215
Delta R.T. 0.00 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion: 95 Resp: 2545816
Ion Ratio Lower Upper
95 100
174 56.2 46.3 69.5
175 4.2 3.4 5.0

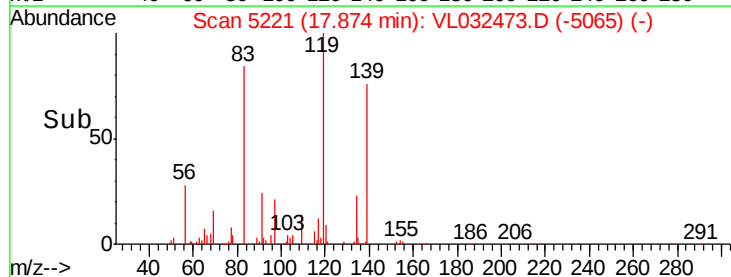
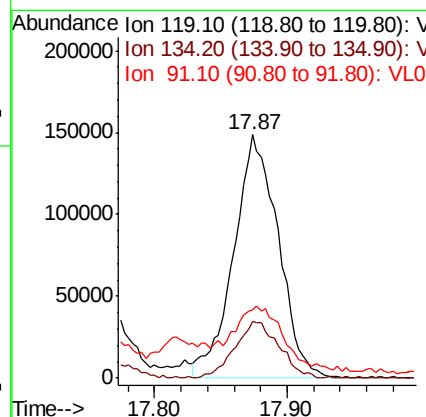
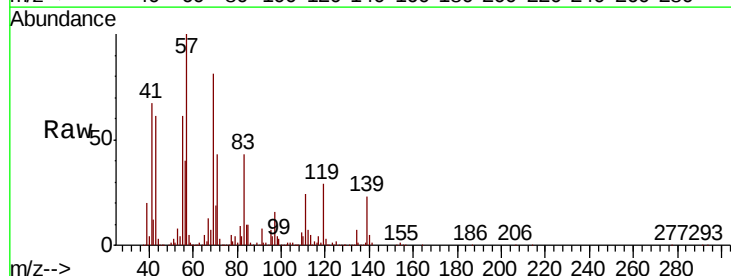
Manual Integrations
APPROVED

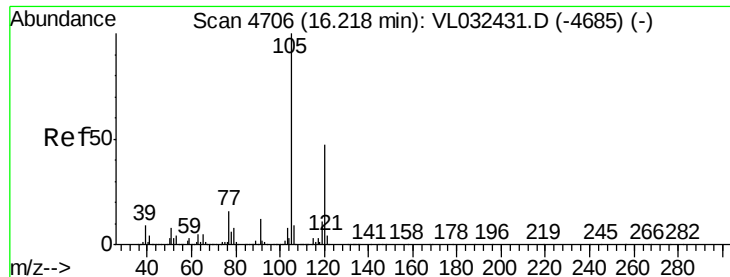
MMDadoda
9/7/2018 10:46:08 AM



#69
p-Isopropyltoluene
Concen: 0.71 ppbv
RT: 17.87 min Scan# 5221
Delta R.T. 0.00 min
Lab File: VL032473.D
Acq: 6 Sep 2018 2:32

Tgt Ion: 119 Resp: 343654
Ion Ratio Lower Upper
119 100
134 23.7 20.4 30.6
91 31.4 23.4 35.2





#73

1,3,5-Trimethylbenzene

Concen: 0.63 ppbv

RT: 16.22 min Scan# 4707

Delta R.T. 0.00 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

ClientSampleId :

VP-6

Tot Ion:105 Resp: 234279

Ion Ratio Lower Upper

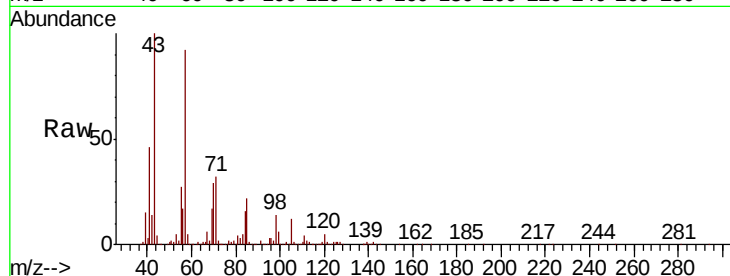
105 100

120 41.6 37.9 56.9

Manual Integrations
APPROVED

MMDadoda

9/7/2018 10:46:08 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

120000

100000

80000

60000

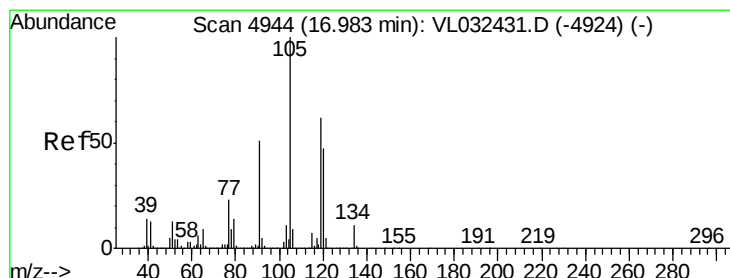
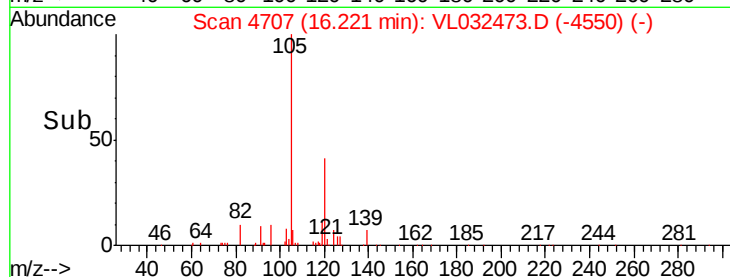
40000

20000

0

16.15 16.20 16.25 16.30

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.74 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. 0.01 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Tgt Ion:105 Resp: 713867

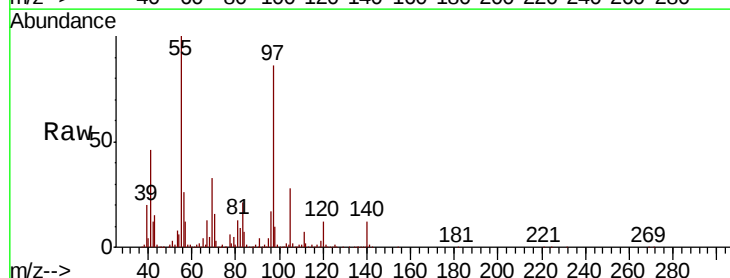
Ion Ratio Lower Upper

105 100

120 44.3 37.8 56.8

91 10.7 41.4 62.0#

77 18.0 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

400000

300000

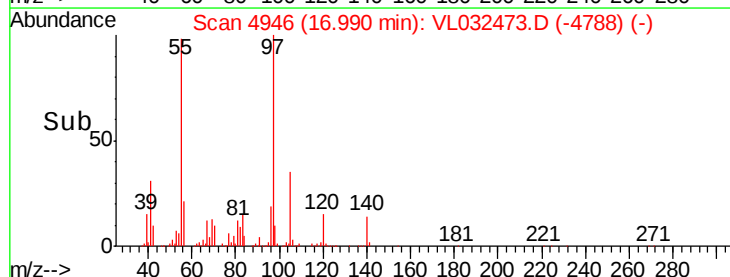
200000

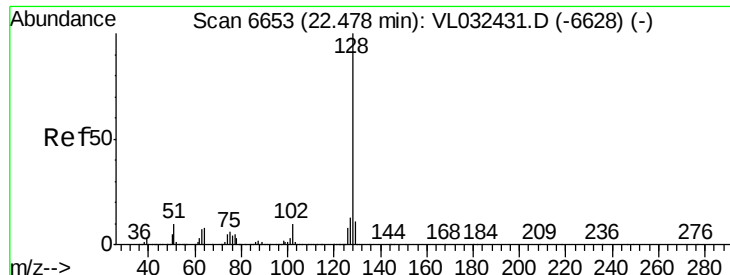
100000

0

16.90 17.00

Time-->





#79

Naphthalene

Concen: 0.19 ppbv m

RT: 22.48 min Scan# 6654

Delta R.T. 0.00 min

Lab File: VL032473.D

Acq: 6 Sep 2018 2:32

Instrument :

MSVOA_L

ClientSampleId :

VP-6

Tot Ion:	128	Resp:	64456
Ion Ratio	Lower	Upper	
128	100		
127	11.1	10.2	15.2
129	12.3	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
9/7/2018 10:46:08 AM

