

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032324.D
 Acq On : 27 Jul 2018 18:28
 Operator : SY/AP
 Sample : J4131-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Manual Integrations
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MMDadoda
 7/30/2018 11:43:17 AM

Quant Time: Jul 28 00:47:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1690452	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3469562	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	3979032	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	3115193	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	31930	0.16	ppbv	93
3) Chlorodifluoromethane	3.06	51	480755m	2.84	ppbv	
4) Chloromethane	3.22	50	40410	0.39	ppbv	98
9) Propene	3.08	41	311754	4.10	ppbv	96
10) Heptane	8.33	43	116891	0.44	ppbv	100
11) Trichlorofluoromethane	4.06	101	7056795	36.23	ppbv	97
13) Ethanol	3.70	45	798514	36.56	ppbv	98
15) Acetone	3.95	43	2326190	14.60	ppbv #	74
17) tert-Butyl alcohol	4.43	59	64040m	1.26	ppbv	
20) Methylene Chloride	4.47	84	324457	5.07	ppbv	95
26) Hexane	5.85	57	367476	2.27	ppbv #	72
27) Carbon Disulfide	4.68	76	84949	0.58	ppbv #	86
28) Methyl tert-Butyl Ether	5.18	73	27652	0.13	ppbv #	51
29) Chloroform	5.92	83	289603	1.23	ppbv	91
30) Cyclohexane	7.32	84	61226m	0.49	ppbv	
32) 1,1,1-Trichloroethane	6.69	97	138027	0.66	ppbv	97
34) 2-Butanone	5.39	43	6843367	30.47	ppbv	99
35) Carbon Tetrachloride	7.21	117	8471	0.04	ppbv #	72
36) Benzene	7.08	78	68039m	0.22	ppbv	
37) 1,2-Dichloroethane	6.49	62	20551	0.12	ppbv	98
38) Trichloroethene	8.04	130	15022	0.13	ppbv #	66
41) Tetrahydrofuran	6.23	42	37820	0.30	ppbv #	87
44) 2,2,4-Trimethylpentane	8.07	57	84696m	0.13	ppbv	
50) 4-Methyl-2-Pentanone	8.95	43	79937m	0.20	ppbv	
51) 2-Hexanone	10.35	43	1296902	4.30	ppbv #	99
52) Tetrachloroethene	11.46	164	120587m	1.17	ppbv	
53) Toluene	10.03	91	2075464	5.68	ppbv	100
58) Ethyl Benzene	12.94	91	1506436	3.02	ppbv	91
59) m/p-Xylene	13.21	91	4224552	9.95	ppbv	99
60) o-Xylene	13.93	91	2098131	5.04	ppbv	97
61) Styrene	13.77	104	2412951	7.87	ppbv	99
62) Isopropylbenzene	14.91	105	1386413	2.34	ppbv	99
64) n-propylbenzene	15.81	120	81172	0.53	ppbv	79
65) tert-Butylbenzene	17.01	119	115870	0.23	ppbv #	67
69) p-Isopropyltoluene	17.91	119	379580	0.65	ppbv #	92
72) 4-Ethyltoluene	16.08	105	464265	0.99	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	510844	1.11	ppbv	98
74) 1,2,4-Trimethylbenzene	17.01	105	1064121	2.20	ppbv #	71
79) Naphthalene	22.52	128	234368	0.56	ppbv	96
80) Naphthalene,2-methyl-	25.18	142	23119	0.14	ppbv #	80

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Misc : 400ml/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :
SG-3

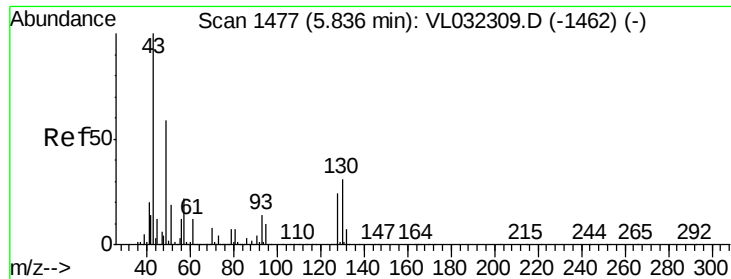
Manual Integrations
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7/30/2018 11:43:17 AM

Quant Time: Jul 28 00:47:52 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
QLast Update : Fri Jul 27 07:05:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

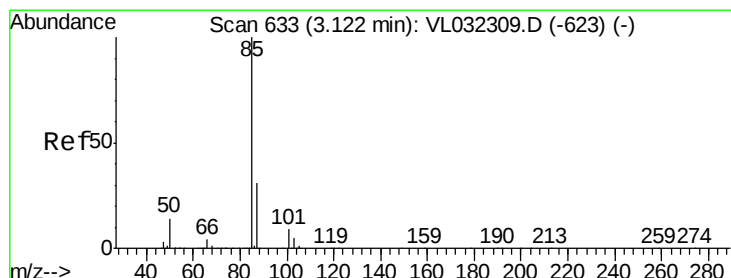
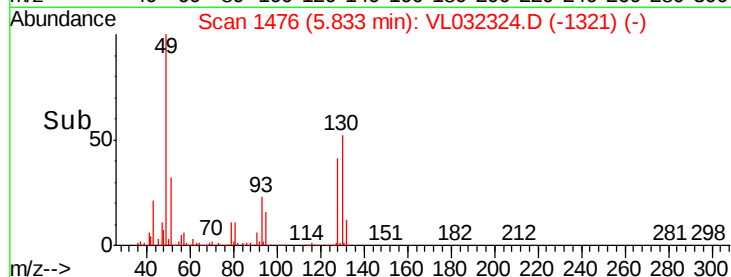
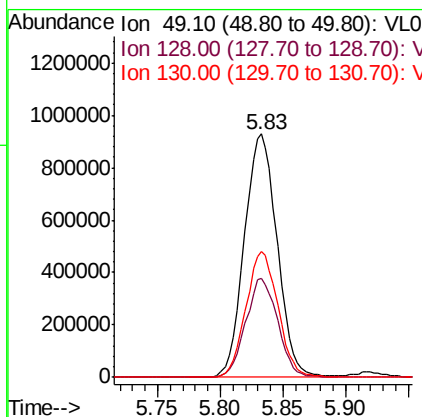
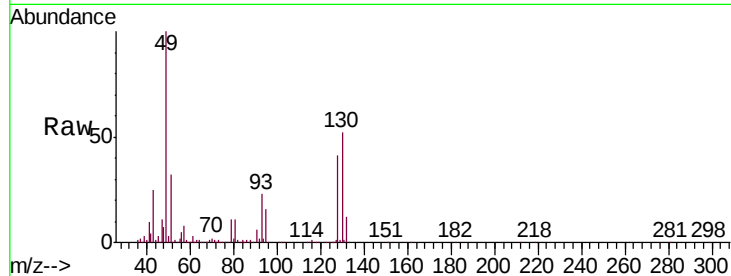
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.83 min Scan# 1476
 Delta R.T. -0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Instrument :
 MSVOA_L
 ClientSampled :
 SG-3

Tot Ion	Ratio	Lower	Upper
49	100		
128	40.0	20.2	60.6
130	50.9	25.8	77.3

Manual Integrations
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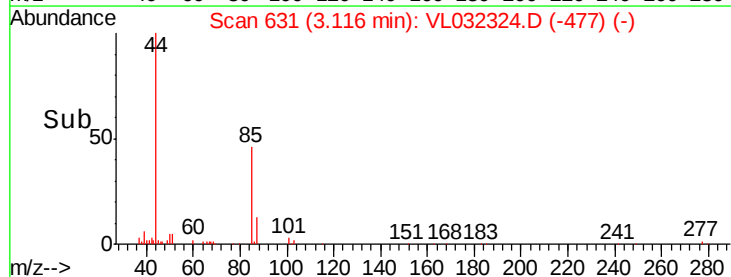
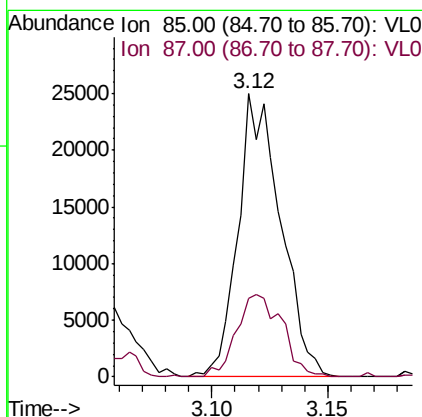
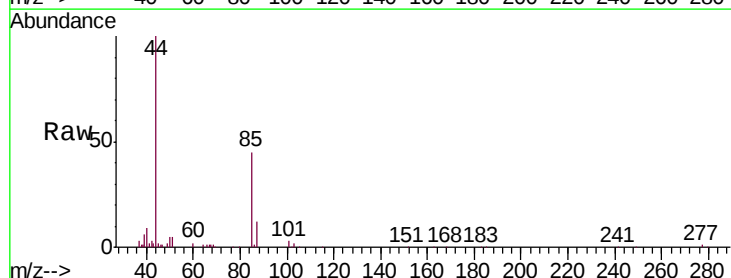
MMDadoda
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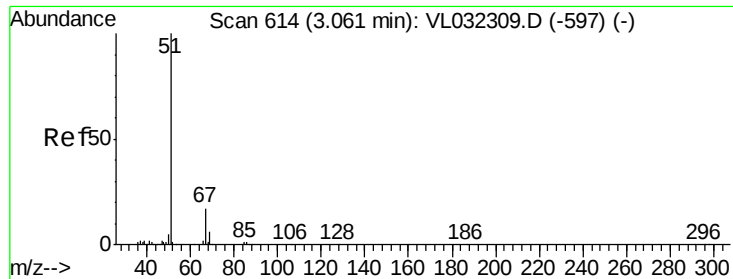


#2

Dichlorodifluoromethane
 Concen: 0.16 ppbv
 RT: 3.12 min Scan# 631
 Delta R.T. -0.01 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Lower	Upper
85	100		
87	27.8	25.2	37.8





#3

Chlorodifluoromethane

Concen: 2.84 ppbv m

RT: 3.06 min Scan# 613

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion: 51 Resp: 480755

Ion Ratio Lower Upper

51 100

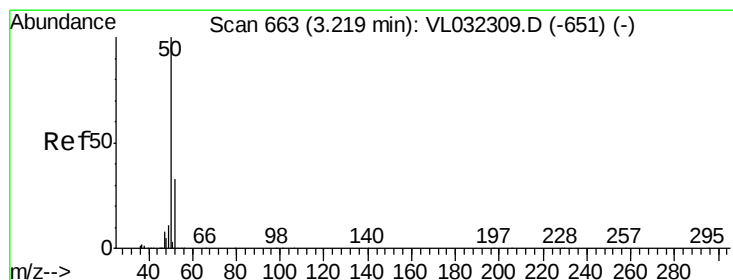
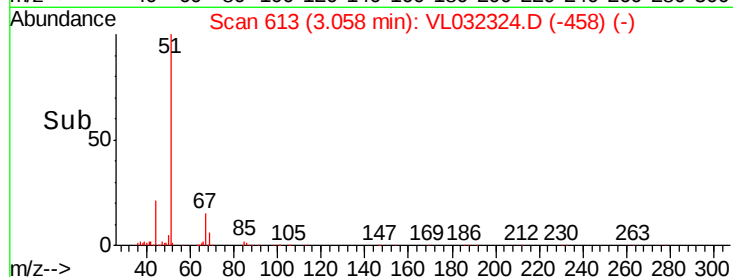
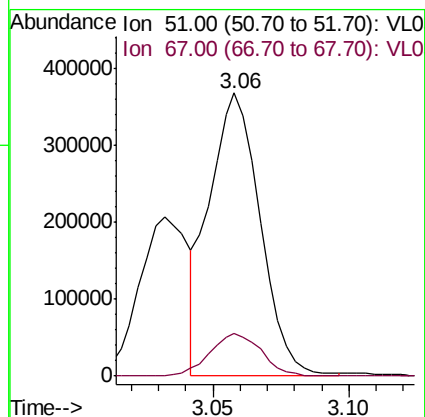
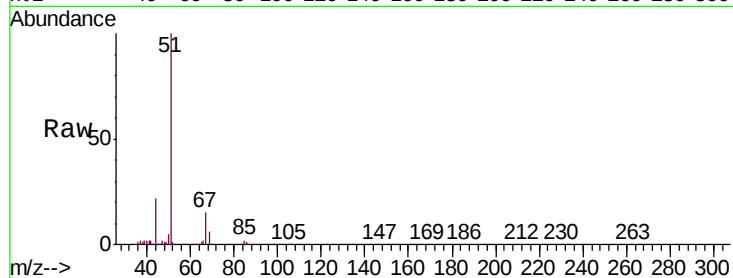
67 15.4 13.5 20.3

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#4

Chloromethane

Concen: 0.39 ppbv

RT: 3.22 min Scan# 663

Delta R.T. 0.00 min

Lab File: VL032324.D

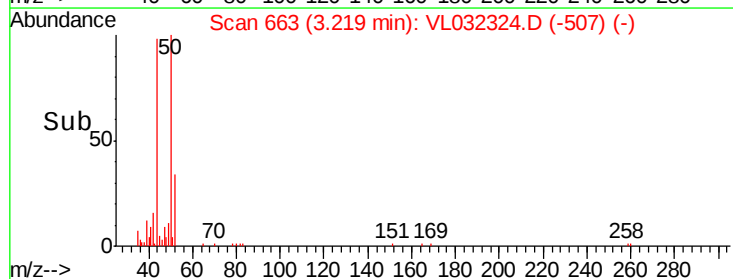
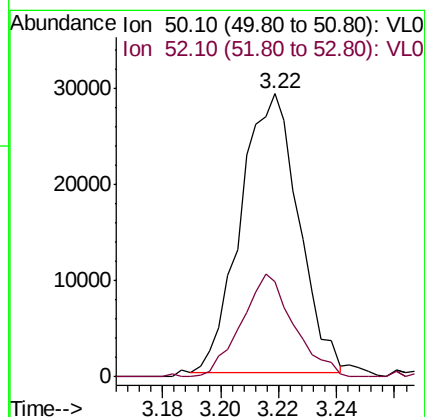
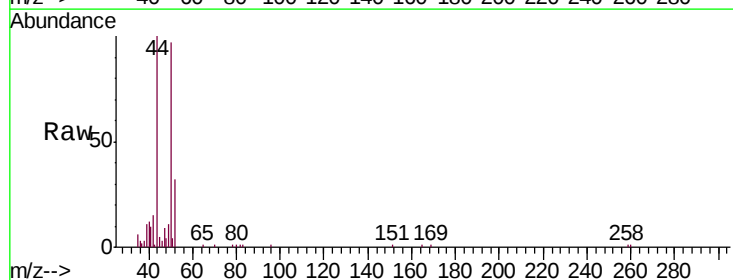
Acq: 27 Jul 2018 18:28

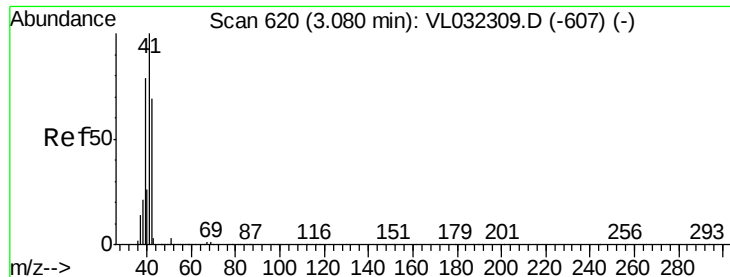
Tgt Ion: 50 Resp: 40410

Ion Ratio Lower Upper

50 100

52 34.0 26.2 39.4





#9

Propene

Concen: 4.10 ppbv

RT: 3.08 min Scan# 620

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion: 41 Resp: 311754

Ion Ratio Lower Upper

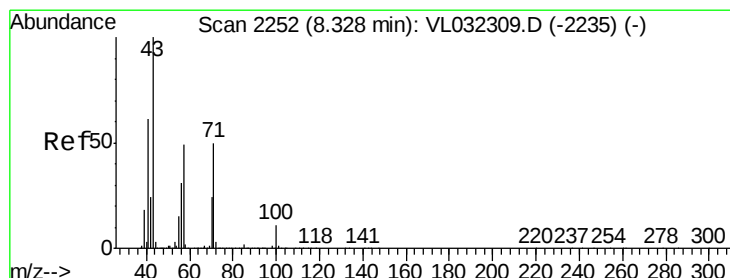
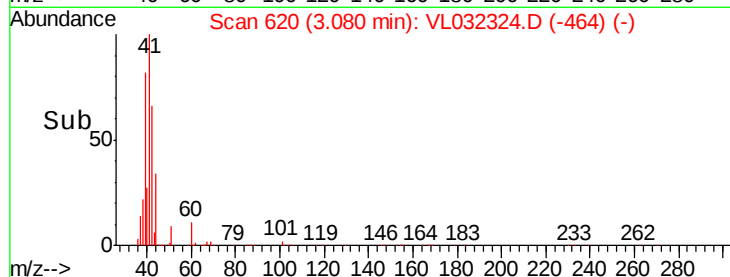
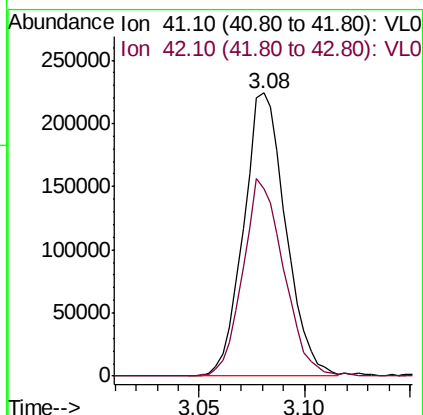
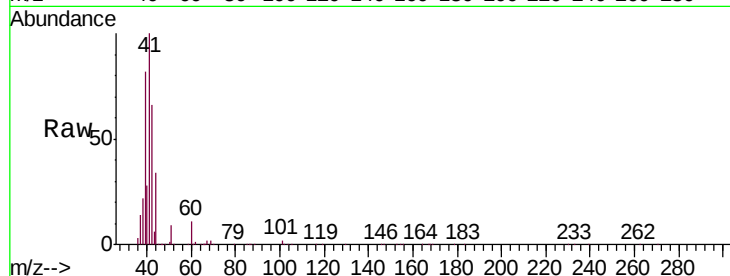
41 100

42 68.0 56.8 85.2

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#10

Heptane

Concen: 0.44 ppbv

RT: 8.33 min Scan# 2252

Delta R.T. 0.00 min

Lab File: VL032324.D

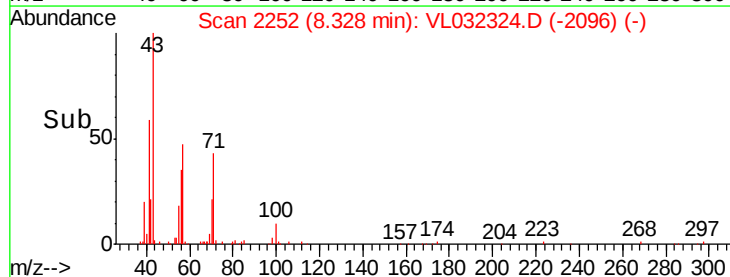
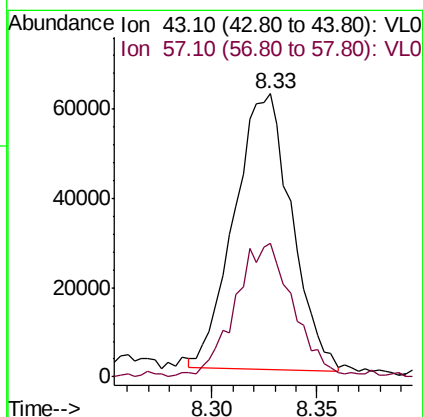
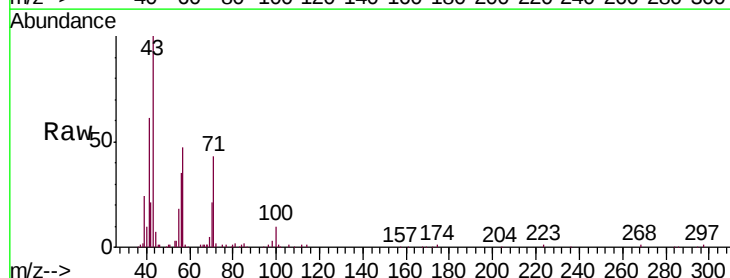
Acq: 27 Jul 2018 18:28

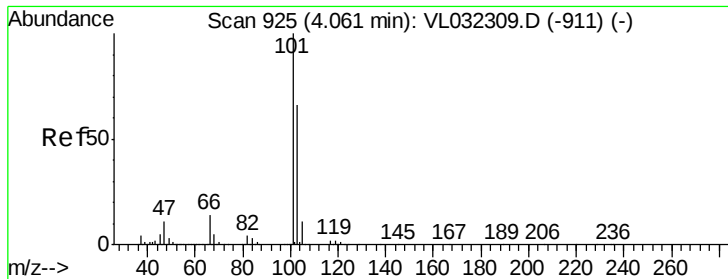
Tgt Ion: 43 Resp: 116891

Ion Ratio Lower Upper

43 100

57 48.6 39.0 58.4





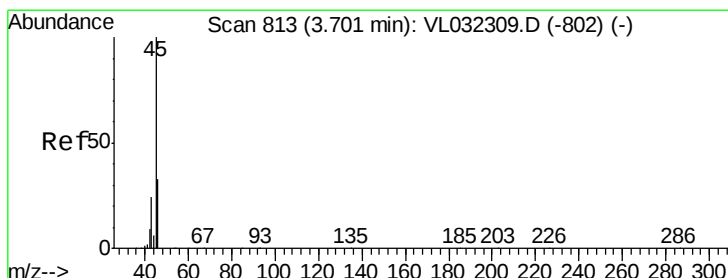
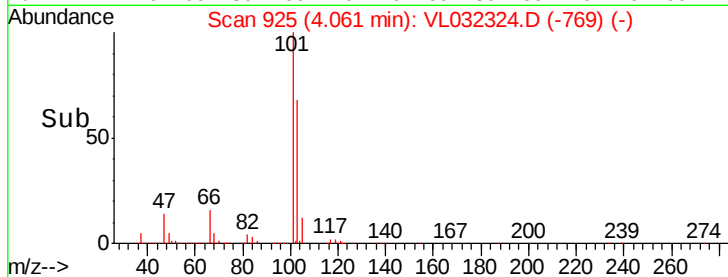
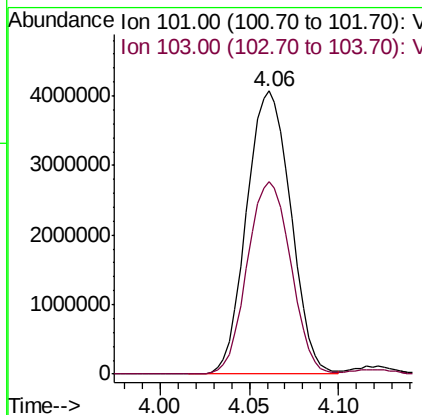
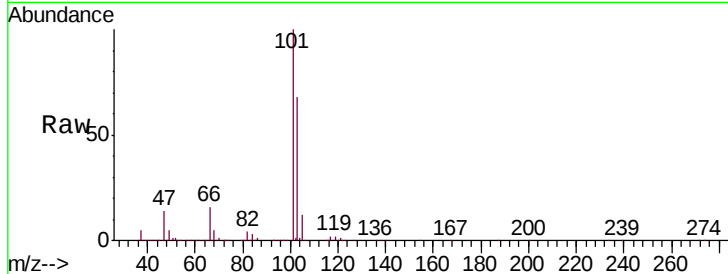
#11
 Trichlorofluoromethane
 Concen: 36.23 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Tot Ion:101 Resp: 7056795
 Ion Ratio Lower Upper
 101 100
 103 68.1 52.6 78.8

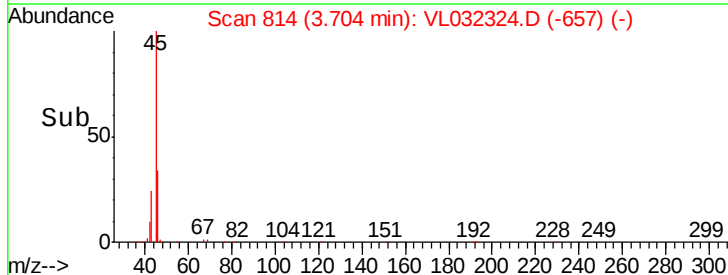
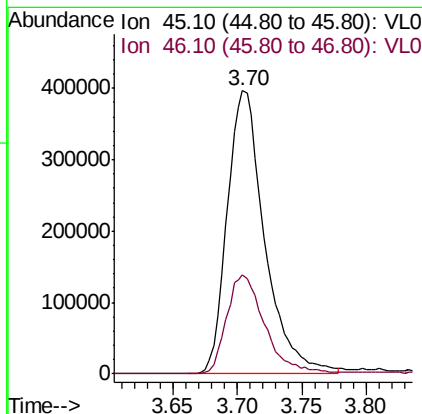
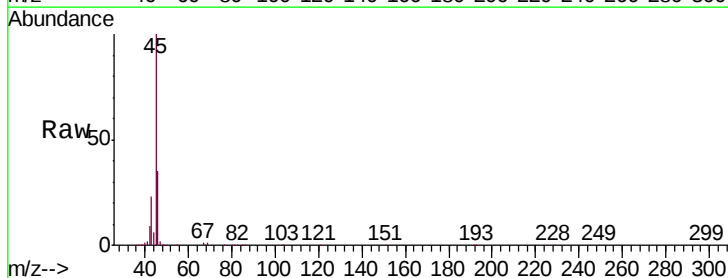
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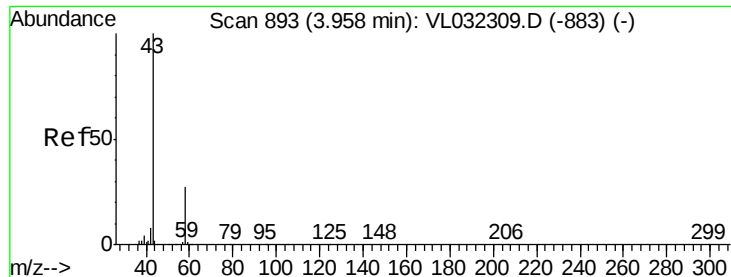
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 7/30/2018 11:43:17 AM



#13
 Ethanol
 Concen: 36.56 ppbv
 RT: 3.70 min Scan# 814
 Delta R.T. 0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Tgt Ion: 45 Resp: 798514
 Ion Ratio Lower Upper
 45 100
 46 36.4 15.2 60.6





#15

Acetone

Concen: 14.60 ppbv

RT: 3.95 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampled :

SG-3

Tot Ion: 43 Resp: 2326190

Ion Ratio Lower Upper

43 100

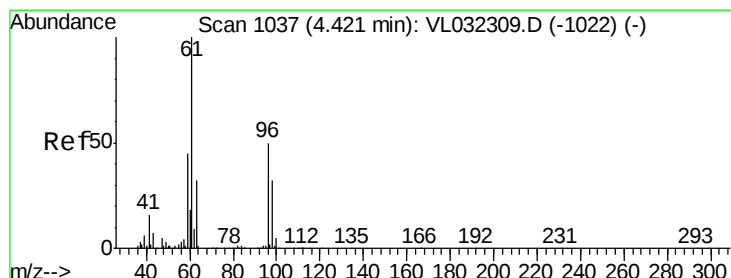
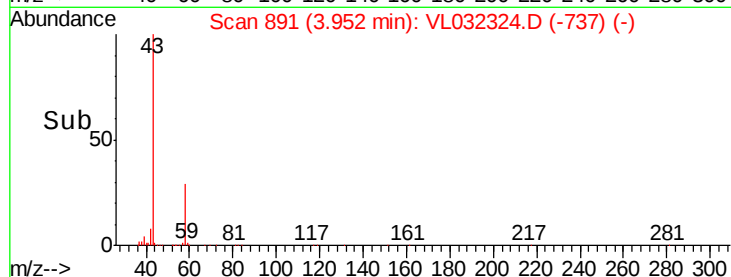
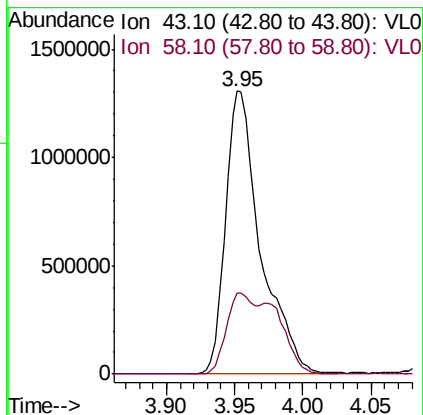
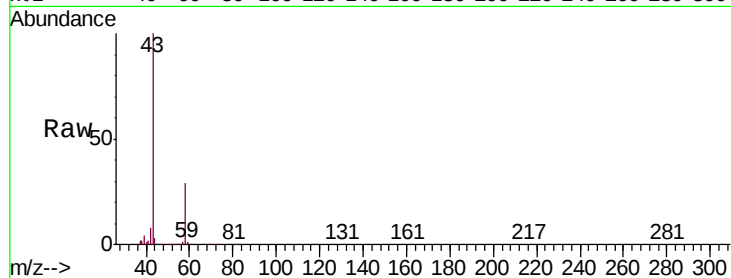
58 42.0 22.5 33.7#

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 1.26 ppbv m

RT: 4.43 min Scan# 1039

Delta R.T. 0.01 min

Lab File: VL032324.D

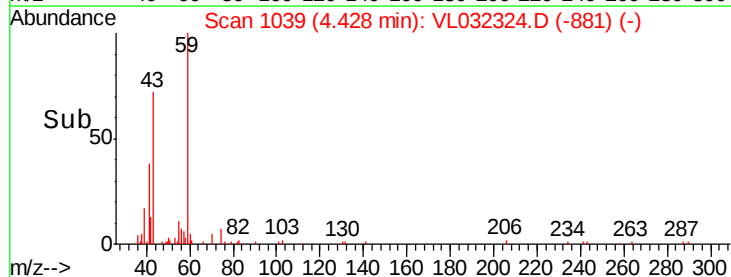
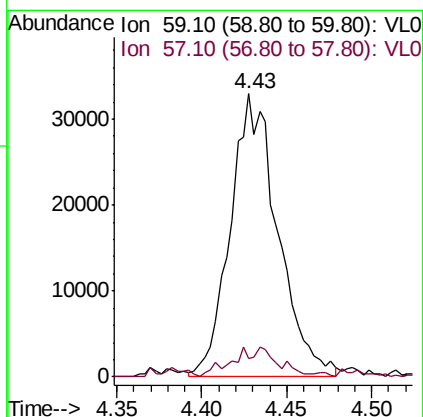
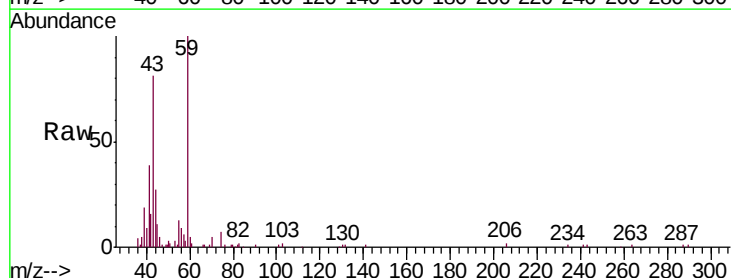
Acq: 27 Jul 2018 18:28

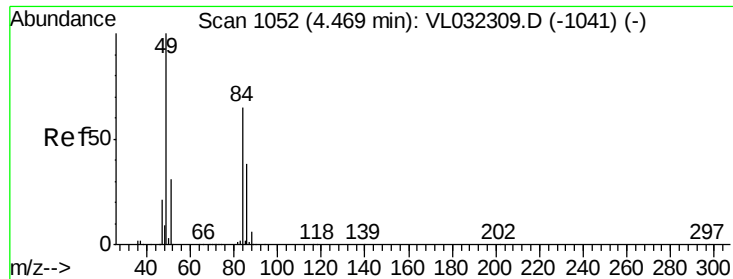
Tgt Ion: 59 Resp: 64040

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





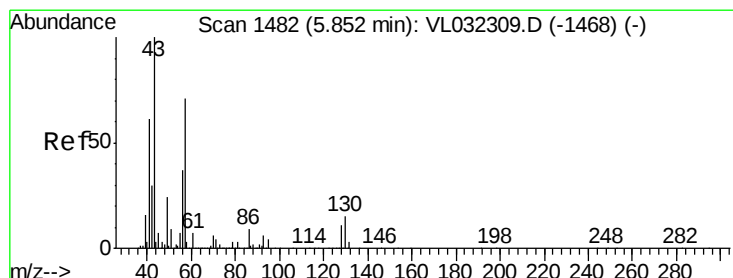
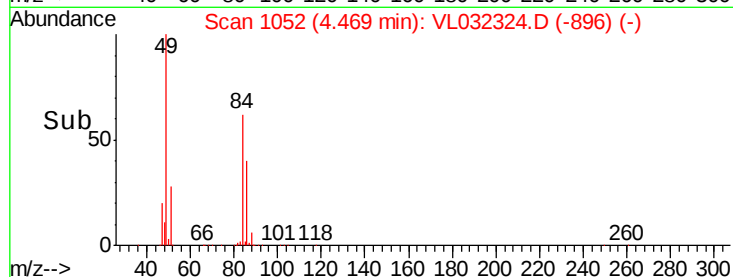
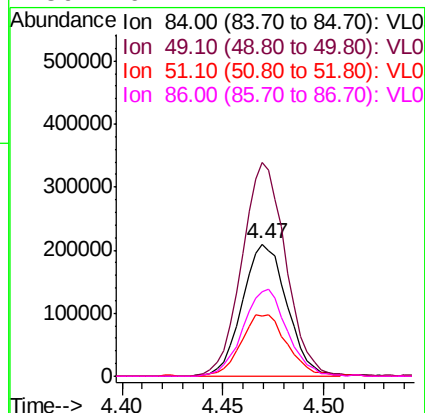
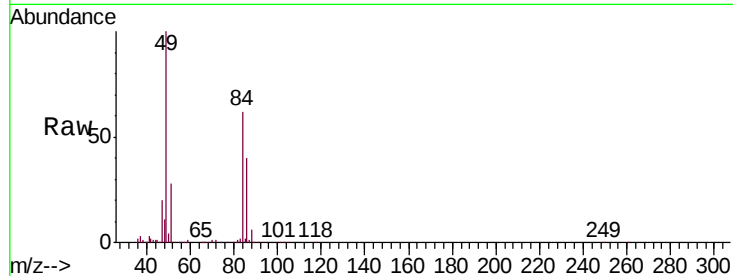
#20
Methvlene Chloride
Concen: 5.07 ppbv
RT: 4.47 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampled :
SG-3

Tot Ion:	84	Resp:	324457
Ion	Ratio	Lower	Upper
84	100		
49	161.5	123.4	185.0
51	45.7	38.2	57.2
86	64.4	47.4	71.2

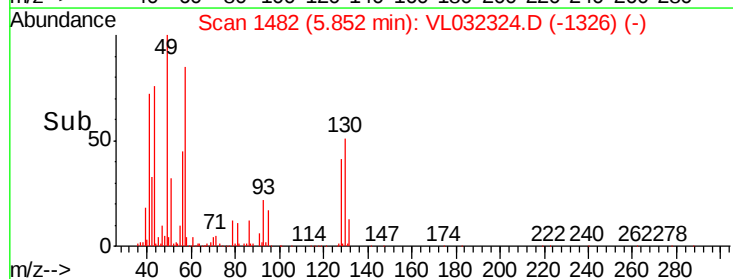
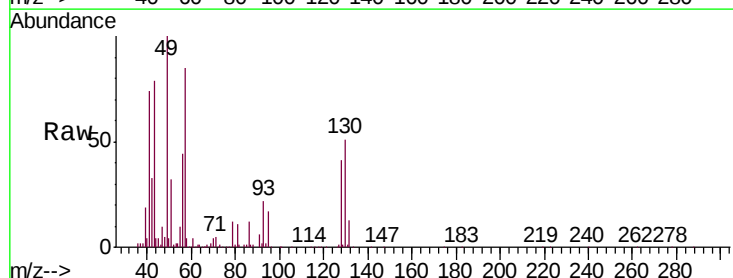
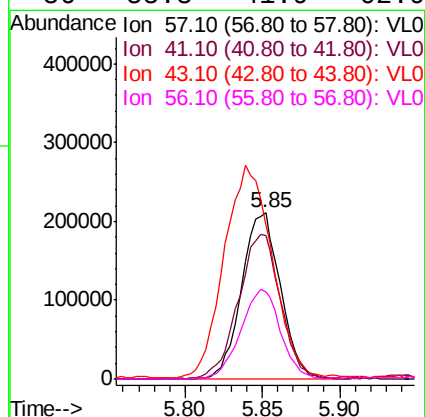
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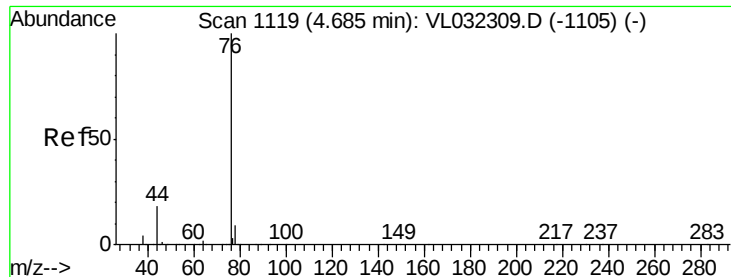
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#26
Hexane
Concen: 2.27 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion:	57	Resp:	367476
Ion	Ratio	Lower	Upper
57	100		
41	94.3	68.1	102.1
43	157.6	177.4	266.2#
56	55.8	41.9	62.9





#27

Carbon Disulfide

Concen: 0.58 ppbv

RT: 4.68 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

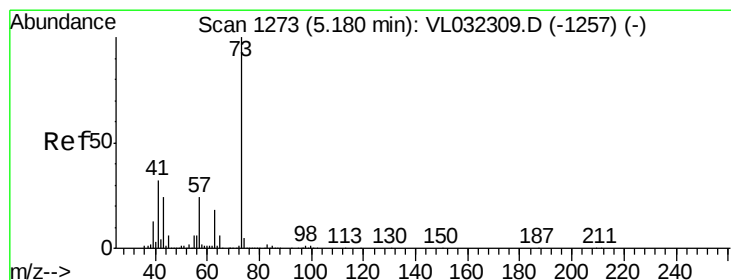
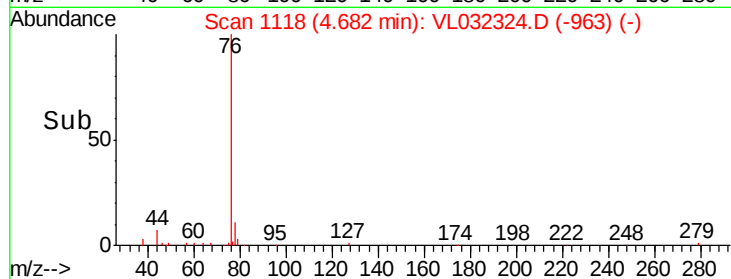
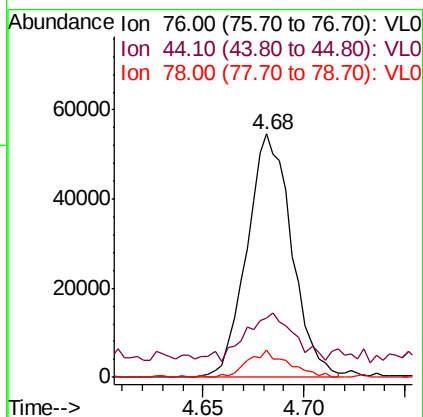
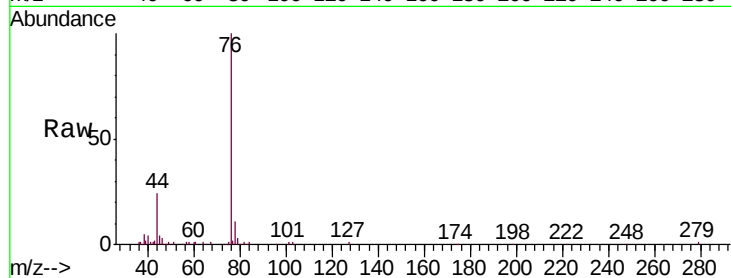
ClientSampleId :

SG-3

Tot Ion	Ratio	Lower	Upper
76	100		
44	26.3	14.0	21.0#
78	10.6	7.5	11.3

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#28

Methyl tert-Butyl Ether

Concen: 0.13 ppbv

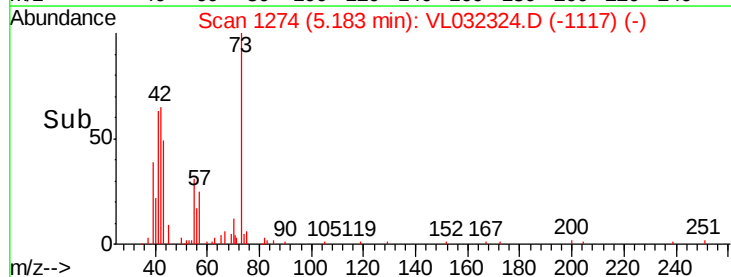
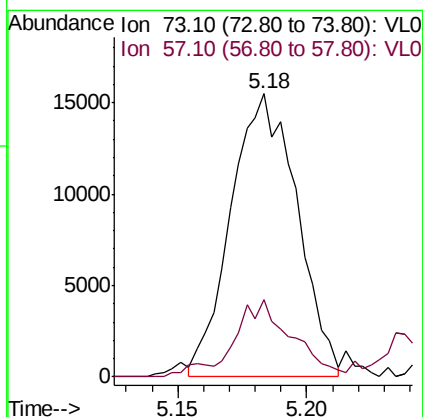
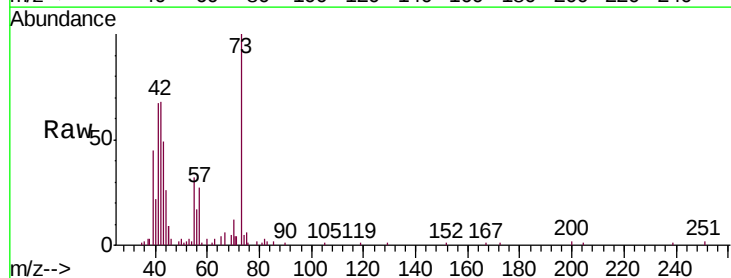
RT: 5.18 min Scan# 1274

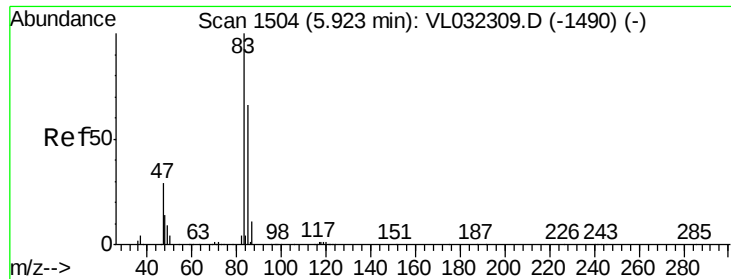
Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.4	29.0#





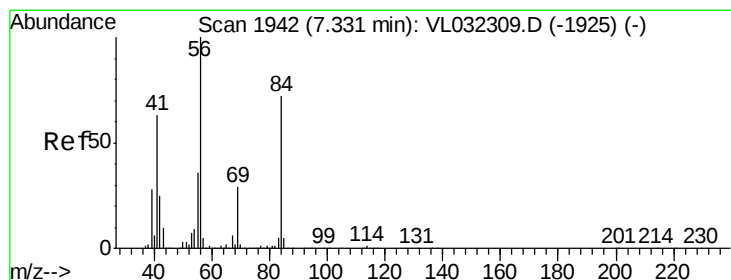
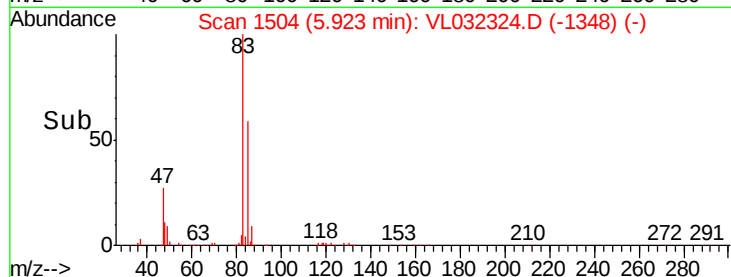
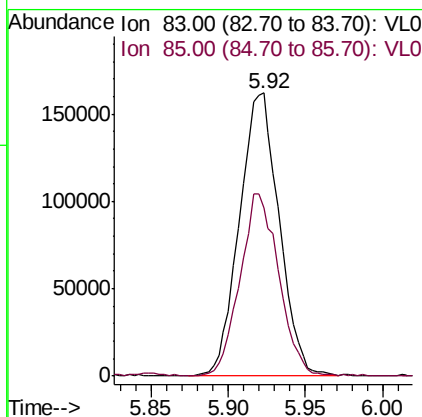
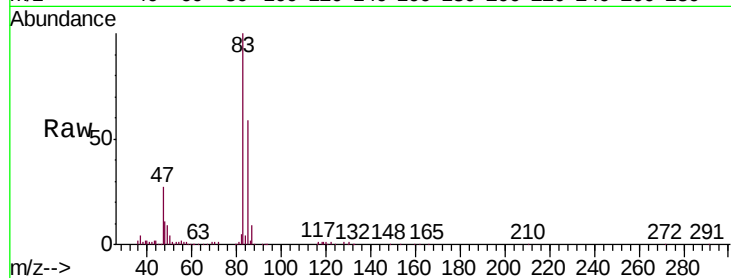
#29
Chloroform
Concen: 1.23 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tot Ion	83	Resp	289603
Ion Ratio	Lower	Upper	
83	100		
85	58.9	52.9	79.3

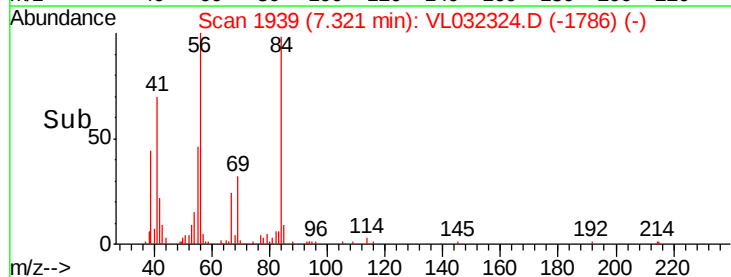
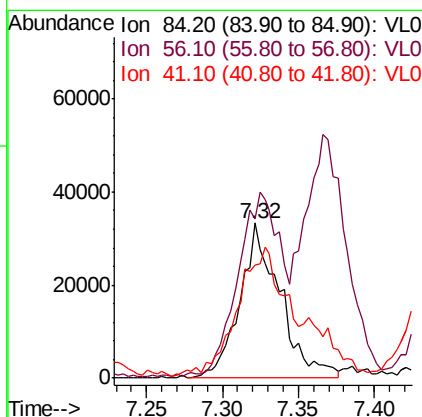
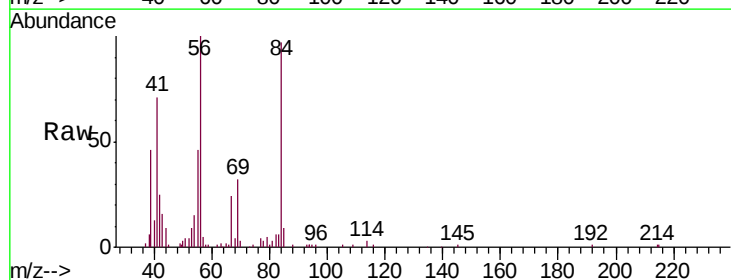
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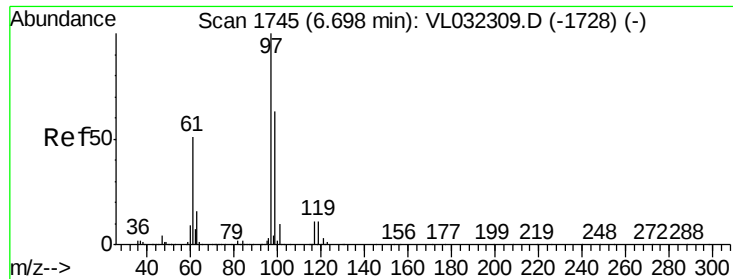
MMDadoda
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#30
Cyclohexane
Concen: 0.49 ppbv m
RT: 7.32 min Scan# 1939
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion	84	Resp	61226
Ion Ratio	Lower	Upper	
84	100		
56	138.8	116.8	175.2
41	122.2	70.0	105.0#





#32

1,1,1-Trichloroethane

Concen: 0.66 ppbv

RT: 6.69 min Scan# 1744

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

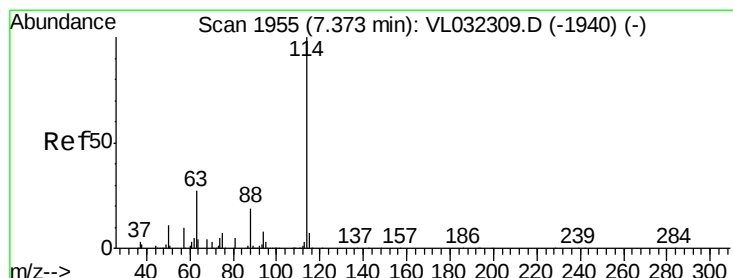
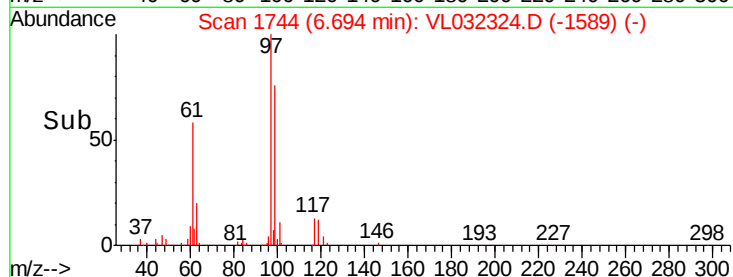
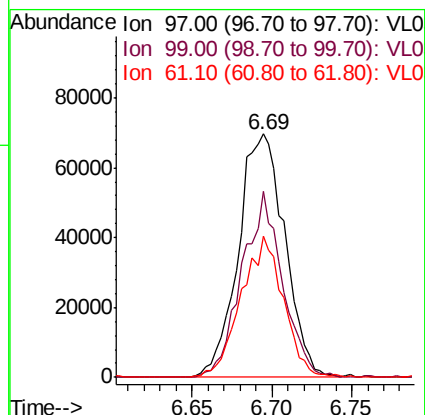
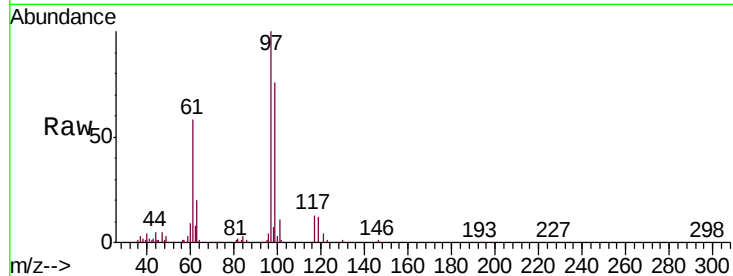
ClientSampled :

SG-3

Tot Ion:	97	Resp:	138027
Ion Ratio	Lower	Upper	
97	100		
99	66.7	50.9	76.3
61	53.1	41.8	62.6

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

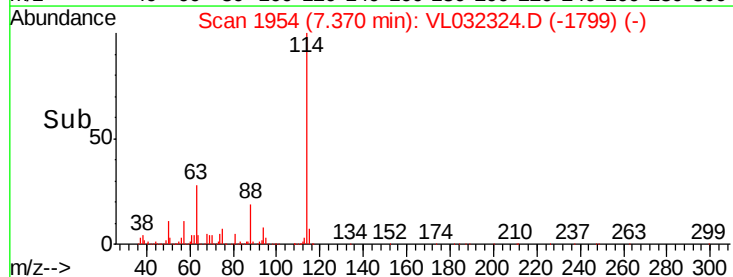
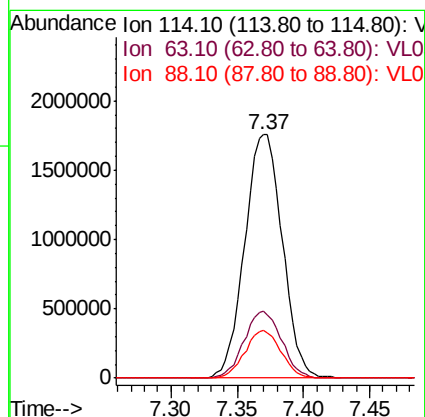
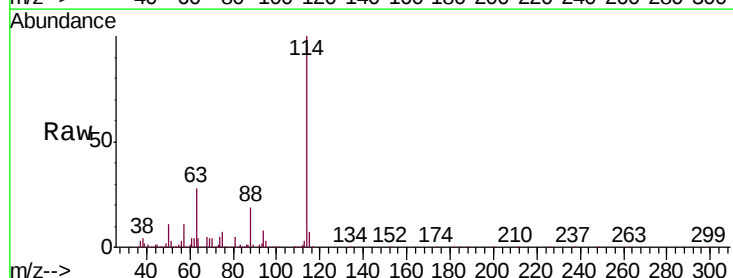
RT: 7.37 min Scan# 1954

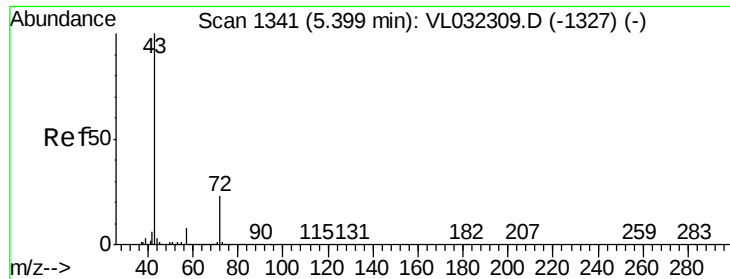
Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Tgt Ion:	114	Resp:	3469562
Ion Ratio	Lower	Upper	
114	100		
63	27.4	22.4	33.6
88	19.0	15.3	22.9





#34

2-Butanone

Concen: 30.47 ppbv

RT: 5.39 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion: 43 Resp: 6843367

Ion Ratio Lower Upper

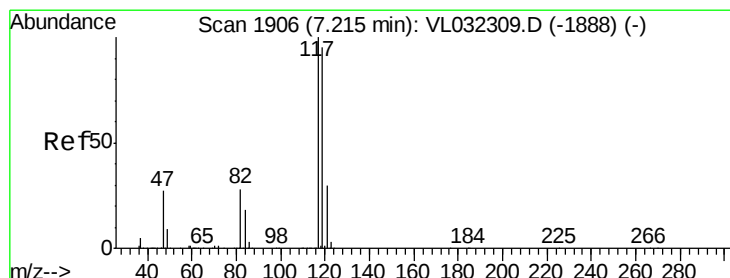
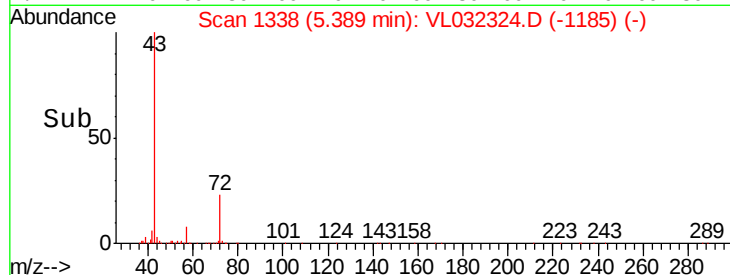
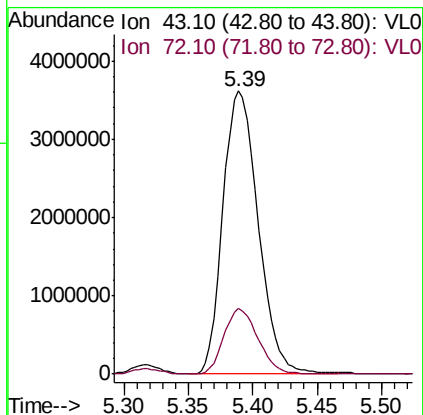
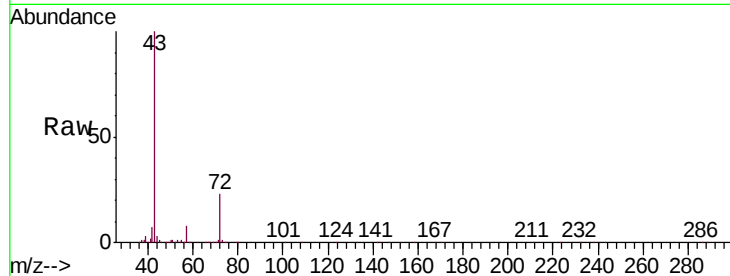
43 100

72 22.5 17.4 26.2

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#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 7.21 min Scan# 1904

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

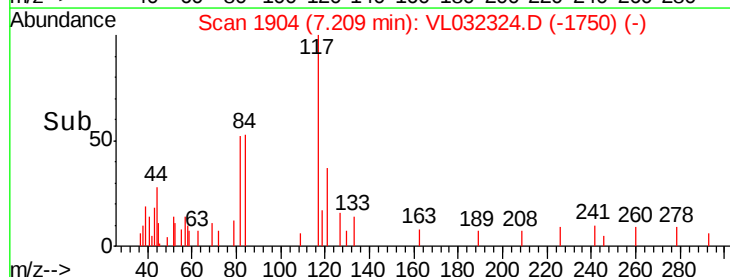
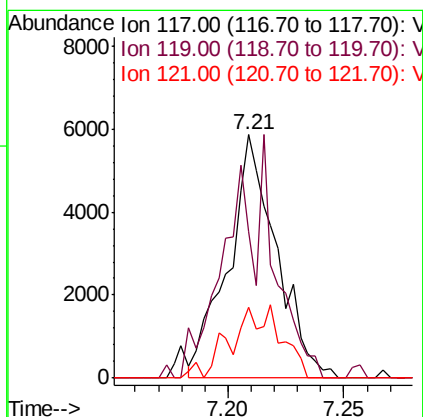
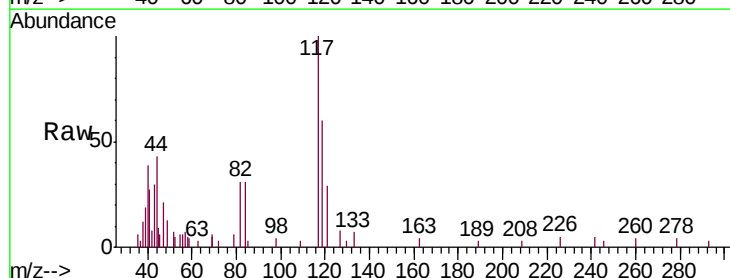
Tgt Ion: 117 Resp: 8471

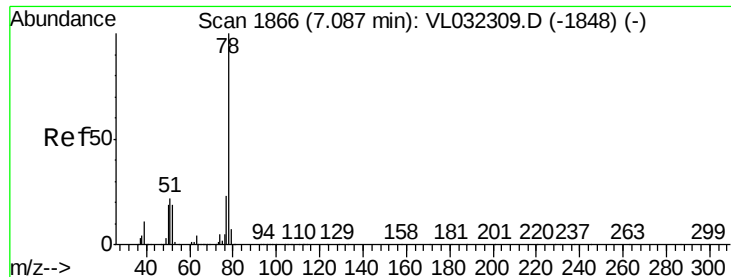
Ion Ratio Lower Upper

117 100

119 60.2 76.1 114.1#

121 28.9 24.4 36.6





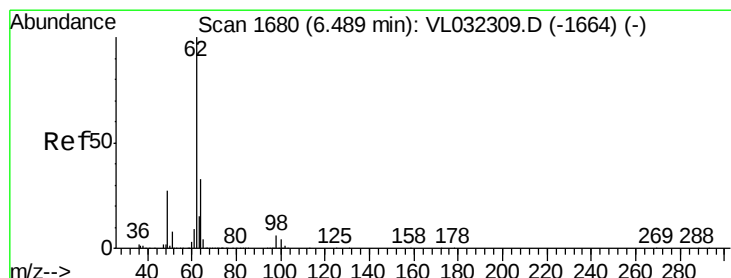
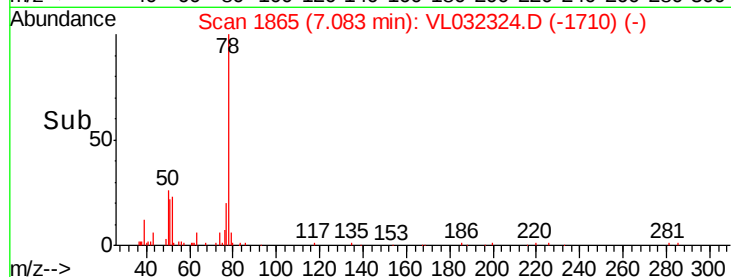
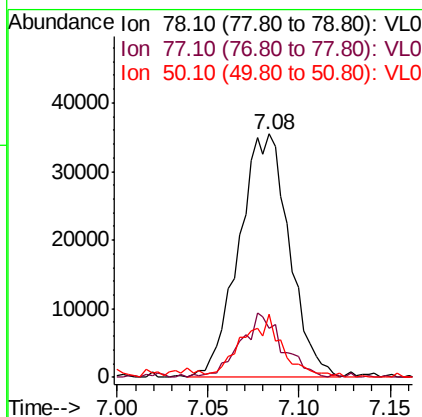
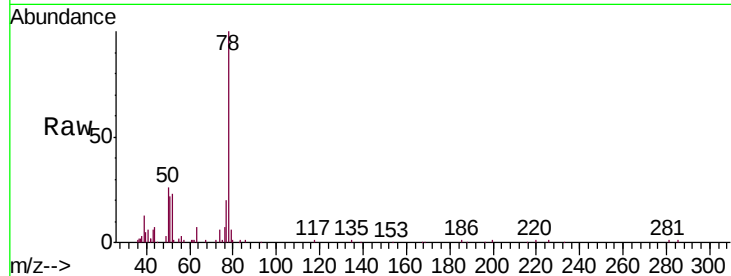
#36
Benzene
Concen: 0.22 ppbv m
RT: 7.08 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.4	27.6
50	26.1	15.3	22.9

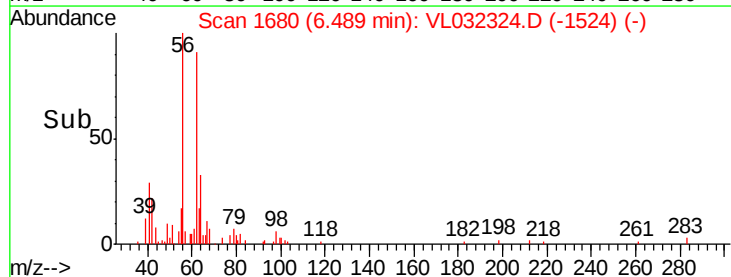
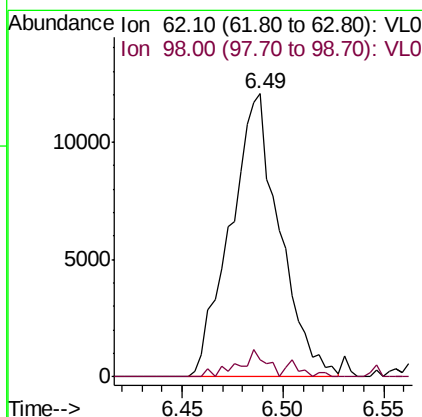
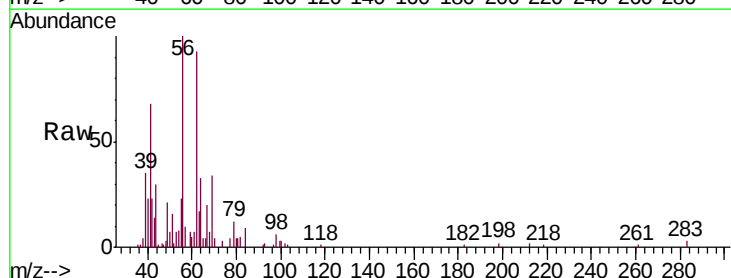
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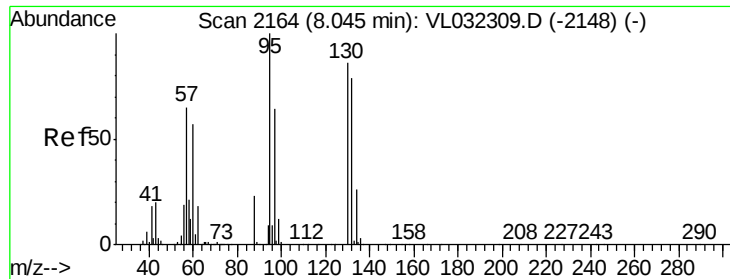
MMDadoda
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#37
1,2-Dichloroethane
Concen: 0.12 ppbv
RT: 6.49 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.1	5.1	7.7





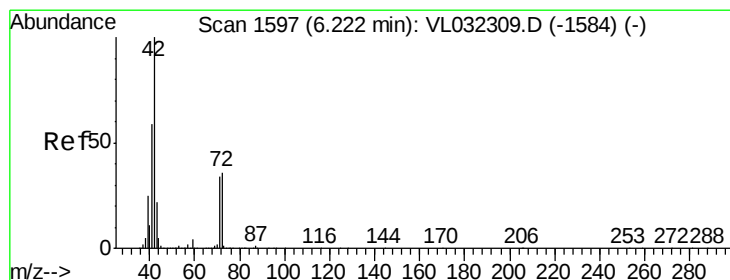
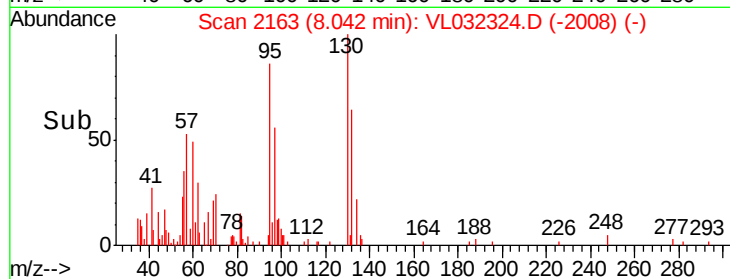
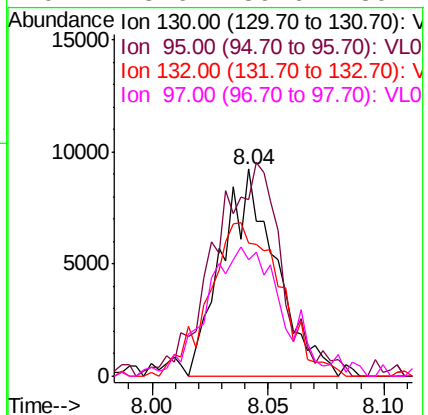
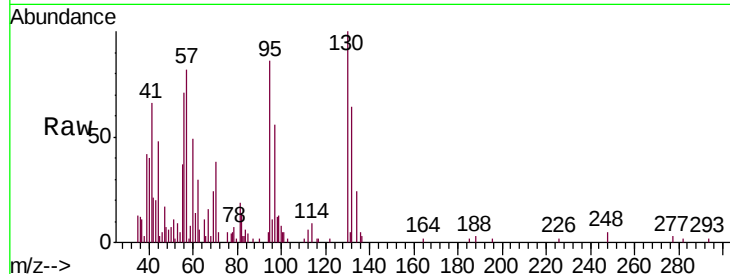
#38
 Trichloroethene
 Concen: 0.13 ppbv
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Instrument :
 MSVOA_L
 ClientSampled :
 SG-3

Tot Ion	Ratio	Lower	Upper
130	100		
95	77.5	92.9	139.3#
132	61.1	73.0	109.4#
97	45.6	59.6	89.4#

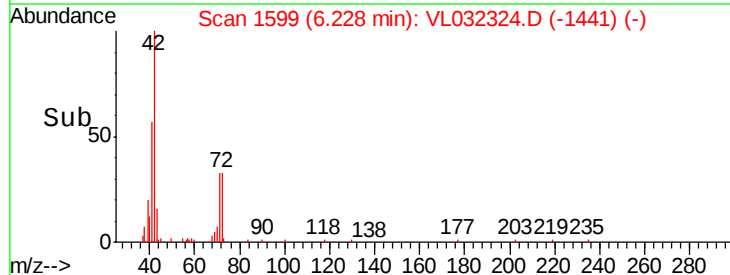
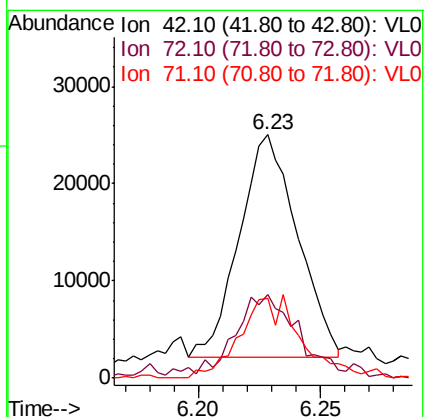
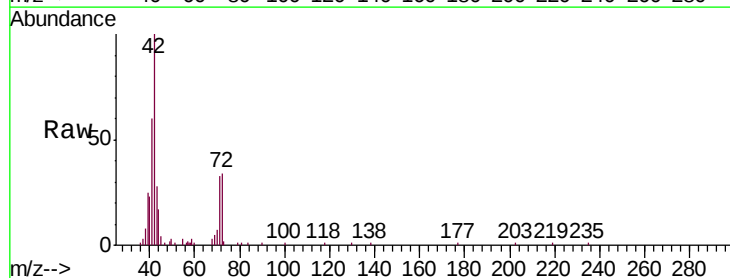
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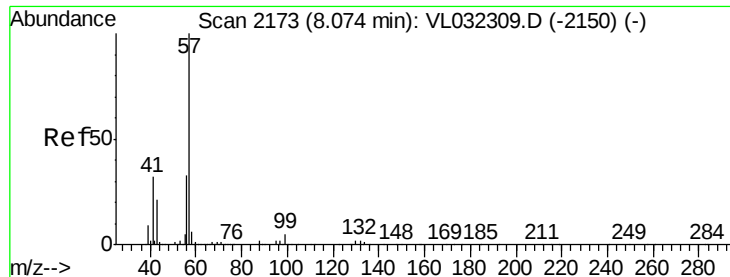
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#41
 Tetrahydrofuran
 Concen: 0.30 ppbv
 RT: 6.23 min Scan# 1599
 Delta R.T. 0.01 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Lower	Upper
42	100		
72	46.0	28.6	42.8#
71	39.4	27.8	41.6





#44

2,2,4-Trimethylpentane

Concen: 0.13 ppbv m

RT: 8.07 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

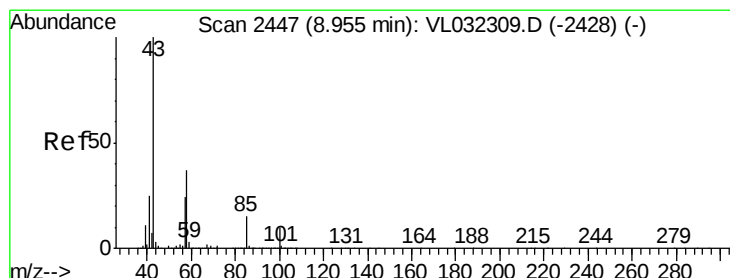
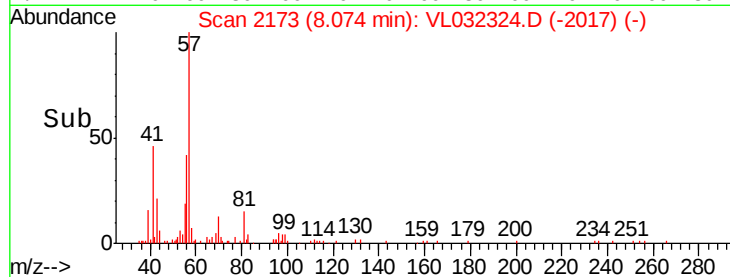
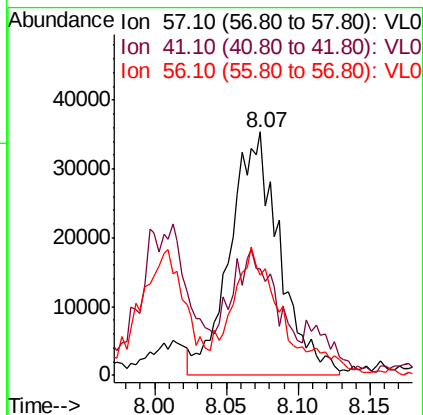
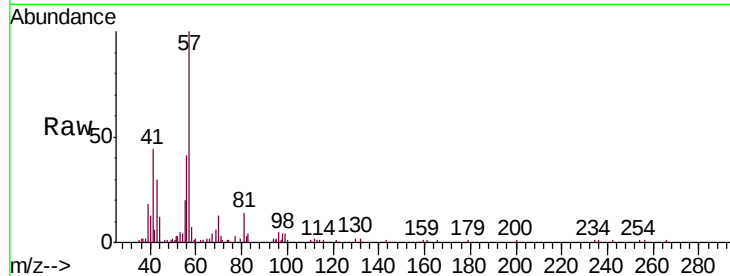
ClientSampleId :

SG-3

Tot Ion:	57	Resp:	84696
Ion Ratio	Lower	Upper	
57	100		
41	0.0	24.3	36.5#
56	0.0	25.4	38.2#

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#50

4-Methyl-2-Pentanone

Concen: 0.20 ppbv m

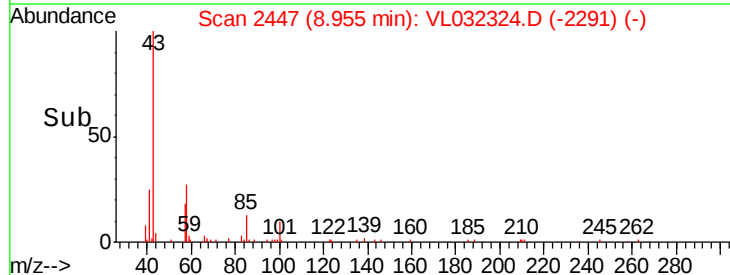
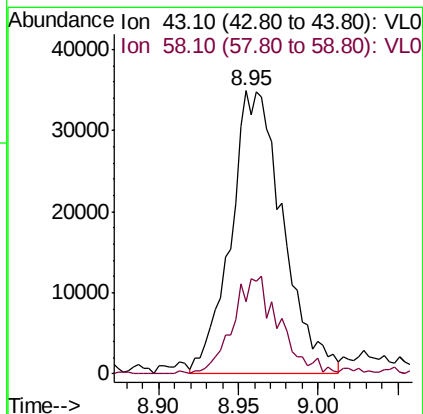
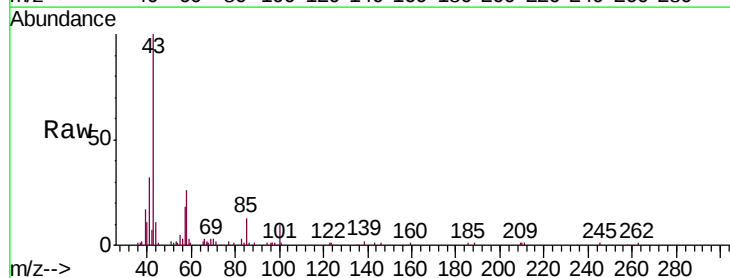
RT: 8.95 min Scan# 2447

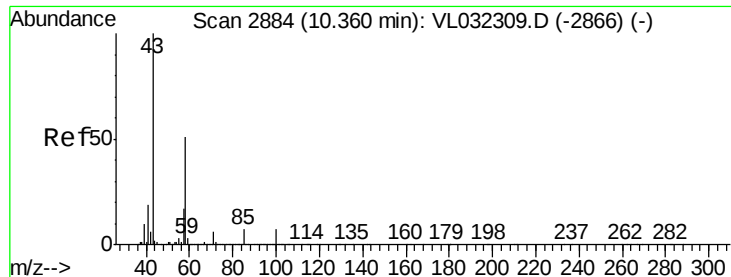
Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Tgt Ion:	43	Resp:	79937
Ion Ratio	Lower	Upper	
43	100		
58	0.0	28.9	43.3#





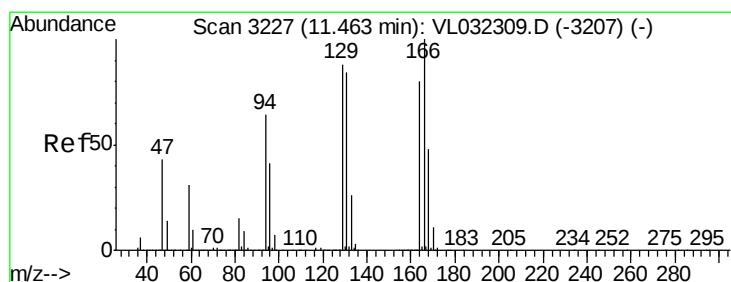
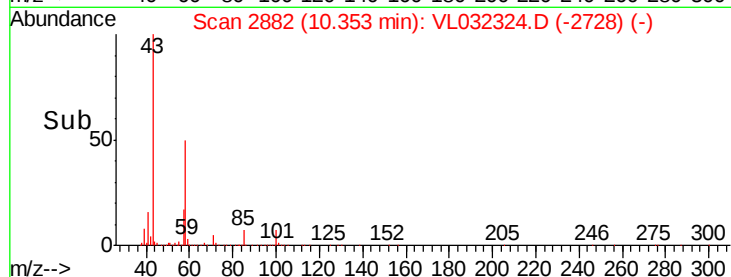
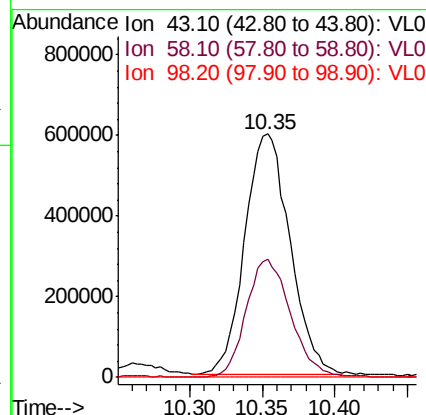
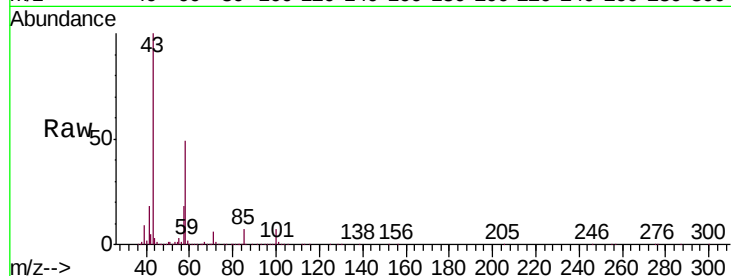
#51
2-Hexanone
Concen: 4.30 ppbv
RT: 10.35 min Scan# 2882
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.1	39.1	58.7
98	0.2	0.3	0.5#

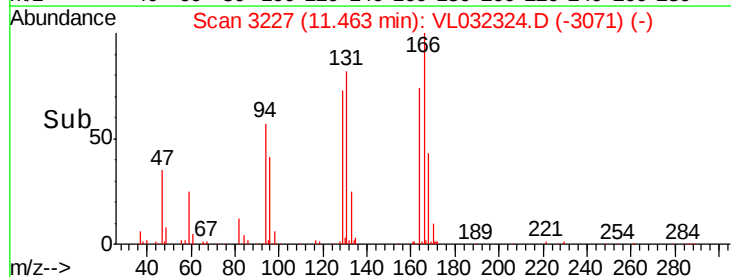
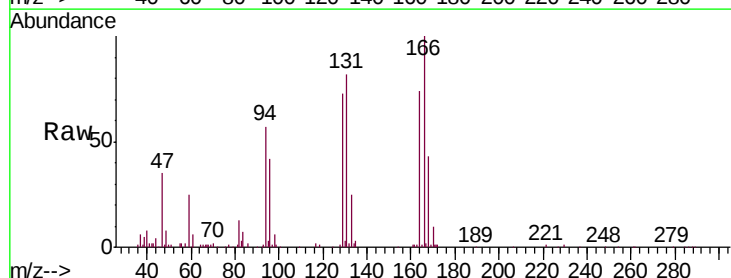
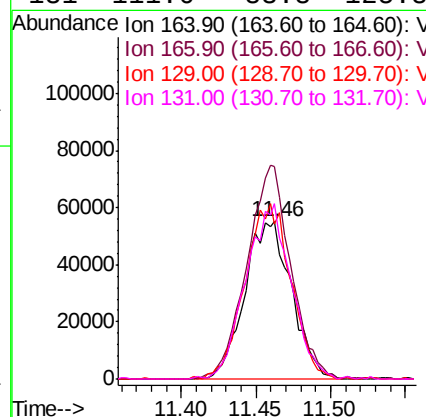
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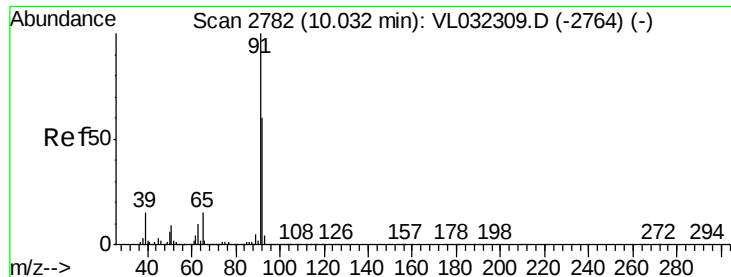
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7/30/2018 11:43:17 AM



#52
Tetrachloroethene
Concen: 1.17 ppbv m
RT: 11.46 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.6	100.0	150.0
129	98.7	87.9	131.9
131	111.6	83.8	125.8





#53

Toluene

Concen: 5.68 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion: 91 Resp: 2075464

Ion Ratio Lower Upper

91 100

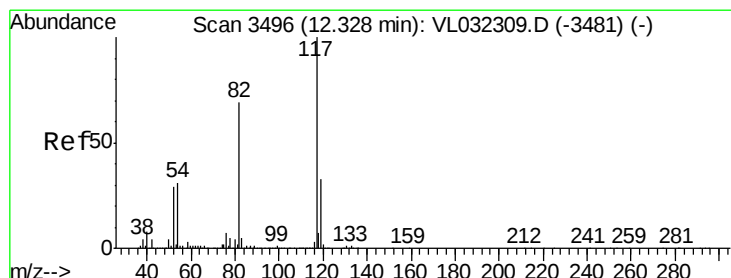
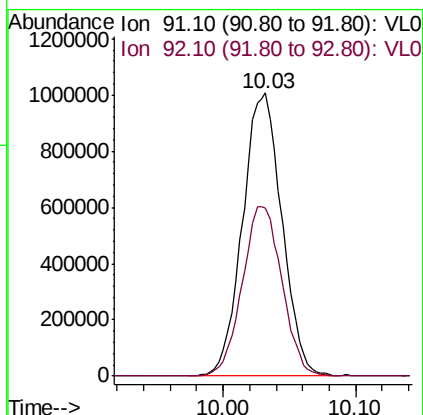
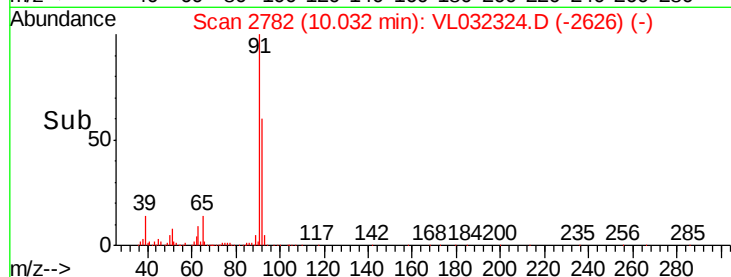
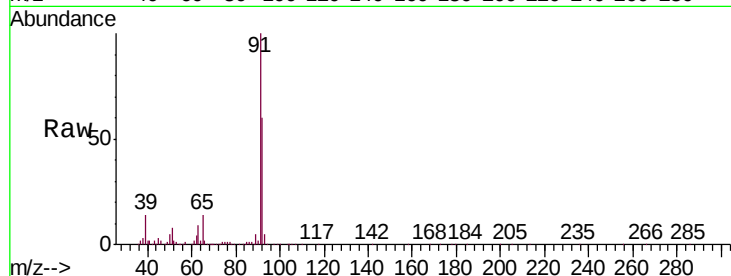
92 60.5 48.6 72.8

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.32 min Scan# 3495

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

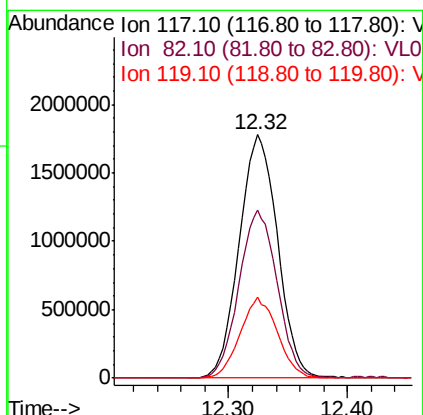
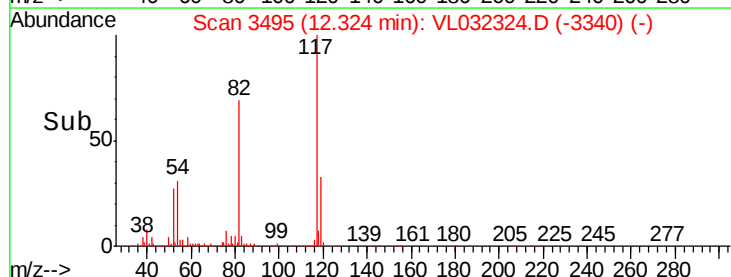
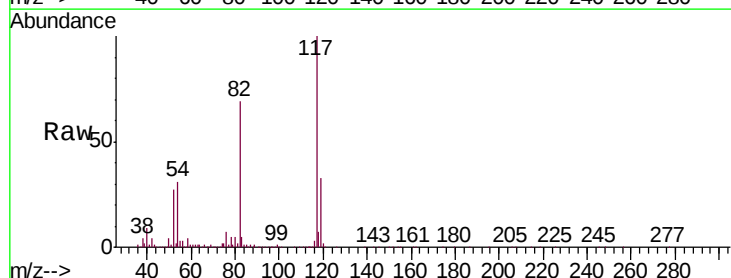
Tgt Ion: 117 Resp: 3979032

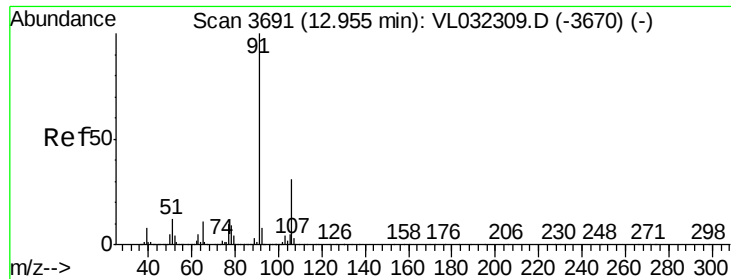
Ion Ratio Lower Upper

117 100

82 68.8 52.6 78.8

119 32.4 25.7 38.5





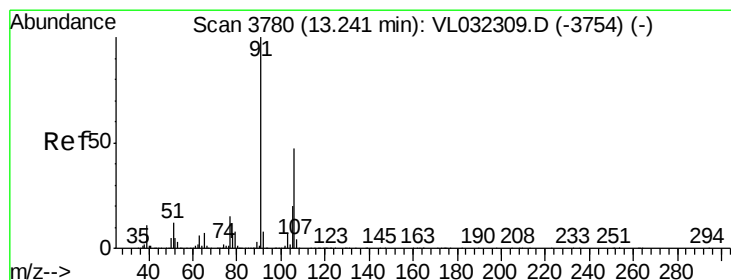
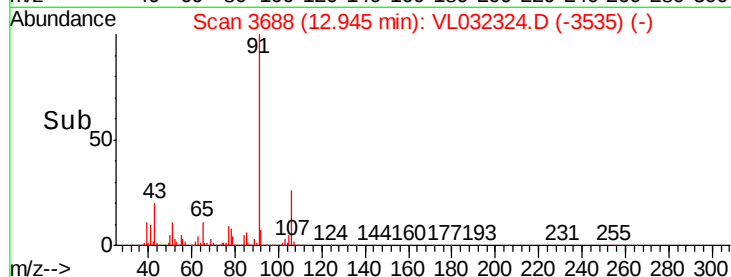
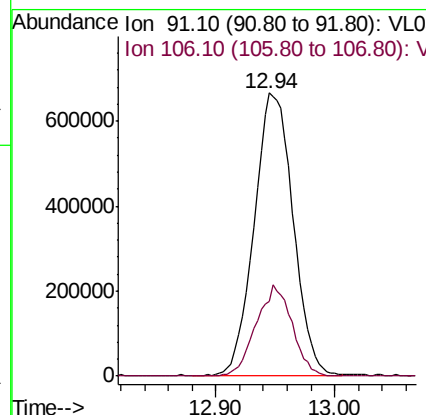
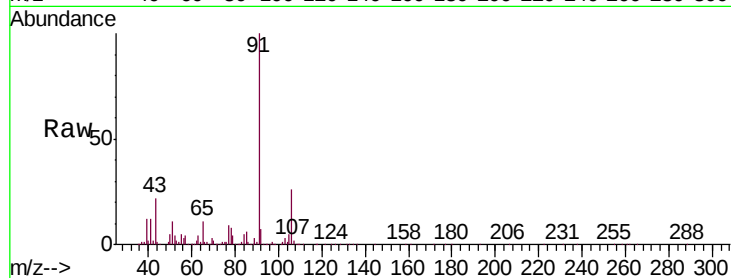
#58
Ethyl Benzene
Concen: 3.02 ppbv
RT: 12.94 min Scan# 3688
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampled :
SG-3

Tot Ion: 91 Resp: 1506436
Ion Ratio Lower Upper
91 100
106 26.4 25.0 37.4

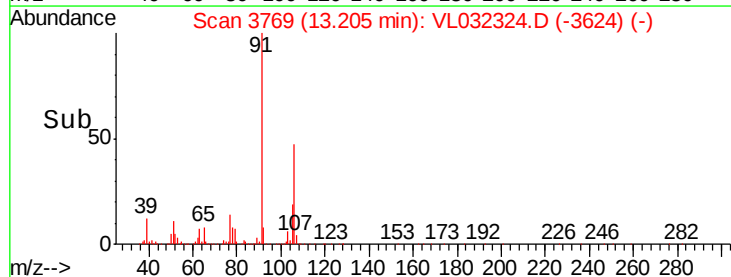
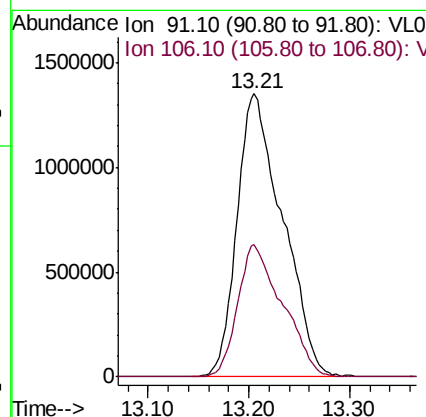
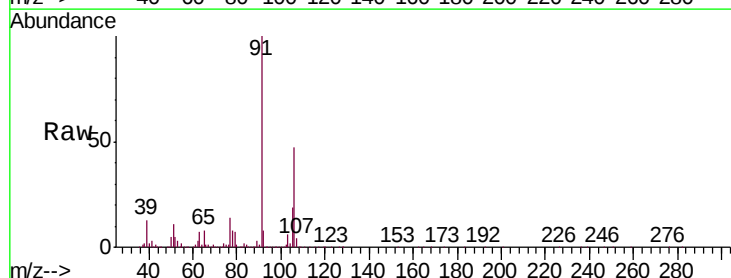
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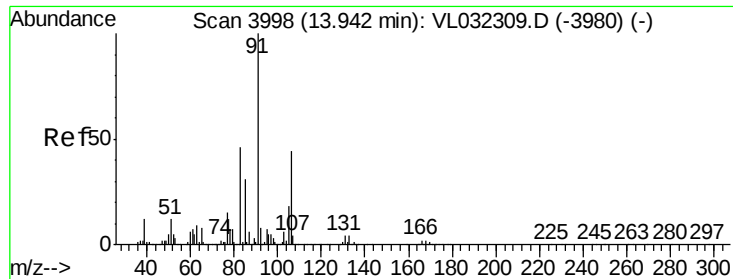
MMDadoda
7/30/2018 11:43:17 AM



#59
m/p-Xylene
Concen: 9.95 ppbv
RT: 13.21 min Scan# 3769
Delta R.T. -0.04 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 91 Resp: 4224552
Ion Ratio Lower Upper
91 100
106 46.1 36.4 54.6





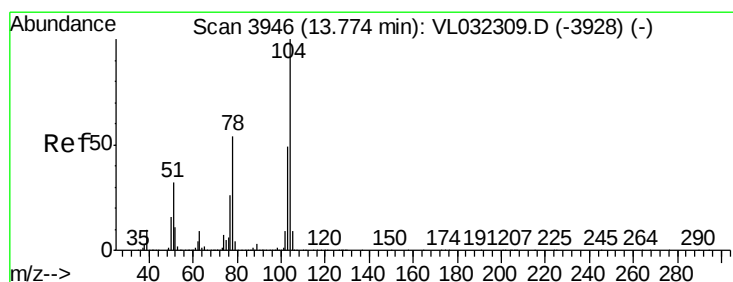
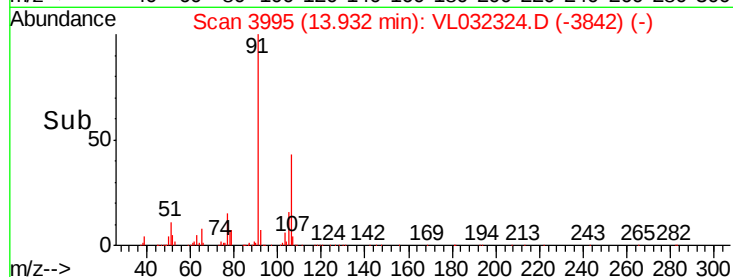
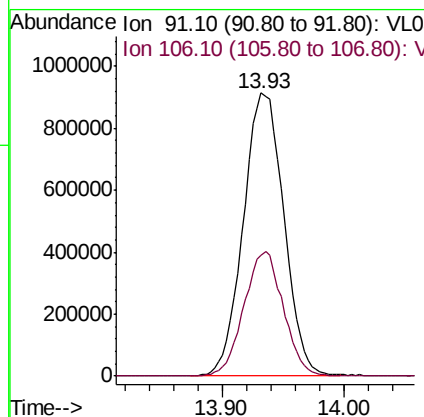
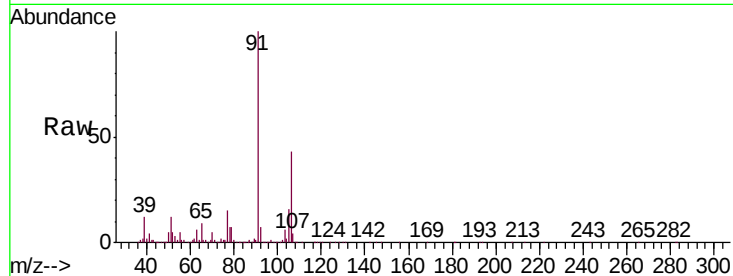
#60
o-Xylene
Concen: 5.04 ppbv
RT: 13.93 min Scan# 3995
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampled :
SG-3

Tot Ion: 91 Resp: 2098131
Ion Ratio Lower Upper
91 100
106 42.7 22.4 67.0

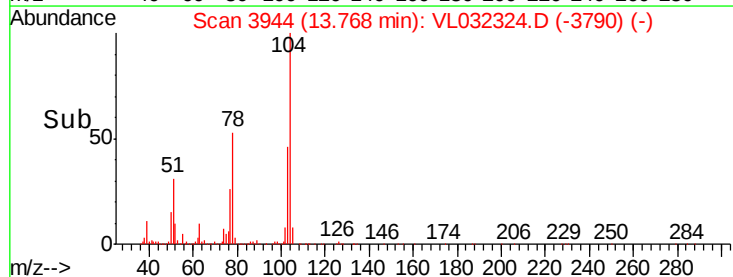
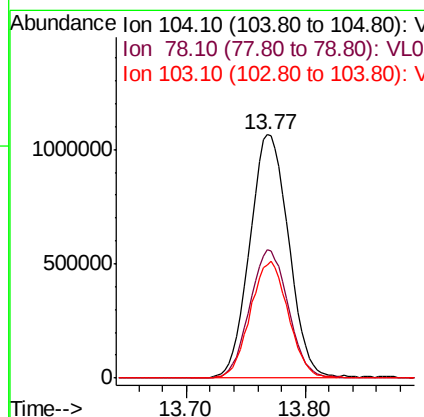
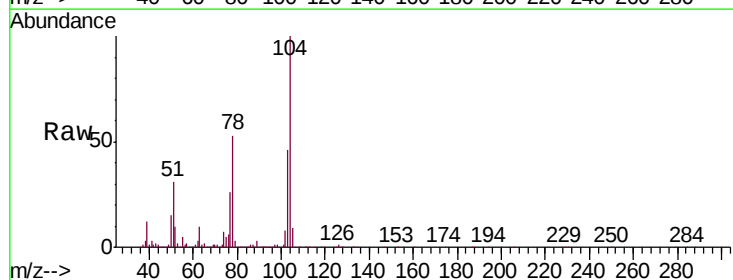
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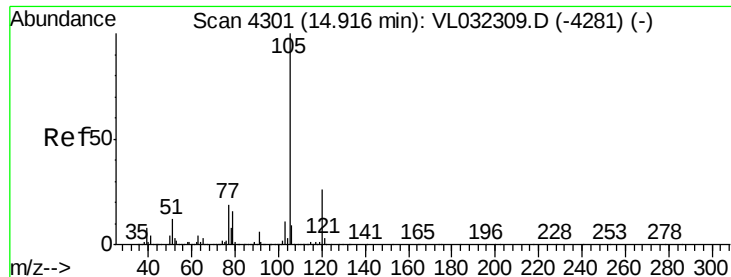
MMDadoda
7/30/2018 11:43:17 AM



#61
Styrene
Concen: 7.87 ppbv
RT: 13.77 min Scan# 3944
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 104 Resp: 2412951
Ion Ratio Lower Upper
104 100
78 52.4 42.6 63.8
103 47.1 38.0 57.0





#62

Isopropylbenzene

Concen: 2.34 ppbv

RT: 14.91 min Scan# 4300

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion:105 Resp: 1386413

Ion Ratio Lower Upper

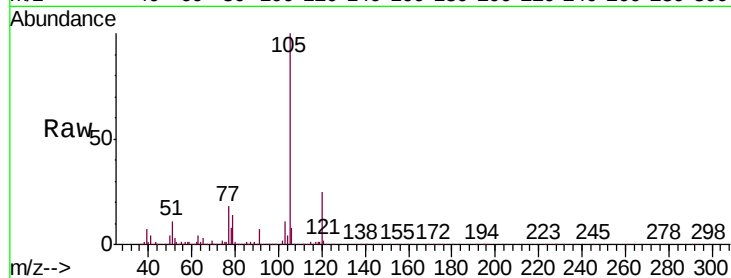
105 100

120 25.0 20.4 30.6

Manual Integrations
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MMDadoda

7/30/2018 11:43:17 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.91

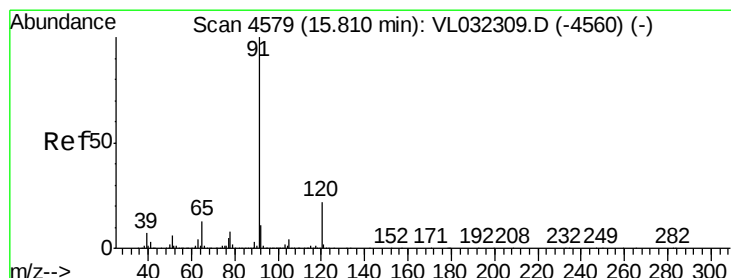
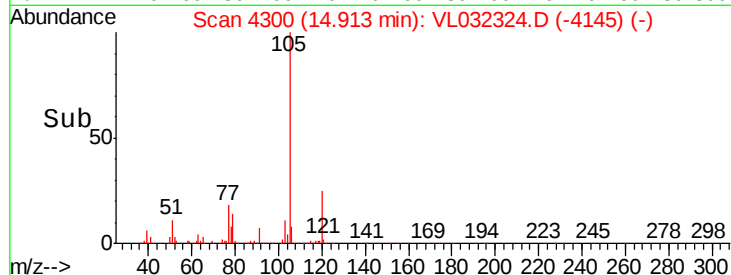
600000

400000

200000

0

Time-->



#64

n-propylbenzene

Concen: 0.53 ppbv

RT: 15.81 min Scan# 4579

Delta R.T. 0.00 min

Lab File: VL032324.D

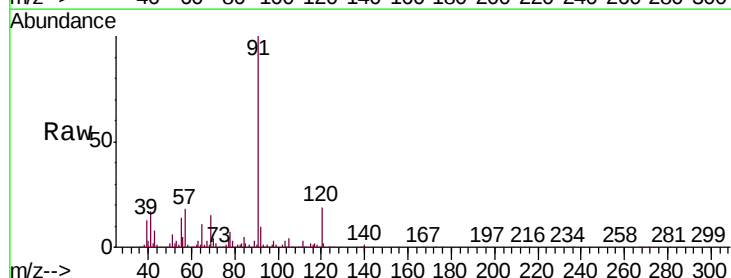
Acq: 27 Jul 2018 18:28

Tgt Ion:120 Resp: 81172

Ion Ratio Lower Upper

120 100

91 533.1 381.8 572.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

200000

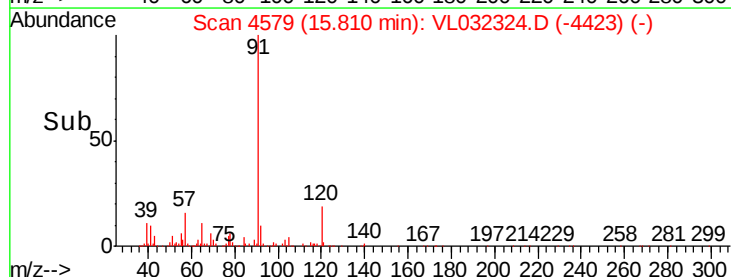
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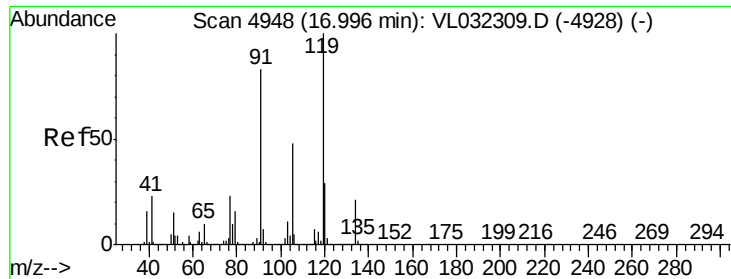
100000

50000

0

Time-->





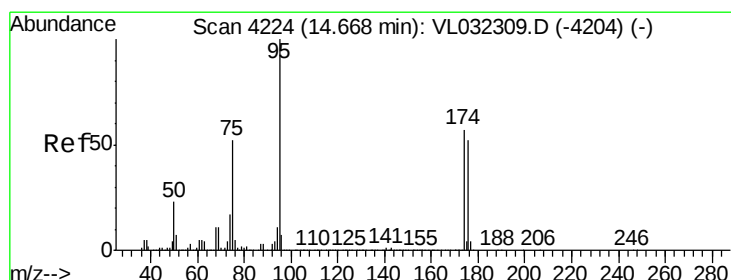
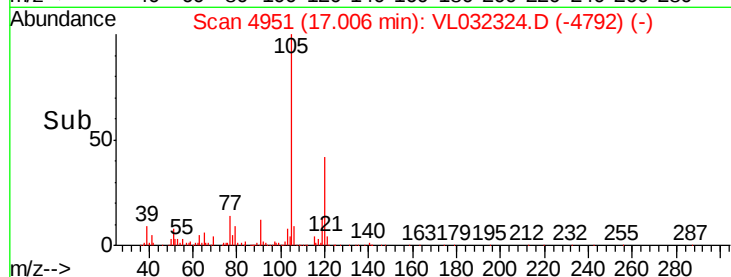
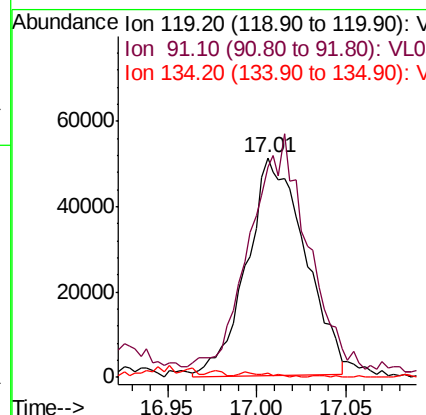
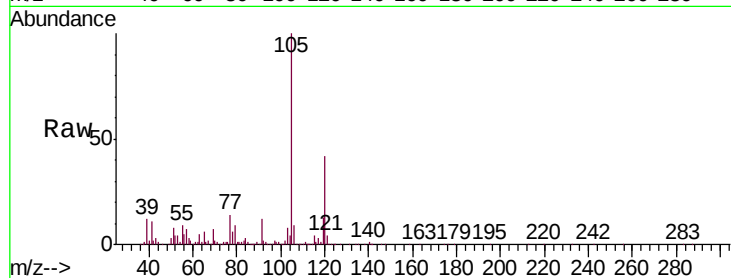
#65
tert-Butylbenzene
Concen: 0.23 ppbv
RT: 17.01 min Scan# 4951
Delta R.T. 0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampled :
SG-3

Tot Ion	Ratio	Lower	Upper
119	100		
91	113.1	67.5	101.3#
134	1.6	15.8	23.6#

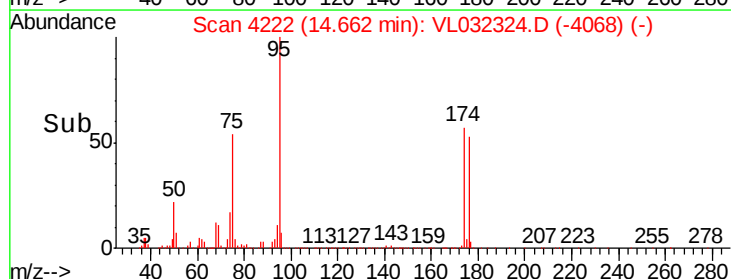
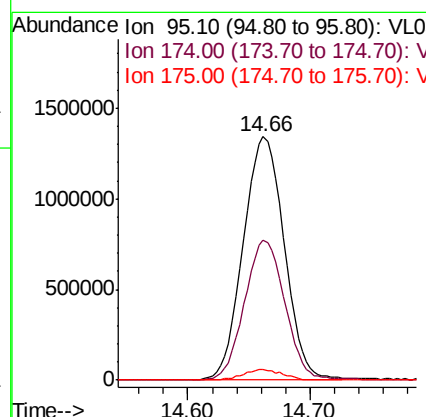
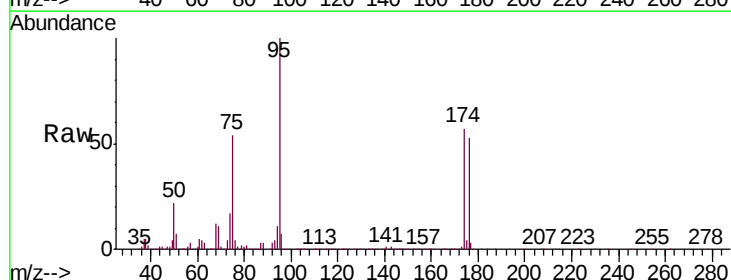
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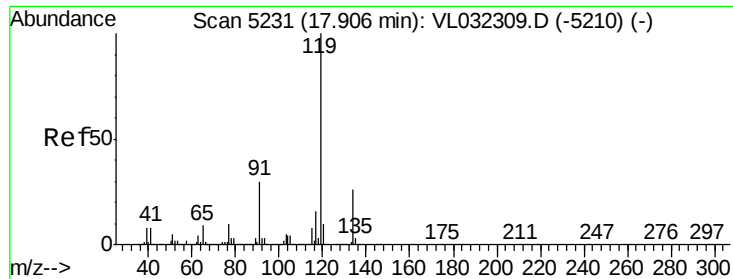
MMDadoda
7/30/2018 11:43:17 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.09 ppbv
RT: 14.66 min Scan# 4222
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Lower	Upper
95	100		
174	57.3	45.5	68.3
175	4.3	3.3	4.9





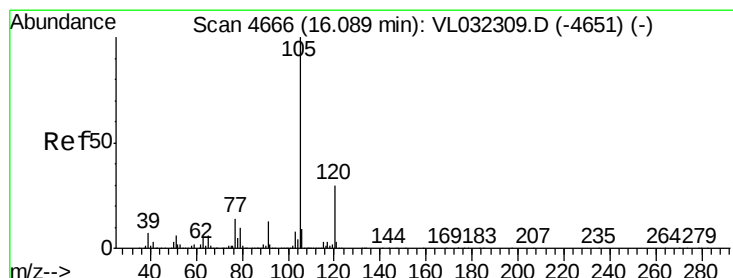
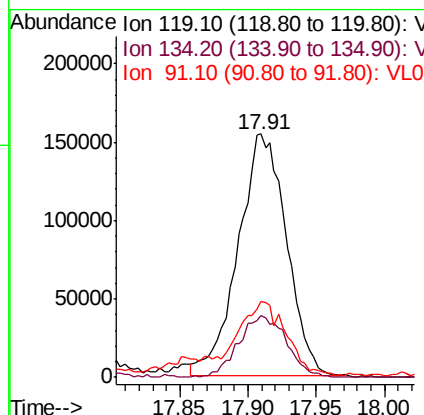
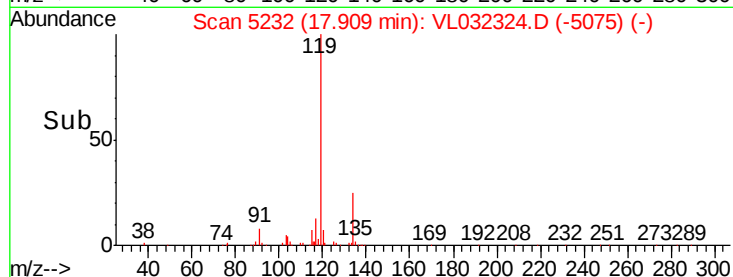
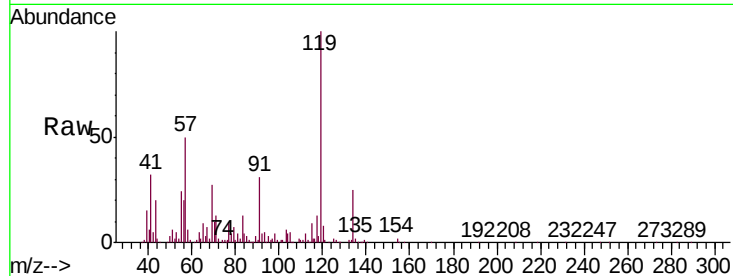
#69
p-Isopropyltoluene
Concen: 0.65 ppbv
RT: 17.91 min Scan# 5232
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
Client Sampled :
SG-3

Tot Ion	Ratio	Resp	Lower	Upper
119	100	379580		
134	25.3	20.3	30.5	
91	37.2	23.8	35.6	

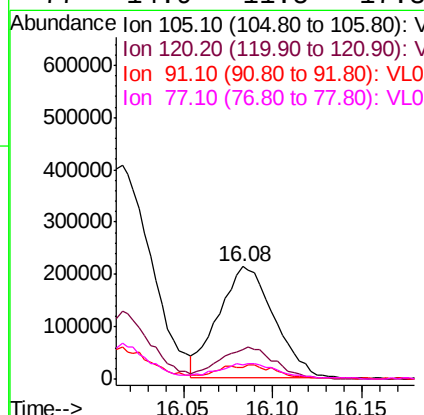
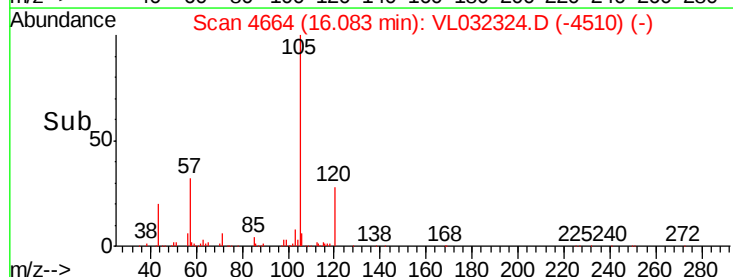
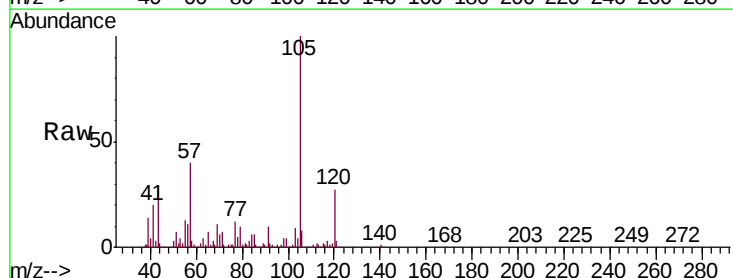
Manual Integrations
APPROVED

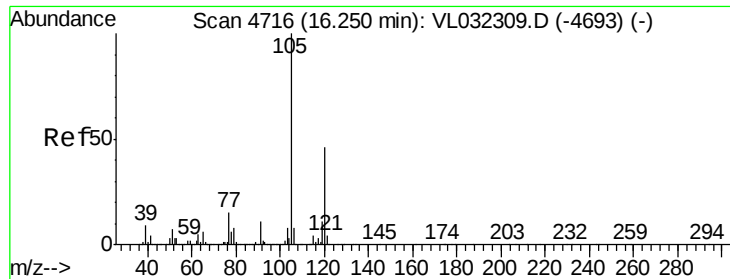
MMDadoda
7/30/2018 11:43:17 AM



#72
4-Ethyltoluene
Concen: 0.99 ppbv
RT: 16.08 min Scan# 4664
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	464265		
120	29.9	23.1	34.7	
91	12.1	10.0	15.0	
77	14.9	11.5	17.3	





#73

1,3,5-Trimethylbenzene

Concen: 1.11 ppbv

RT: 16.25 min Scan# 4715

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampled :

SG-3

Tot Ion:105 Resp: 510844

Ion Ratio Lower Upper

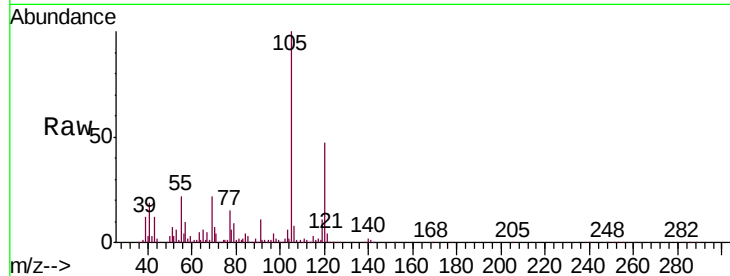
105 100

120 46.9 36.5 54.7

Manual Integrations
APPROVED

MMDadoda

7/30/2018 11:43:17 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.25

250000

200000

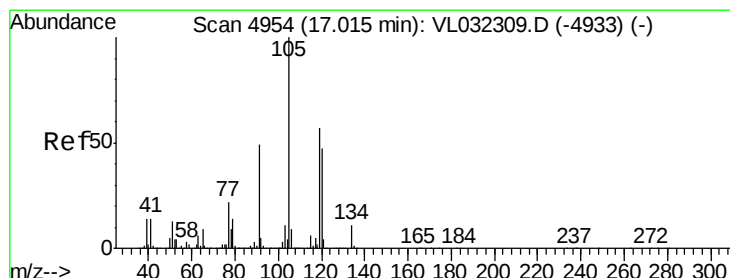
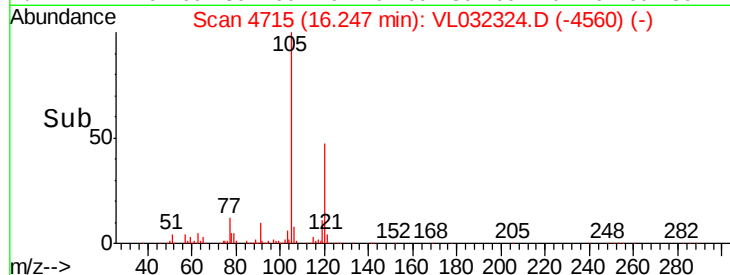
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.20 ppbv

RT: 17.01 min Scan# 4952

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Tgt Ion:105 Resp: 1064121

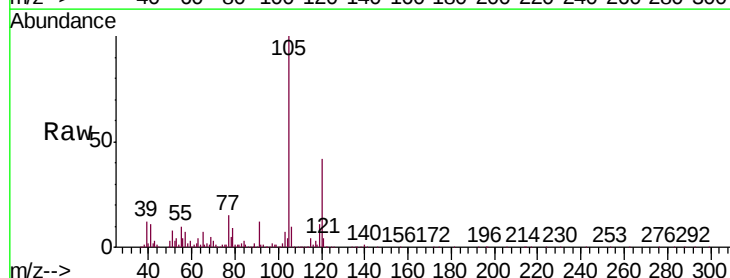
Ion Ratio Lower Upper

105 100

120 41.9 37.8 56.6

91 11.2 39.4 59.0#

77 14.8 17.6 26.4#



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

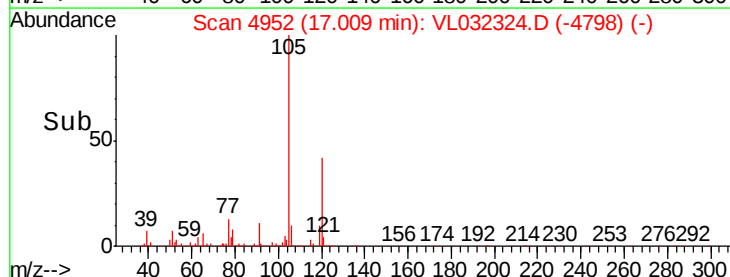
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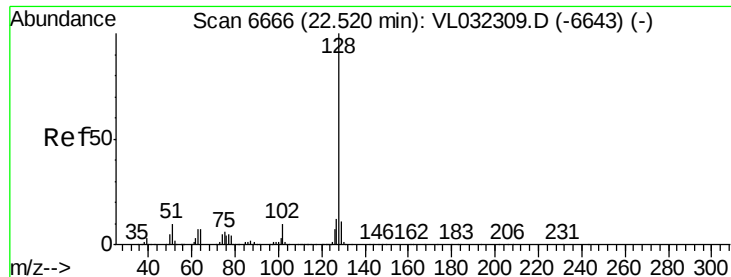
400000

200000

0

Time-->





#79

Naphthalene

Concen: 0.56 ppbv

RT: 22.52 min Scan# 6665

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

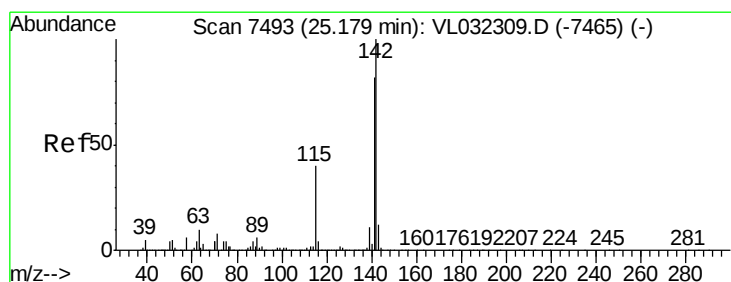
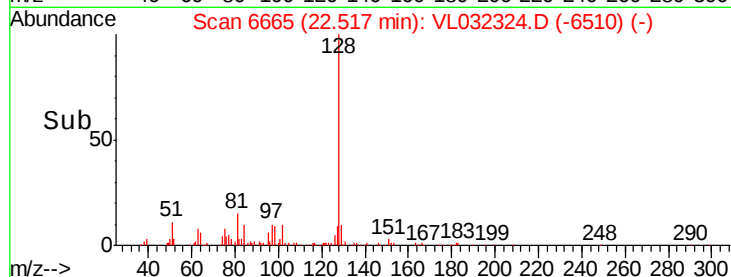
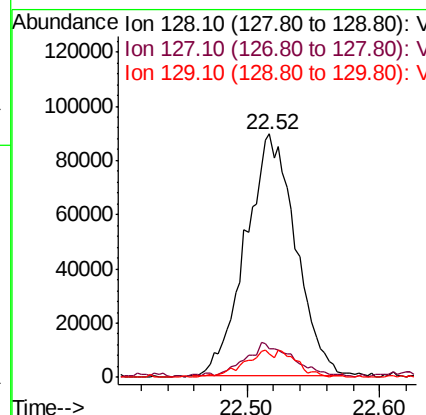
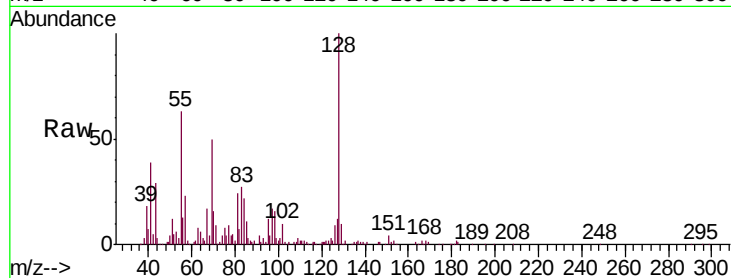
ClientSampleId :

SG-3

Tot Ion:	128	Resp:	234368
Ion Ratio	Lower	Upper	
128	100		
127	10.7	9.9	14.9
129	9.5	8.8	13.2

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.14 ppbv

RT: 25.18 min Scan# 7493

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Tgt Ion:	142	Resp:	23119
Ion Ratio	Lower	Upper	
142	100		
141	99.4	66.7	100.1
115	53.9	31.1	46.7#

