

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032349.D
 Acq On : 15 Aug 2018 10:38
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

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 8/17/2018 2:06:22 PM

Quant Time: Aug 15 12:57:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 2
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2456238	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4815985	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.31	117	4768167	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3550340	9.59	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	425457	1.44	ppbv	98
3) Chlorodifluoromethane	3.05	51	459195	1.87	ppbv	100
4) Chloromethane	3.21	50	264121	1.78	ppbv	99
5) Vinyl Chloride	3.33	62	245810	1.82	ppbv	98
6) Bromomethane	3.56	94	139240	1.88	ppbv	99
7) Chloroethane	3.64	64	91253	1.90	ppbv	95
8) Dichlorotetrafluoroethane	3.26	85	571167	1.91	ppbv	99
9) Propene	3.07	41	196339	1.78	ppbv	99
10) Heptane	8.31	43	602863	1.56	ppbv	97
11) Trichlorofluoromethane	4.05	101	548811	1.94	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.60	101	374243	1.94	ppbv	98
13) Ethanol	3.70	45	53962	1.70	ppbv	96
14) Bromoethene	3.83	108	153789	1.81	ppbv	96
15) Acetone	3.95	43	481159	2.08	ppbv	98
16) 1,3-Butadiene	3.40	39	195242	1.63	ppbv	93
17) tert-Butyl alcohol	4.42	59	81049	1.10	ppbv	99
18) 1,1-Dichloroethene	4.40	96	176431	1.97	ppbv	97
19) Isopropyl Alcohol	4.07	45	321301	2.08	ppbv #	98
20) Methylene Chloride	4.46	84	176693	1.90	ppbv	99
21) Allyl Chloride	4.52	41	300721	1.90	ppbv	99
22) trans-1,2-Dichloroethene	5.01	96	181451	2.10	ppbv	98
23) Vinyl Acetate	5.21	43	827894	1.99	ppbv	99
24) 1,1-Dichloroethane	5.14	63	626720	2.10	ppbv	98
25) Ethyl Acetate	5.83	43	1046426	2.01	ppbv	99
26) Hexane	5.84	57	474633	2.02	ppbv	99
27) Carbon Disulfide	4.67	76	409736	1.92	ppbv	95
28) Methyl tert-Butyl Ether	5.17	73	648713	2.04	ppbv	100
29) Chloroform	5.90	83	636807	1.86	ppbv	94
30) Cyclohexane	7.31	84	334981	1.83	ppbv	85
31) cis-1,2-Dichloroethene	5.70	61	445194	2.04	ppbv	95
32) 1,1,1-Trichloroethane	6.68	97	627443	2.07	ppbv	98
34) 2-Butanone	5.39	43	705304	2.26	ppbv	99
35) Carbon Tetrachloride	7.20	117	613103	2.24	ppbv	96
36) Benzene	7.06	78	869900	2.05	ppbv	99
37) 1,2-Dichloroethane	6.47	62	513839	2.09	ppbv	99
38) Trichloroethene	8.02	130	303653	1.85	ppbv	99
39) 1,2-Dichloropropane	7.80	63	349459	1.64	ppbv	93
40) 1,4-Dioxane	8.03	88	112260m	1.79	ppbv	
41) Tetrahydrofuran	6.22	42	383232	2.17	ppbv	100
42) Bromodichloromethane	7.98	83	675066	1.70	ppbv	97
43) Methyl Methacrylate	8.20	69	345020	1.69	ppbv	98

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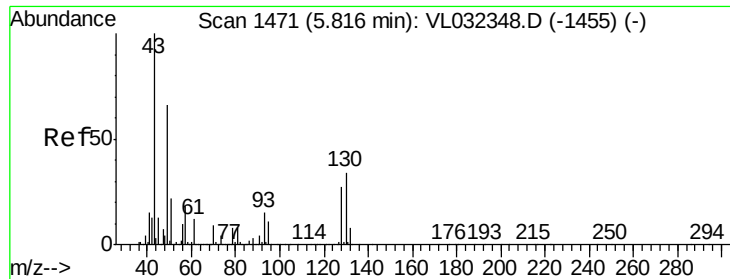
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	1616674	1.76	ppbv	99
45) t-1,3-Dichloropropene	9.48	75	434870	1.84	ppbv	96
46) cis-1,3-Dichloropropene	8.90	75	552092	1.91	ppbv	93
47) 1,1,2-Trichloroethane	9.68	97	390876	1.88	ppbv	96
48) Dibromochloromethane	10.52	129	524347	1.71	ppbv	100
49) Bromoform	13.27	173	449198	1.78	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	1057379	1.92	ppbv	99
51) 2-Hexanone	10.34	43	679009	1.62	ppbv #	100
52) Tetrachloroethene	11.44	164	267539	1.87	ppbv	93
53) Toluene	10.01	91	1015392	2.00	ppbv	99
54) 1,2-Dibromoethane	10.82	107	517603	1.75	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.35	131	426572	2.17	ppbv #	1
57) Chlorobenzene	12.37	112	774293	2.09	ppbv	98
58) Ethyl Benzene	12.93	91	1267147	2.12	ppbv	96
59) m/p-Xylene	13.22	91	2132309m	4.19	ppbv	
60) o-Xylene	13.92	91	1054853	2.11	ppbv	99
61) Styrene	13.75	104	747097	2.03	ppbv	99
62) Isopropylbenzene	14.89	105	1491840	2.10	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.90	83	841837	2.07	ppbv	100
64) n-propylbenzene	15.79	120	382058	2.07	ppbv	93
65) tert-Butylbenzene	16.98	119	1343354	2.24	ppbv	99
66) Benzyl Chloride	17.22	91	761425	2.13	ppbv	97
67) sec-Butylbenzene	17.53	105	1973079	2.20	ppbv	99
69) p-Isopropyltoluene	17.88	119	1539037	2.21	ppbv	100
70) n-Butylbenzene	18.78	91	1651829	2.06	ppbv	97
71) 2-Chlorotoluene	15.69	91	1166354	2.10	ppbv	99
72) 4-Ethyltoluene	16.07	105	1199879	2.15	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	1142612	2.08	ppbv	97
74) 1,2,4-Trimethylbenzene	16.99	105	1234436	2.13	ppbv #	88
75) 1,3-Dichlorobenzene	17.23	146	721851	2.15	ppbv	97
76) 1,4-Dichlorobenzene	17.37	146	693571	2.15	ppbv	99
77) 1,2-Dichlorobenzene	18.05	146	703872	2.13	ppbv	100
78) Hexachloro-1,3-Butadiene	23.60	225	218627	1.88	ppbv	98
79) Naphthalene	22.49	128	786383	1.56	ppbv	98
80) Naphthalene, 2-methyl-	25.17	142	88659	0.44	ppbv	98
81) 1,2,4-Trichlorobenzene	22.22	180	439552	1.75	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.02 min

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MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 2456238

Ion Ratio Lower Upper

49 100

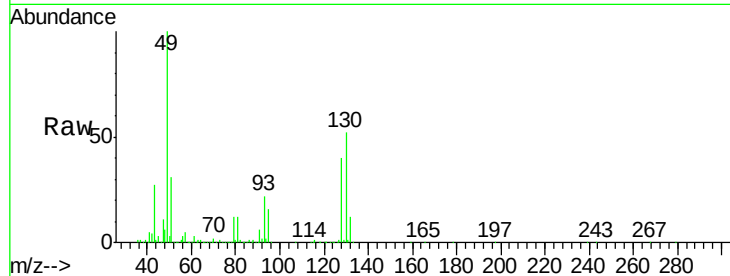
128 40.7 20.2 60.6

130 51.6 25.8 77.3

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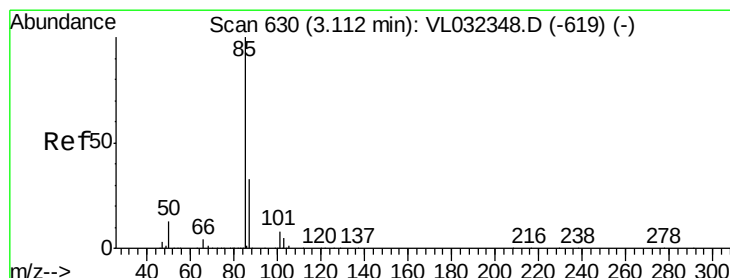
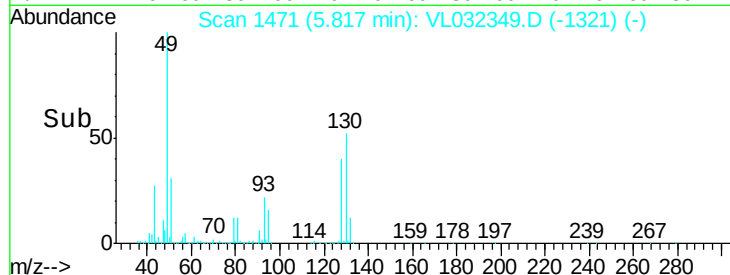
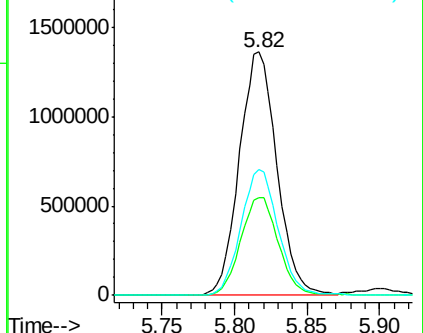
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.44 ppbv

RT: 3.11 min Scan# 630

Delta R.T. -0.01 min

Lab File: VL032349.D

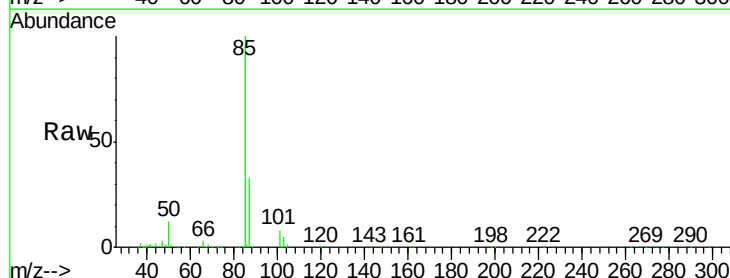
Acq: 15 Aug 2018 10:38

Tgt Ion: 85 Resp: 425457

Ion Ratio Lower Upper

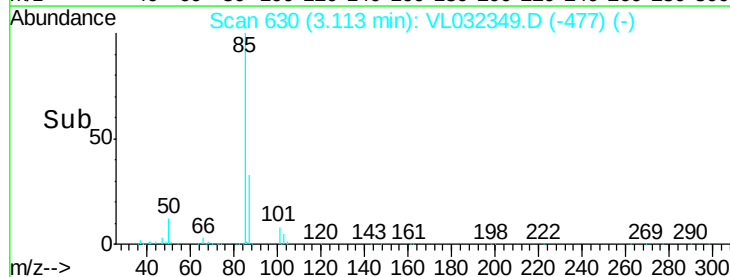
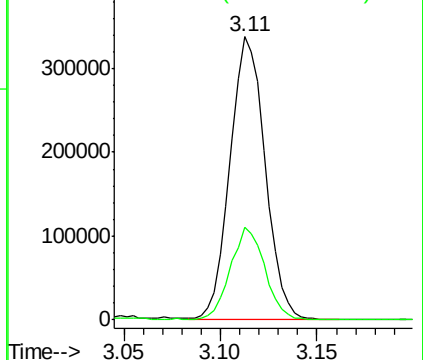
85 100

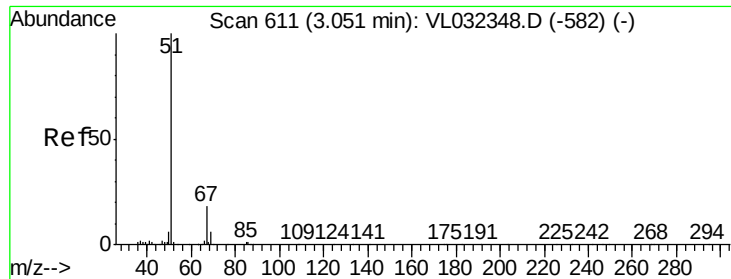
87 32.5 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





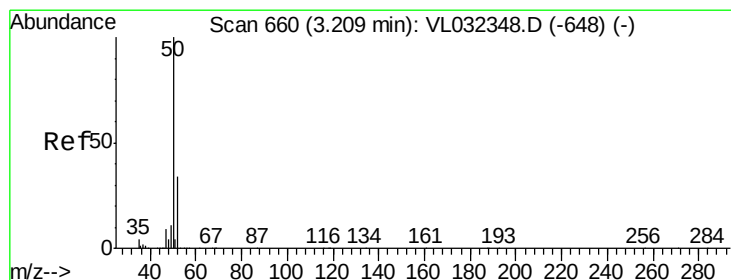
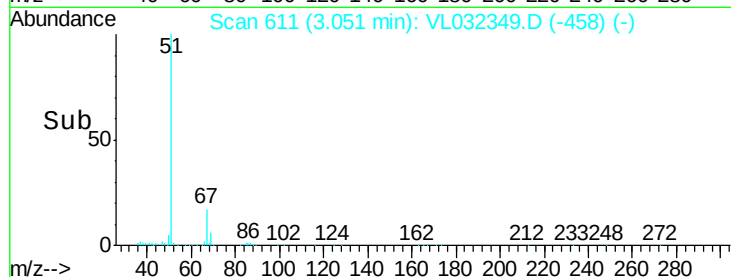
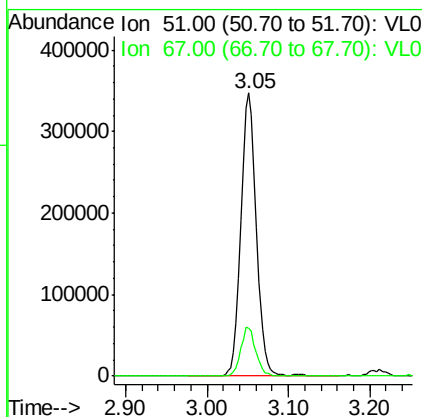
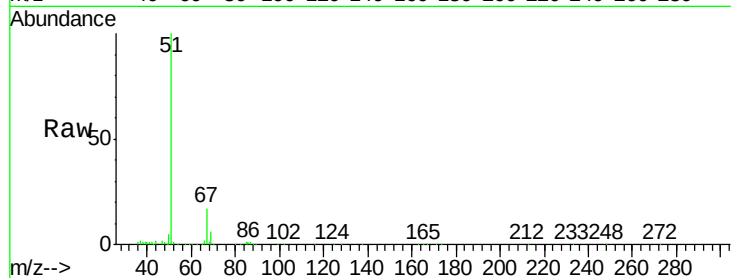
#3
Chlorodifluoromethane
Concen: 1.87 ppbv
RT: 3.05 min Scan# 611
Delta R.T. -0.01 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
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VSTDIC002

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.9	13.5	20.3

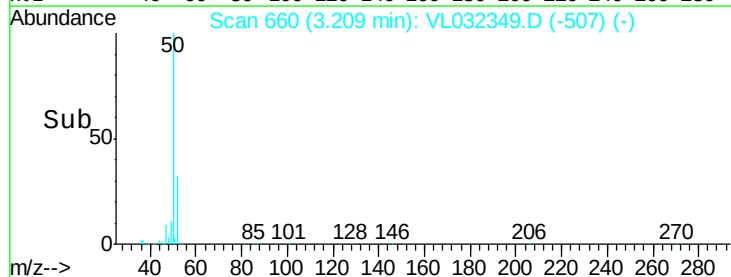
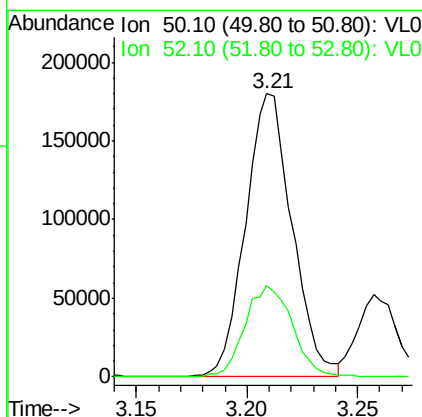
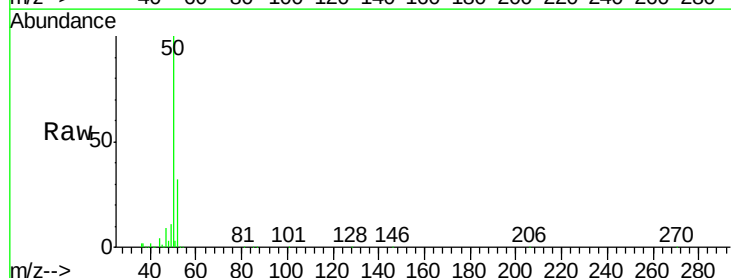
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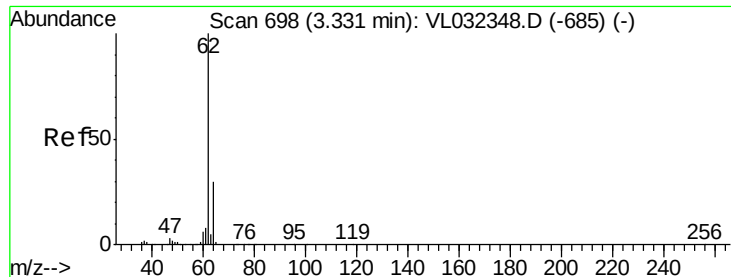
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#4
Chloromethane
Concen: 1.78 ppbv
RT: 3.21 min Scan# 660
Delta R.T. -0.01 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.2	39.4





#5

Vinyl Chloride

Concen: 1.82 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 245810

Ion Ratio Lower Upper

62 100

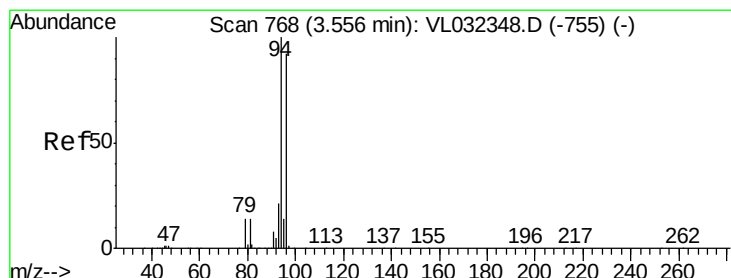
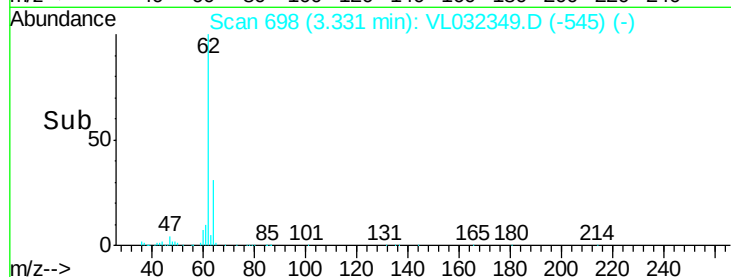
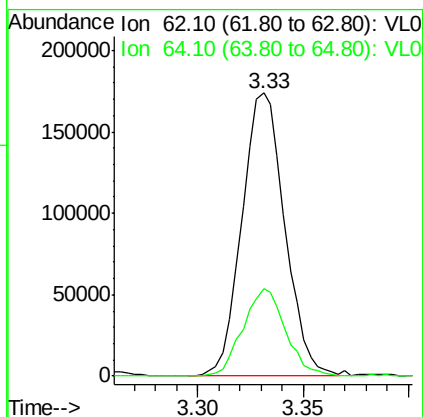
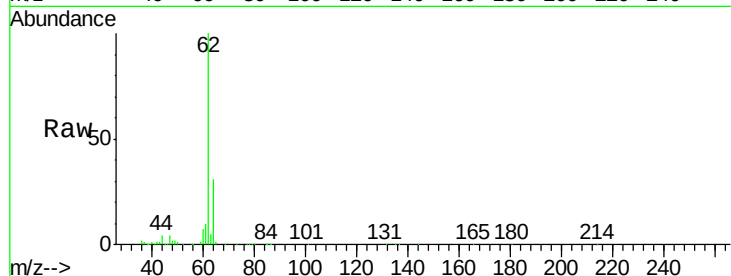
64 31.0 24.1 36.1

Manual Integrations

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#6

Bromomethane

Concen: 1.88 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.01 min

Lab File: VL032349.D

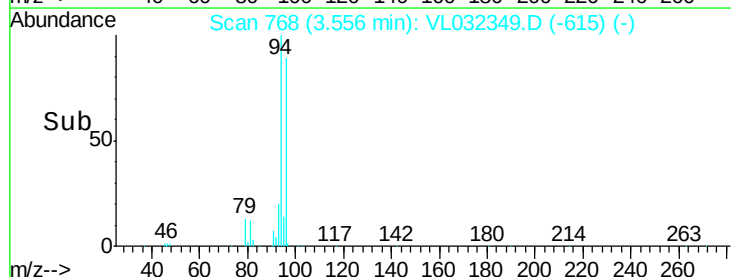
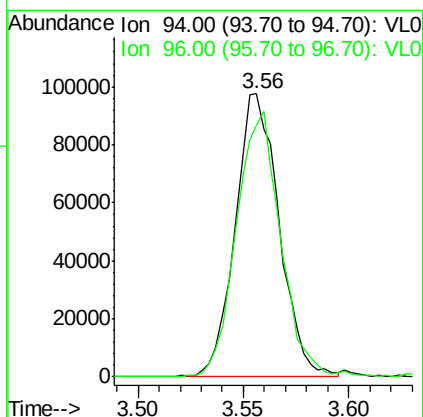
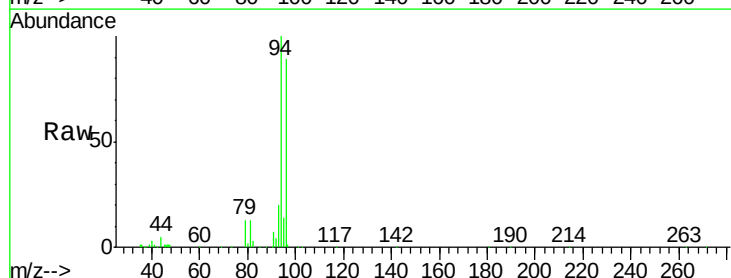
Acq: 15 Aug 2018 10:38

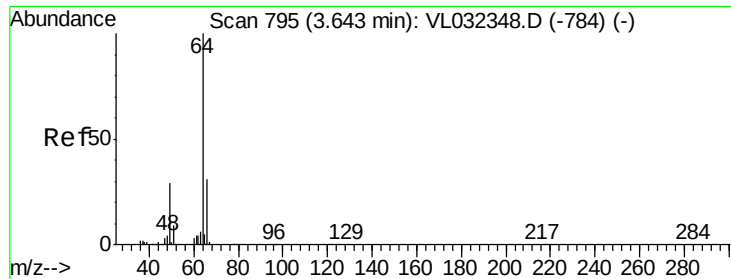
Tgt Ion: 94 Resp: 139240

Ion Ratio Lower Upper

94 100

96 88.6 70.2 105.4





#7

Chloroethane

Concen: 1.90 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 64 Resp: 91253

Ion Ratio Lower Upper

64 100

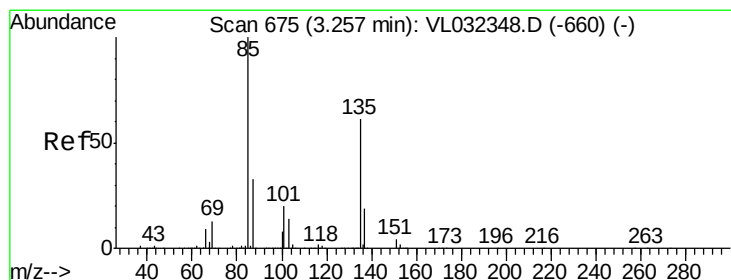
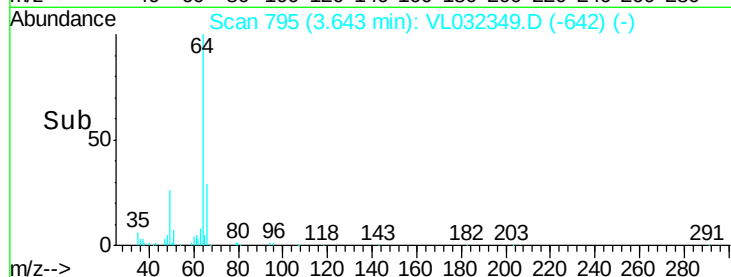
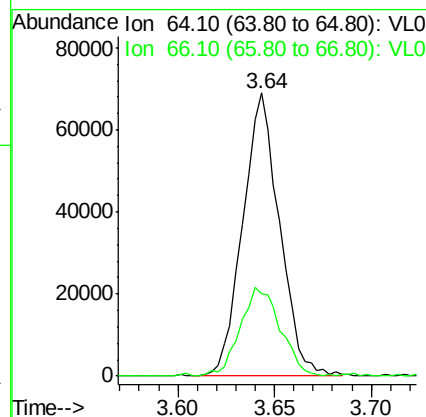
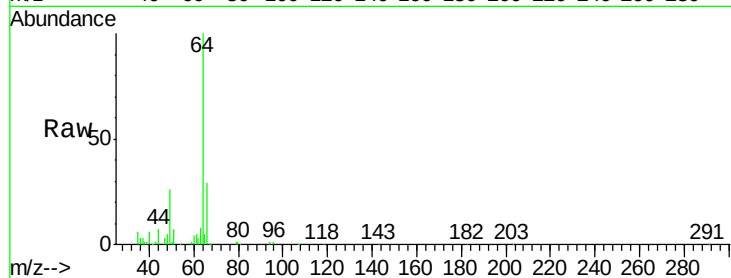
66 29.3 25.7 38.5

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#8

Dichlorotetrafluoroethane

Concen: 1.91 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.01 min

Lab File: VL032349.D

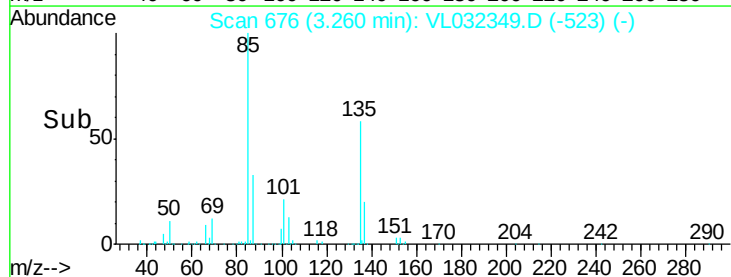
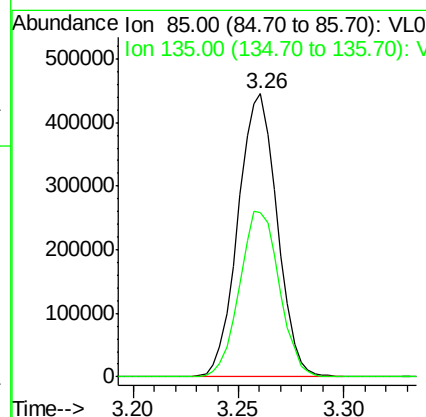
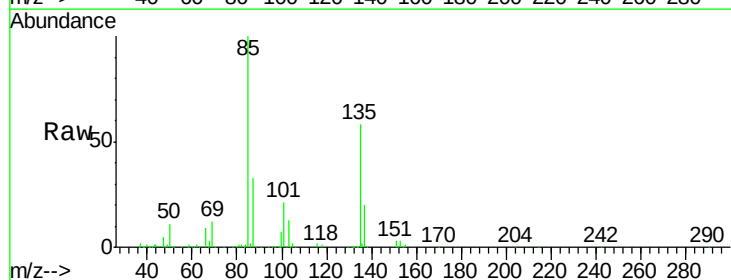
Acq: 15 Aug 2018 10:38

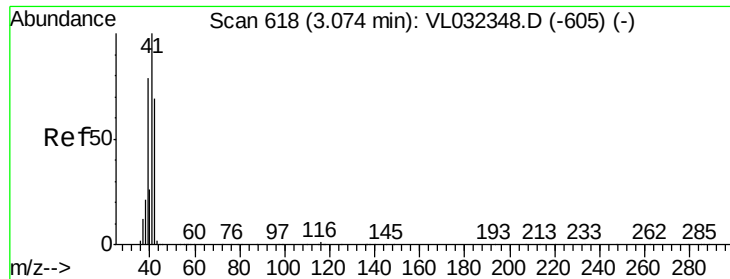
Tgt Ion: 85 Resp: 571167

Ion Ratio Lower Upper

85 100

135 60.1 48.7 73.1





#9

Propene

Concen: 1.78 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 196339

Ion Ratio Lower Upper

41 100

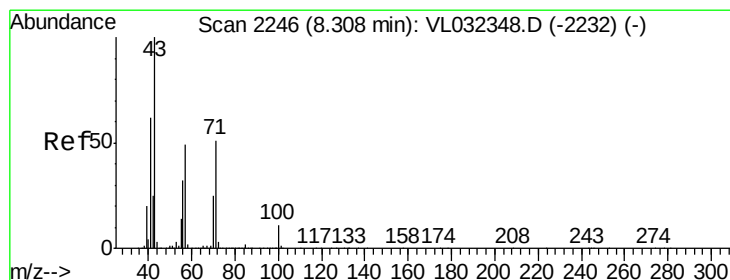
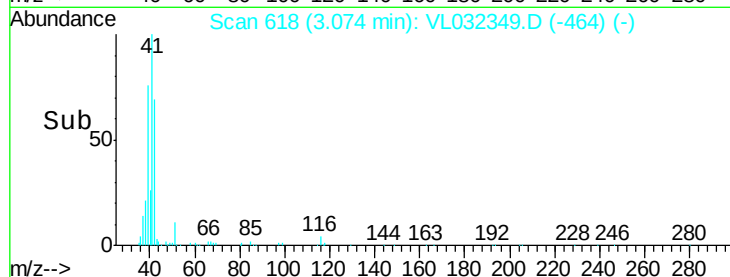
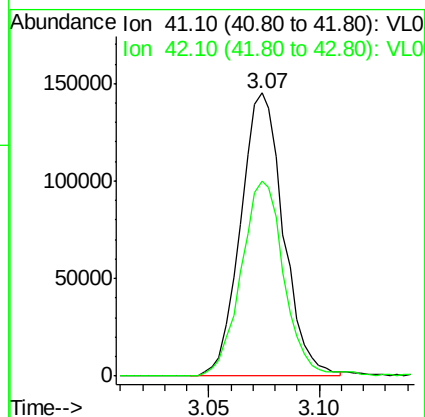
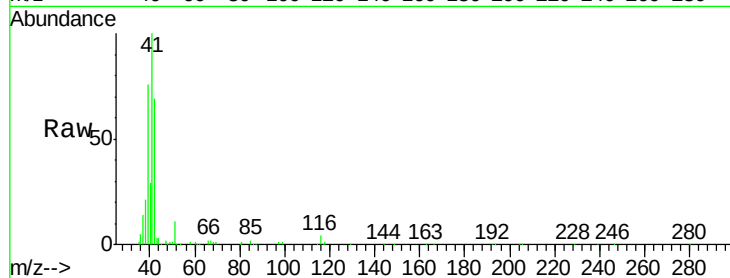
42 69.8 56.8 85.2

Manual Integrations

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#10

Heptane

Concen: 1.56 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. -0.02 min

Lab File: VL032349.D

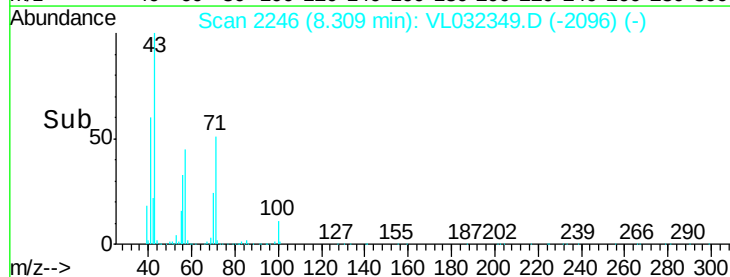
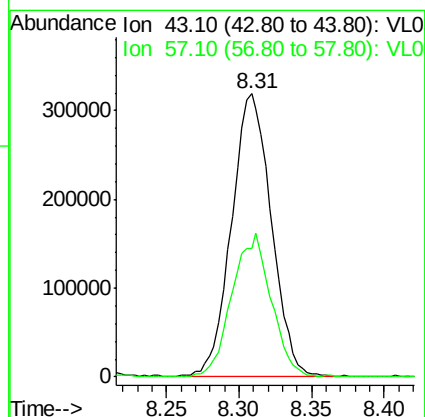
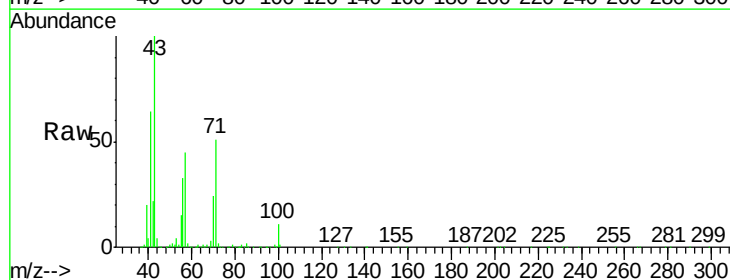
Acq: 15 Aug 2018 10:38

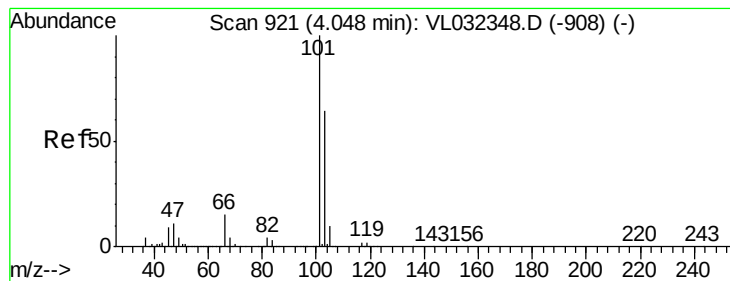
Tgt Ion: 43 Resp: 602863

Ion Ratio Lower Upper

43 100

57 50.7 39.0 58.4





#11

Trichlorofluoromethane

Concen: 1.94 ppbv

RT: 4.05 min Scan# 922

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion:101 Resp: 548811

Ion Ratio Lower Upper

101 100

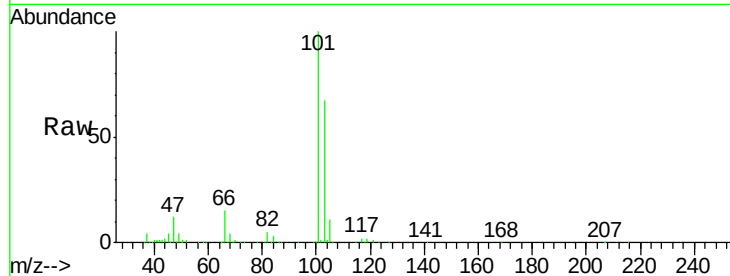
103 67.3 52.6 78.8

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.05

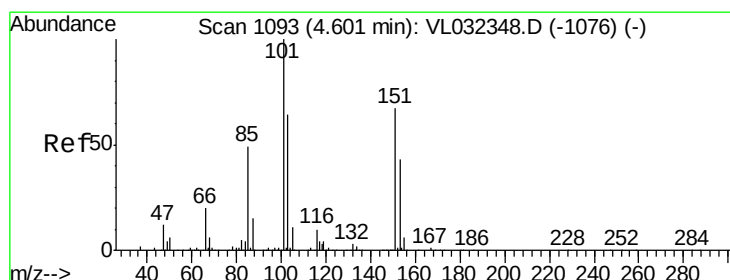
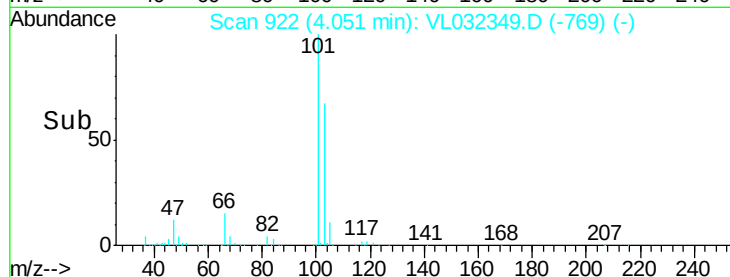
300000

200000

100000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.94 ppbv

RT: 4.60 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VL032349.D

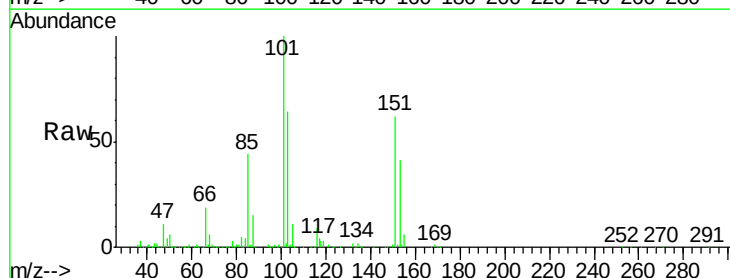
Acq: 15 Aug 2018 10:38

Tgt Ion:101 Resp: 374243

Ion Ratio Lower Upper

101 100

151 63.9 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.60

250000

200000

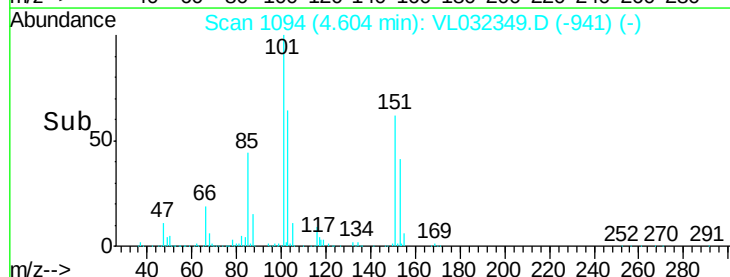
150000

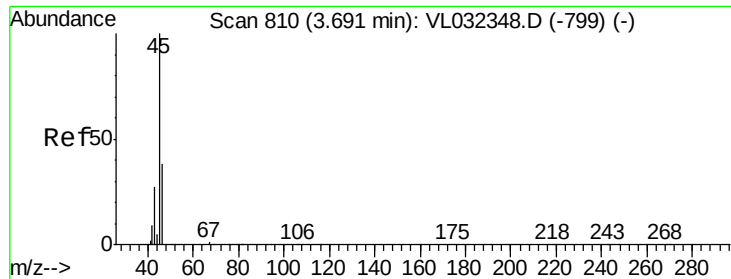
100000

50000

0

Time-->





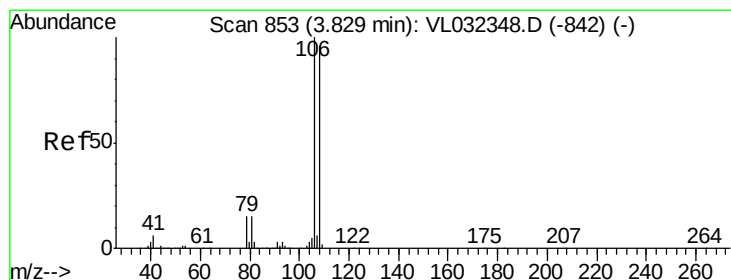
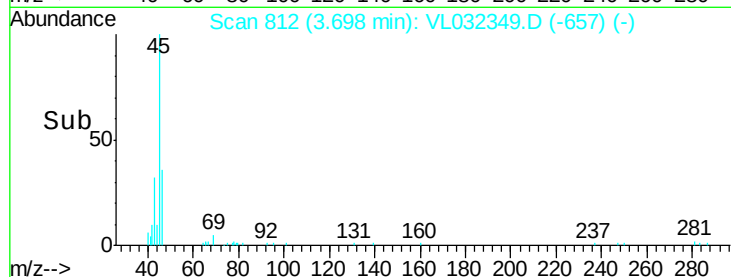
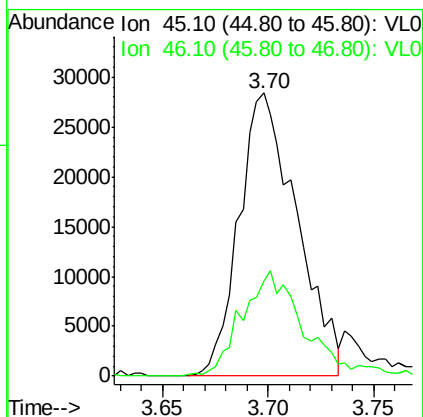
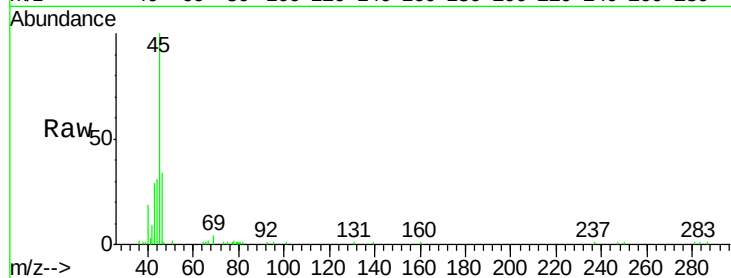
#13
Ethanol
Concen: 1.70 ppbv
RT: 3.70 min Scan# 812
Delta R.T. -0.00 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
46	40.4	15.2	60.6

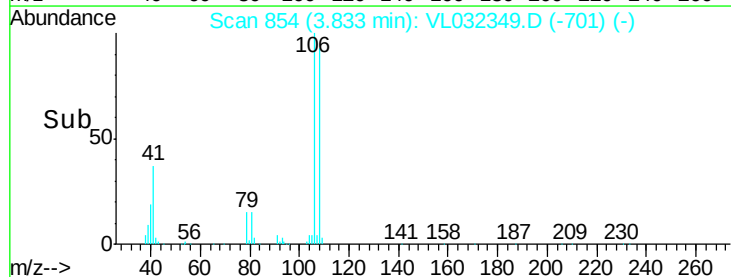
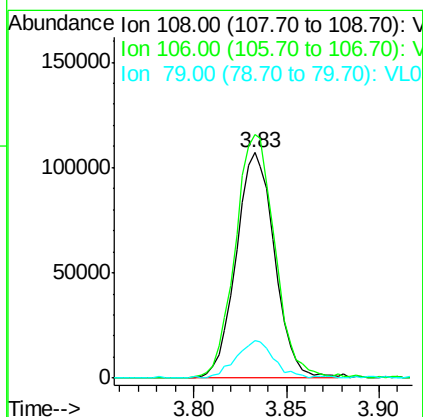
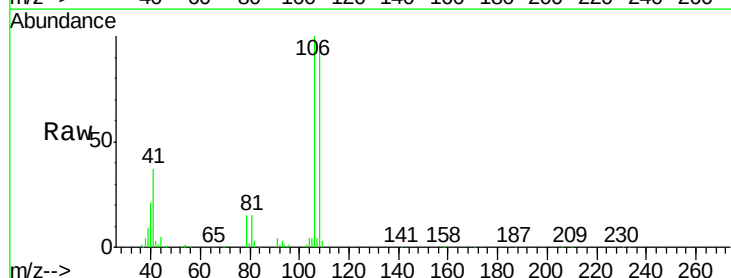
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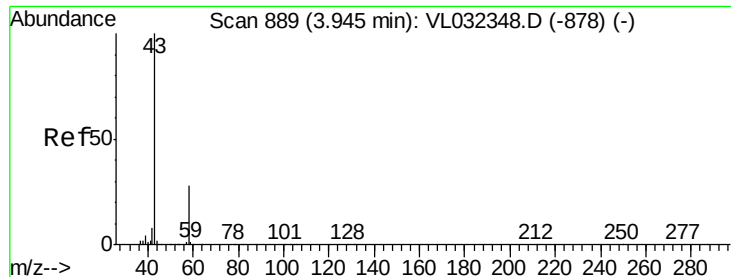
MMDadoda
8/17/2018 2:06:22 PM



#14
Bromoethene
Concen: 1.81 ppbv
RT: 3.83 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
108	100		
106	112.6	86.0	129.0
79	16.8	12.8	19.2





#15

Acetone

Concen: 2.08 ppbv

RT: 3.95 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 481159

Ion Ratio Lower Upper

43 100

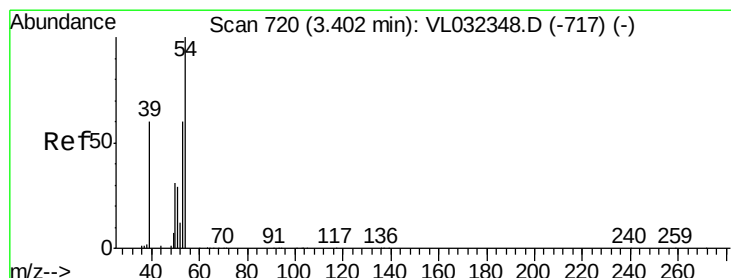
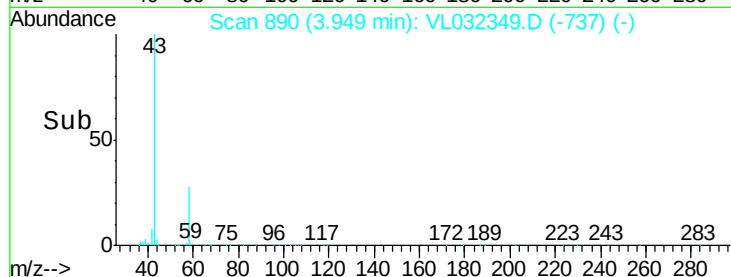
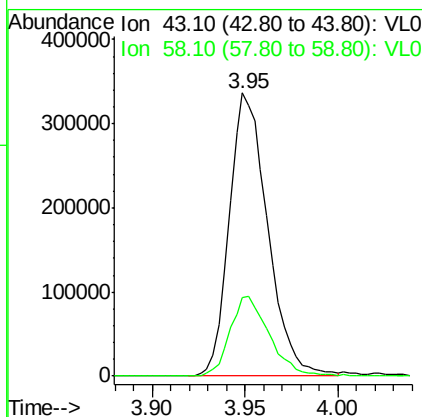
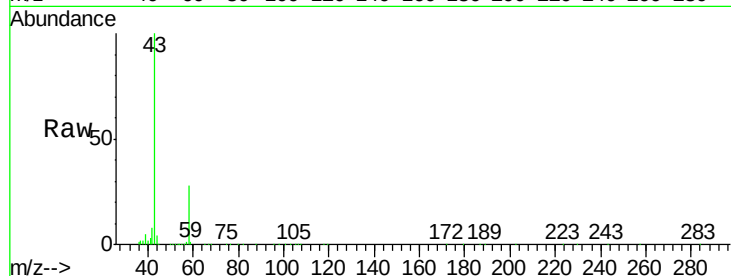
58 29.3 22.5 33.7

Manual Integrations

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#16

1,3-Butadiene

Concen: 1.63 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.01 min

Lab File: VL032349.D

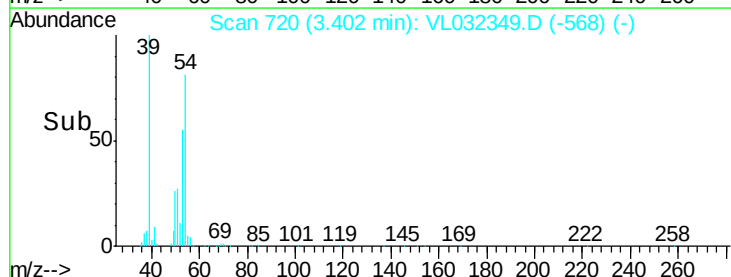
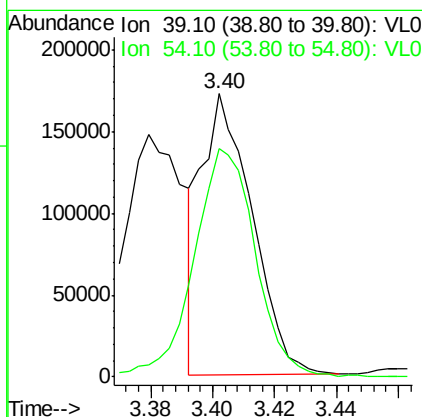
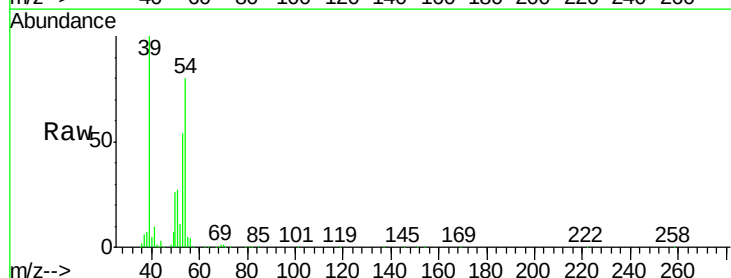
Acq: 15 Aug 2018 10:38

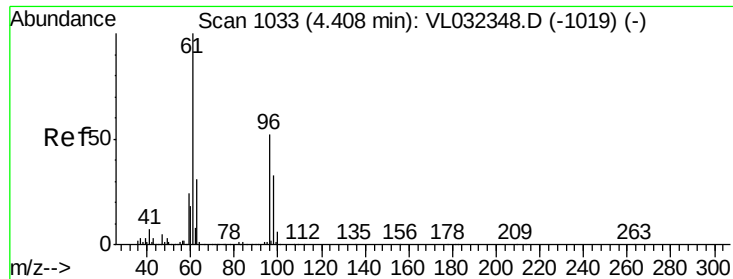
Tgt Ion: 39 Resp: 195242

Ion Ratio Lower Upper

39 100

54 99.4 74.3 111.5





#17

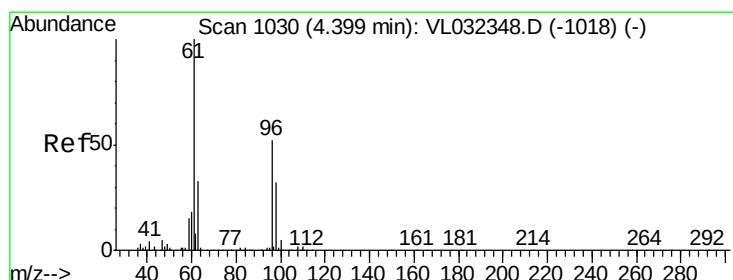
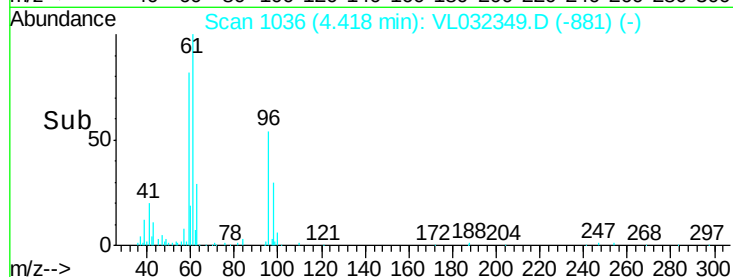
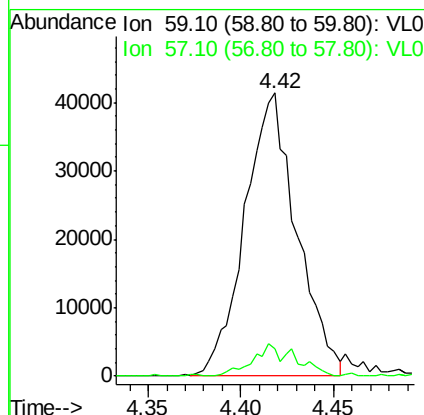
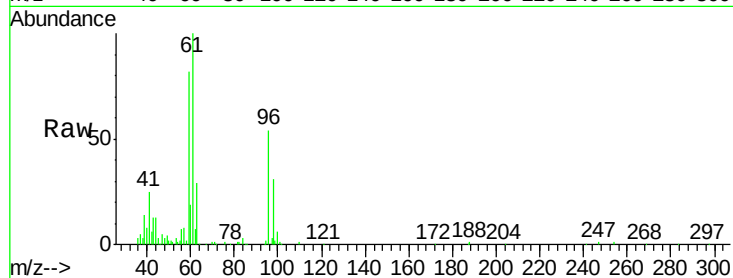
tert-Butyl alcohol
Concen: 1.10 ppbv
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 59 Resp: 81049
Ion Ratio Lower Upper
59 100
57 9.5 8.0 12.0

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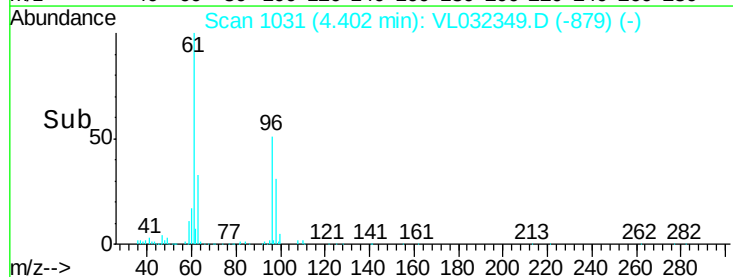
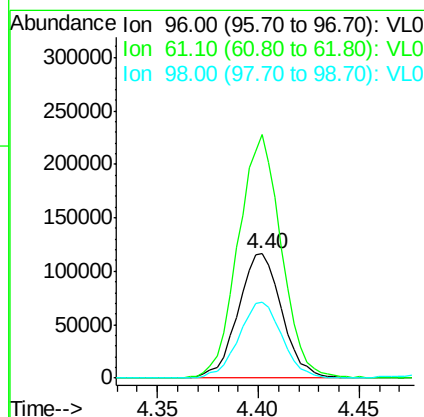
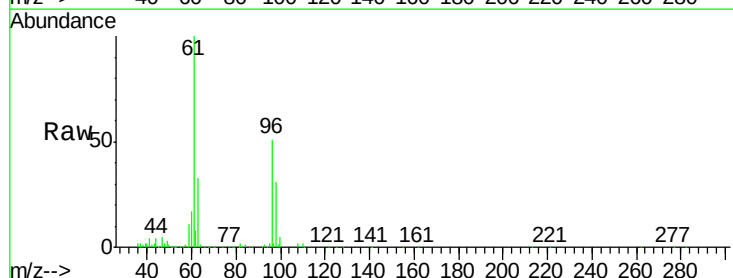
MMDadoda
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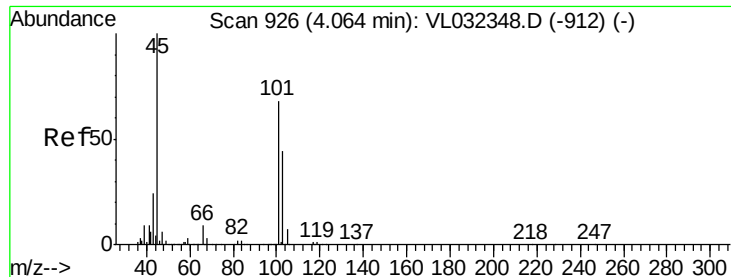


#18

1,1-Dichloroethene
Concen: 1.97 ppbv
RT: 4.40 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion: 96 Resp: 176431
Ion Ratio Lower Upper
96 100
61 195.1 159.0 238.4
98 60.8 51.1 76.7





#19

Isopropyl Alcohol

Concen: 2.08 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 321301

Ion Ratio Lower Upper

45 100

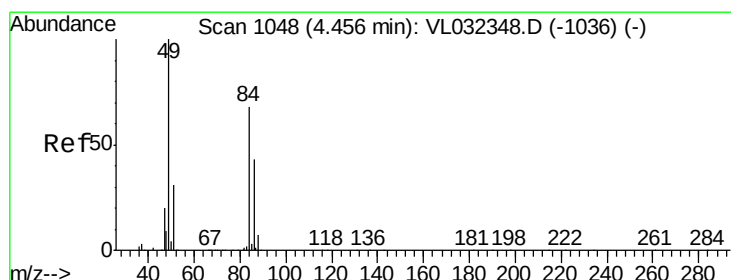
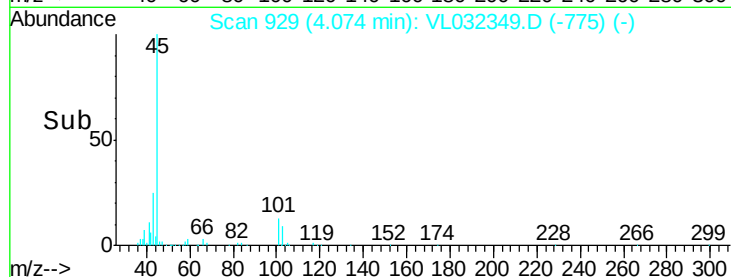
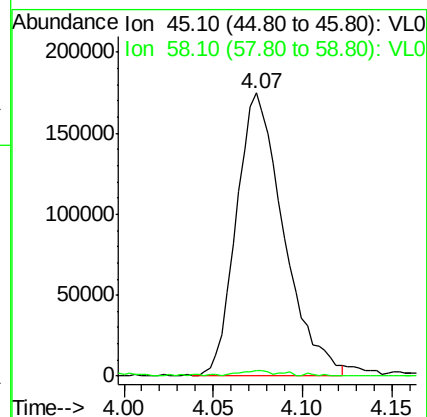
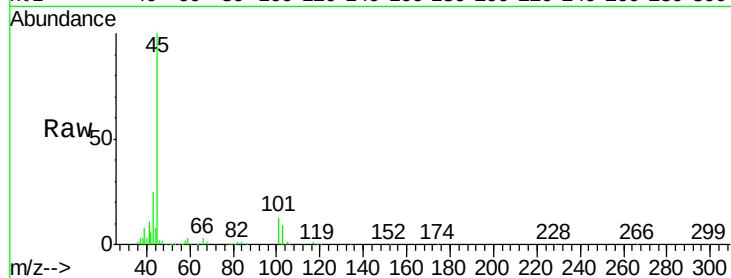
58 2.7 1.5 2.3#

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#20

Methylene Chloride

Concen: 1.90 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion: 84 Resp: 176693

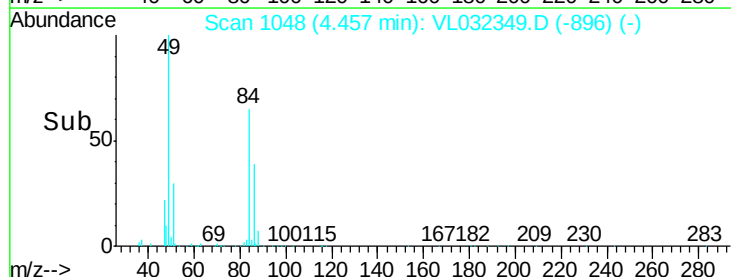
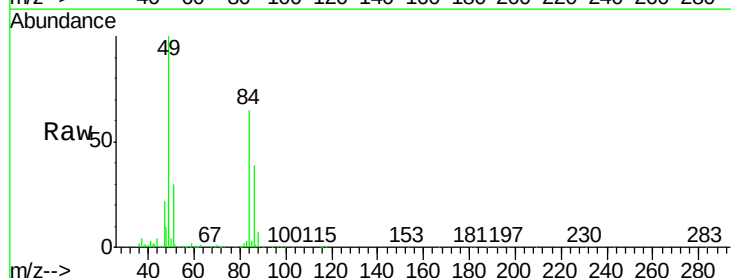
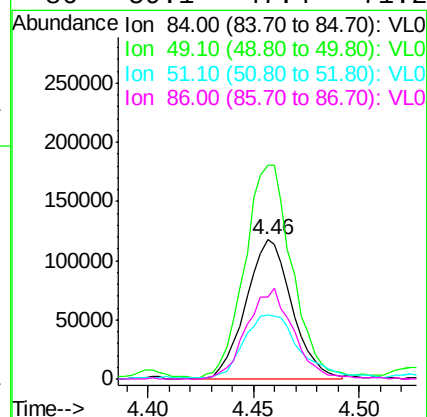
Ion Ratio Lower Upper

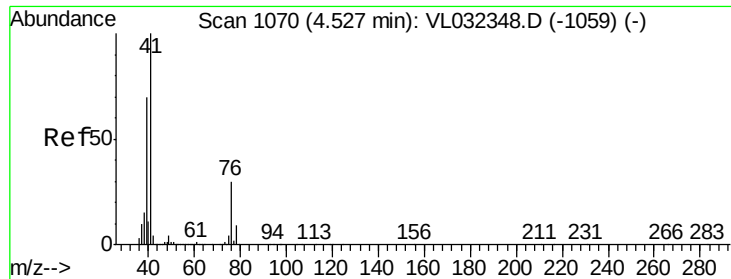
84 100

49 152.6 123.4 185.0

51 45.1 38.2 57.2

86 59.1 47.4 71.2





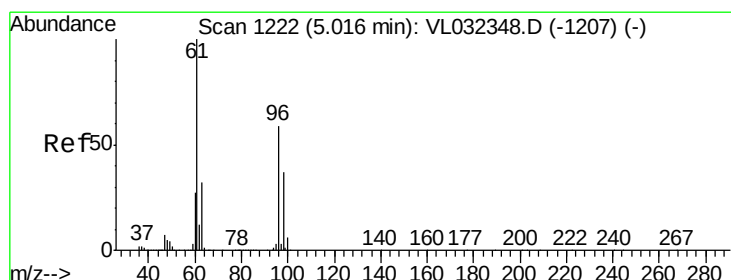
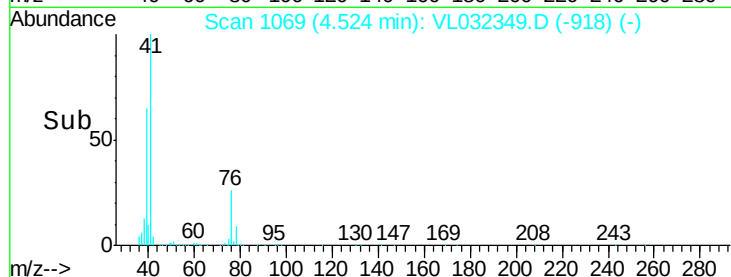
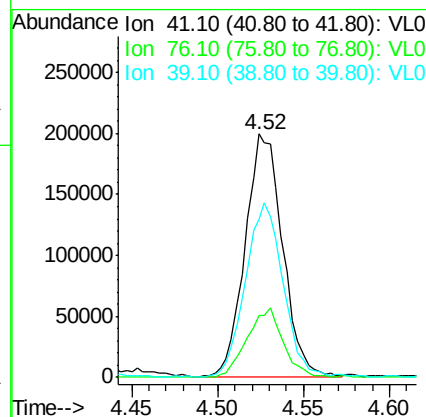
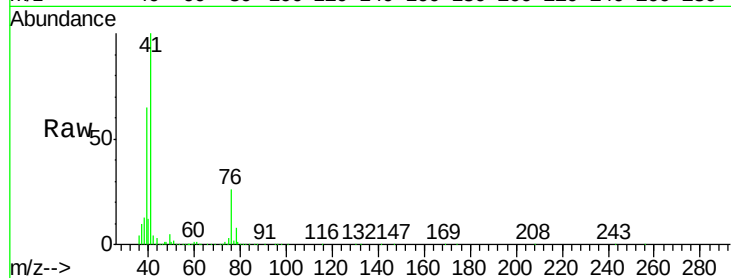
#21
Allvl Chloride
Concen: 1.90 ppbv
RT: 4.52 min Scan# 1069
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	41	Resp:	300721
Ion Ratio	Lower	Upper	
41	100		
76	27.7	23.1	34.7
39	72.2	58.2	87.2

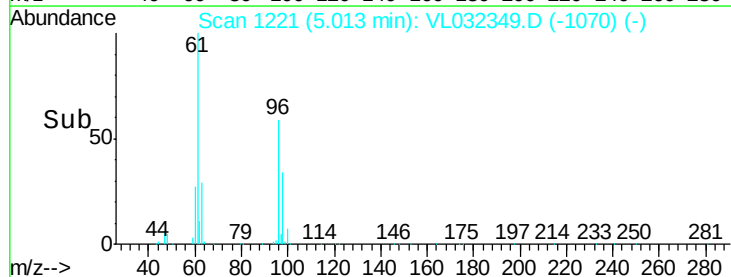
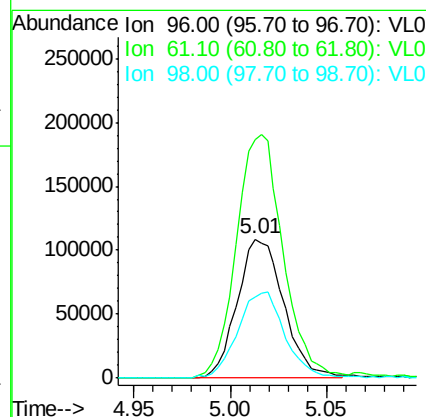
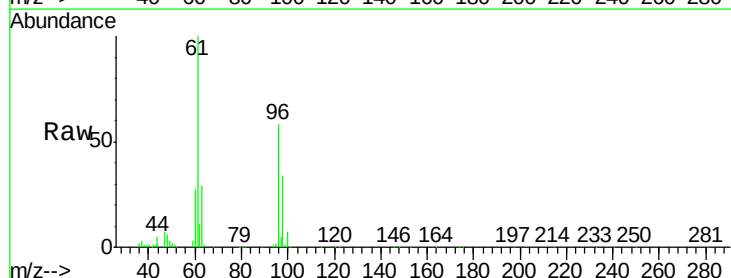
Manual Integrations
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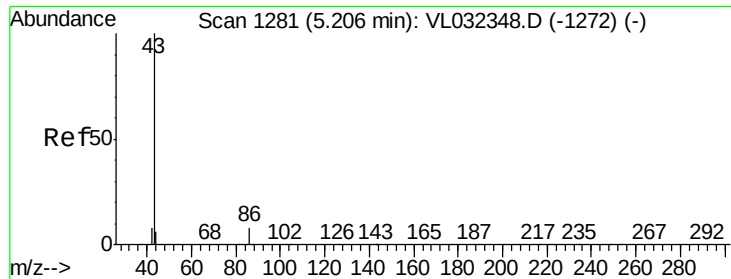
MMDadoda
8/17/2018 2:06:22 PM



#22
trans-1,2-Dichloroethene
Concen: 2.10 ppbv
RT: 5.01 min Scan# 1221
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion:	96	Resp:	181451
Ion Ratio	Lower	Upper	
96	100		
61	170.9	136.5	204.7
98	57.5	51.3	76.9





#23

Vinyl Acetate

Concen: 1.99 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

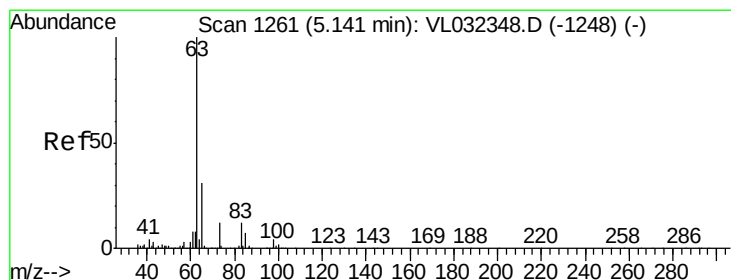
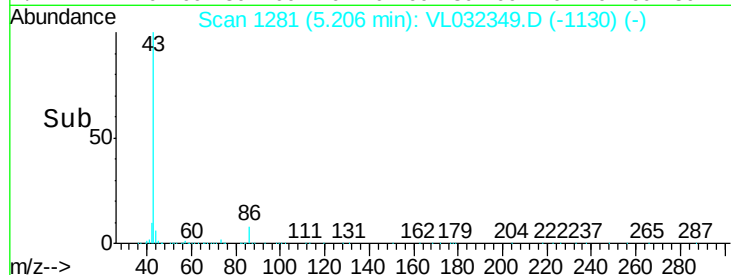
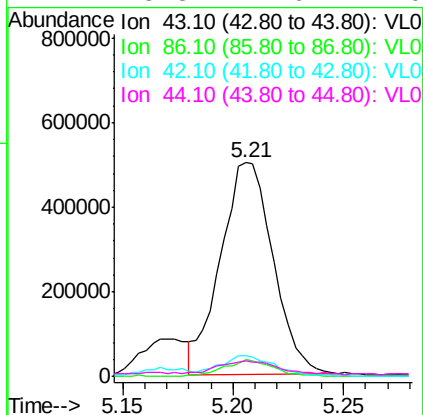
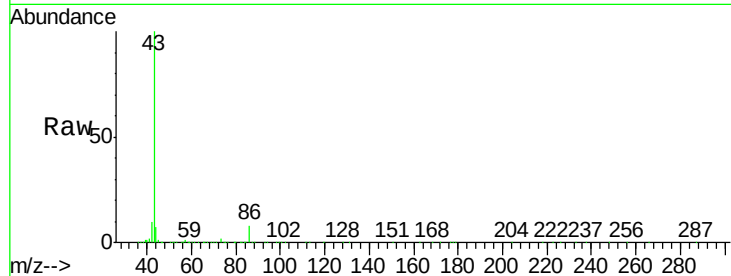
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.3	9.5
42	9.7	7.0	10.4
44	5.8	4.6	7.0

Manual Integrations
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MMDadoda
8/17/2018 2:06:22 PM



#24

1,1-Dichloroethane

Concen: 2.10 ppbv

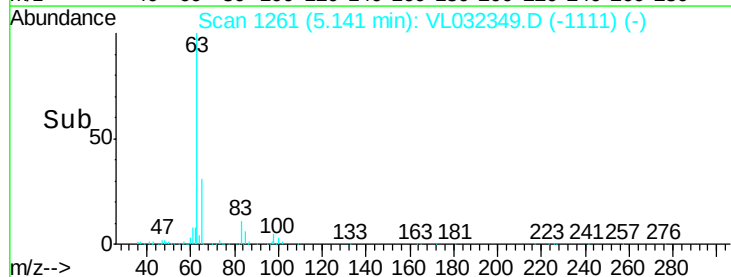
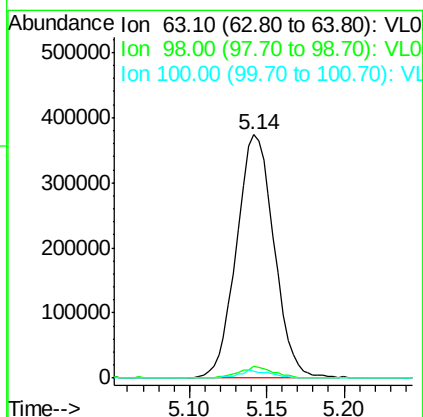
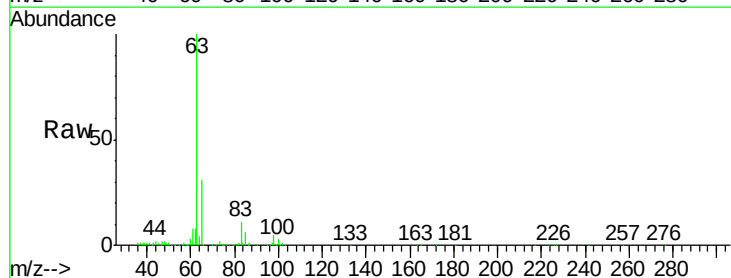
RT: 5.14 min Scan# 1261

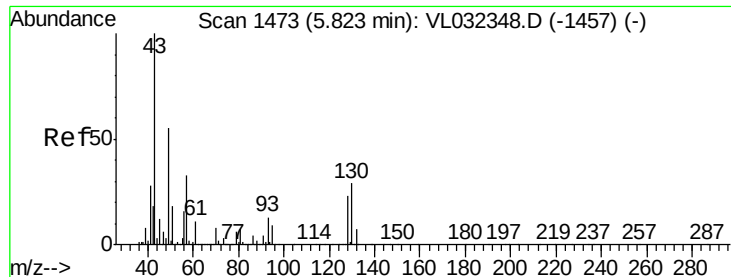
Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.1	6.5
100	2.8	1.3	3.8





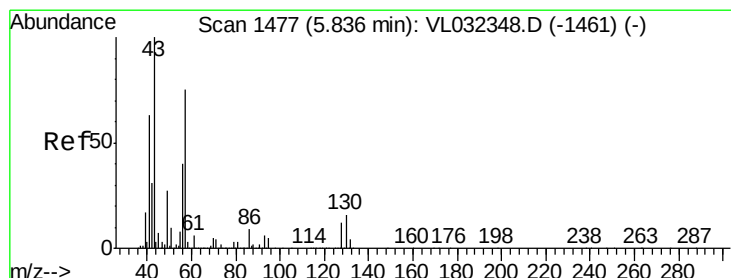
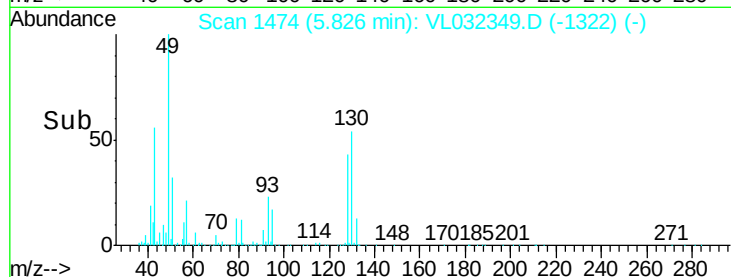
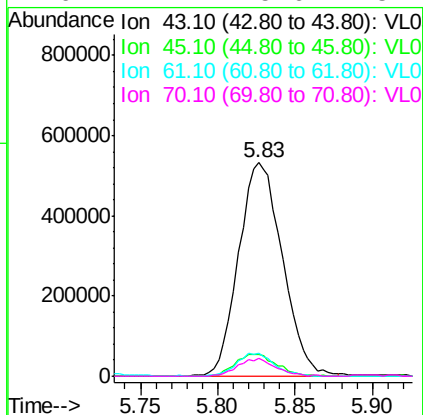
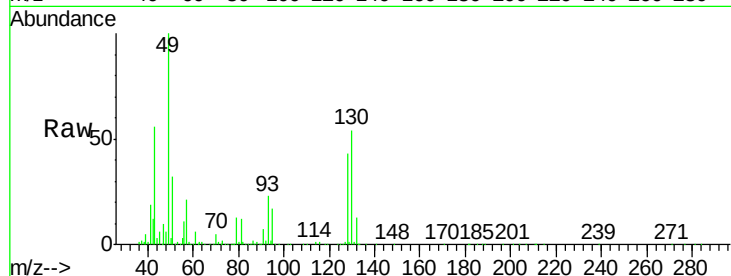
#25
Ethyl Acetate
Concen: 2.01 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	43	Resp	1046426
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.1	12.1
61	9.9	7.4	11.0
70	7.2	5.6	8.4

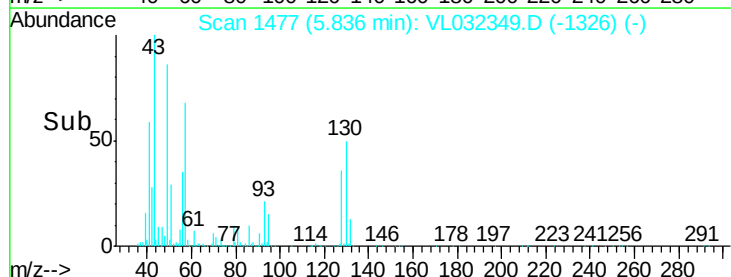
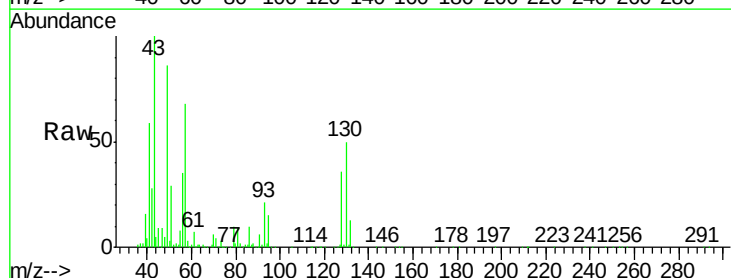
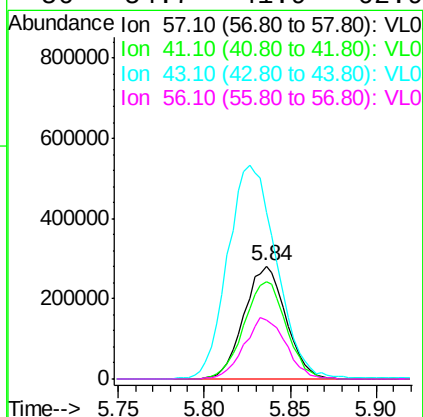
Manual Integrations
APPROVED

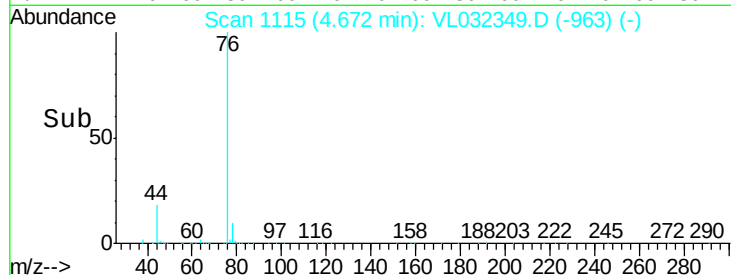
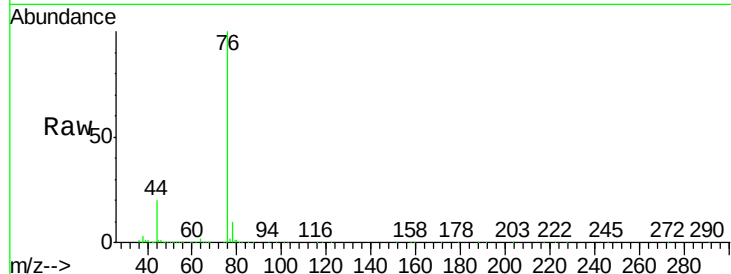
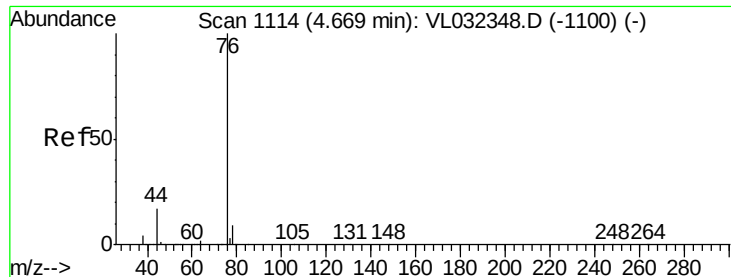
MMDadoda
8/17/2018 2:06:22 PM



#26
Hexane
Concen: 2.02 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	57	Resp	474633
Ion	Ratio	Lower	Upper
57	100		
41	86.9	68.1	102.1
43	221.2	177.4	266.2
56	54.7	41.9	62.9





#27

Carbon Disulfide

Concen: 1.92 ppbv

RT: 4.67 min Scan# 1115

Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tot Ion:	76	Resp:	409736
Ion Ratio	Lower	Upper	
76	100		
44	20.7	14.0	21.0
78	9.7	7.5	11.3

Instrument :

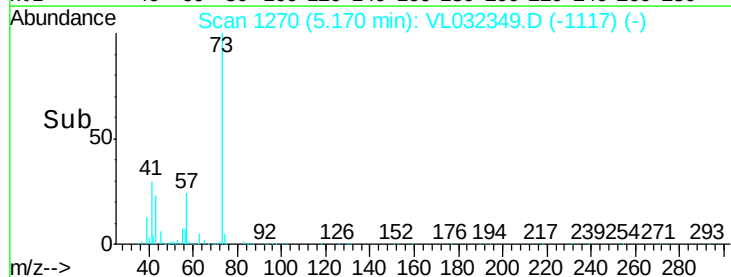
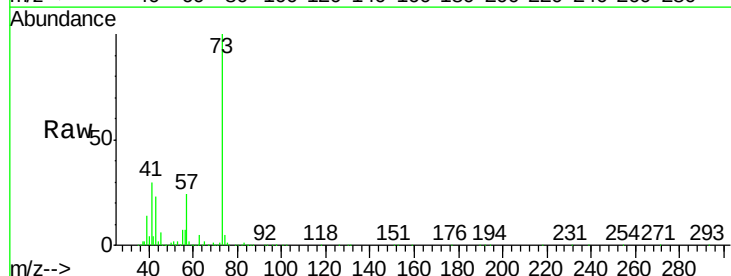
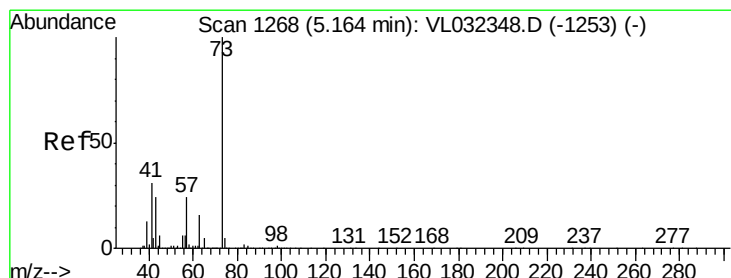
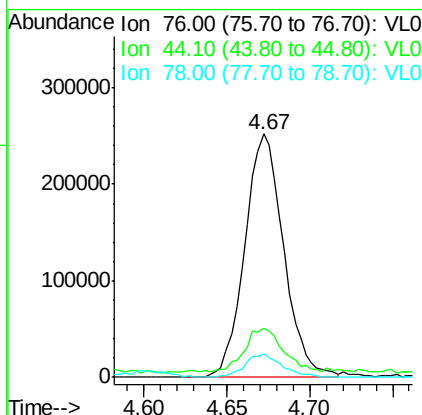
MSVOA_L

ClientSampleId :

VSTDIC002

Manual Integrations
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MMDadoda
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#28

Methyl tert-Butyl Ether

Concen: 2.04 ppbv

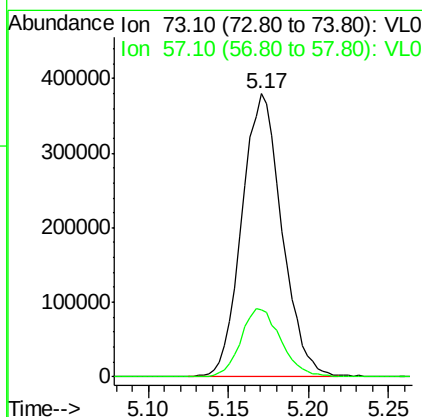
RT: 5.17 min Scan# 1270

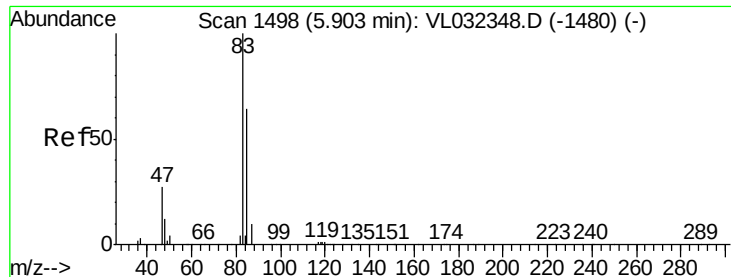
Delta R.T. -0.01 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:	73	Resp:	648713
Ion Ratio	Lower	Upper	
73	100		
57	24.1	19.4	29.0





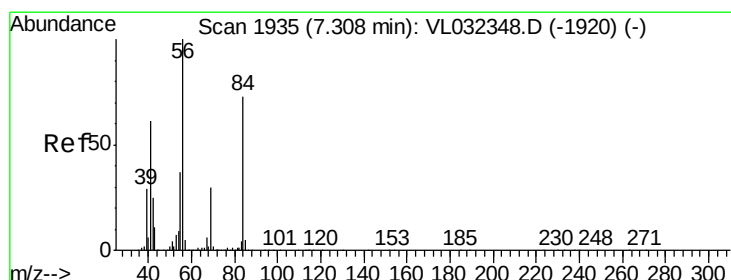
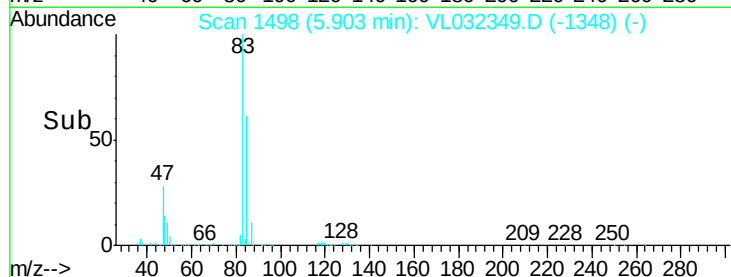
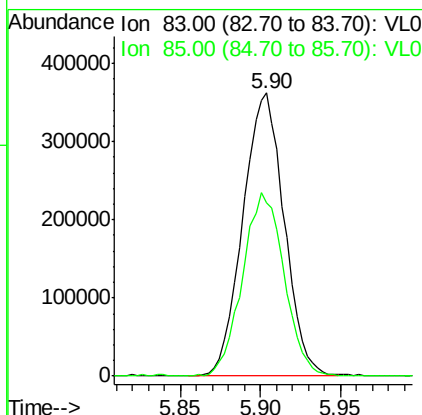
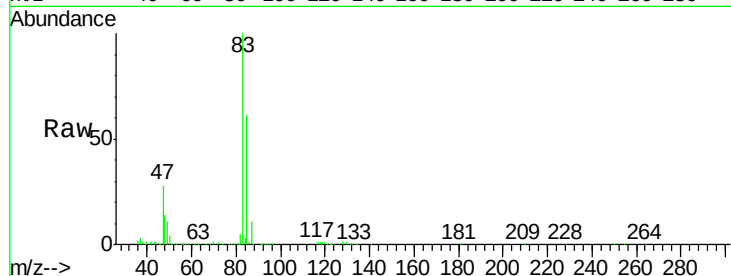
#29
Chloroform
Concen: 1.86 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
83	100		
85	61.1	52.9	79.3

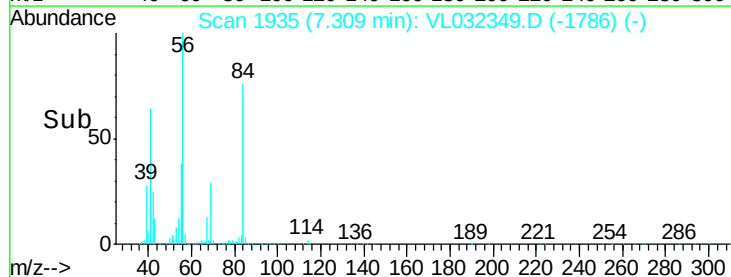
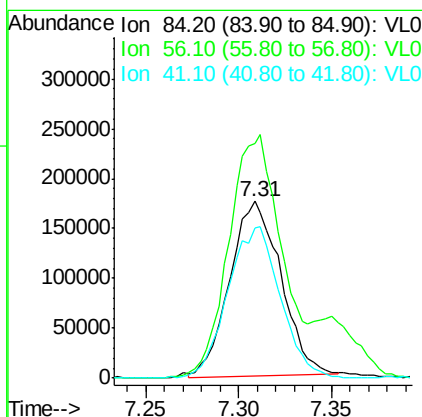
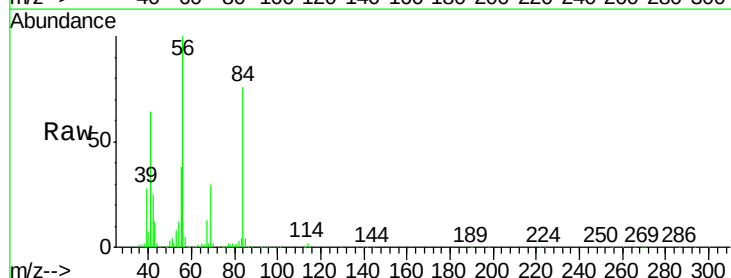
Manual Integrations
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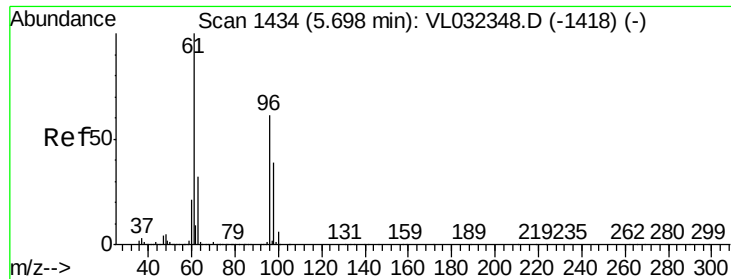
MMDadoda
8/17/2018 2:06:22 PM



#30
Cyclohexane
Concen: 1.83 ppbv
RT: 7.31 min Scan# 1935
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
84	100		
56	173.8	116.8	175.2
41	89.6	70.0	105.0





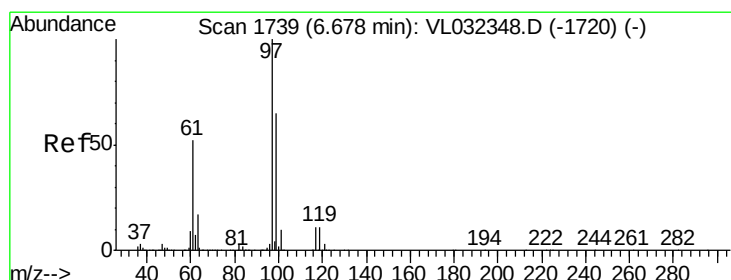
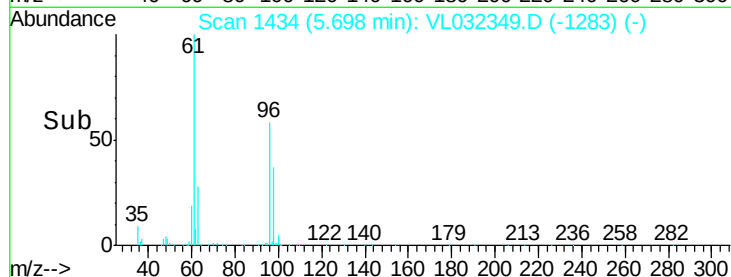
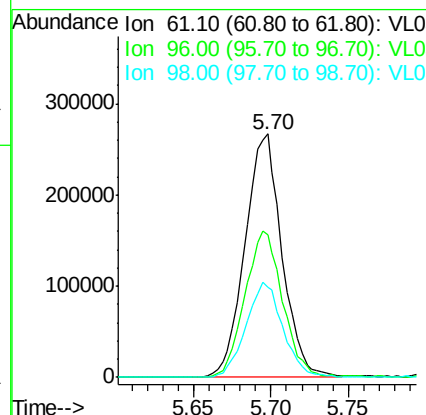
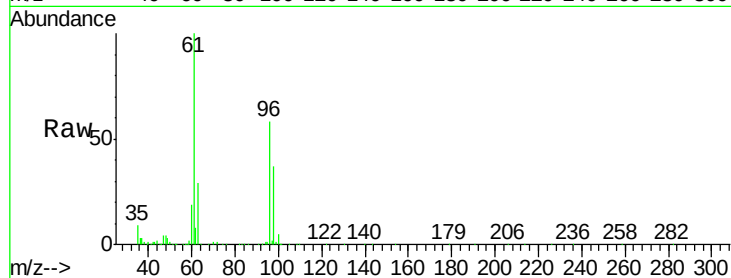
#31
 cis-1,2-Dichloroethene
 Concen: 2.04 ppbv
 RT: 5.70 min Scan# 1434
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.4	49.8	74.6
98	37.1	31.8	47.6

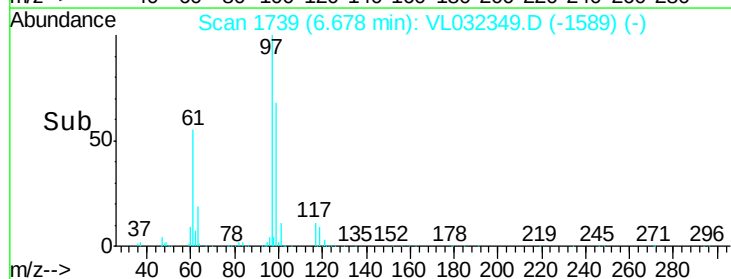
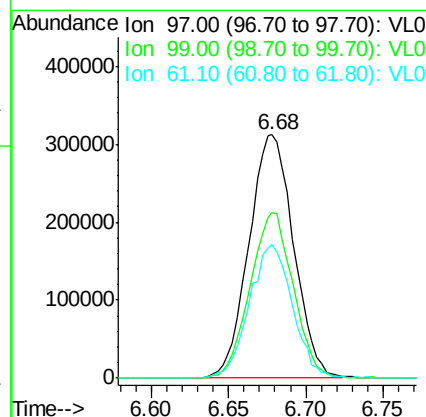
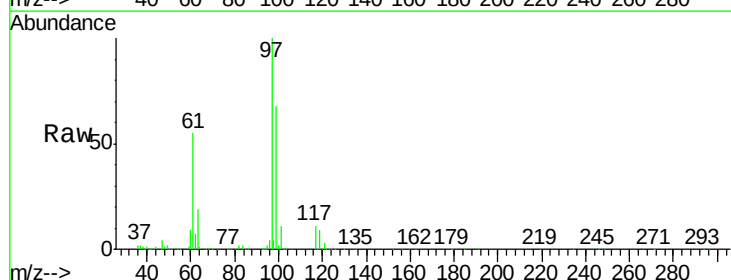
Manual Integrations
 APPROVED

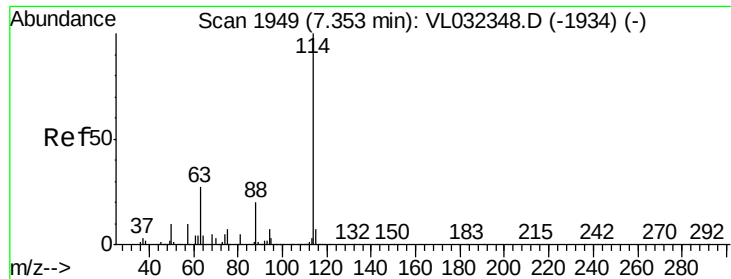
MMDadoda
 8/17/2018 2:06:22 PM



#32
 1,1,1-Trichloroethane
 Concen: 2.07 ppbv
 RT: 6.68 min Scan# 1739
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.9	76.3
61	53.4	41.8	62.6





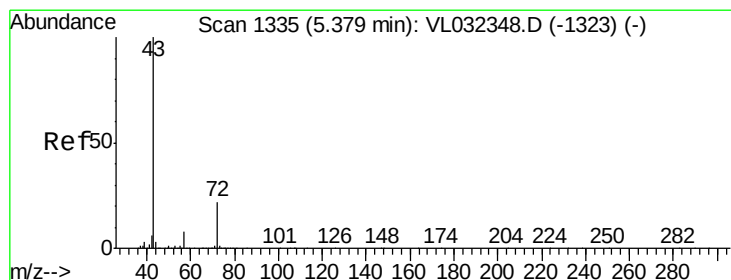
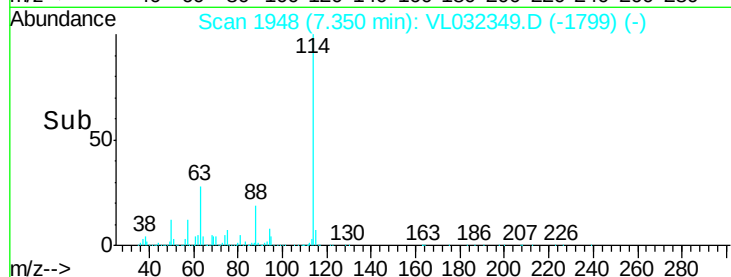
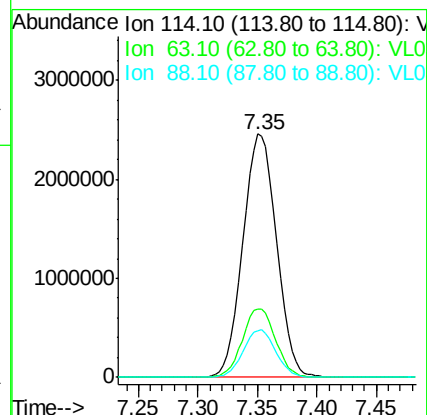
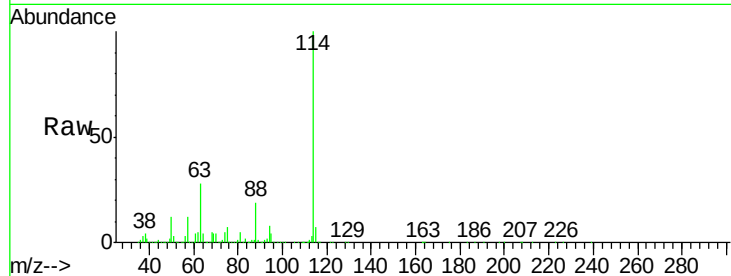
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	19.0	15.3	22.9

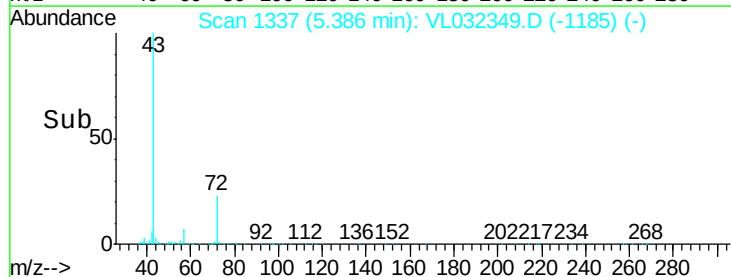
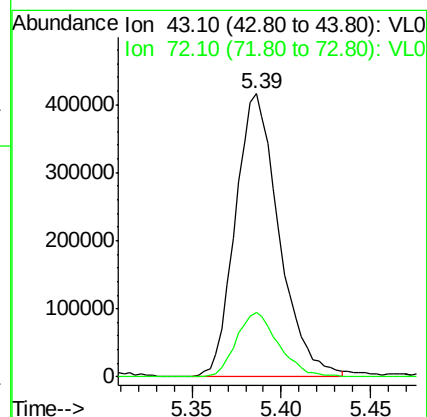
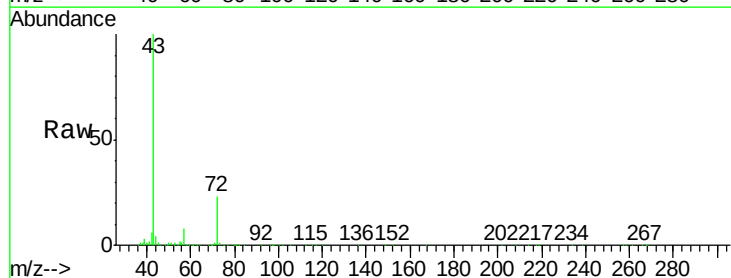
Manual Integrations
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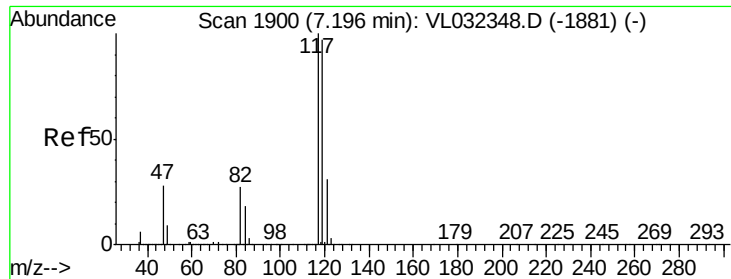
MMDadoda
 8/17/2018 2:06:22 PM



#34
 2-Butanone
 Concen: 2.26 ppbv
 RT: 5.39 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.4	26.2





#35

Carbon Tetrachloride

Concen: 2.24 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

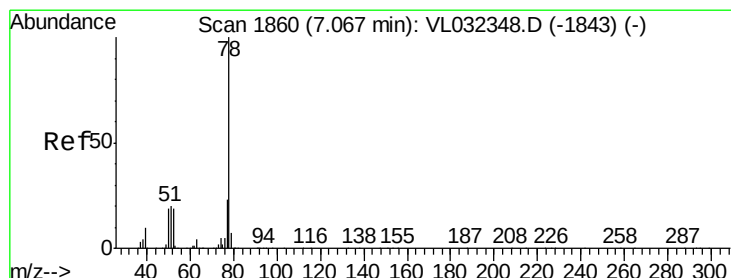
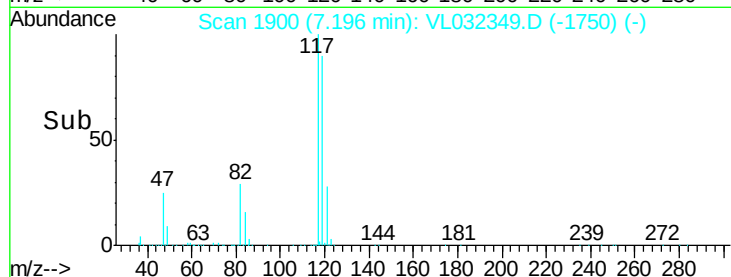
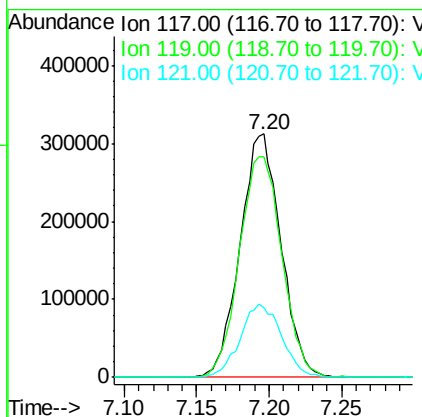
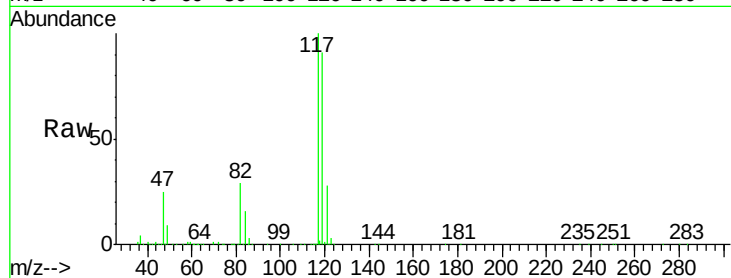
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	613103
Ion Ratio	Lower	Upper	
117	100		
119	90.7	76.1	114.1
121	28.3	24.4	36.6

Manual Integrations
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MMDadoda
8/17/2018 2:06:22 PM



#36

Benzene

Concen: 2.05 ppbv

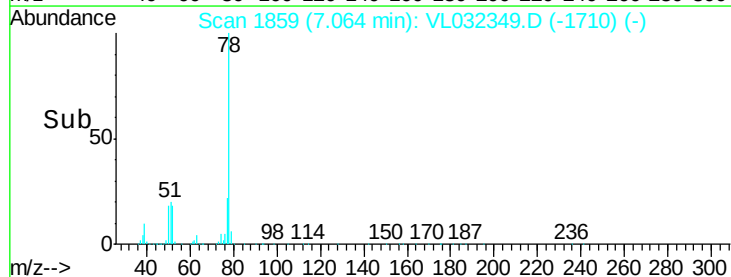
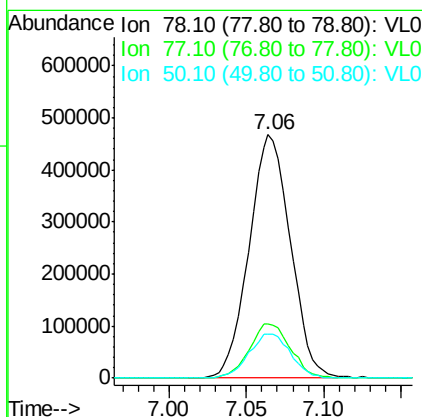
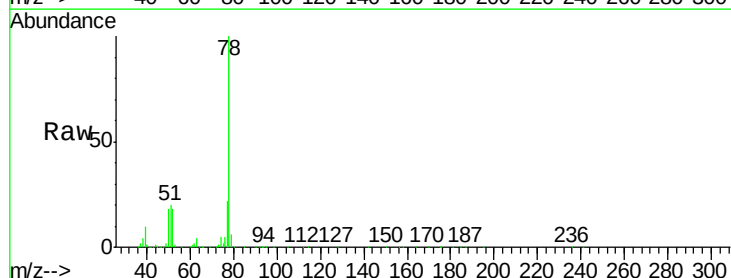
RT: 7.06 min Scan# 1859

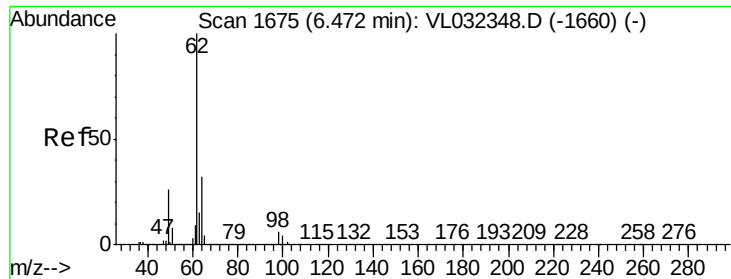
Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:	78	Resp:	869900
Ion Ratio	Lower	Upper	
78	100		
77	22.4	18.4	27.6
50	18.3	15.3	22.9





#37

1,2-Dichloroethane

Concen: 2.09 ppbv

RT: 6.47 min Scan# 1674

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 513839

Ion Ratio Lower Upper

62 100

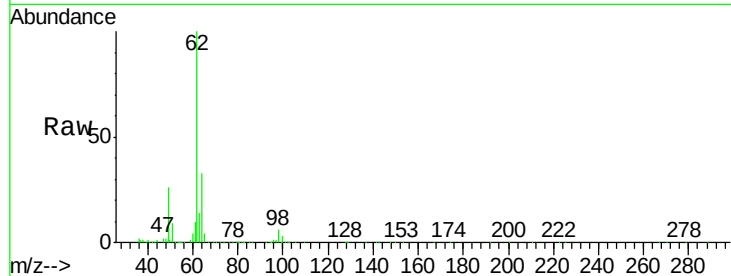
98 6.1 5.1 7.7

Manual Integrations

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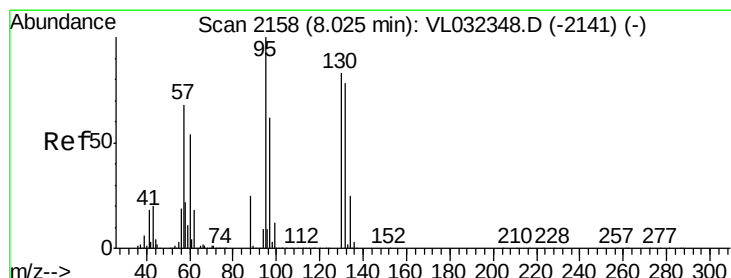
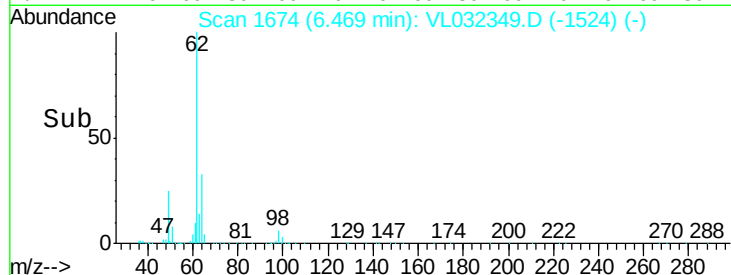
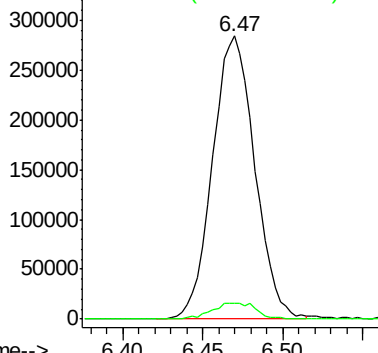
MMDadoda

8/17/2018 2:06:22 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 1.85 ppbv

RT: 8.02 min Scan# 2157

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion: 130 Resp: 303653

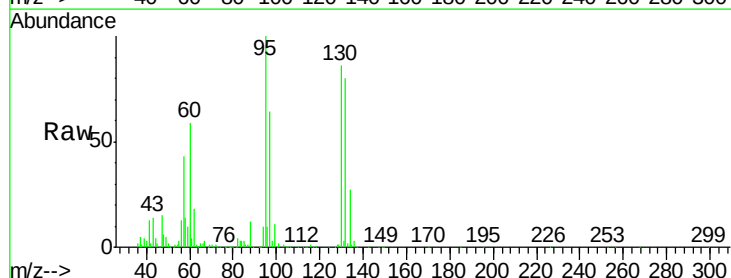
Ion Ratio Lower Upper

130 100

95 114.7 92.9 139.3

132 92.4 73.0 109.4

97 73.0 59.6 89.4

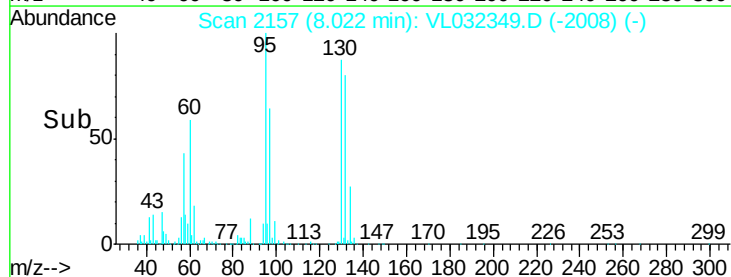
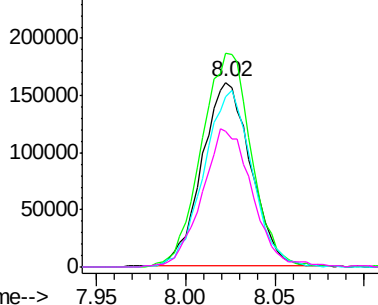


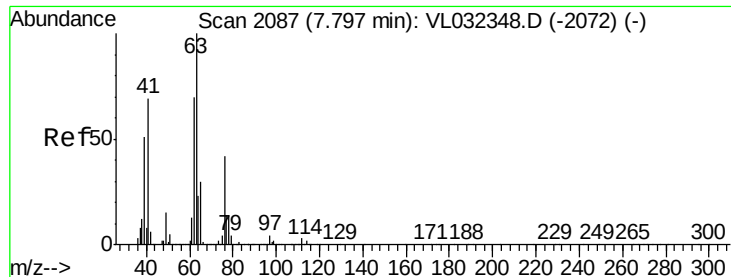
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





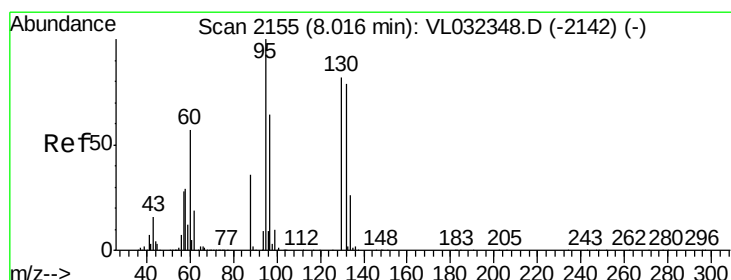
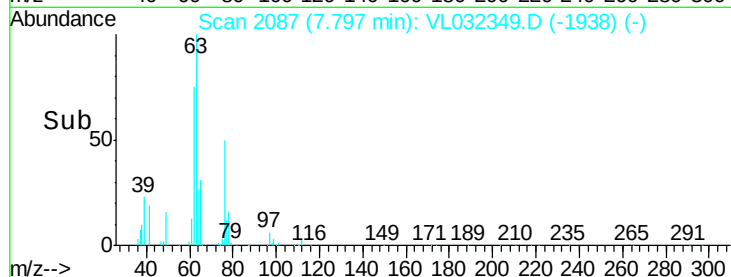
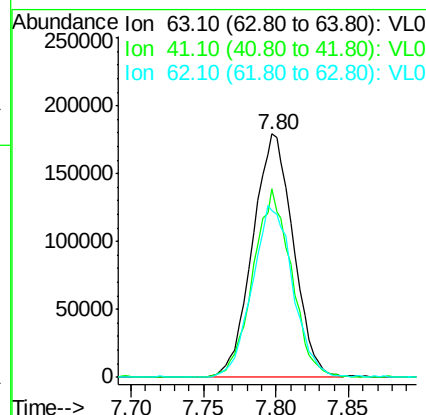
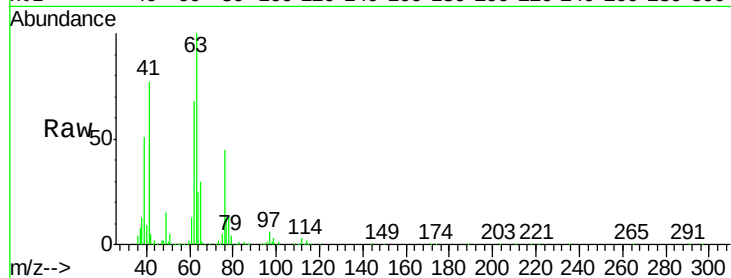
#39
 1,2-Dichloropropane
 Concen: 1.64 ppbv
 RT: 7.80 min Scan# 2087
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.3	52.5	78.7
62	68.4	54.6	81.8

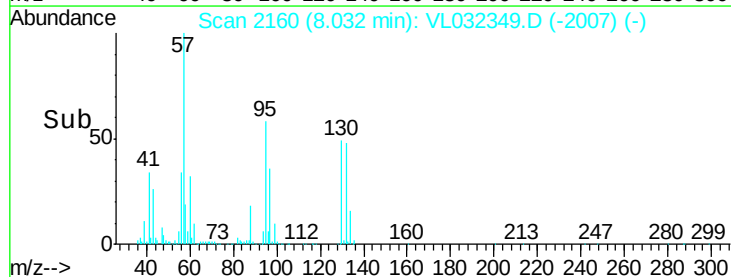
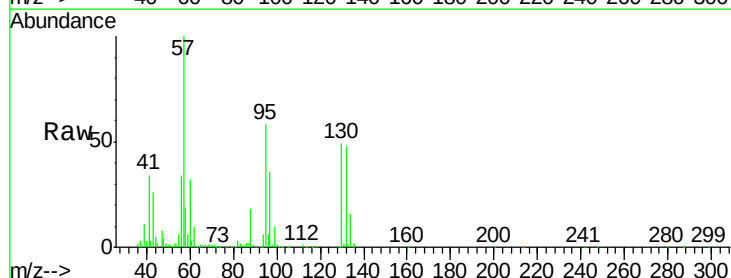
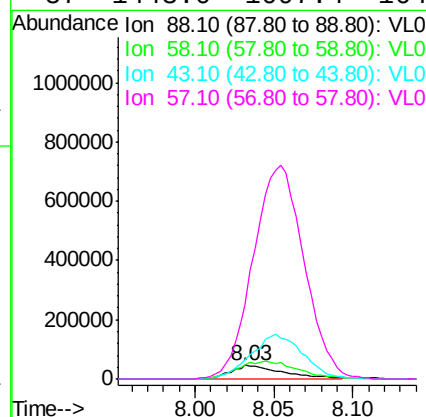
Manual Integrations
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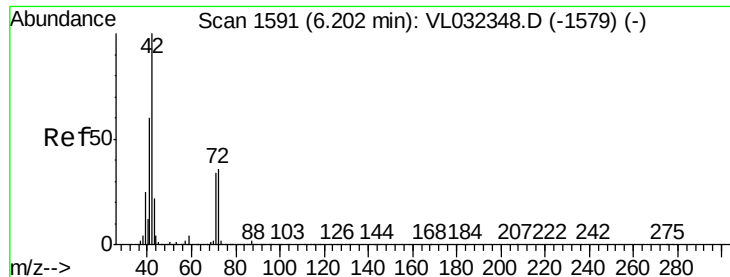
MMDadoda
 8/17/2018 2:06:22 PM



#40
 1,4-Dioxane
 Concen: 1.79 ppbv m
 RT: 8.03 min Scan# 2160
 Delta R.T. -0.01 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
88	100		
58	149.3	120.5	180.7
43	308.9	246.2	369.2
57	1443.0	1097.4	1646.2





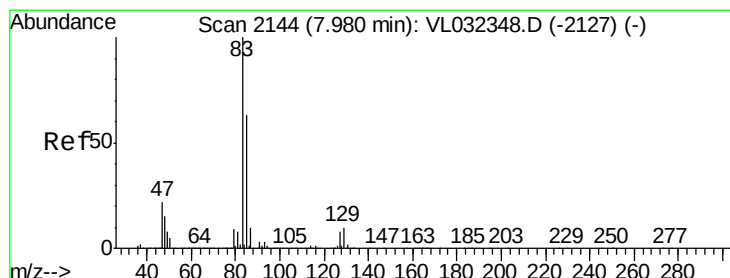
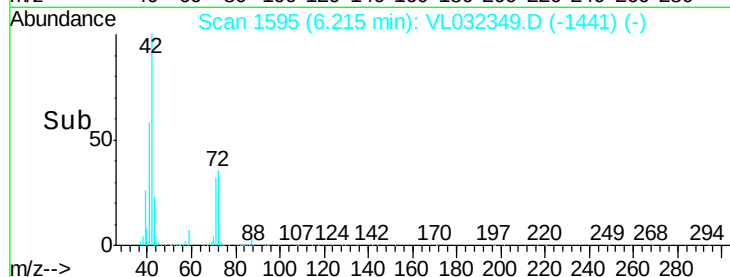
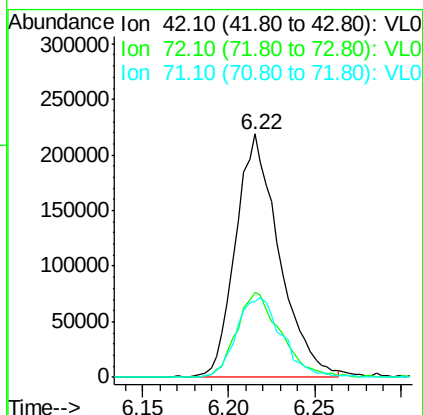
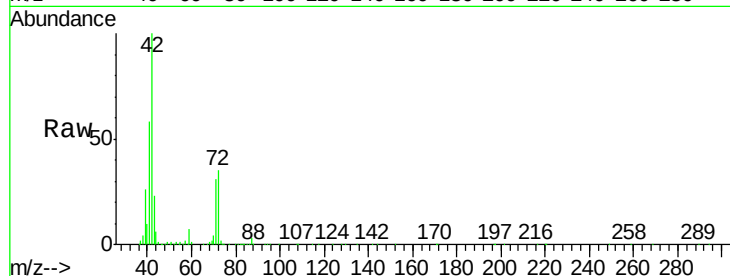
#41
Tetrahydrofuran
Concen: 2.17 ppbv
RT: 6.22 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.9	28.6	42.8
71	34.6	27.8	41.6

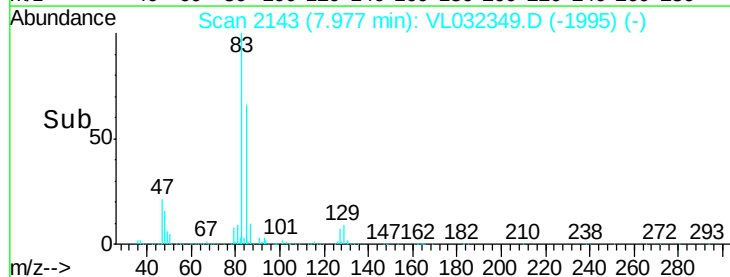
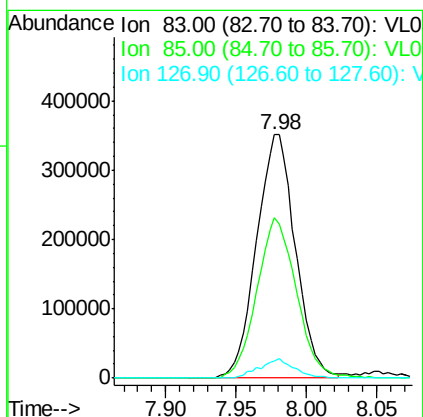
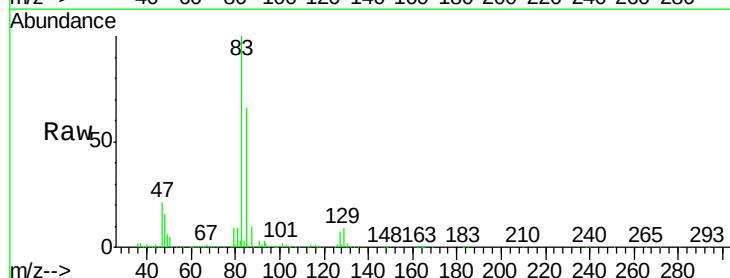
Manual Integrations
APPROVED

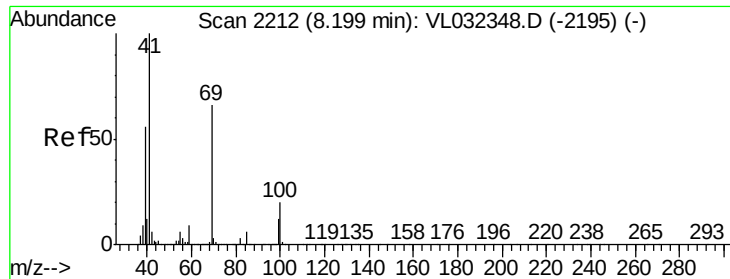
MMDadoda
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#42
Bromodichloromethane
Concen: 1.70 ppbv
RT: 7.98 min Scan# 2143
Delta R.T. -0.03 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	50.7	76.1
127	7.2	6.0	9.0





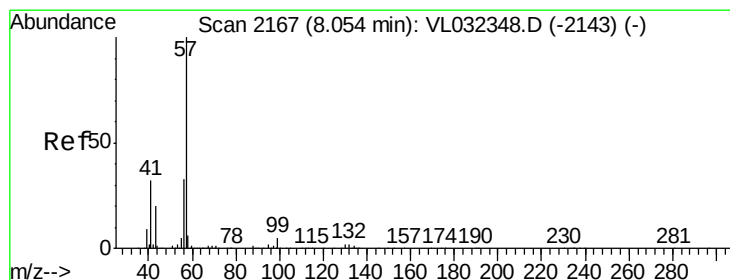
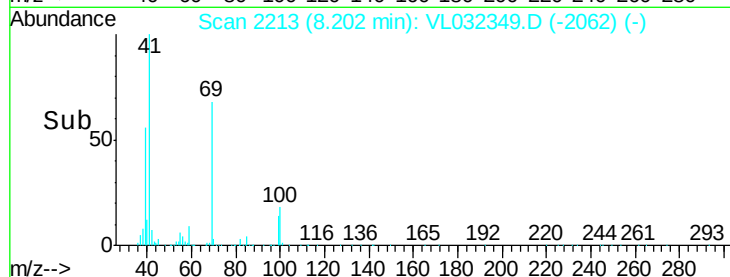
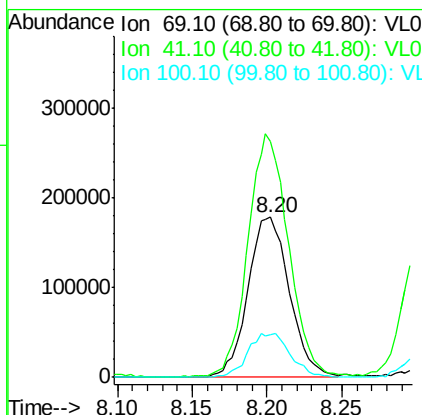
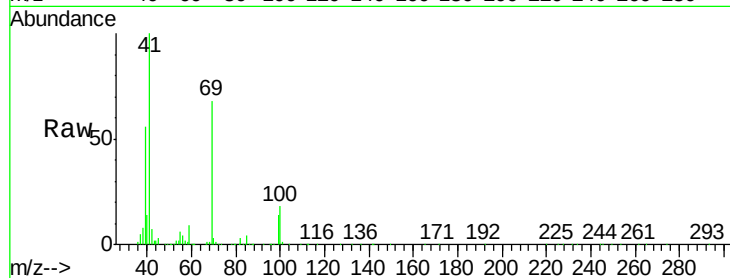
#43
Methyl Methacrylate
Concen: 1.69 ppbv
RT: 8.20 min Scan# 2213
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	148.5	120.6	180.8	
100	28.2	23.2	34.8	

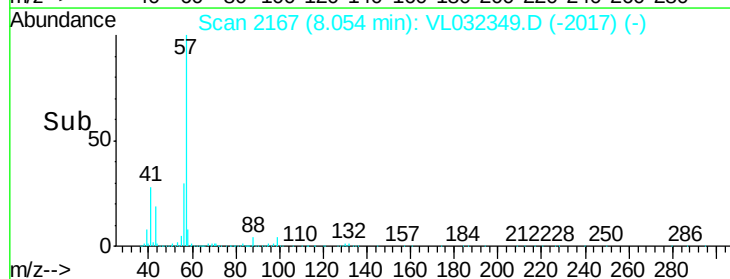
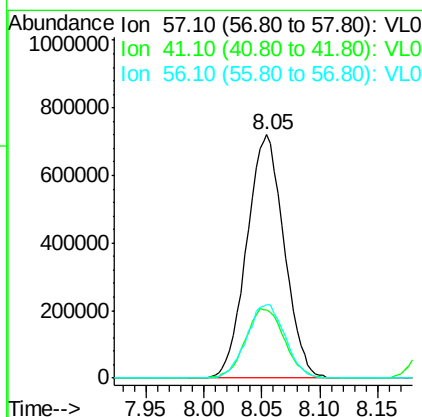
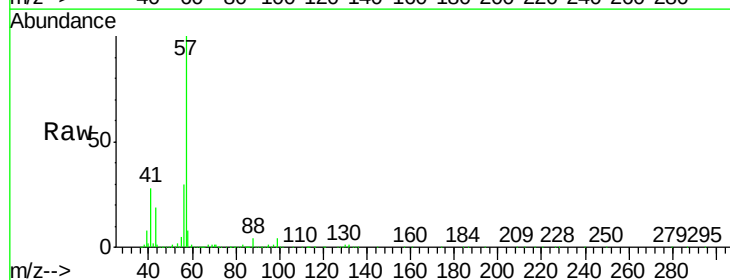
Manual Integrations
APPROVED

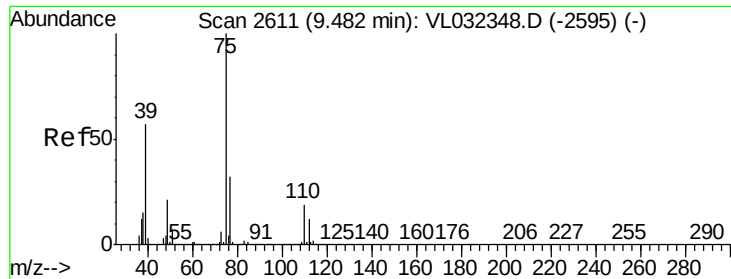
MMDadoda
8/17/2018 2:06:22 PM



#44
2,2,4-Trimethylpentane
Concen: 1.76 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	29.9	24.3	36.5	
56	31.2	25.4	38.2	





#45

t-1,3-Dichloropropene

Concen: 1.84 ppbv

RT: 9.48 min Scan# 2610

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 434870

Ion Ratio Lower Upper

75 100

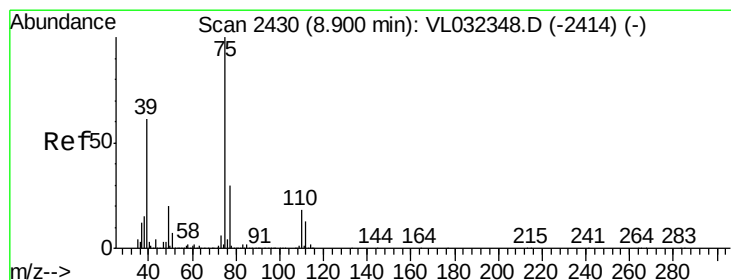
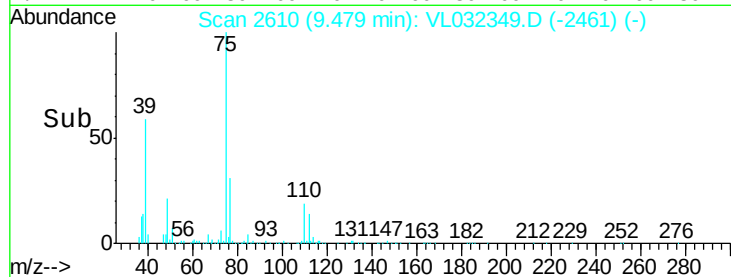
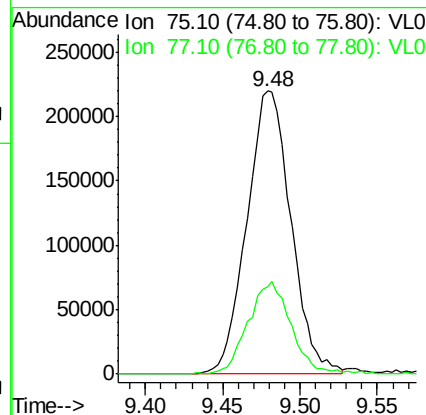
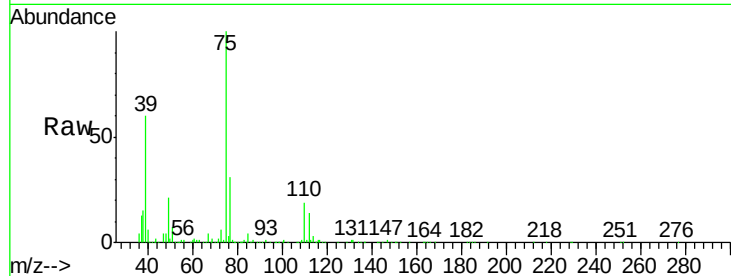
77 30.8 26.2 39.4

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 1.91 ppbv

RT: 8.90 min Scan# 2429

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

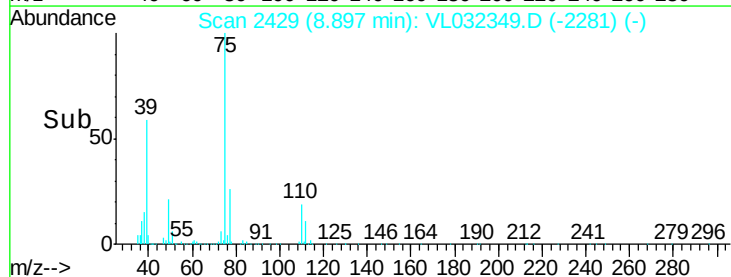
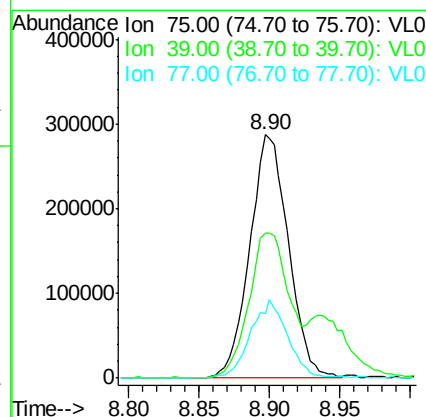
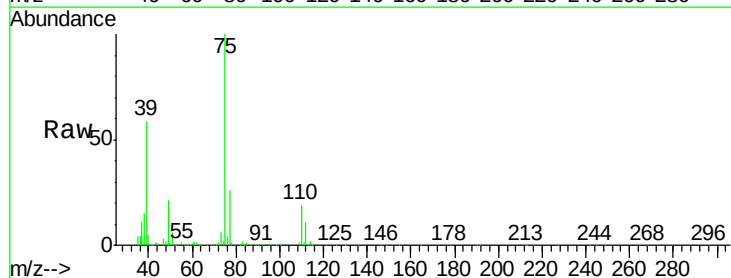
Tgt Ion: 75 Resp: 552092

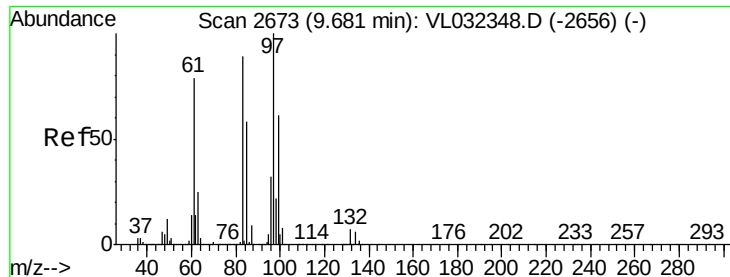
Ion Ratio Lower Upper

75 100

39 59.1 50.9 76.3

77 26.4 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 1.88 ppbv

RT: 9.68 min Scan# 2672

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

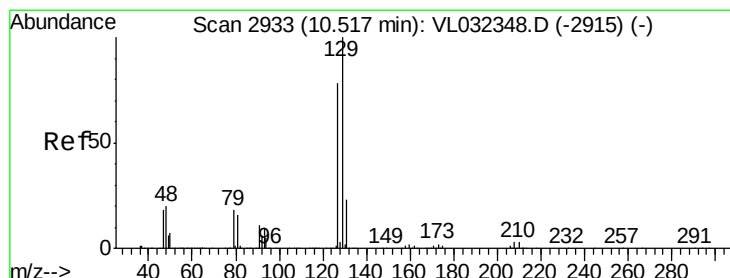
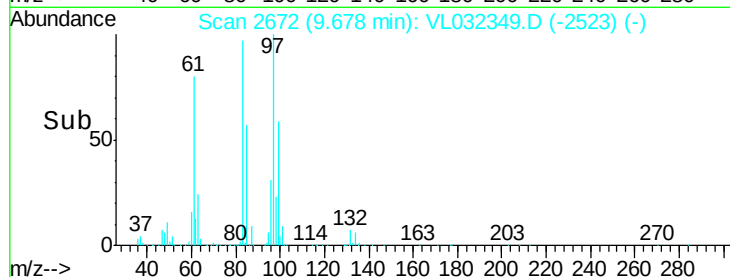
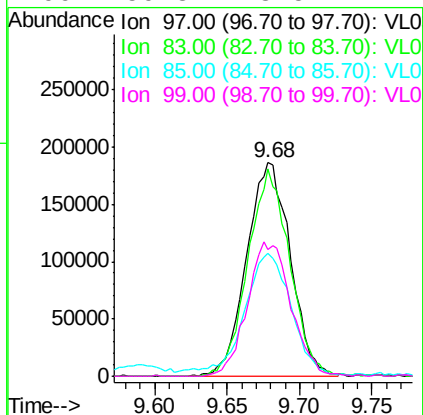
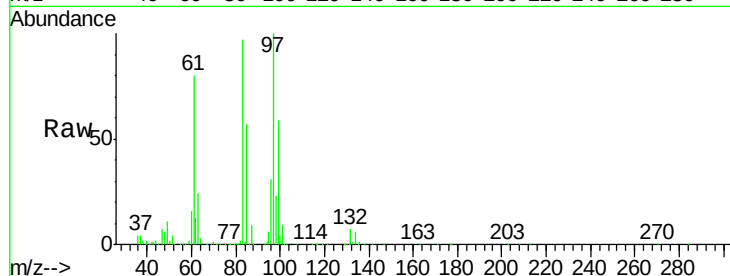
ClientSampleId :

VSTDIC002

Tot Ion:	97	Resp:	390876
Ion	Ratio	Lower	Upper
97	100		
83	96.7	73.0	109.6
85	56.5	48.1	72.1
99	59.3	48.5	72.7

Manual Integrations
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#48

Dibromochloromethane

Concen: 1.71 ppbv

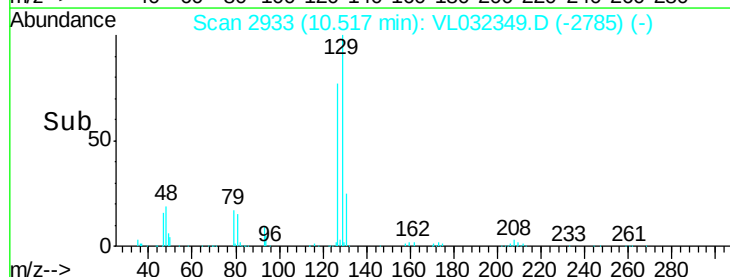
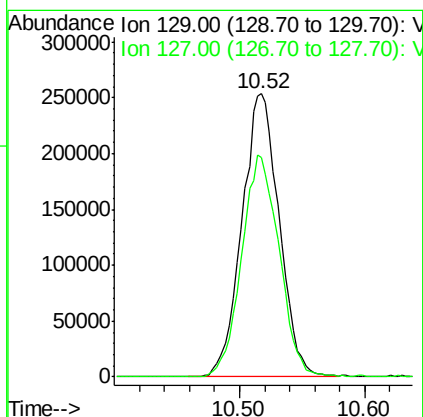
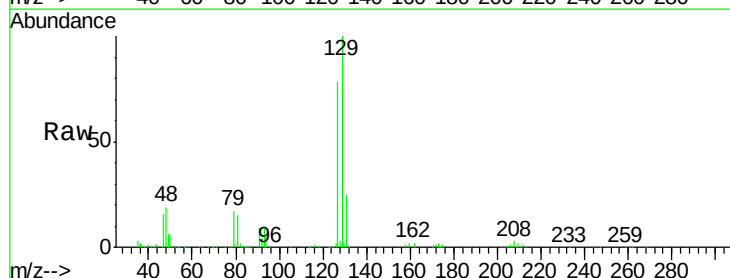
RT: 10.52 min Scan# 2933

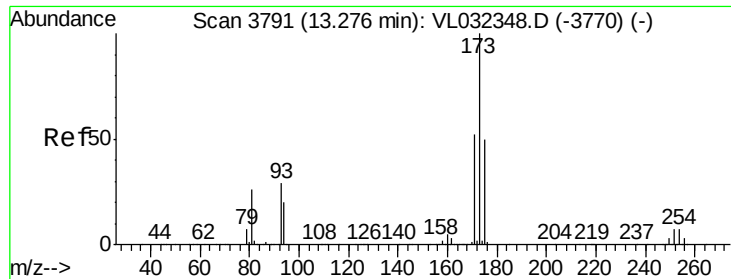
Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:	129	Resp:	524347
Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.5	118.3





#49

Bromoform

Concen: 1.78 ppbv

RT: 13.27 min Scan# 3789

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:173 Resp: 449198

Ion Ratio Lower Upper

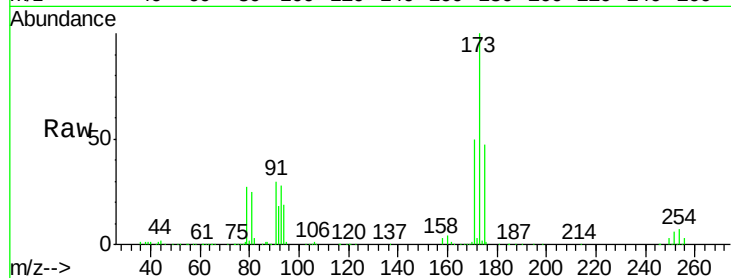
173 100

175 47.9 38.9 58.3

171 52.6 42.2 63.2

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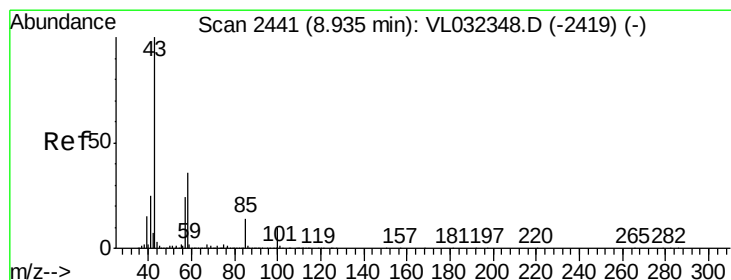
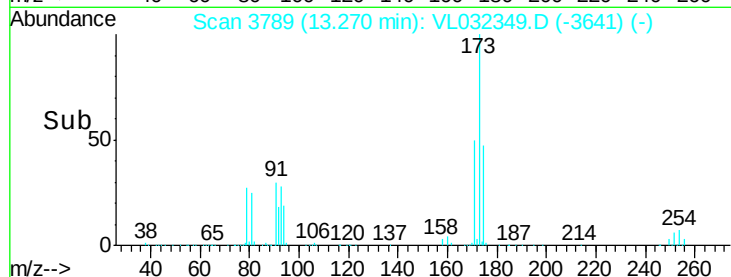
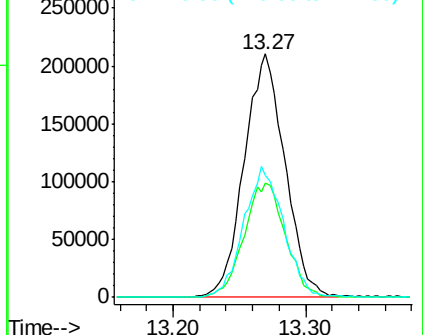
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 1.92 ppbv

RT: 8.94 min Scan# 2442

Delta R.T. -0.02 min

Lab File: VL032349.D

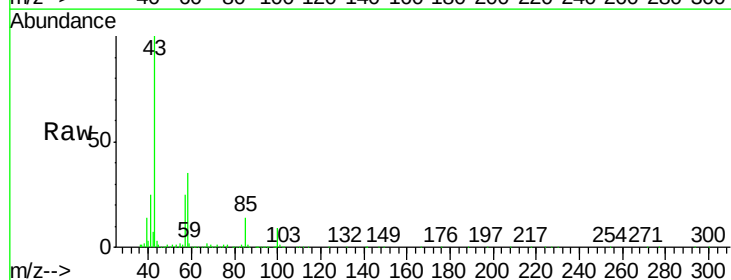
Acq: 15 Aug 2018 10:38

Tgt Ion: 43 Resp: 1057379

Ion Ratio Lower Upper

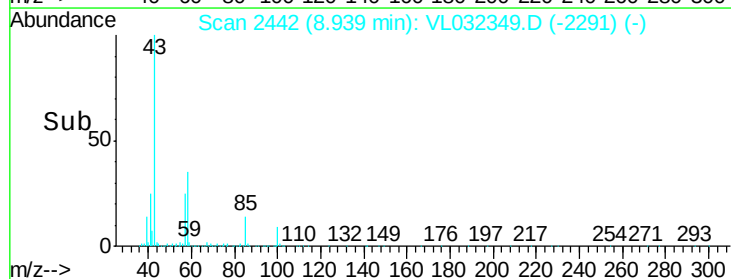
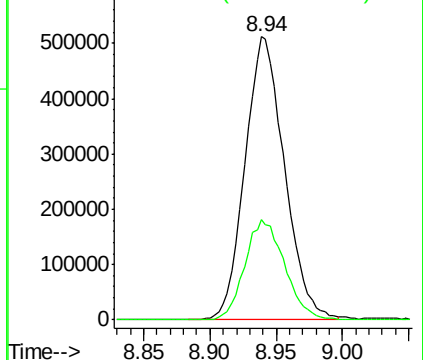
43 100

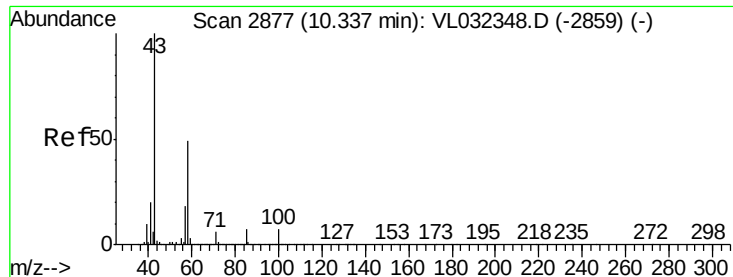
58 35.8 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 1.62 ppbv

RT: 10.34 min Scan# 2879

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

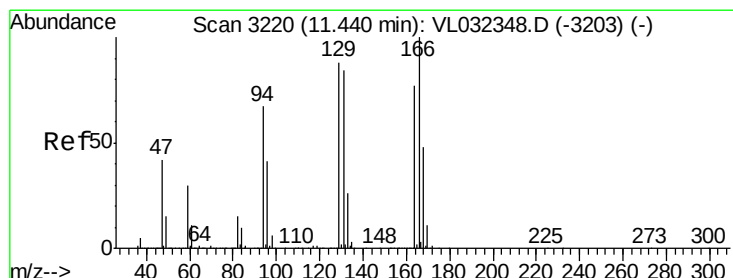
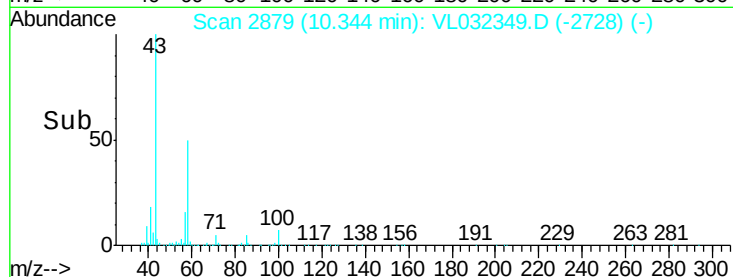
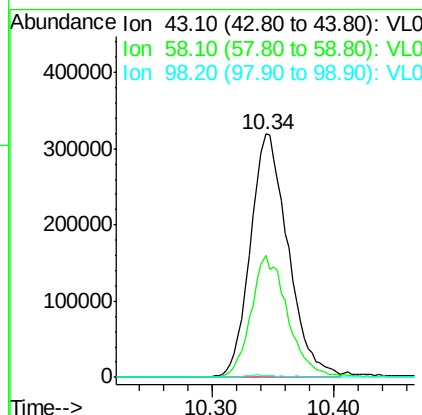
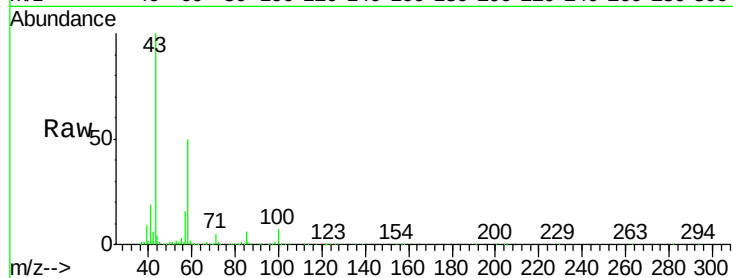
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	679009
Ion Ratio	Lower	Upper	
43	100		
58	49.1	39.1	58.7
98	0.8	0.3	0.5#

Manual Integrations
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#52

Tetrachloroethene

Concen: 1.87 ppbv

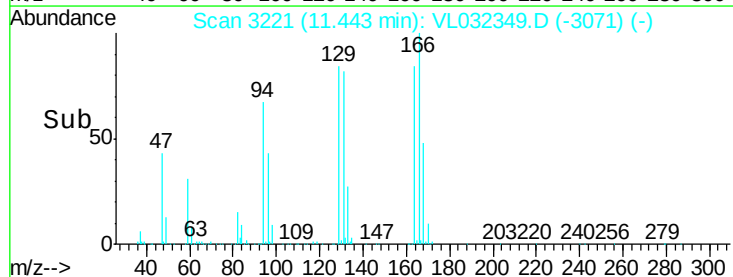
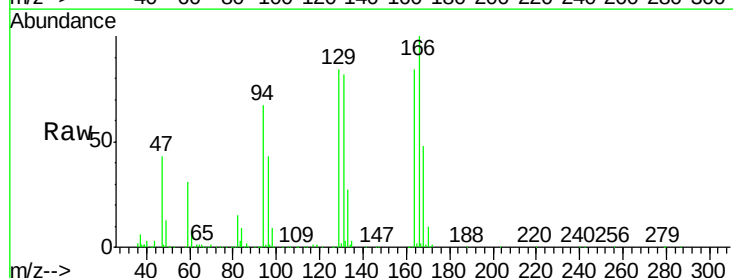
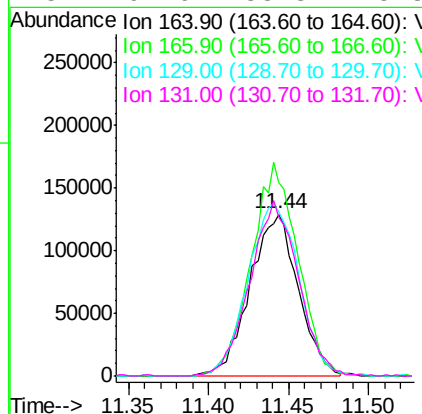
RT: 11.44 min Scan# 3221

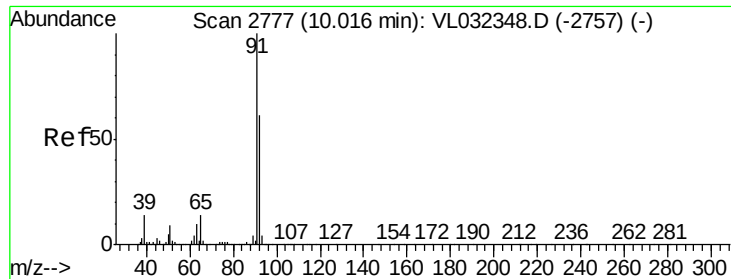
Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:	164	Resp:	267539
Ion Ratio	Lower	Upper	
164	100		
166	119.5	100.0	150.0
129	101.2	87.9	131.9
131	97.6	83.8	125.8





#53

Toluene

Concen: 2.00 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 1015392

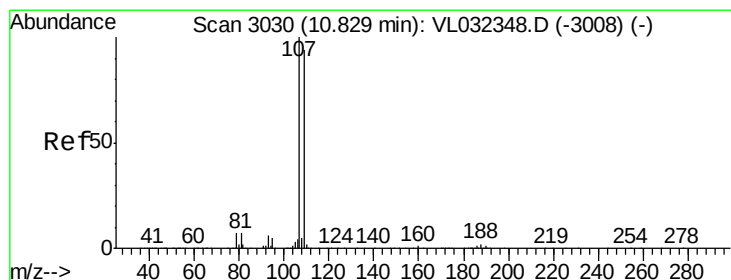
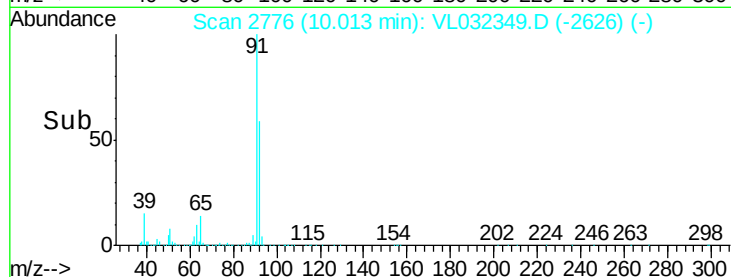
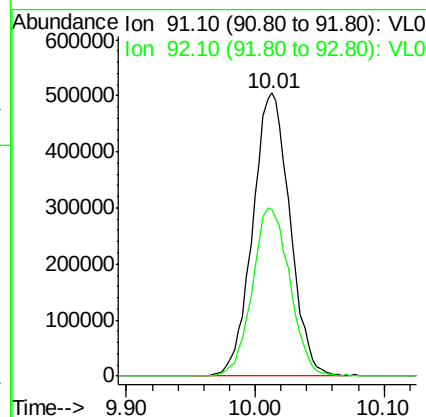
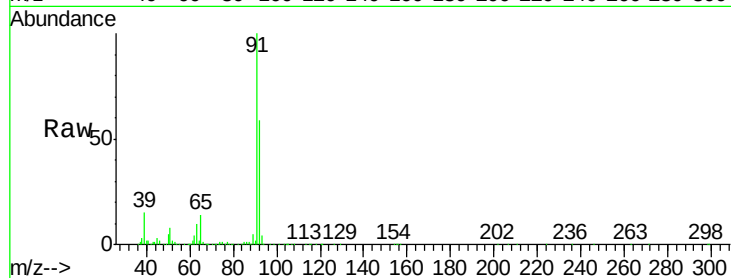
Ion Ratio Lower Upper

91 100

92 60.1 48.6 72.8

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 1.75 ppbv

RT: 10.82 min Scan# 3028

Delta R.T. -0.03 min

Lab File: VL032349.D

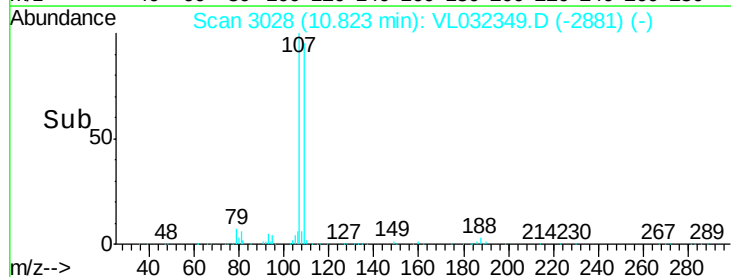
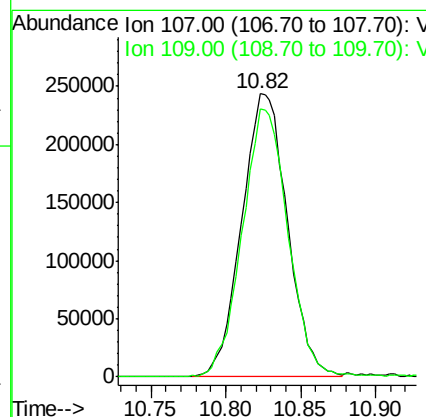
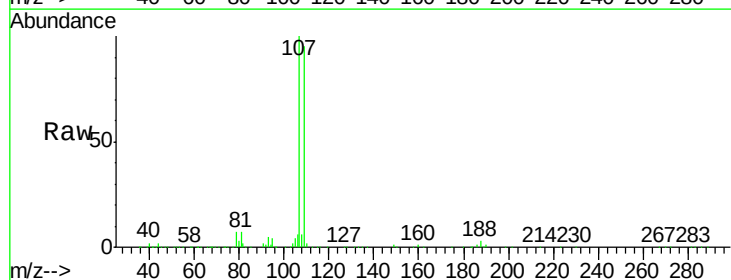
Acq: 15 Aug 2018 10:38

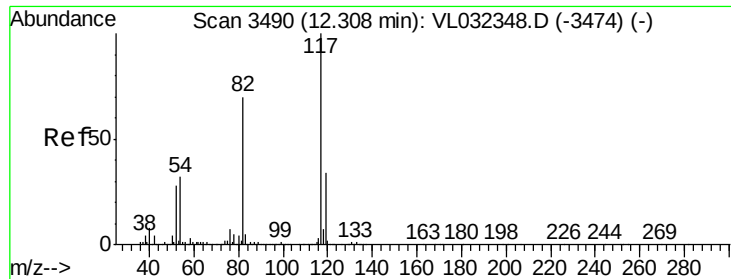
Tgt Ion: 107 Resp: 517603

Ion Ratio Lower Upper

107 100

109 94.2 74.1 111.1





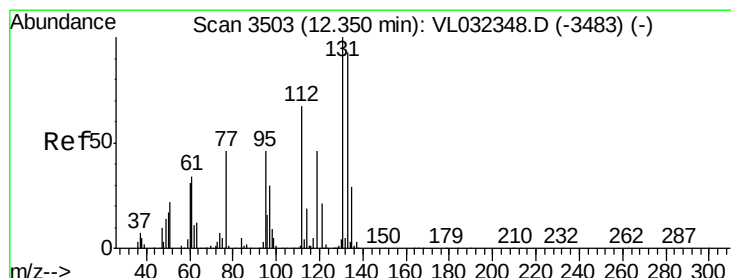
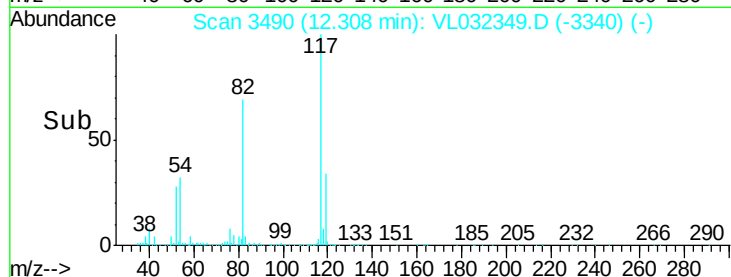
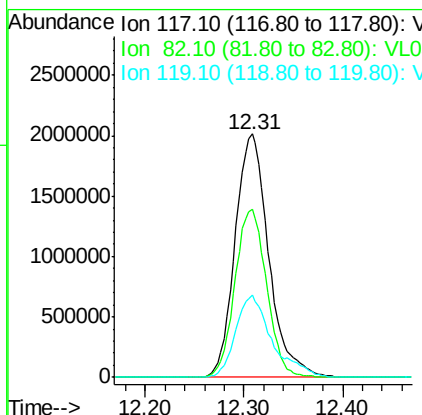
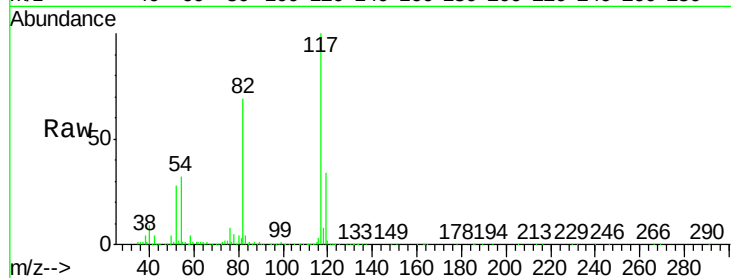
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.31 min Scan# 3490
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.6	52.6	78.8
119	36.7	25.7	38.5

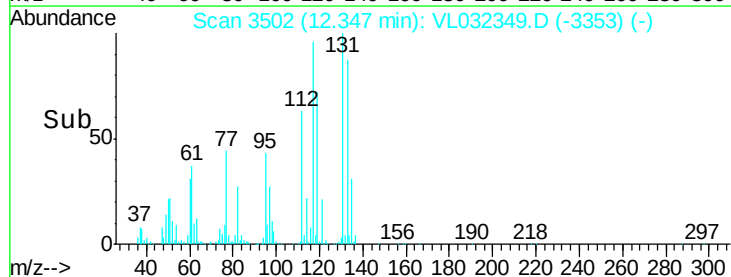
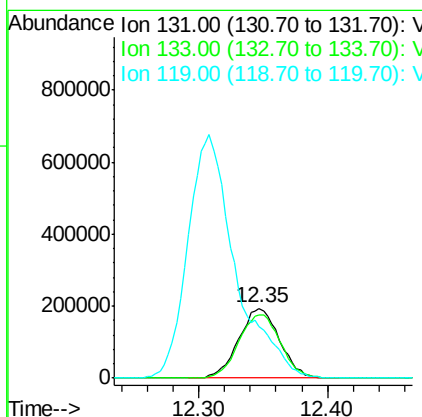
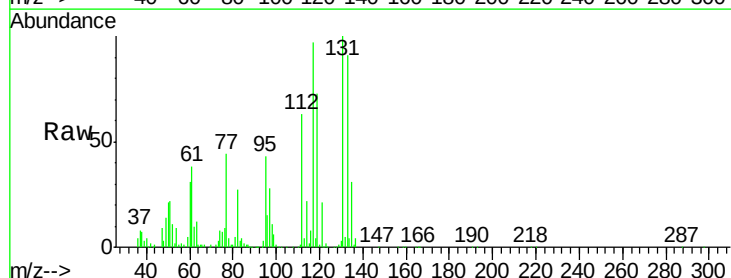
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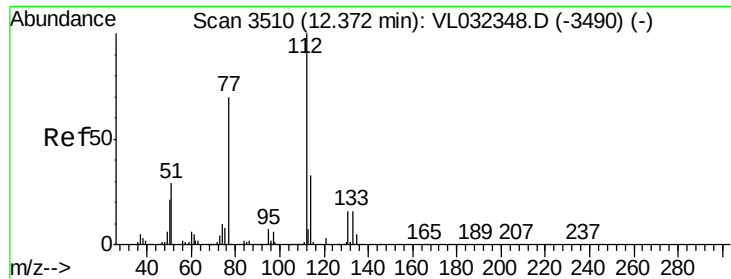
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.17 ppbv
RT: 12.35 min Scan# 3502
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.7	75.8	113.6
119	408.9	48.1	72.1#





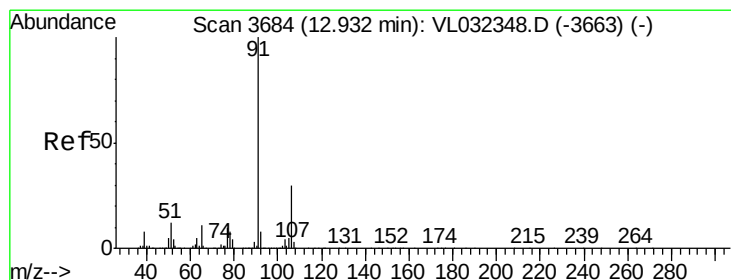
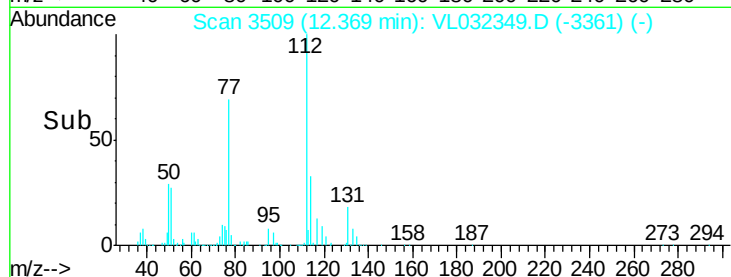
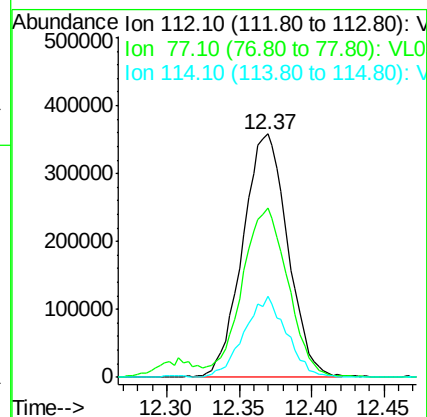
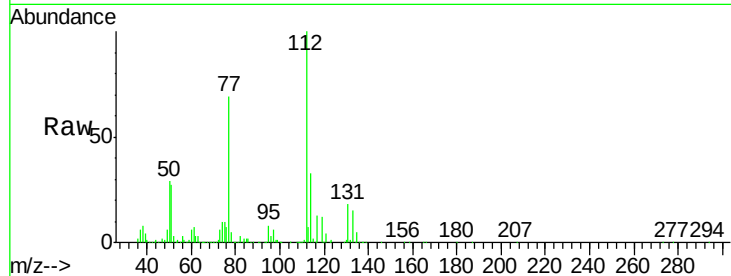
#57
Chlorobenzene
Concen: 2.09 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.03 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.9	56.5	84.7
114	32.9	28.4	34.7

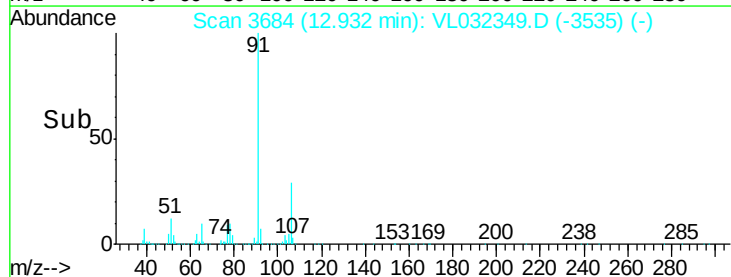
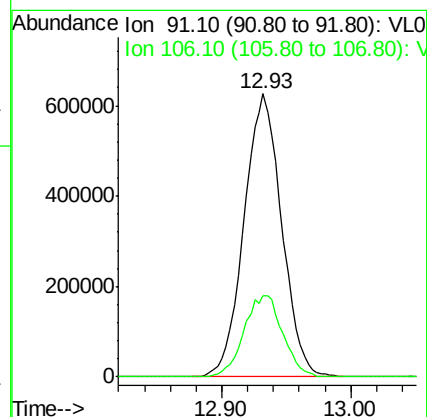
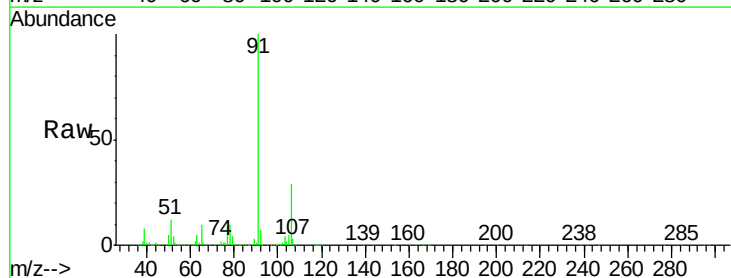
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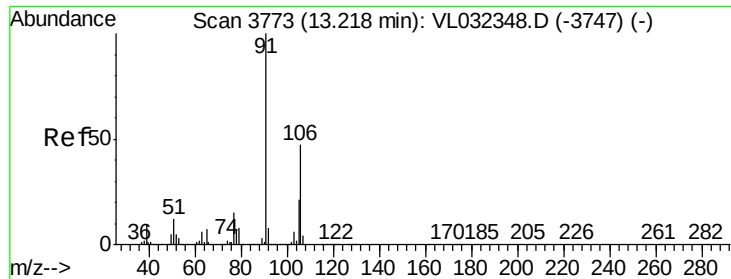
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#58
Ethyl Benzene
Concen: 2.12 ppbv
RT: 12.93 min Scan# 3684
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.8	25.0	37.4





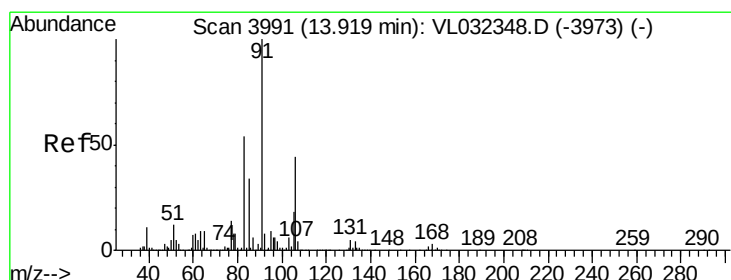
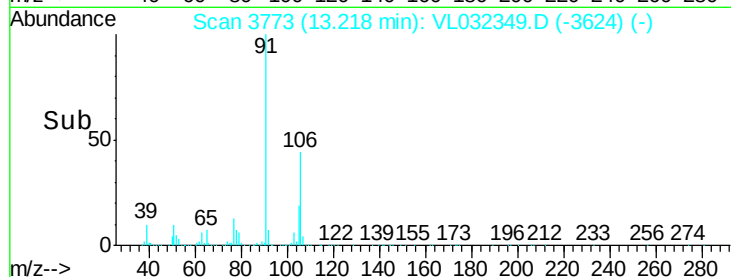
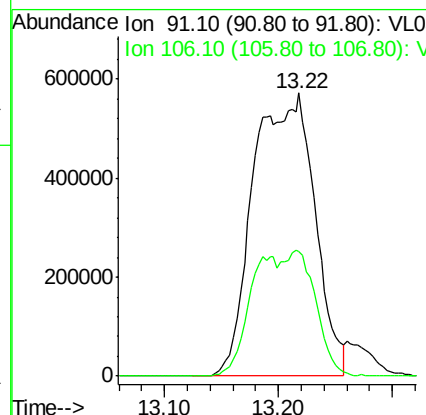
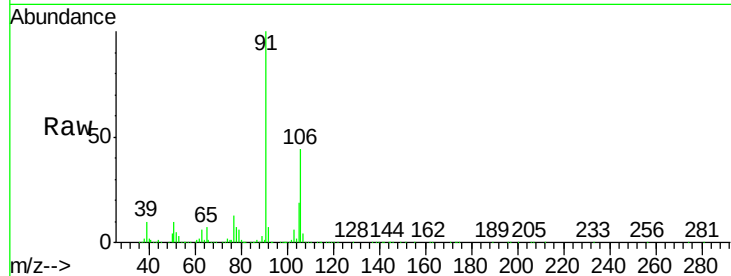
#59
m/p-Xylene
Concen: 4.19 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 2132309
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

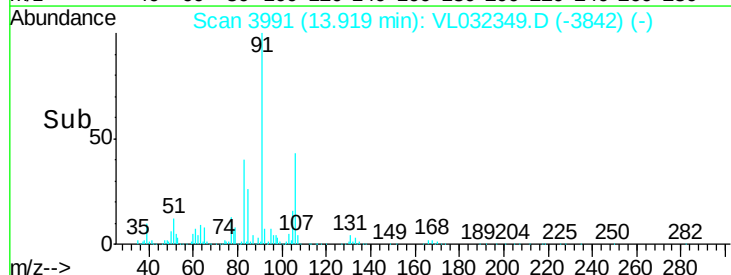
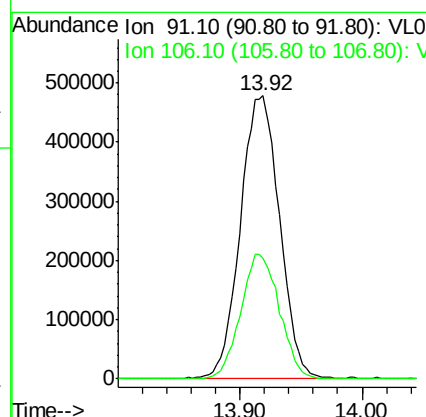
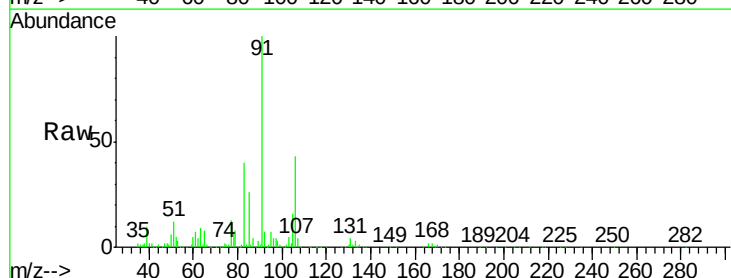
Manual Integrations
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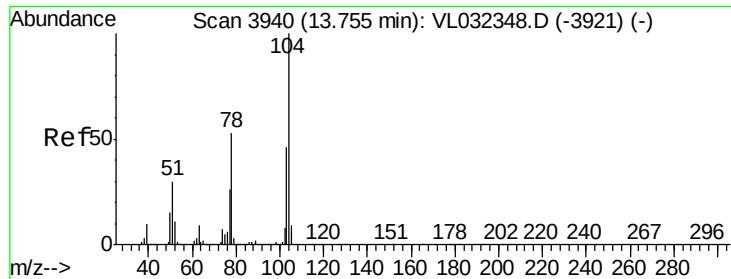
MMDadoda
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#60
o-Xylene
Concen: 2.11 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion: 91 Resp: 1054853
Ion Ratio Lower Upper
91 100
106 44.0 22.4 67.0





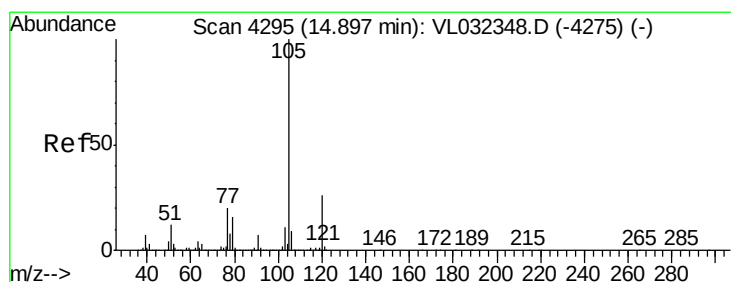
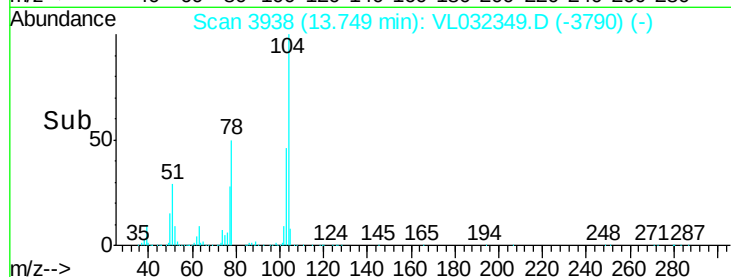
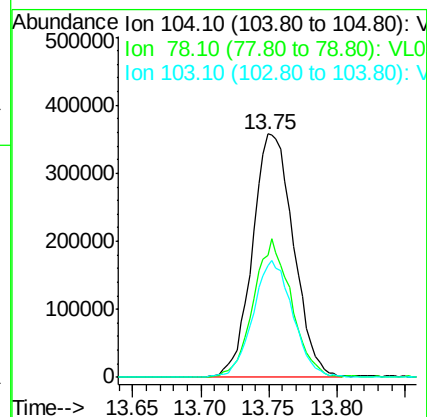
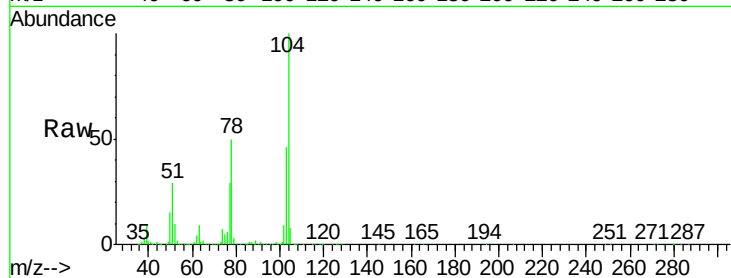
#61
Stvrene
Concen: 2.03 ppbv
RT: 13.75 min Scan# 3938
Delta R.T. -0.03 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.1	42.6	63.8
103	46.6	38.0	57.0

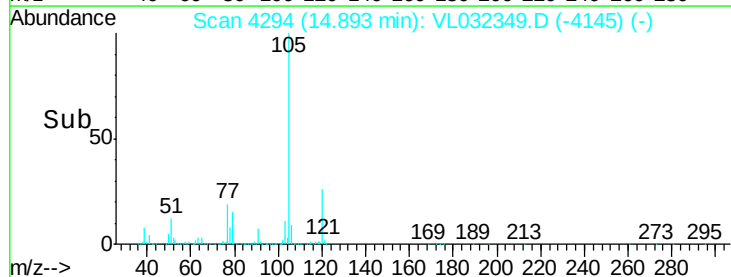
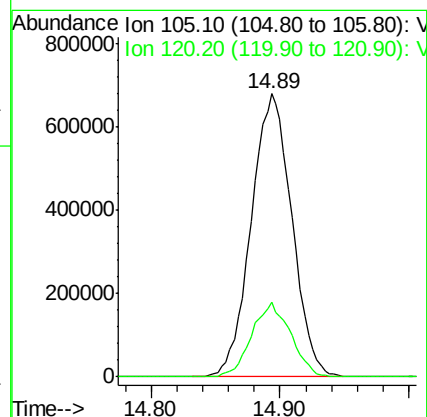
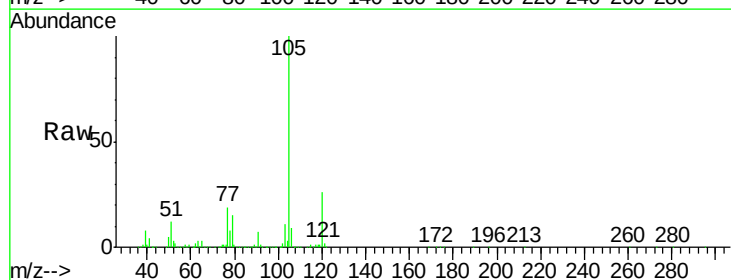
Manual Integrations
APPROVED

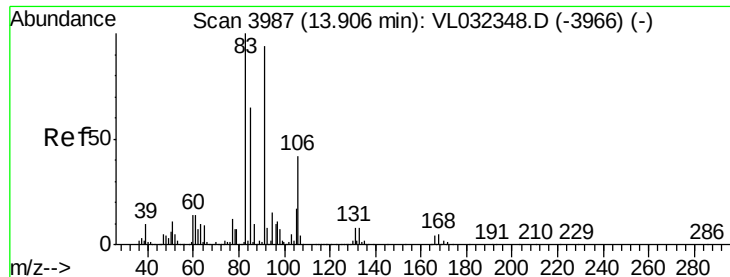
MMDadoda
8/17/2018 2:06:22 PM



#62
Isopropylbenzene
Concen: 2.10 ppbv
RT: 14.89 min Scan# 4294
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 2.07 ppbv

RT: 13.90 min Scan# 3986

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

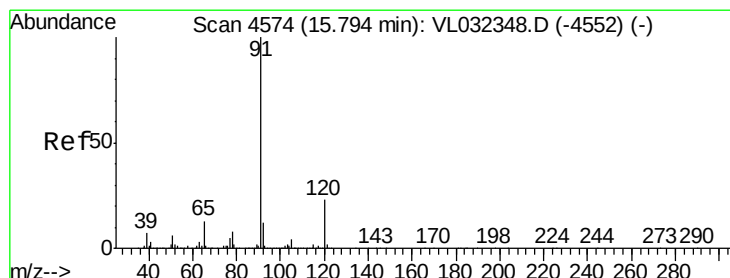
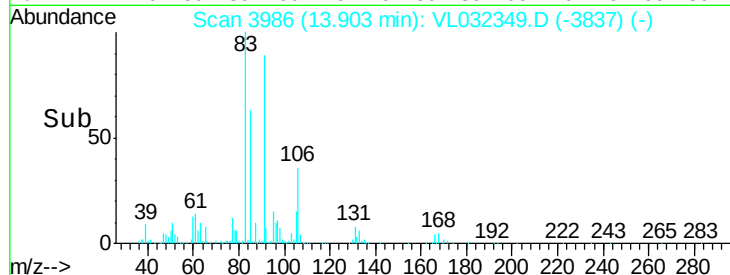
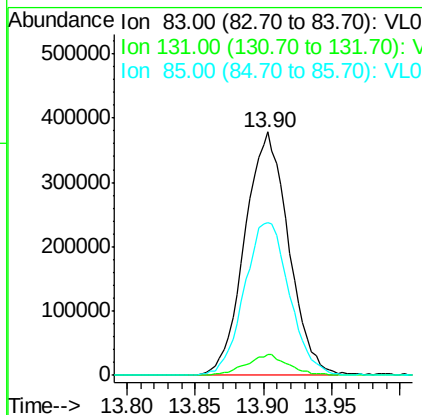
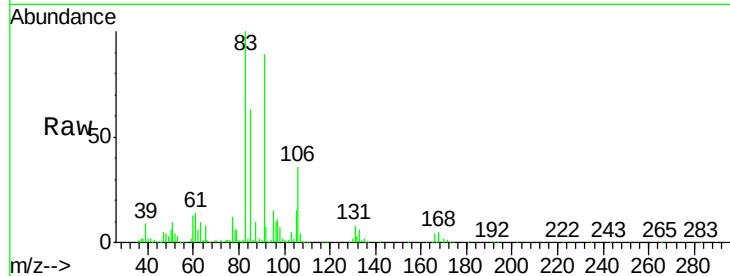
ClientSampleId :

VSTDIC002

Tot Ion:	83	Resp:	841837
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.3	12.8
85	65.5	32.6	97.7

Manual Integrations
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MMDadoda
8/17/2018 2:06:22 PM



#64

n-propylbenzene

Concen: 2.07 ppbv

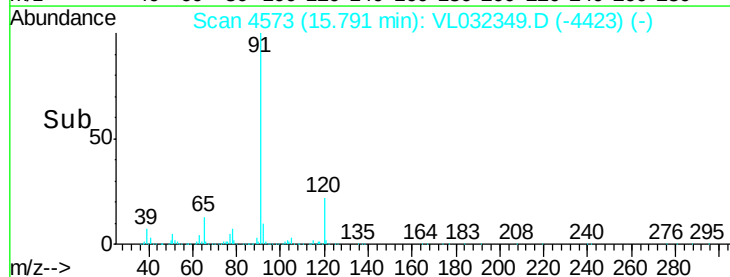
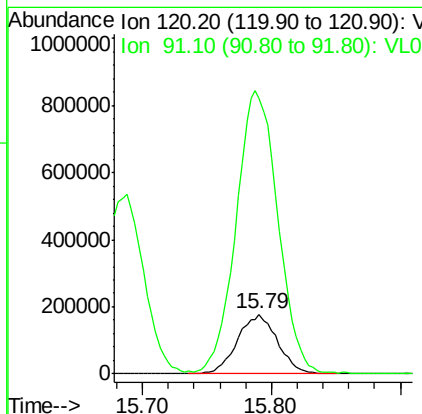
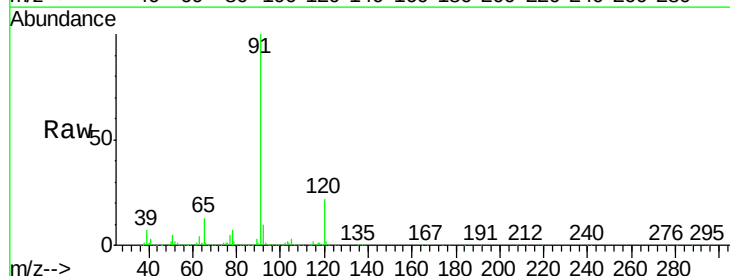
RT: 15.79 min Scan# 4573

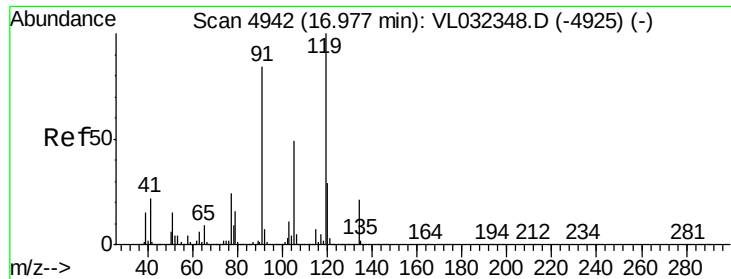
Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:	120	Resp:	382058
Ion Ratio	Lower	Upper	
120	100		
91	496.3	381.8	572.8





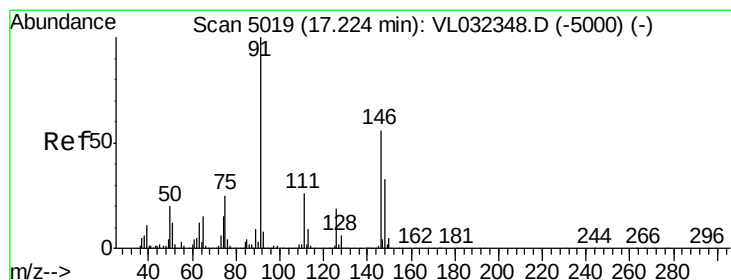
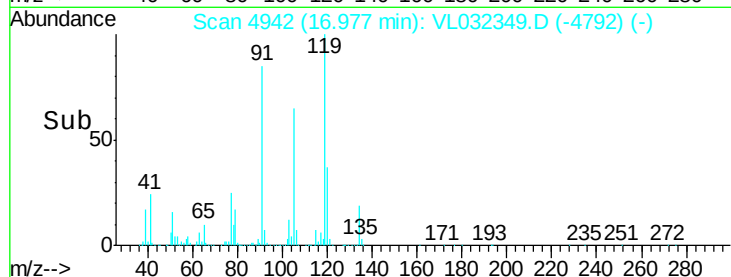
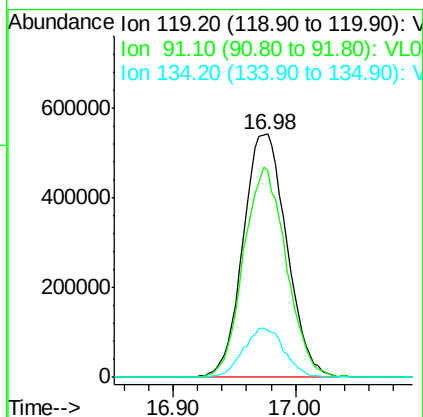
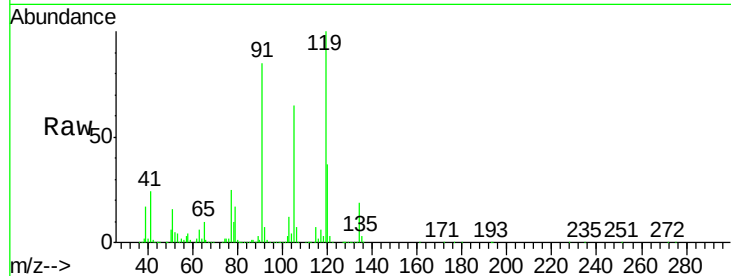
#65
tert-Butylbenzene
Concen: 2.24 ppbv
RT: 16.98 min Scan# 4942
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.8	67.5	101.3
134	19.1	15.8	23.6

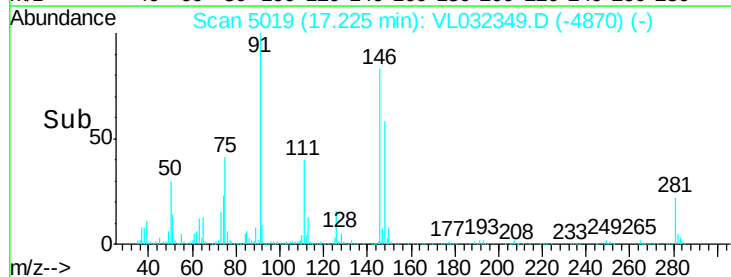
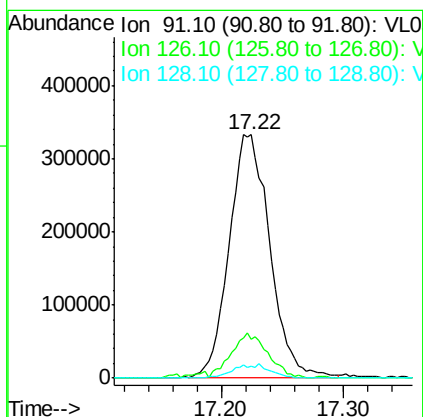
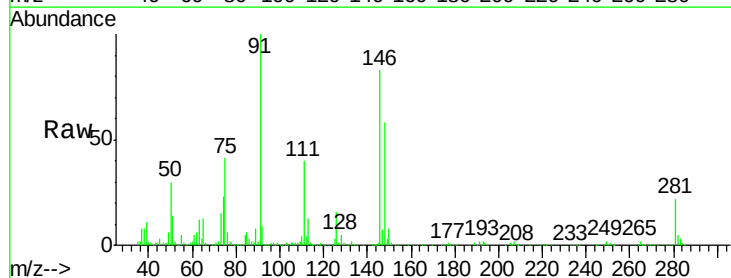
Manual Integrations
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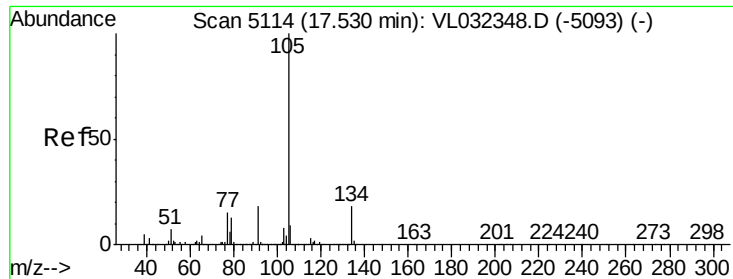
MMDadoda
8/17/2018 2:06:22 PM



#66
Benzyl Chloride
Concen: 2.13 ppbv
RT: 17.22 min Scan# 5019
Delta R.T. -0.02 min
Lab File: VL032349.D
Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.6	13.7	20.5
128	5.4	4.3	6.5





#67

sec-Butylbenzene

Concen: 2.20 ppbv

RT: 17.53 min Scan# 5113

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1973079

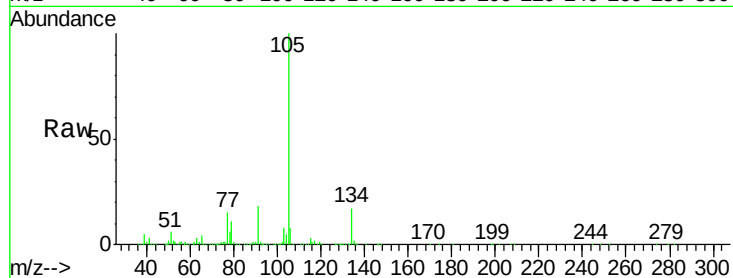
Ion Ratio Lower Upper

105 100

134 17.5 14.2 21.4

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:22 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.53

800000

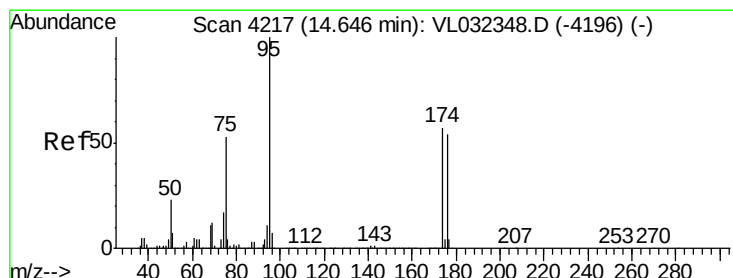
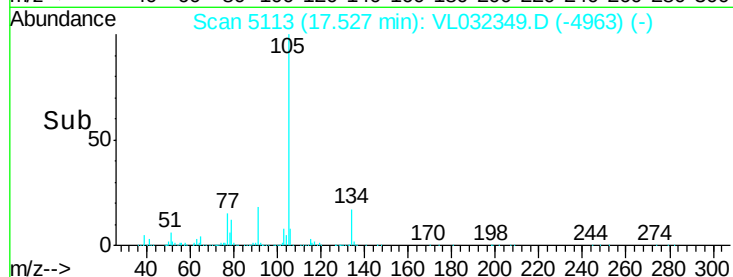
600000

400000

200000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.59 ppbv

RT: 14.65 min Scan# 4217

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

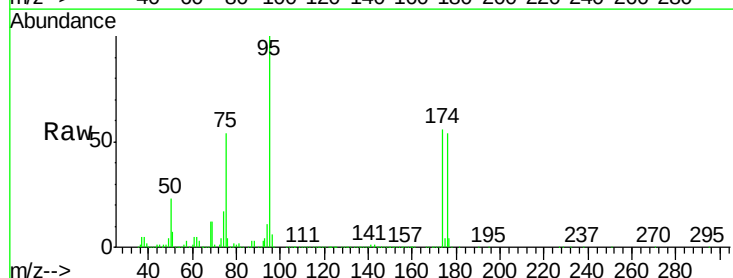
Tgt Ion: 95 Resp: 3550340

Ion Ratio Lower Upper

95 100

174 57.0 45.5 68.3

175 4.1 3.3 4.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.65

2000000

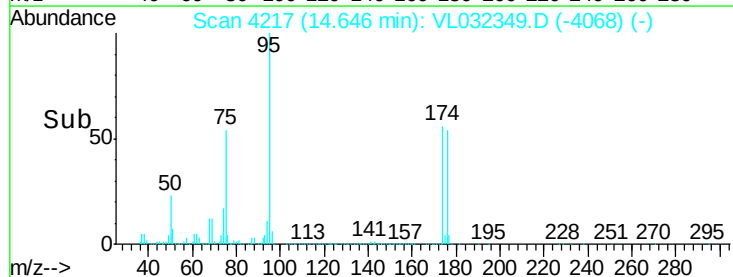
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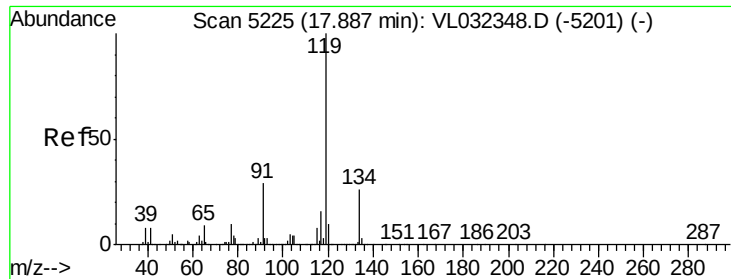
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500000

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Time-->





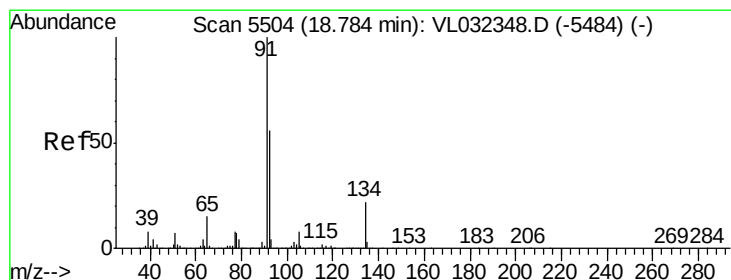
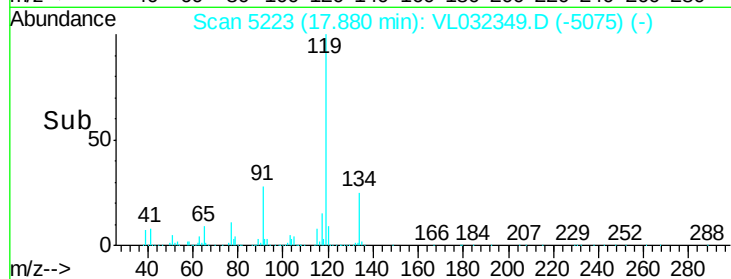
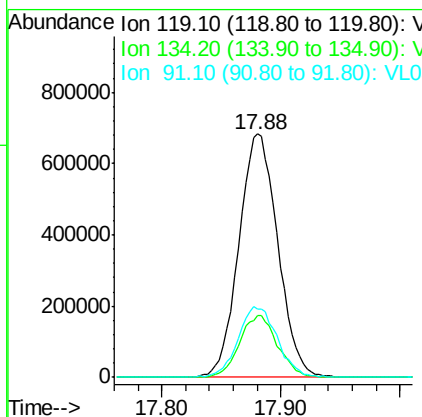
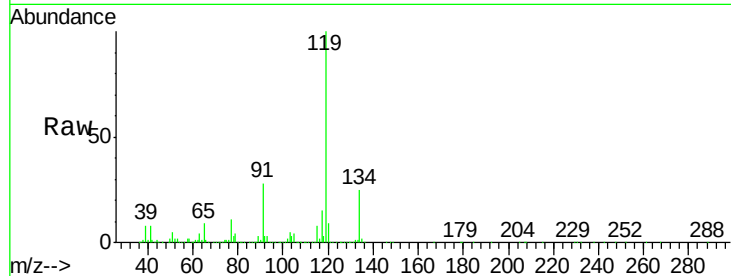
#69
 p-Isopropyltoluene
 Concen: 2.21 ppbv
 RT: 17.88 min Scan# 5223
 Delta R.T. -0.03 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	29.7	23.8	35.6

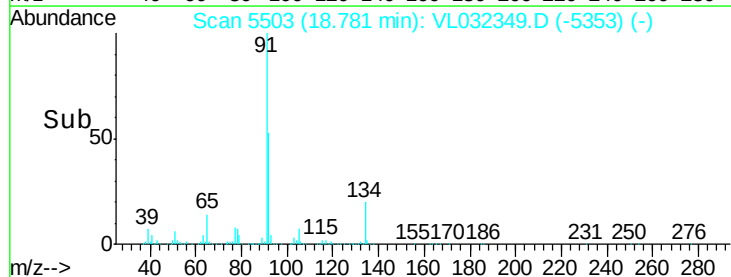
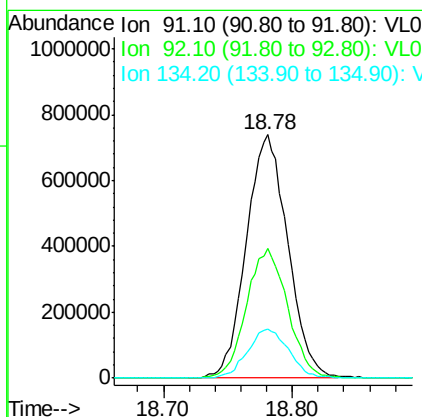
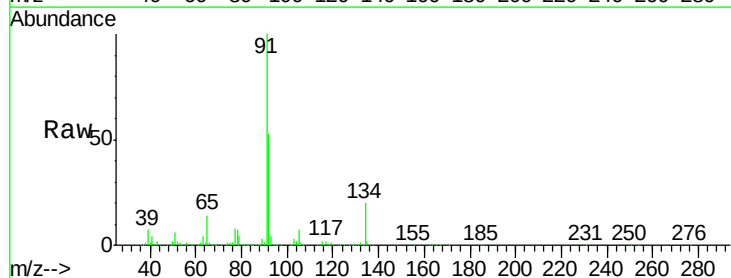
Manual Integrations
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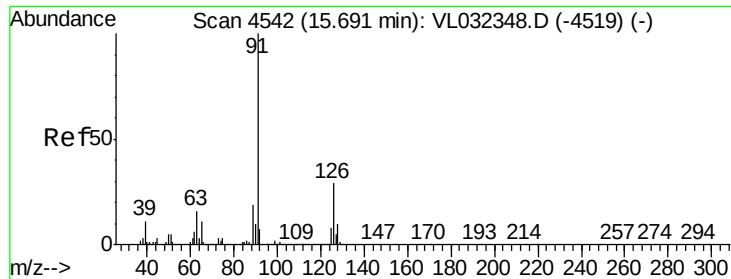
MMDadoda
 8/17/2018 2:06:22 PM



#70
 n-Butylbenzene
 Concen: 2.06 ppbv
 RT: 18.78 min Scan# 5503
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	44.2	66.4
134	20.2	17.4	26.2





#71

2-Chlorotoluene

Concen: 2.10 ppbv

RT: 15.69 min Scan# 4541

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 1166354

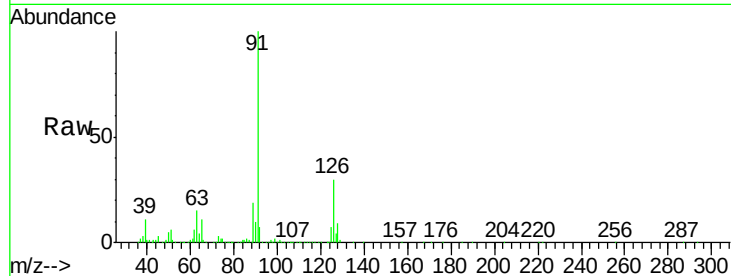
Ion Ratio Lower Upper

91 100

126 29.1 11.8 47.0

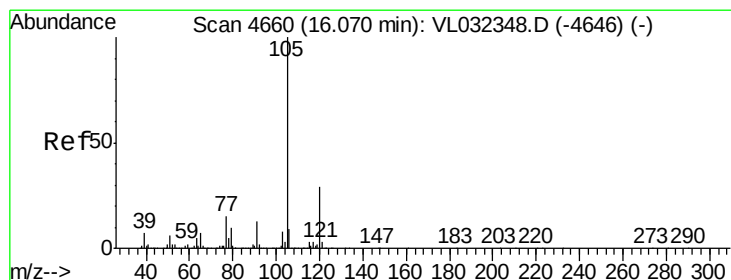
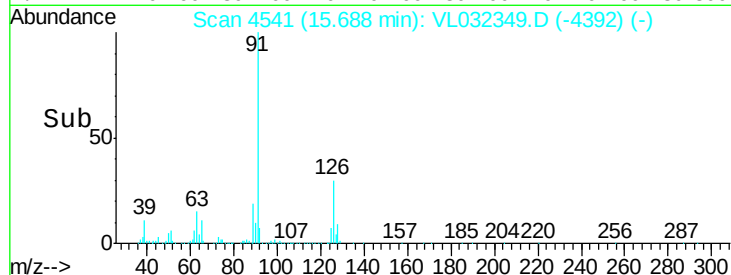
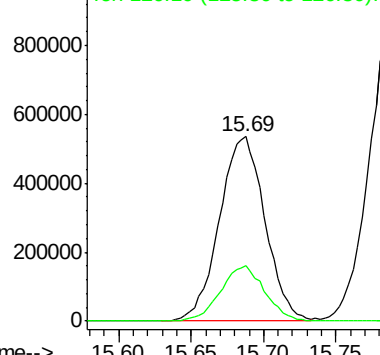
Manual Integrations
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8/17/2018 2:06:22 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 2.15 ppbv

RT: 16.07 min Scan# 4659

Delta R.T. -0.02 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:105 Resp: 1199879

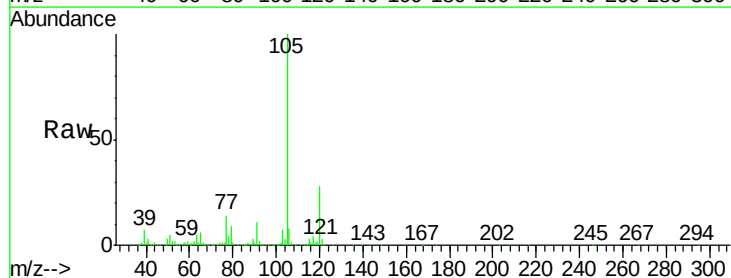
Ion Ratio Lower Upper

105 100

120 28.6 23.1 34.7

91 12.8 10.0 15.0

77 14.1 11.5 17.3

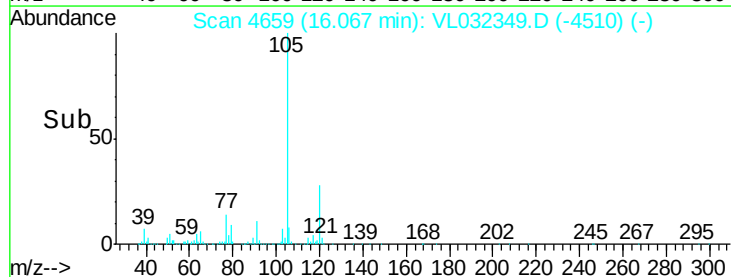
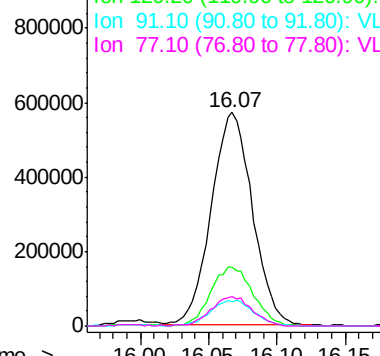


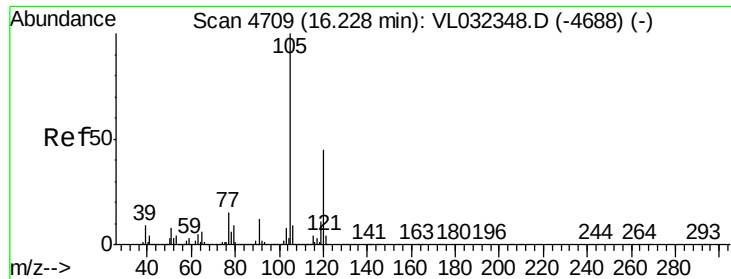
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 2.08 ppbv

RT: 16.22 min Scan# 4707

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1142612

Ion Ratio Lower Upper

105 100

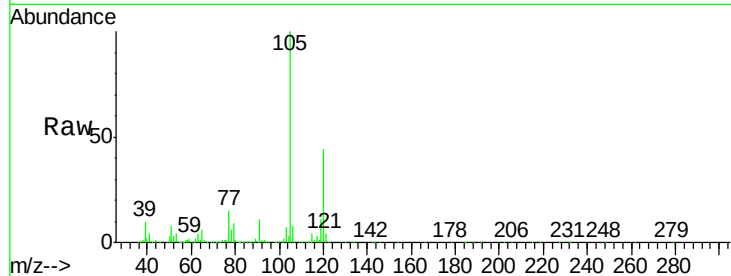
120 43.8 36.5 54.7

Manual Integrations

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MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.22

600000

500000

400000

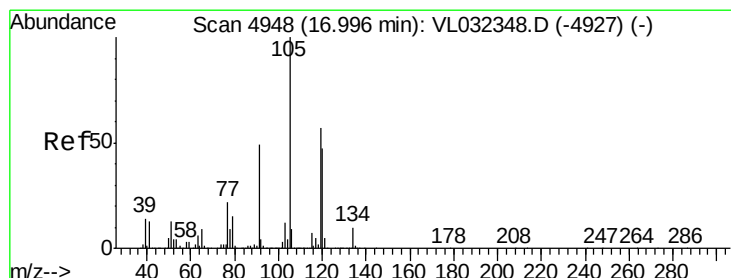
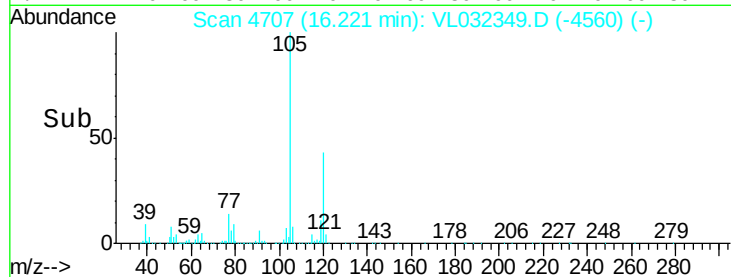
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.13 ppbv

RT: 16.99 min Scan# 4945

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Tgt Ion:105 Resp: 1234436

Ion Ratio Lower Upper

105 100

120 47.1 37.8 56.6

91 65.4 39.4 59.0#

77 26.3 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

800000

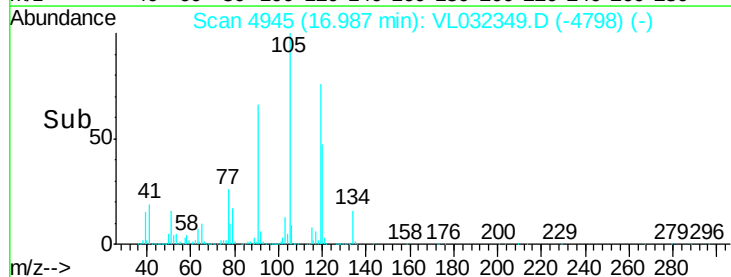
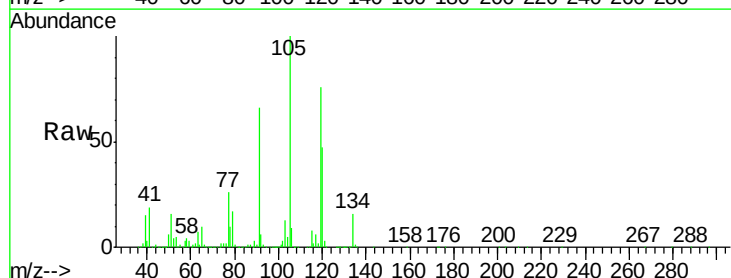
600000

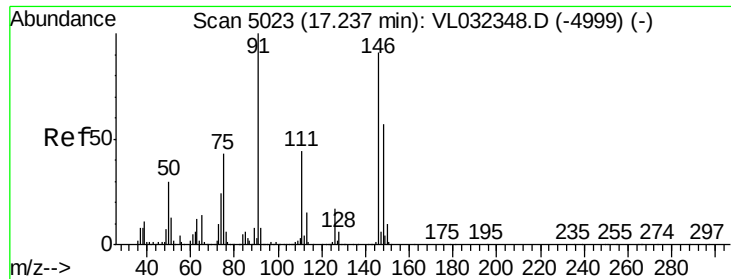
400000

200000

0

Time-->





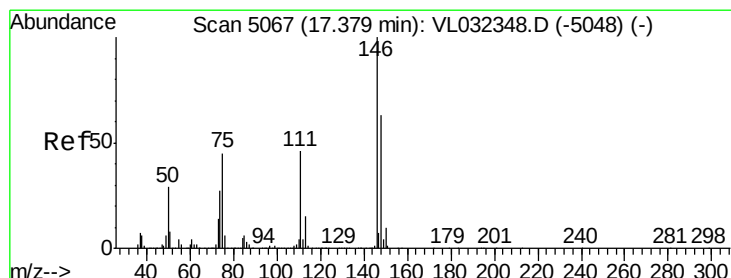
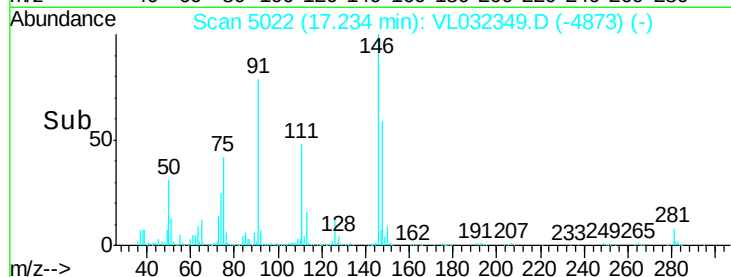
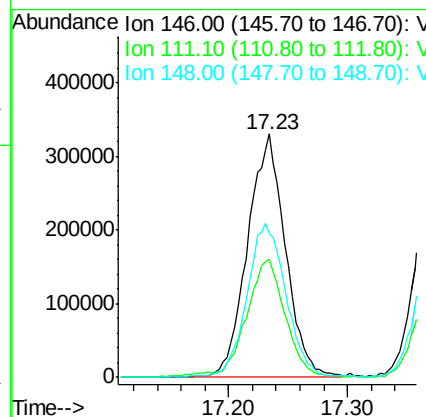
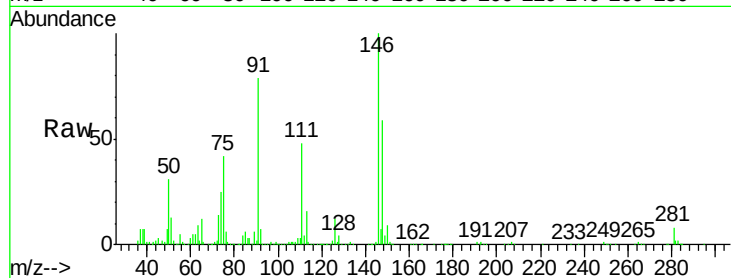
#75
 1,3-Dichlorobenzene
 Concen: 2.15 ppbv
 RT: 17.23 min Scan# 5022
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.0	24.6	73.8
148	66.2	31.6	95.0

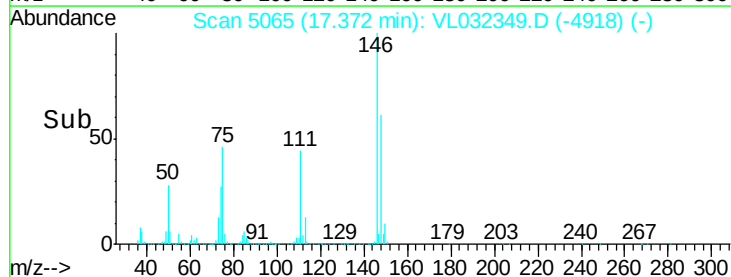
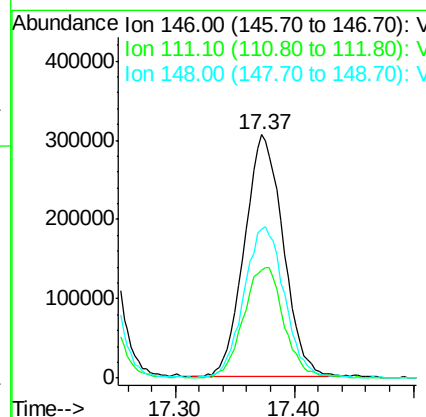
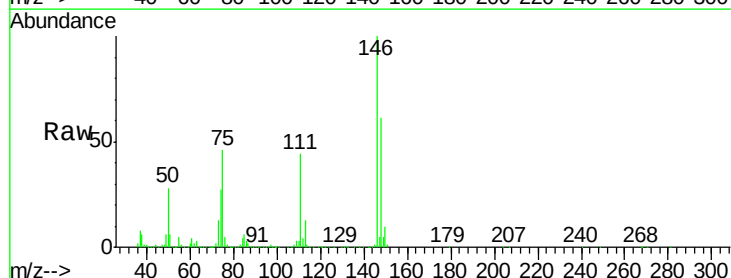
Manual Integrations
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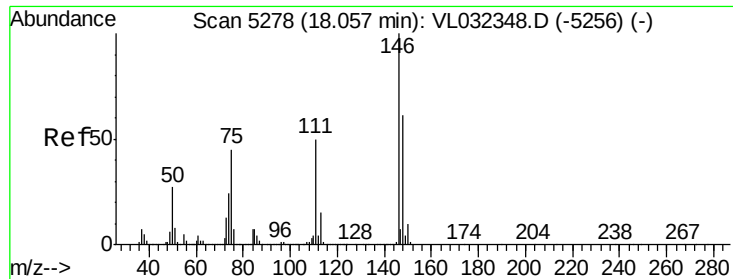
MMDadoda
 8/17/2018 2:06:22 PM



#76
 1,4-Dichlorobenzene
 Concen: 2.15 ppbv
 RT: 17.37 min Scan# 5065
 Delta R.T. -0.03 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.6	70.8
148	65.1	32.1	96.3





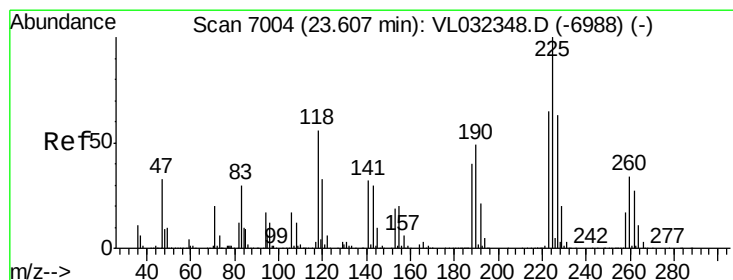
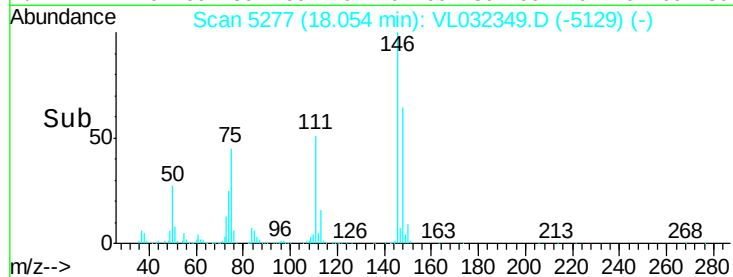
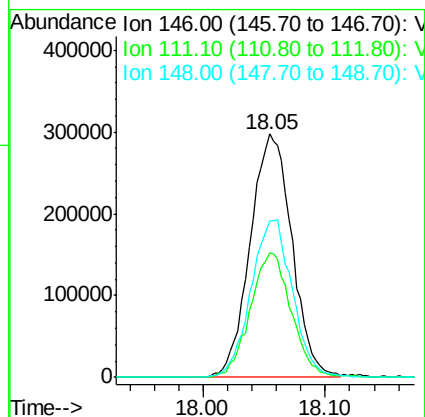
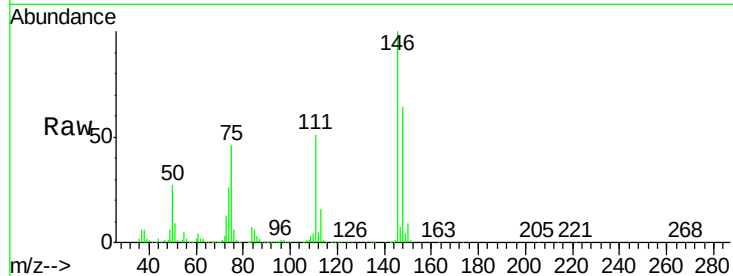
#77
 1,2-Dichlorobenzene
 Concen: 2.13 ppbv
 RT: 18.05 min Scan# 5277
 Delta R.T. -0.03 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.5	25.1	75.3
148	64.2	31.9	95.7

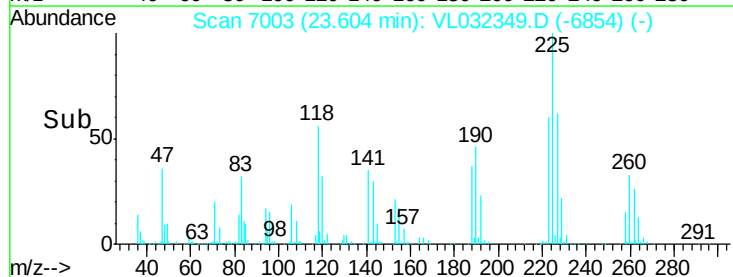
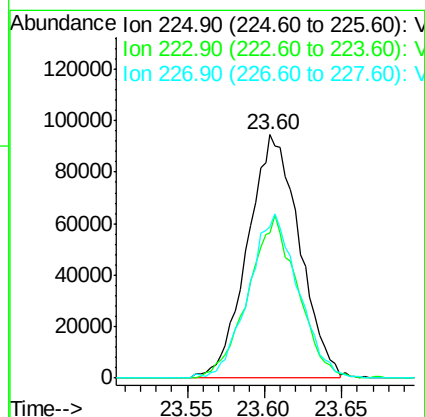
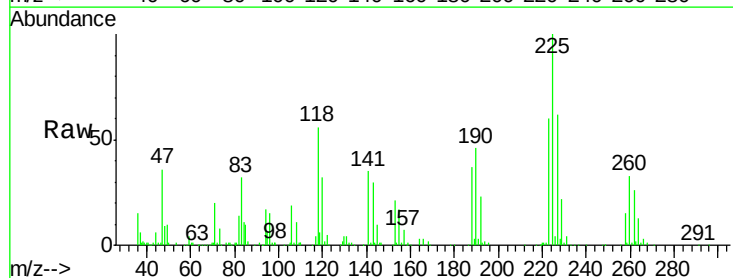
Manual Integrations
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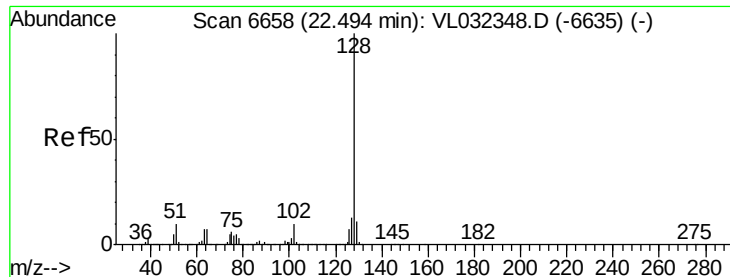
MMDadoda
 8/17/2018 2:06:22 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.88 ppbv
 RT: 23.60 min Scan# 7003
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	50.5	75.7
227	65.4	51.3	76.9





#79

Naphthalene

Concen: 1.56 ppbv

RT: 22.49 min Scan# 6658

Delta R.T. -0.03 min

Lab File: VL032349.D

Acq: 15 Aug 2018 10:38

Instrument :

MSVOA_L

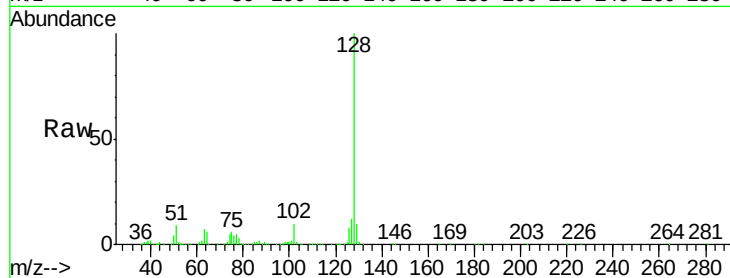
ClientSampleId :

VSTDIC002

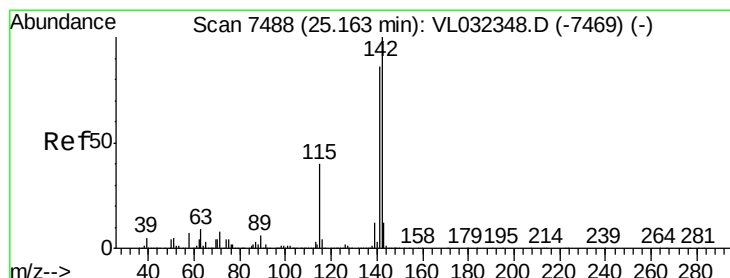
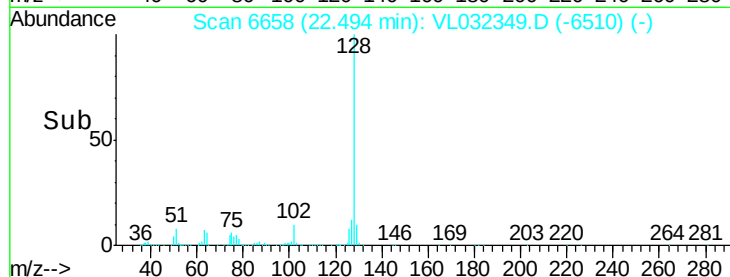
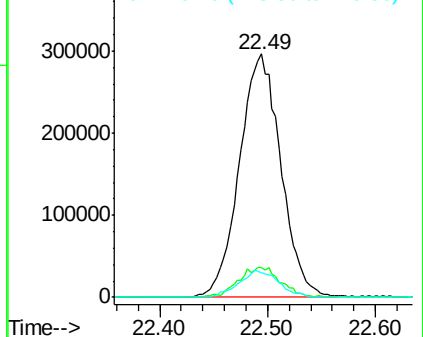
Tot Ion:	128	Resp:	786383
Ion Ratio		Lower	Upper
128	100		
127	12.0	9.9	14.9
129	10.1	8.8	13.2

Manual Integrations
APPROVED

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.44 ppbv

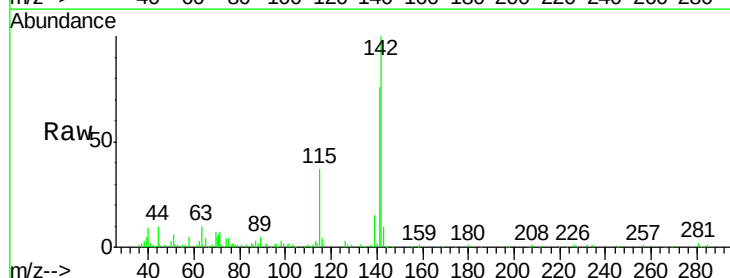
RT: 25.17 min Scan# 7490

Delta R.T. -0.01 min

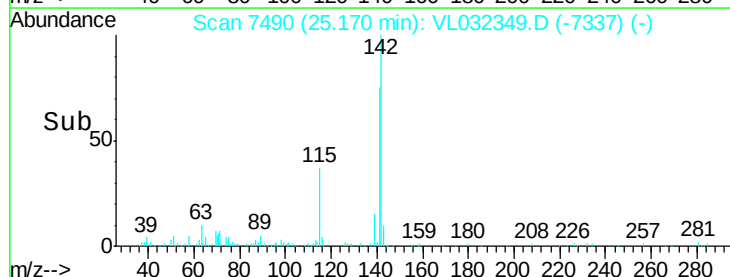
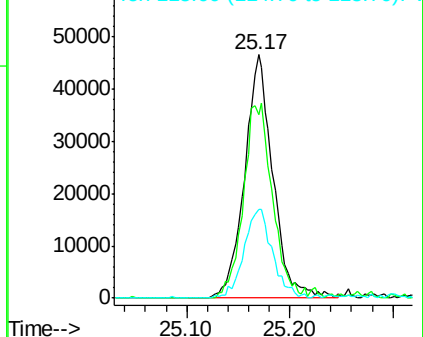
Lab File: VL032349.D

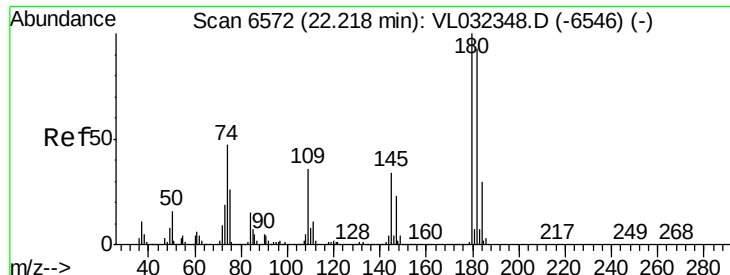
Acq: 15 Aug 2018 10:38

Tgt Ion:	142	Resp:	88659
Ion Ratio		Lower	Upper
142	100		
141	82.0	66.7	100.1
115	36.8	31.1	46.7



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 1.75 ppbv
 RT: 22.22 min Scan# 6572
 Delta R.T. -0.02 min
 Lab File: VL032349.D
 Acq: 15 Aug 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	439552		
182	94.5		76.2	114.2
184	29.8		24.3	36.5

Manual Integrations
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 8/17/2018 2:06:22 PM

