

Data File : VL032520.D
Acq On : 24 Sep 2018 20:21
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Sep 24 21:04:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 18:32:13 2018
QLast Update : Mon Sep 24 18:32:13 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1549515	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.33	114	3605694	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	5032826	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2829193	7.57	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	75.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	1312605	6.622	ppbv	99
3) Chlorodifluoromethane	3.03	51	1742517	12.423	ppbv	100
4) Chloromethane	3.19	50	1036063	12.199	ppbv	99
5) Vinyl Chloride	3.31	62	990130	11.811	ppbv	99
6) Bromomethane	3.53	94	578732	13.152	ppbv	99
7) Chloroethane	3.62	64	370367	12.765	ppbv	98
8) Dichlorotetrafluoroethane	3.24	85	1970498	11.201	ppbv	100
9) Propene	3.05	41	808295	14.286	ppbv	100
10) Heptane	8.28	43	3140658	15.473	ppbv	98
11) Trichlorofluoromethane	4.02	101	2265227	12.675	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1841627	15.206	ppbv	99
13) Ethanol	3.67	45	187460	10.629	ppbv	95
14) Bromoethene	3.81	108	717556	13.985	ppbv	100
15) Acetone	3.92	43	1748350	12.530	ppbv	100
16) 1,3-Butadiene	3.38	39	720485	10.973	ppbv	92
17) tert-Butyl alcohol	4.38	59	202564	9.433	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	912419	16.485	ppbv	95
19) Isopropyl Alcohol	4.04	45	1261029	13.776	ppbv	99
20) Methylene Chloride	4.43	84	813176	15.283	ppbv	99
21) Allyl Chloride	4.50	41	1627780	17.564	ppbv	99
22) trans-1,2-Dichloroethene	4.99	96	893803	14.883	ppbv	98
23) Vinyl Acetate	5.18	43	3681013	15.915	ppbv	99
24) 1,1-Dichloroethane	5.12	63	2712620	14.233	ppbv	99
25) Ethyl Acetate	5.80	43	4645082	14.097	ppbv	100
26) Hexane	5.81	57	2171672	14.718	ppbv	99
27) Carbon Disulfide	4.64	76	2430426	17.844	ppbv	99
28) Methyl tert-Butyl Ether	5.14	73	2778758	15.339	ppbv	99
29) Chloroform	5.88	83	3146953	13.988	ppbv	100
30) Cyclohexane	7.28	84	1915258	17.728	ppbv	98
31) cis-1,2-Dichloroethene	5.67	61	2243941	16.796	ppbv	98
32) 1,1,1-Trichloroethane	6.65	97	3172205	15.128	ppbv	98
34) 2-Butanone	5.35	43	3049946	12.735	ppbv	99
35) Carbon Tetrachloride	7.16	117	3244474	13.388	ppbv	100
36) Benzene	7.04	78	4258991	13.880	ppbv	99
37) 1,2-Dichloroethane	6.44	62	2467339	13.121	ppbv	99
38) Trichloroethene	7.99	130	1625879	13.949	ppbv	98
39) 1,2-Dichloropropane	7.77	63	1885051	14.358	ppbv	99
40) 1,4-Dioxane	7.98	88	505044	12.822	ppbv	77
41) Tetrahydrofuran	6.17	42	1826946	14.012	ppbv	97
42) Bromodichloromethane	7.95	83	3765264	14.518	ppbv	99
43) Methyl Methacrylate	8.17	69	2010202	15.442	ppbv	99

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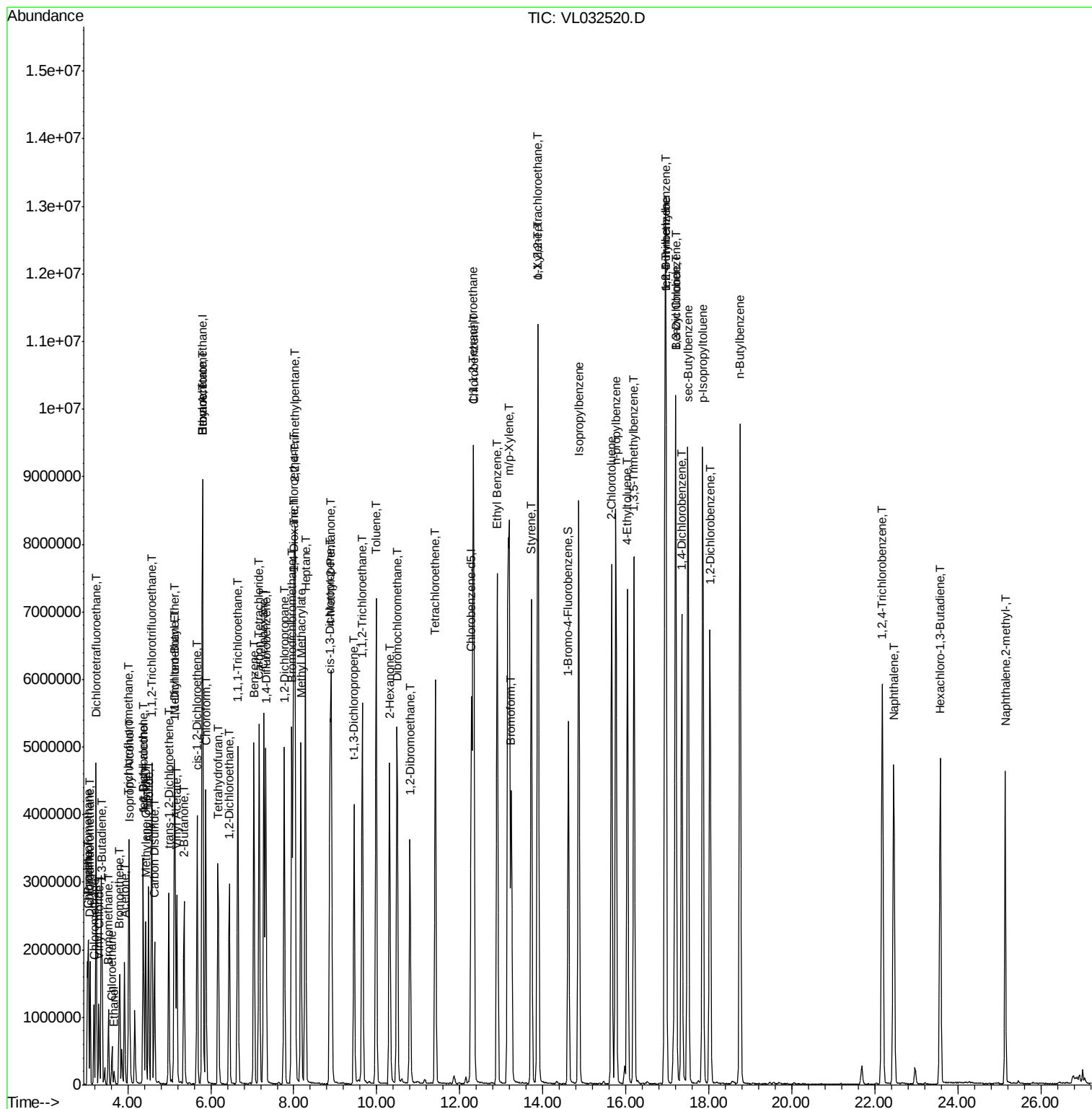
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	8080029	13.620	ppbv	100
45) t-1,3-Dichloropropene	9.45	75	2538279	18.222	ppbv	100
46) cis-1,3-Dichloropropene	8.87	75	3021446	16.974	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	2062653	14.777	ppbv	99
48) Dibromochloromethane	10.49	129	3412187	17.651	ppbv	100
49) Bromoform	13.24	173	2622888	15.610	ppbv	99
50) 4-Methyl-2-Pentanone	8.90	43	4879411	13.525	ppbv	99
51) 2-Hexanone	10.30	43	4532920	19.506	ppbv #	99
52) Tetrachloroethene	11.41	164	1471658	15.467	ppbv	99
53) Toluene	9.98	91	5779777	18.020	ppbv	99
54) 1,2-Dibromoethane	10.80	107	3144778	16.780	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.32	131	2189293	9.649	ppbv #	66
57) Chlorobenzene	12.34	112	3935956	9.785	ppbv #	97
58) Ethyl Benzene	12.90	91	7133172	11.844	ppbv	100
59) m/p-Xylene	13.19	91	5653022	10.528	ppbv #	26
60) o-Xylene	13.89	91	5689477	10.787	ppbv	99
61) Styrene	13.72	104	4390805	12.859	ppbv	99
62) Isopropylbenzene	14.86	105	8021082	10.818	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.88	83	4243605	8.999	ppbv	98
64) n-propylbenzene	15.76	120	2125674	10.966	ppbv	97
65) tert-Butylbenzene	16.95	119	6607670	10.342	ppbv	100
66) Benzyl Chloride	17.19	91	4424085	12.430	ppbv	100
67) sec-Butylbenzene	17.50	105	9832826	10.233	ppbv	100
69) p-Isopropyltoluene	17.85	119	7913849	10.627	ppbv	99
70) n-Butylbenzene	18.75	91	8687504	10.291	ppbv	100
71) 2-Chlorotoluene	15.65	91	6336095	11.185	ppbv	100
72) 4-Ethyltoluene	16.04	105	6716247	11.663	ppbv	100
73) 1,3,5-Trimethylbenzene	16.20	105	6345414	10.999	ppbv	97
74) 1,2,4-Trimethylbenzene	16.97	105	6214545	9.853	ppbv #	91
75) 1,3-Dichlorobenzene	17.21	146	3532508	9.439	ppbv	100
76) 1,4-Dichlorobenzene	17.35	146	3583364	10.319	ppbv	99
77) 1,2-Dichlorobenzene	18.03	146	3553678	9.842	ppbv	99
78) Hexachloro-1,3-Butadiene	23.58	225	1221454	9.053	ppbv	99
79) Naphthalene	22.45	128	6081844	11.858	ppbv	98
80) Naphthalene,2-methyl-	25.14	142	2400923	17.593	ppbv	99
81) 1,2,4-Trichlorobenzene	22.18	180	2829756	10.954	ppbv	99

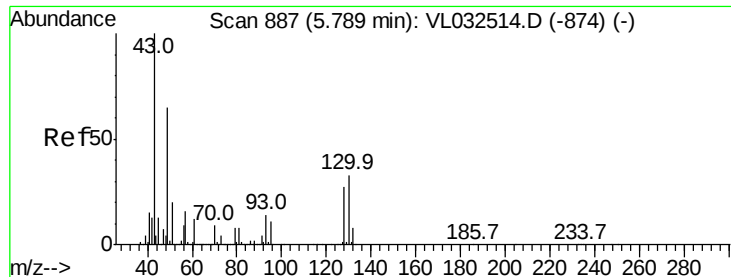
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.02 min

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VSTDIC015

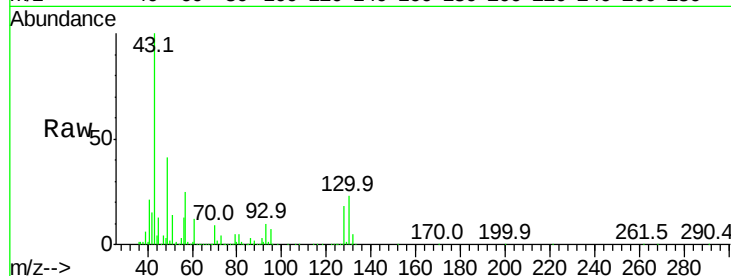
Tgt Ion: 49 Resp: 1549515

Ion Ratio Lower Upper

49 100

128 42.6 20.7 62.1

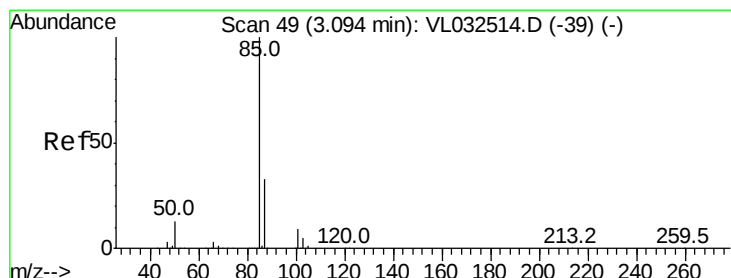
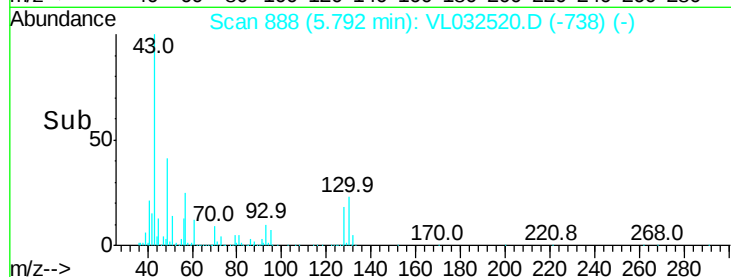
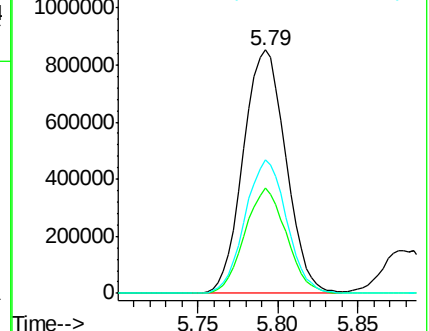
130 53.9 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 6.622 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032520.D

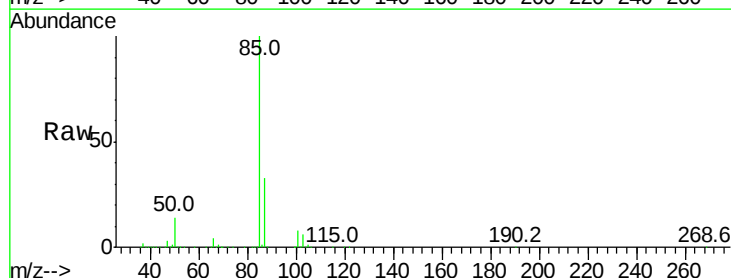
Acq: 24 Sep 2018 20:21

Tgt Ion: 85 Resp: 1312605

Ion Ratio Lower Upper

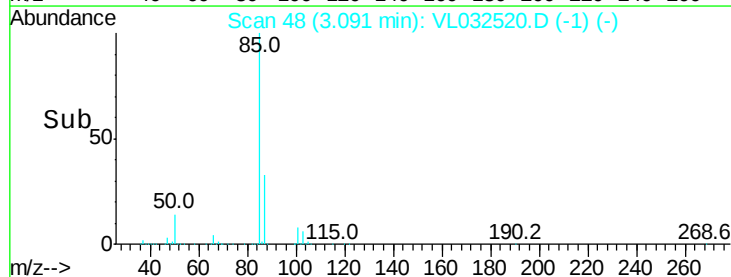
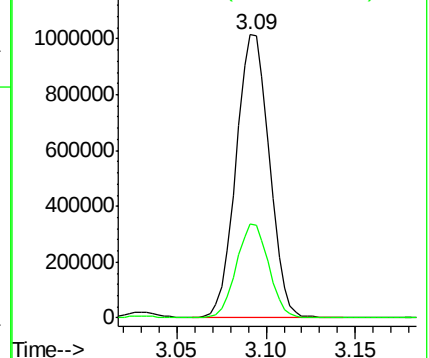
85 100

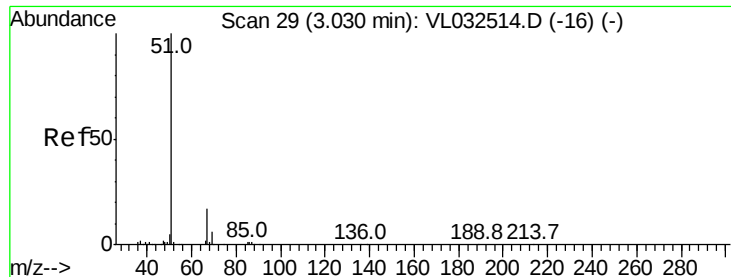
87 33.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.423 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

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ClientSampleId :

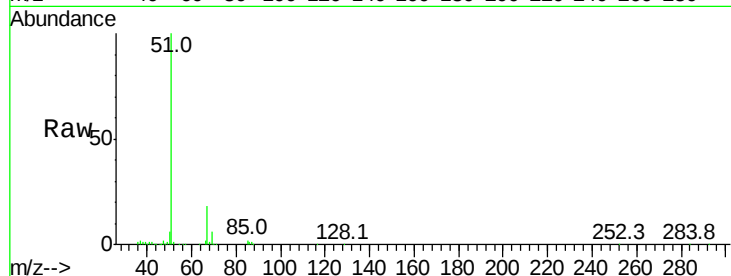
VSTDIC015

Tgt Ion: 51 Resp: 1742517

Ion Ratio Lower Upper

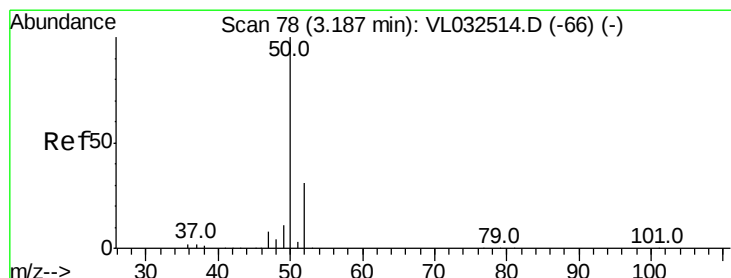
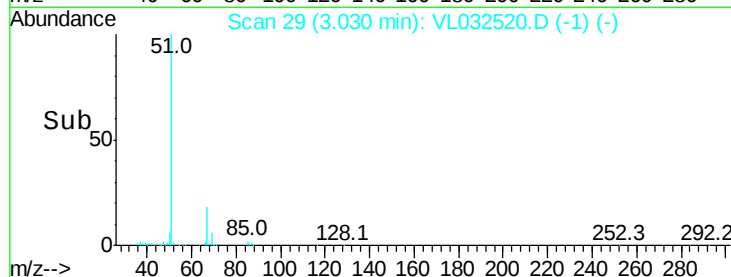
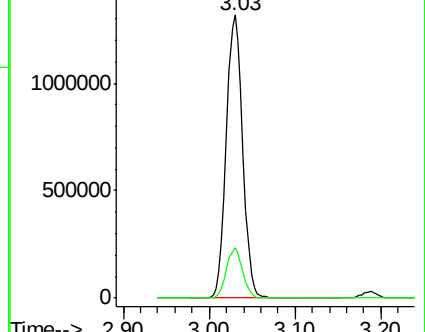
51 100

67 17.5 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.199 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032520.D

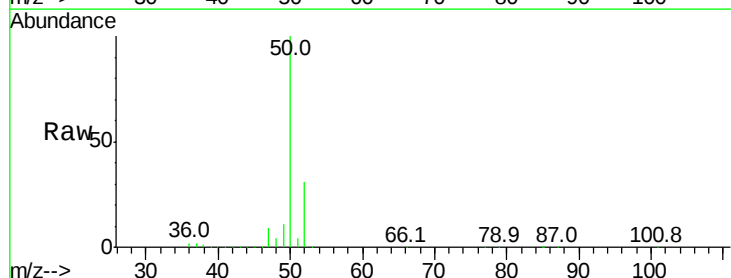
Acq: 24 Sep 2018 20:21

Tgt Ion: 50 Resp: 1036063

Ion Ratio Lower Upper

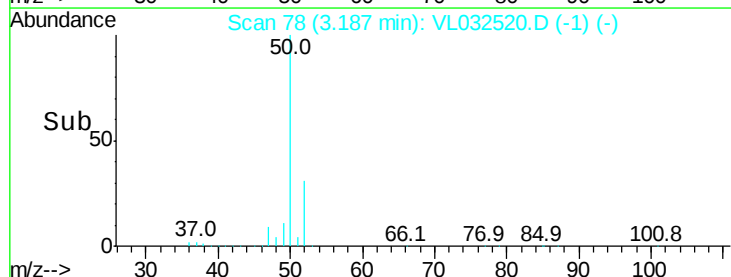
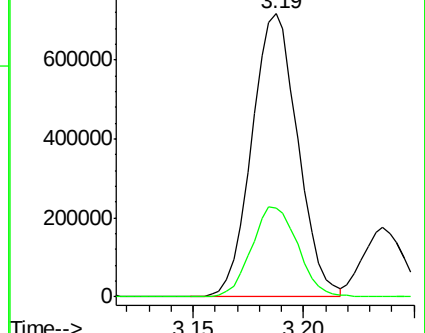
50 100

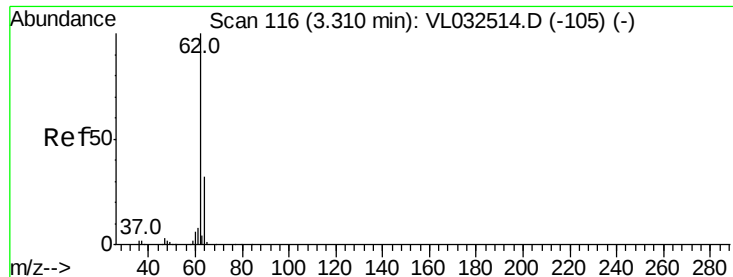
52 31.4 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.811 ppbv

RT: 3.31 min Scan# 115

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

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ClientSampleId :

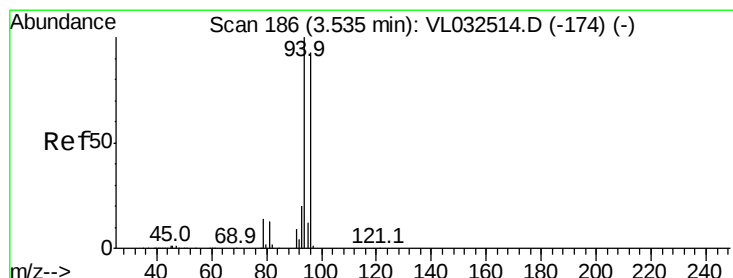
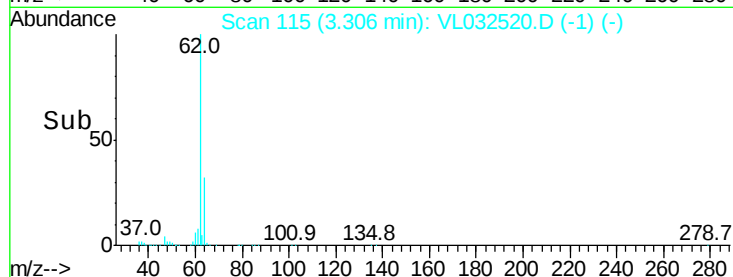
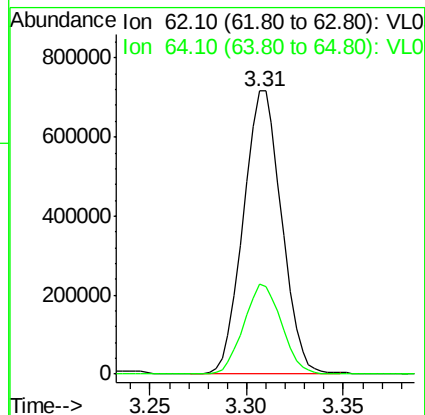
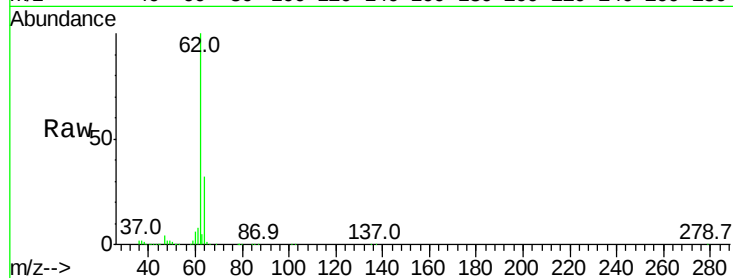
VSTDIC015

Tgt Ion: 62 Resp: 990130

Ion Ratio Lower Upper

62 100

64 32.0 25.0 37.6



#6

Bromomethane

Concen: 13.152 ppbv

RT: 3.53 min Scan# 186

Delta R.T. -0.01 min

Lab File: VL032520.D

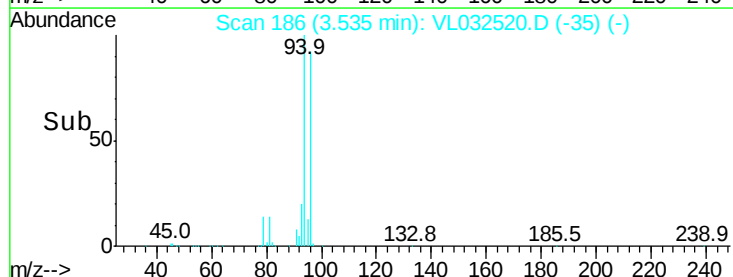
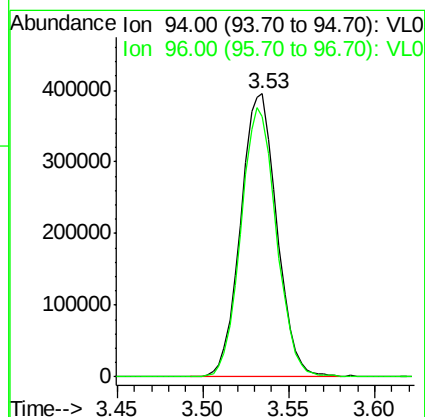
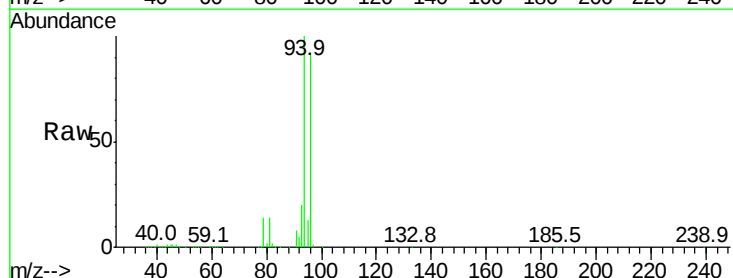
Acq: 24 Sep 2018 20:21

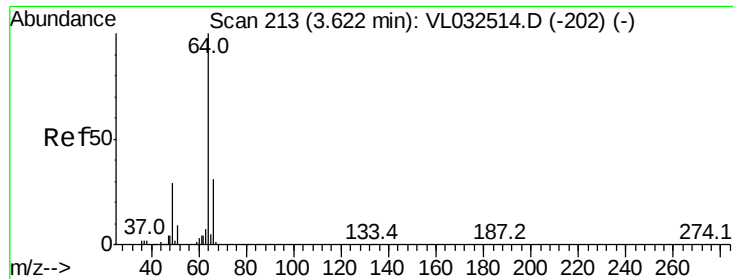
Tgt Ion: 94 Resp: 578732

Ion Ratio Lower Upper

94 100

96 91.9 72.8 109.2





#7

Chloroethane

Concen: 12.765 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

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ClientSampleId :

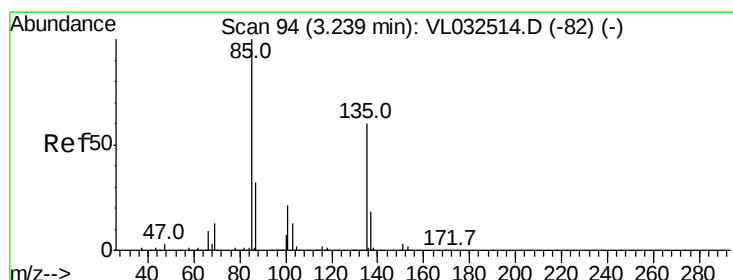
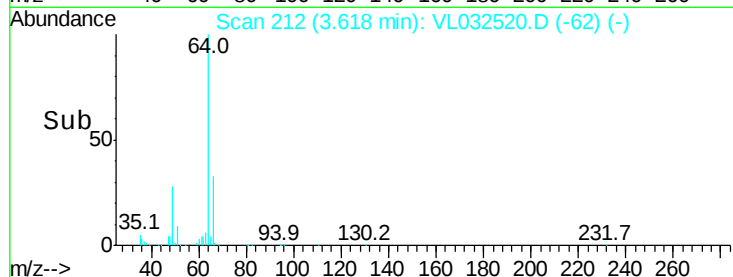
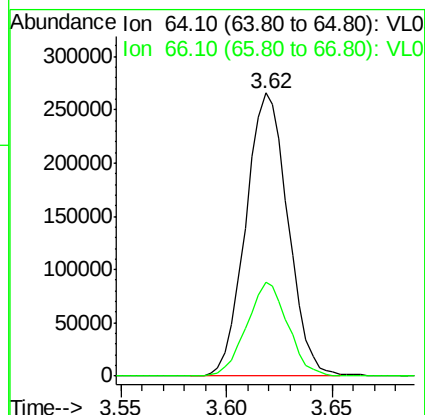
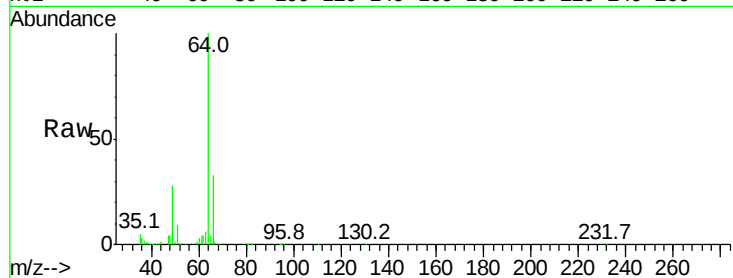
VSTDIC015

Tgt Ion: 64 Resp: 370367

Ion Ratio Lower Upper

64 100

66 33.4 25.8 38.6



#8

Dichlorotetrafluoroethane

Concen: 11.201 ppbv

RT: 3.24 min Scan# 93

Delta R.T. -0.02 min

Lab File: VL032520.D

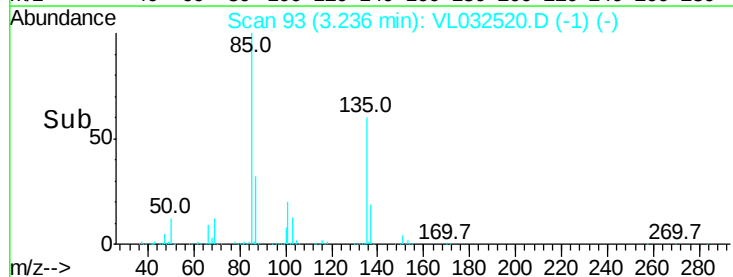
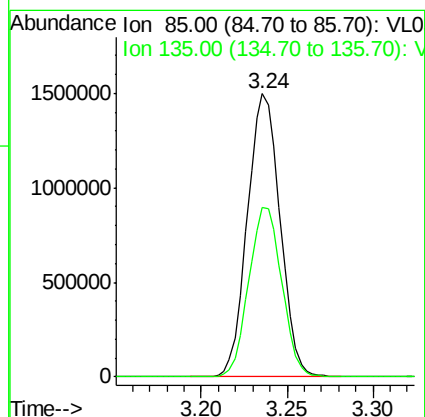
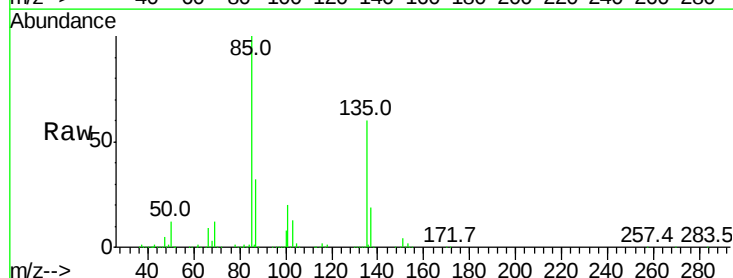
Acq: 24 Sep 2018 20:21

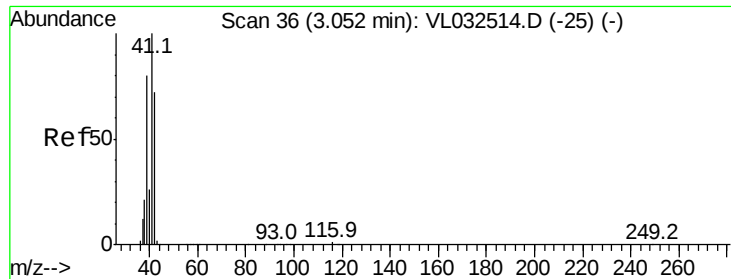
Tgt Ion: 85 Resp: 1970498

Ion Ratio Lower Upper

85 100

135 60.7 48.6 72.8





#9

Propene

Concen: 14.286 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

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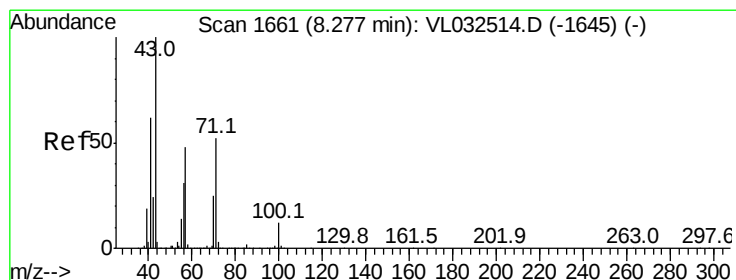
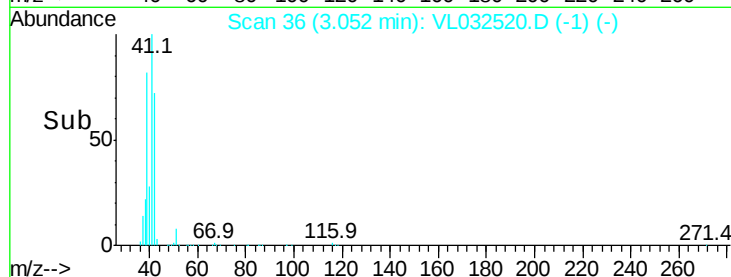
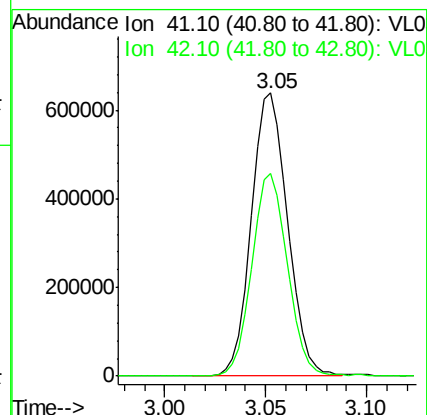
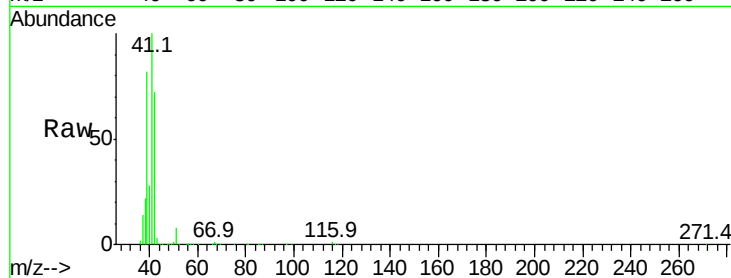
VSTDIC015

Tgt Ion: 41 Resp: 808295

Ion Ratio Lower Upper

41 100

42 70.5 56.6 84.8



#10

Heptane

Concen: 15.473 ppbv

RT: 8.28 min Scan# 1662

Delta R.T. -0.02 min

Lab File: VL032520.D

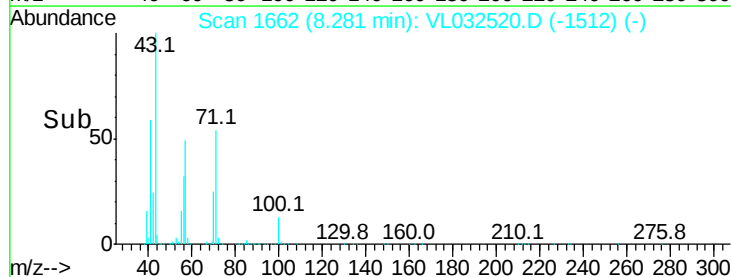
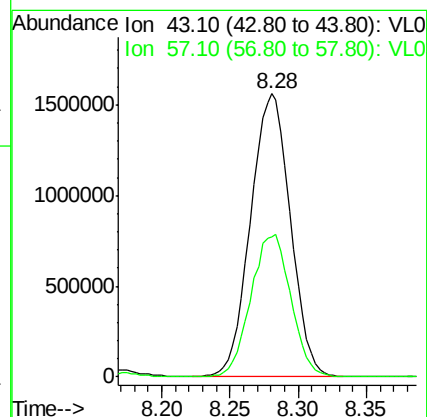
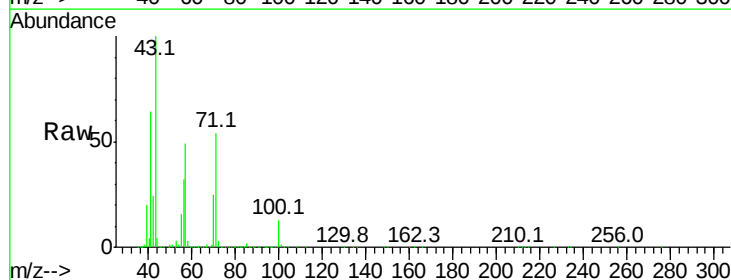
Acq: 24 Sep 2018 20:21

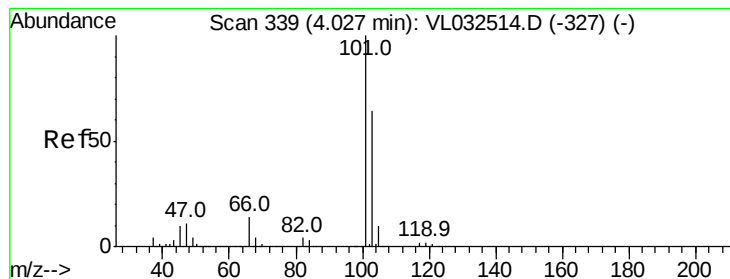
Tgt Ion: 43 Resp: 3140658

Ion Ratio Lower Upper

43 100

57 50.8 39.6 59.4





#11

Trichlorofluoromethane

Concen: 12.675 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

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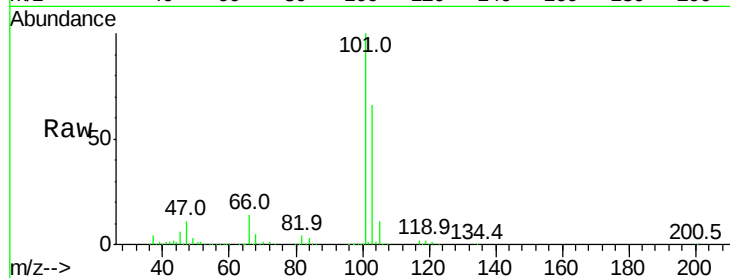
VSTDIC015

Tgt Ion:101 Resp: 2265227

Ion Ratio Lower Upper

101 100

103 65.9 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

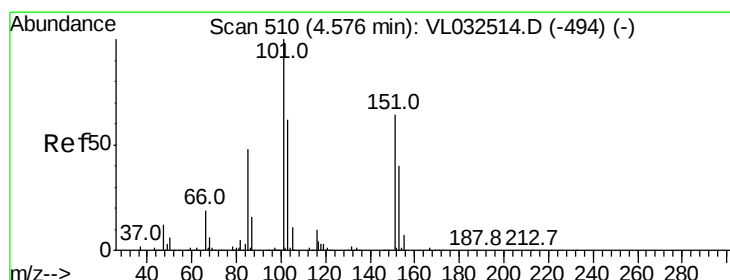
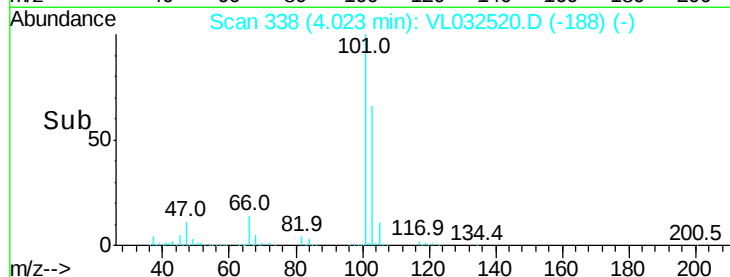
1500000

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 15.206 ppbv

RT: 4.58 min Scan# 510

Delta R.T. -0.02 min

Lab File: VL032520.D

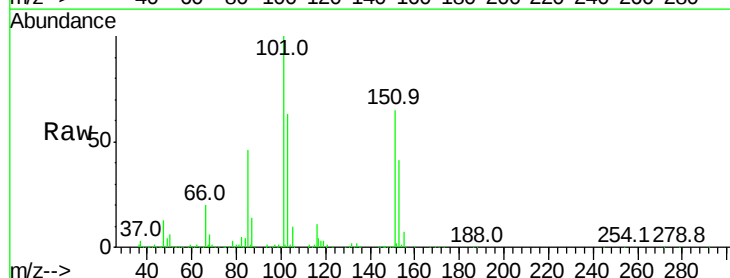
Acq: 24 Sep 2018 20:21

Tgt Ion:101 Resp: 1841627

Ion Ratio Lower Upper

101 100

151 65.2 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

1200000

1000000

800000

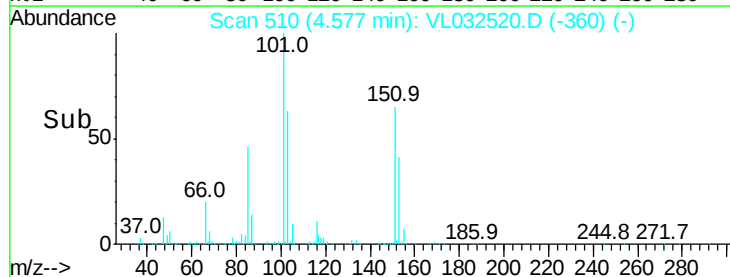
600000

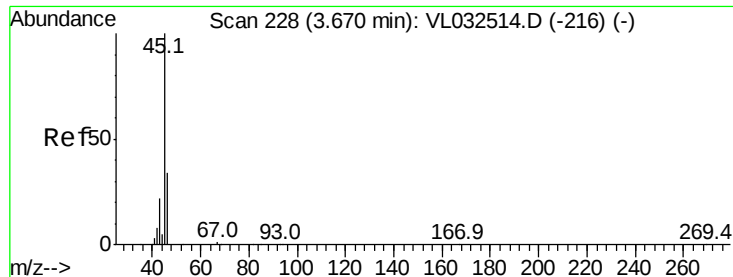
400000

200000

0

Time-->





#13

Ethanol

Concen: 10.629 ppbv

RT: 3.67 min Scan# 227

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

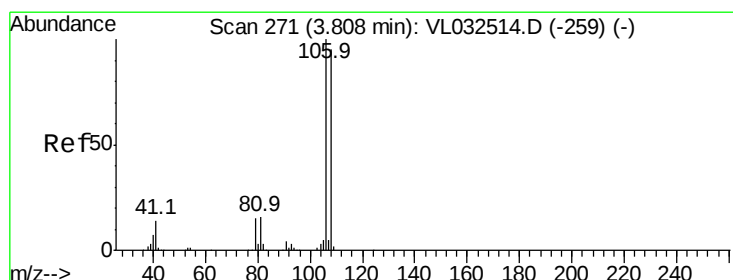
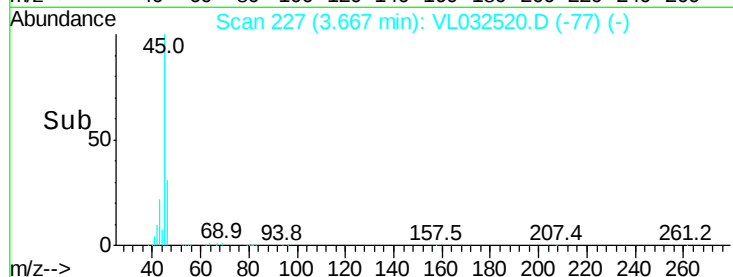
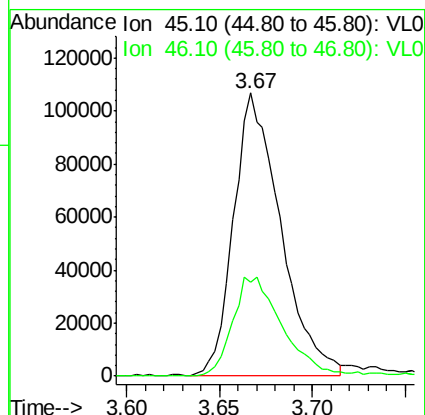
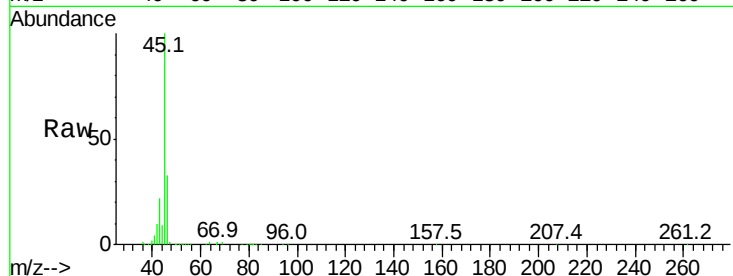
VSTDIC015

Tgt Ion: 45 Resp: 187460

Ion Ratio Lower Upper

45 100

46 38.4 14.2 56.8



#14

Bromoethene

Concen: 13.985 ppbv

RT: 3.81 min Scan# 271

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

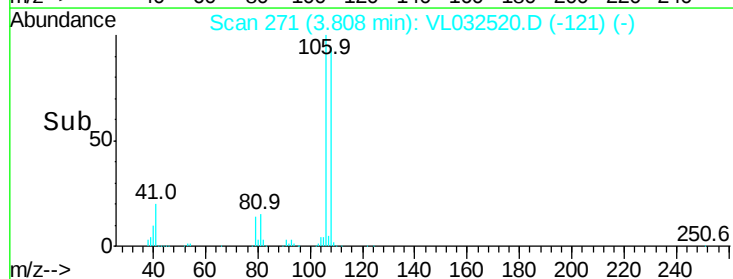
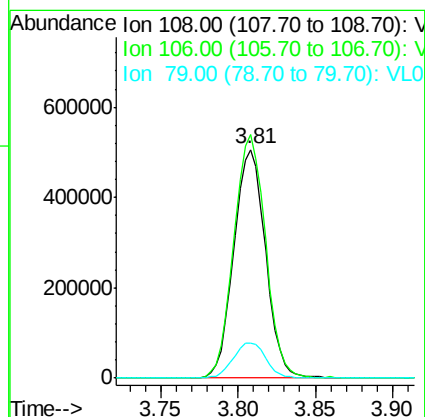
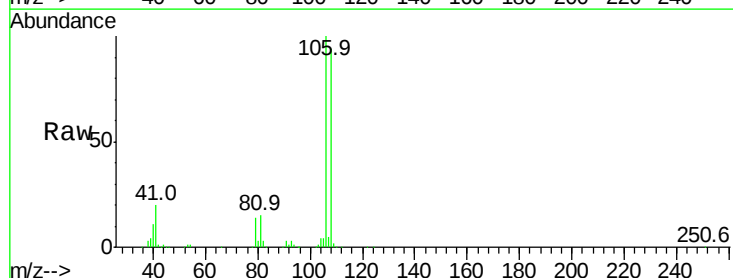
Tgt Ion: 108 Resp: 717556

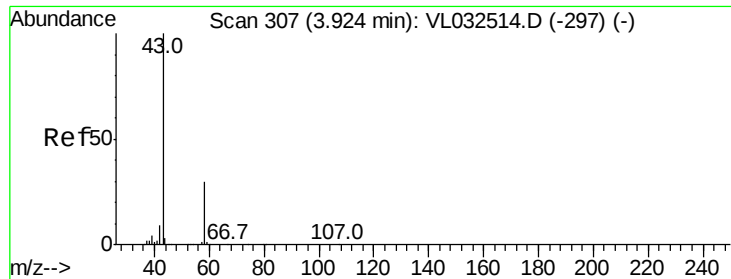
Ion Ratio Lower Upper

108 100

106 107.1 85.5 128.3

79 16.2 13.0 19.6





#15

Acetone

Concen: 12.530 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

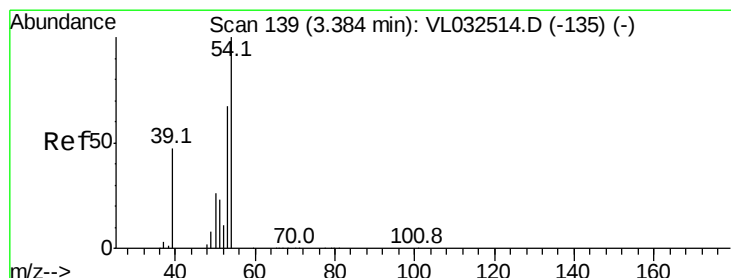
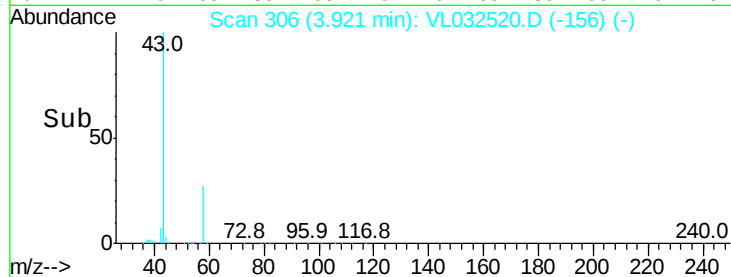
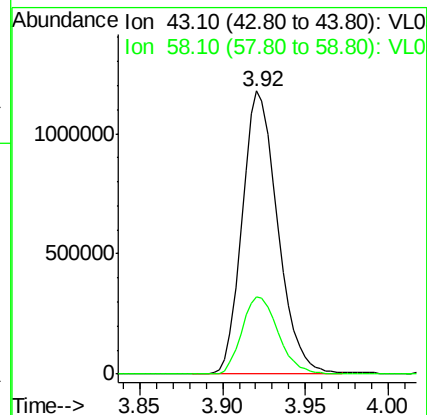
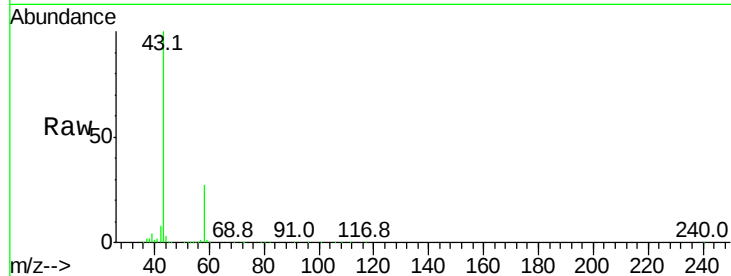
VSTDIC015

Tgt Ion: 43 Resp: 1748350

Ion Ratio Lower Upper

43 100

58 28.0 22.6 33.8



#16

1,3-Butadiene

Concen: 10.973 ppbv

RT: 3.38 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL032520.D

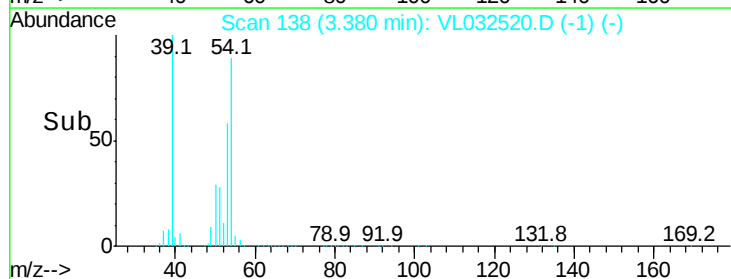
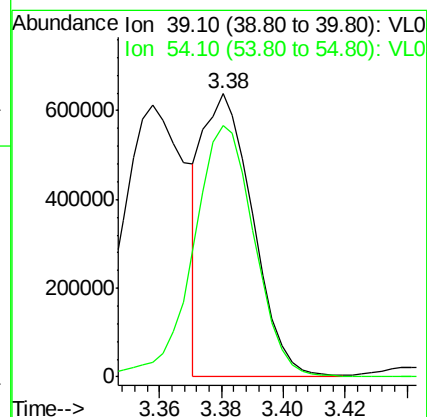
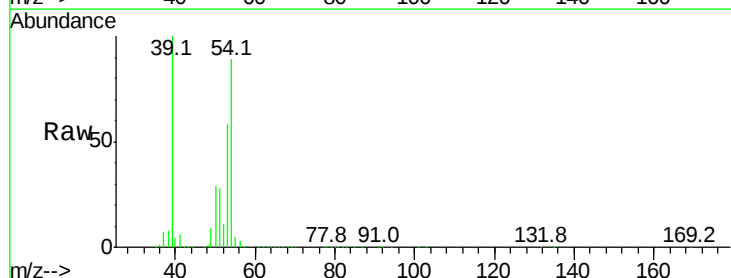
Acq: 24 Sep 2018 20:21

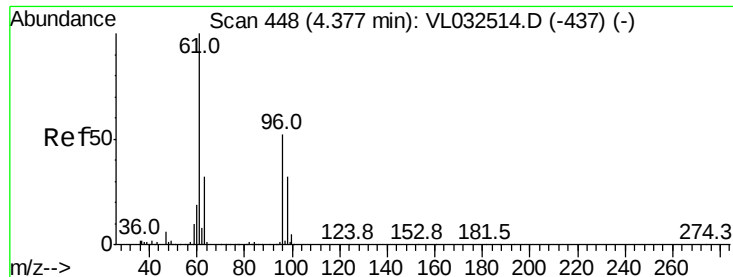
Tgt Ion: 39 Resp: 720485

Ion Ratio Lower Upper

39 100

54 108.7 80.8 121.2





#17

tert-Butyl alcohol

Concen: 9.433 ppbv

RT: 4.38 min Scan# 448

Delta R.T. -0.03 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

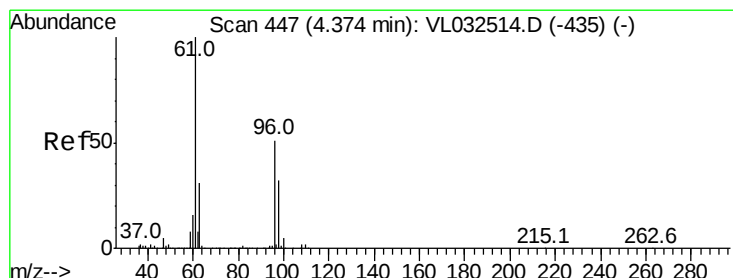
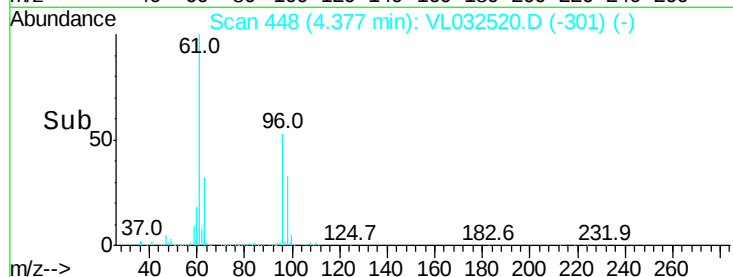
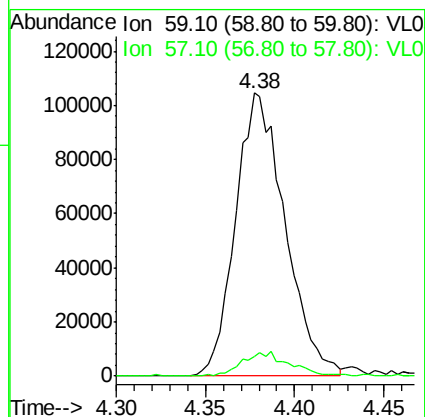
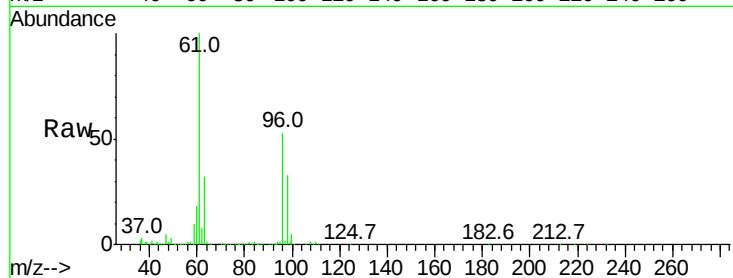
VSTDIC015

Tgt Ion: 59 Resp: 202564

Ion Ratio Lower Upper

59 100

57 8.5 0.0 0.0#



#18

1,1-Dichloroethene

Concen: 16.485 ppbv

RT: 4.37 min Scan# 447

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

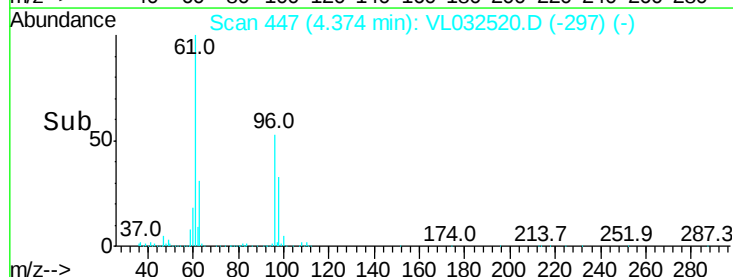
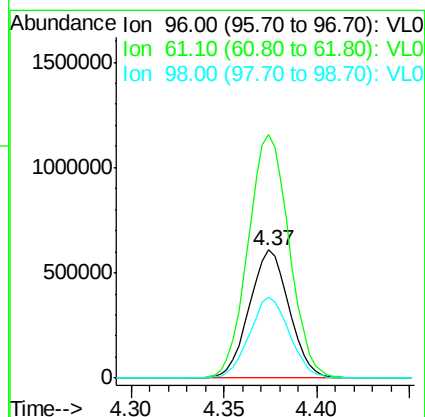
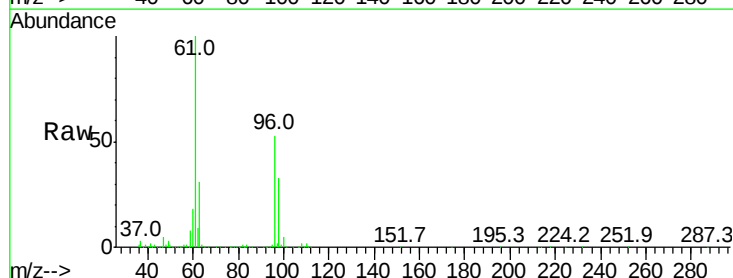
Tgt Ion: 96 Resp: 912419

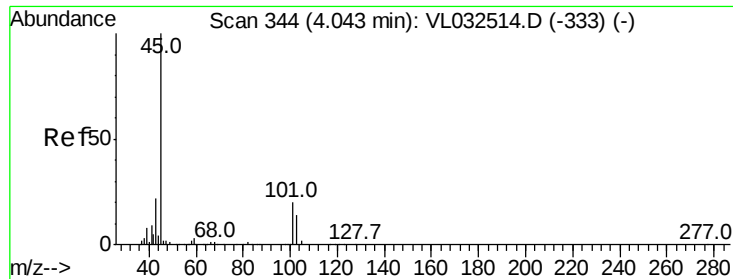
Ion Ratio Lower Upper

96 100

61 190.0 159.2 238.8

98 62.9 51.0 76.4





#19

Isopropyl Alcohol

Concen: 13.776 ppbv

RT: 4.04 min Scan# 344

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

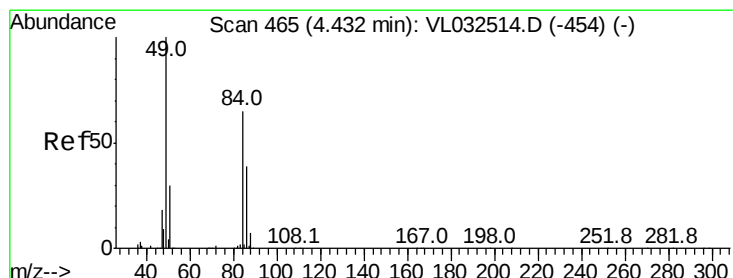
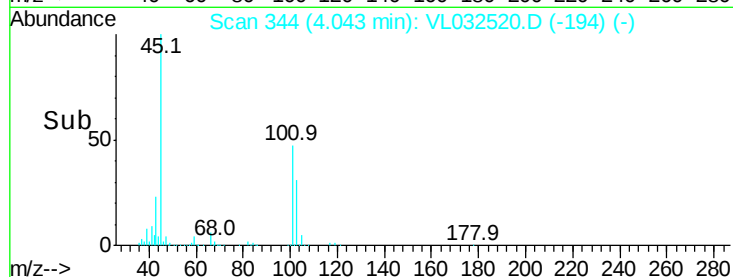
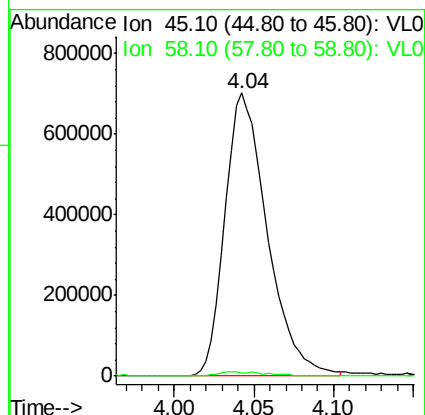
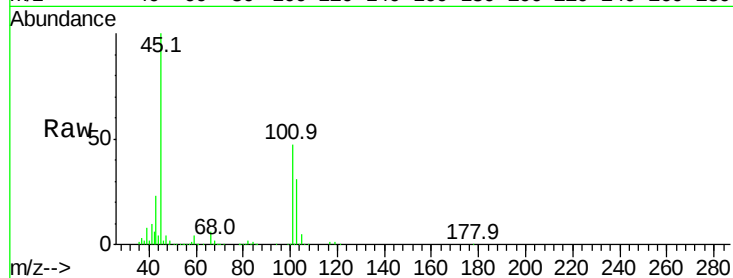
VSTDIC015

Tgt Ion: 45 Resp: 1261029

Ion Ratio Lower Upper

45 100

58 2.1 2.0 3.0



#20

Methylene Chloride

Concen: 15.283 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion: 84 Resp: 813176

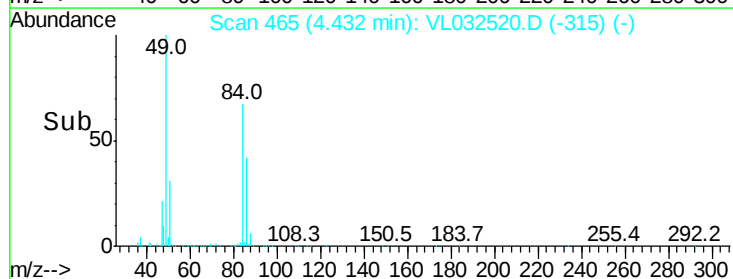
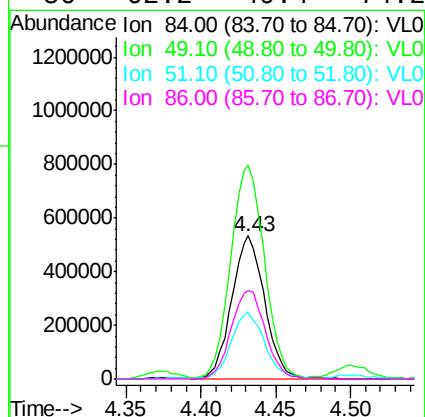
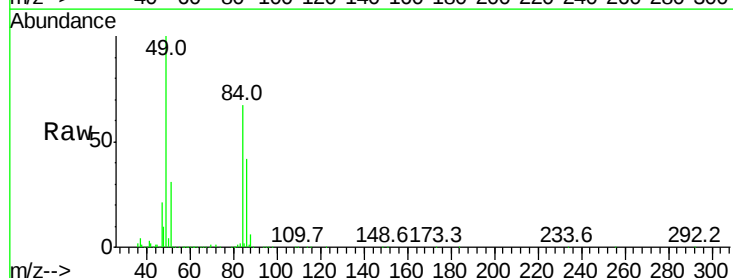
Ion Ratio Lower Upper

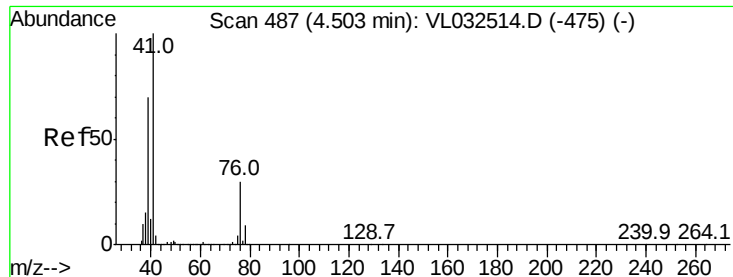
84 100

49 148.3 119.1 178.7

51 46.1 35.2 52.8

86 62.2 49.4 74.2





#21

Allyl Chloride

Concen: 17.564 ppbv

RT: 4.50 min Scan# 486

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

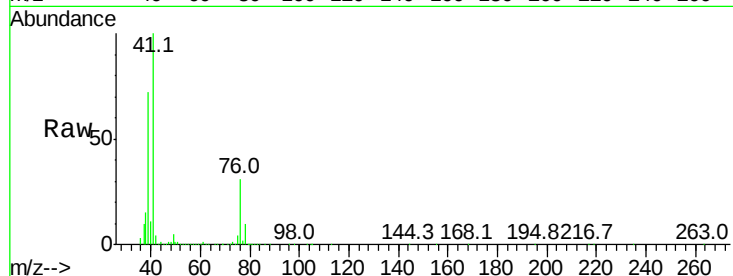
Tgt Ion: 41 Resp: 1627780

Ion Ratio Lower Upper

41 100

76 29.7 23.6 35.4

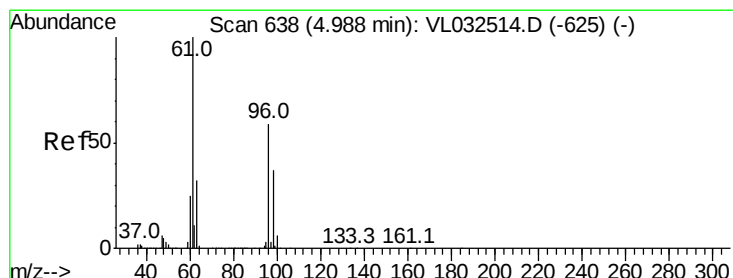
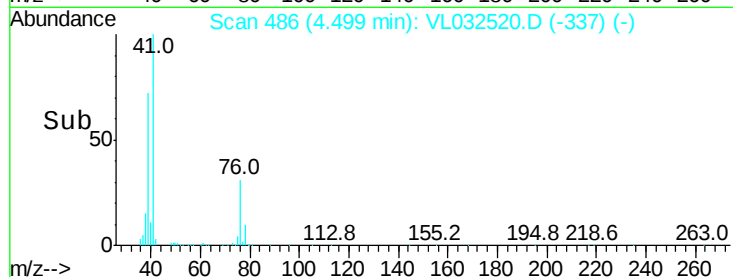
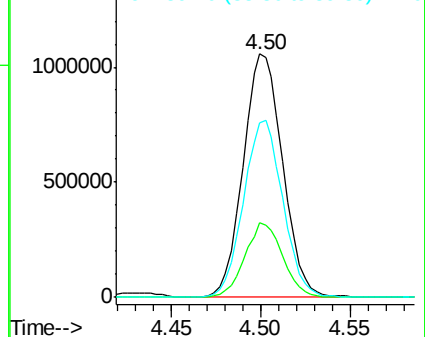
39 72.8 57.7 86.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 14.883 ppbv

RT: 4.99 min Scan# 638

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

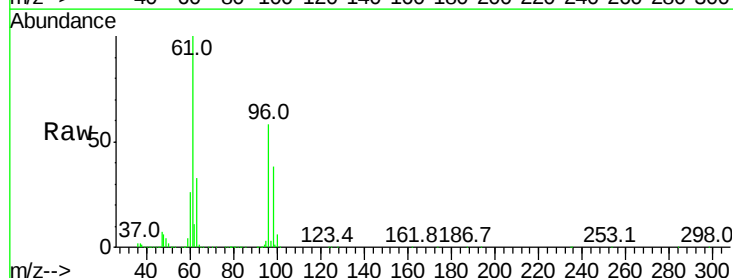
Tgt Ion: 96 Resp: 893803

Ion Ratio Lower Upper

96 100

61 171.8 136.2 204.4

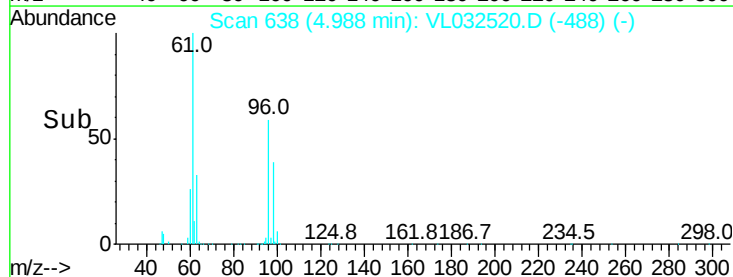
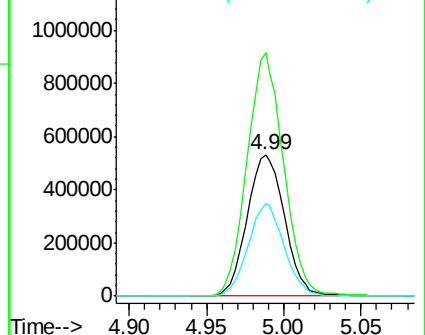
98 65.6 50.4 75.6

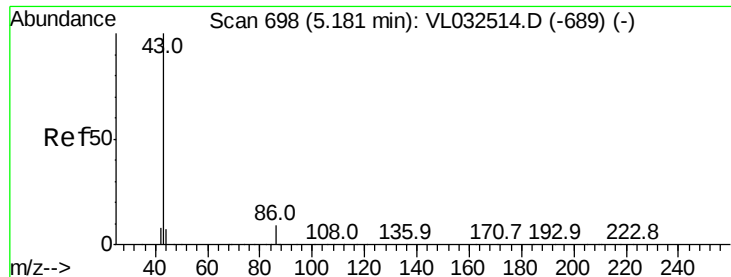


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 15.915 ppbv

RT: 5.18 min Scan# 698

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3681013

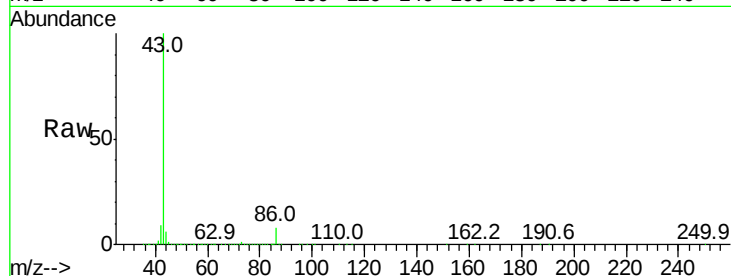
Ion Ratio Lower Upper

43 100

86 7.8 5.9 8.9

42 9.4 6.9 10.3

44 5.6 4.6 7.0

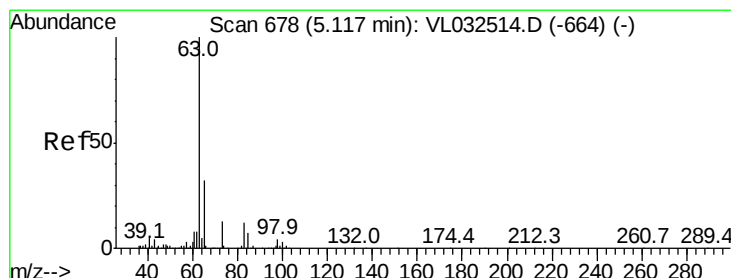
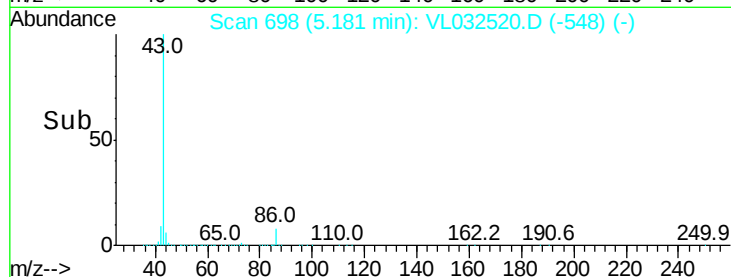
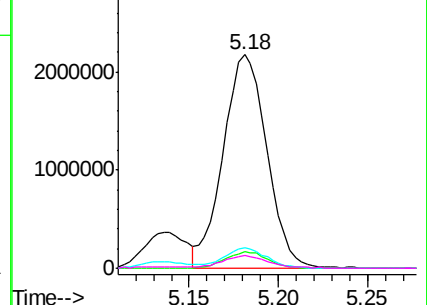


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 14.233 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

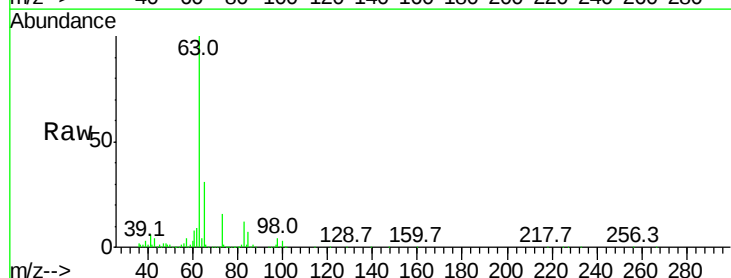
Tgt Ion: 63 Resp: 2712620

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.5

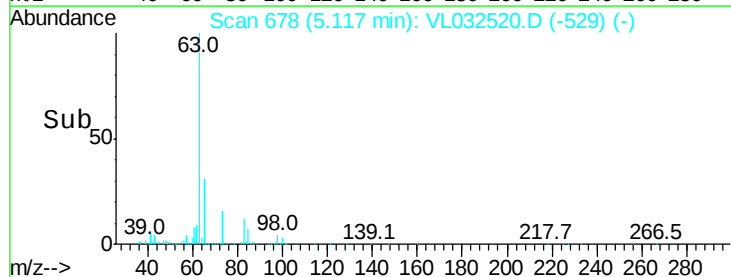
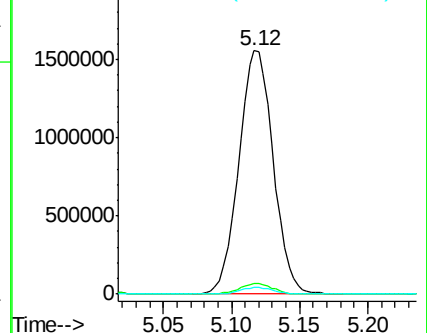
100 2.7 1.5 4.4

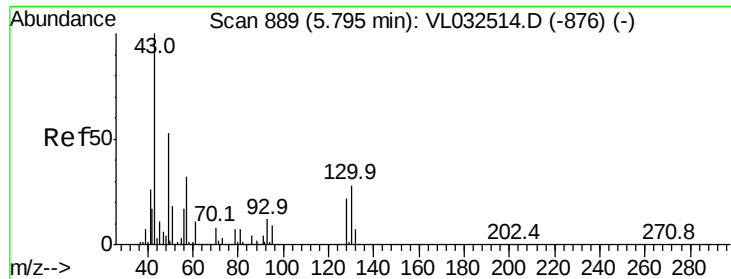


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



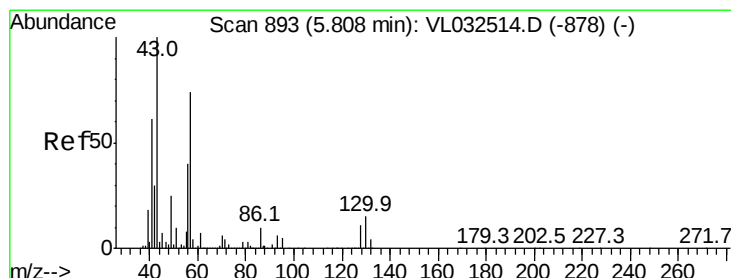
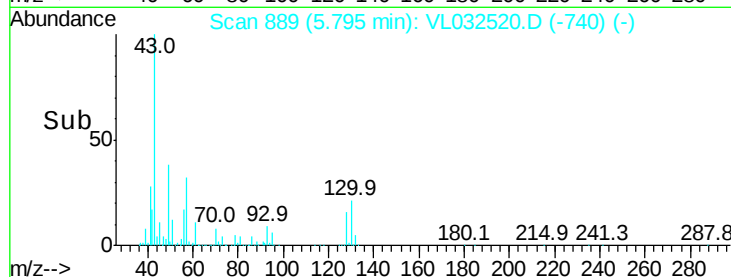
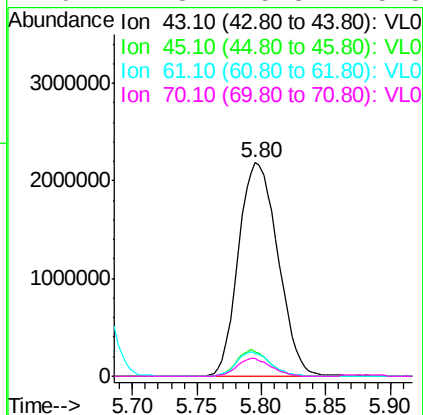
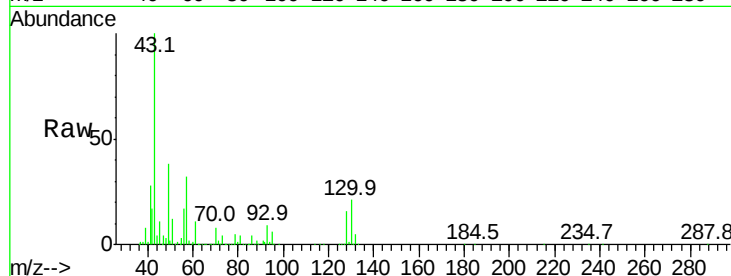


#25
Ethyl Acetate
Concen: 14.097 ppbv
RT: 5.80 min Scan# 889
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 4645082

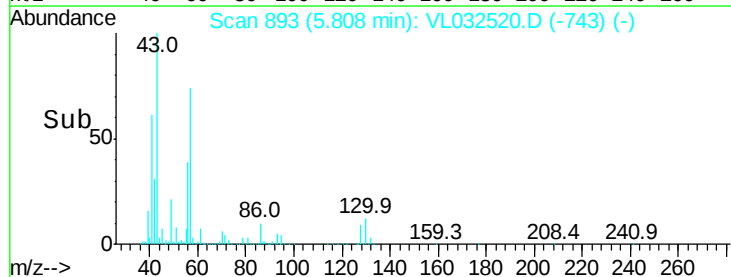
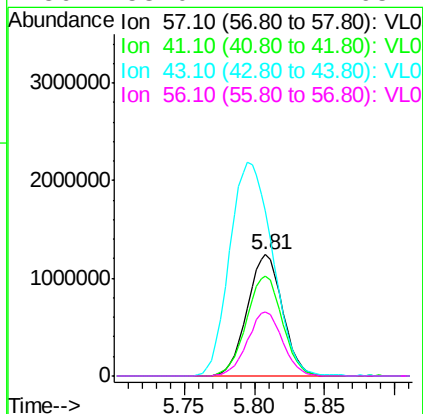
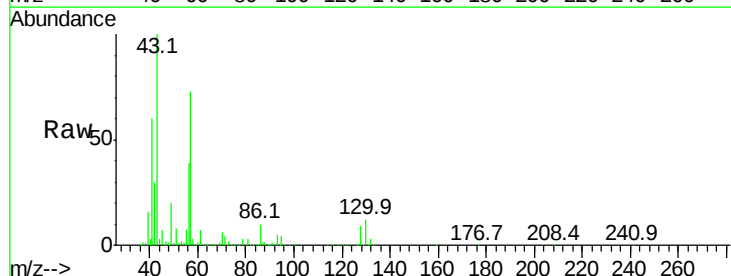
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.0	12.0
61	9.7	7.6	11.4
70	7.3	5.8	8.8

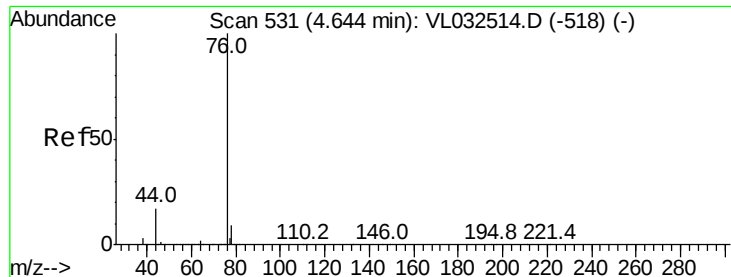


#26
Hexane
Concen: 14.718 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion: 57 Resp: 2171672

Ion	Ratio	Lower	Upper
57	100		
41	84.0	69.0	103.4
43	214.6	172.1	258.1
56	53.0	42.2	63.2





#27

Carbon Disulfide

Concen: 17.844 ppbv

RT: 4.64 min Scan# 531

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

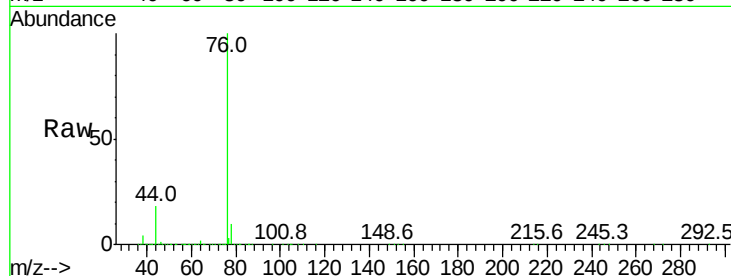
Tgt Ion: 76 Resp: 2430426

Ion Ratio Lower Upper

76 100

44 17.1 14.0 21.0

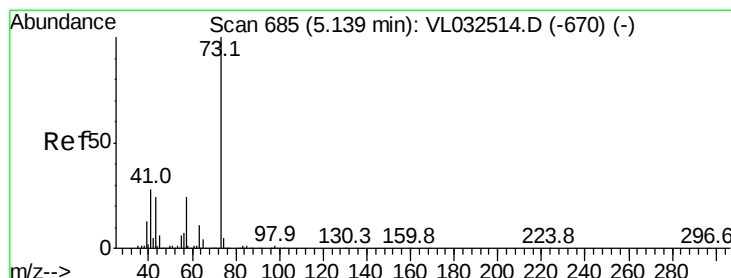
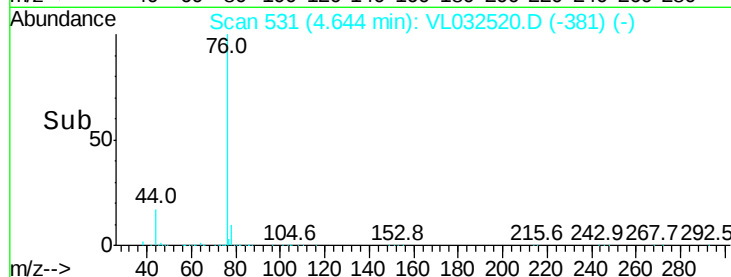
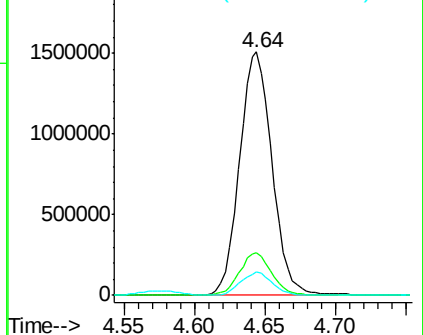
78 9.3 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 15.339 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL032520.D

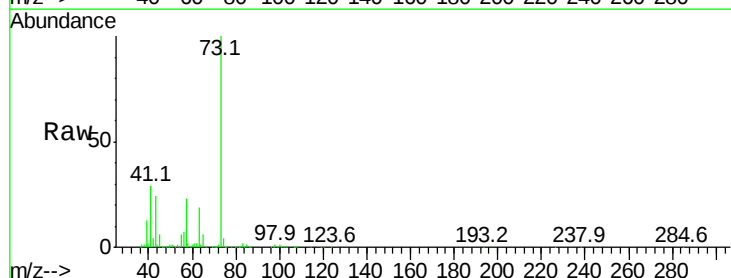
Acq: 24 Sep 2018 20:21

Tgt Ion: 73 Resp: 2778758

Ion Ratio Lower Upper

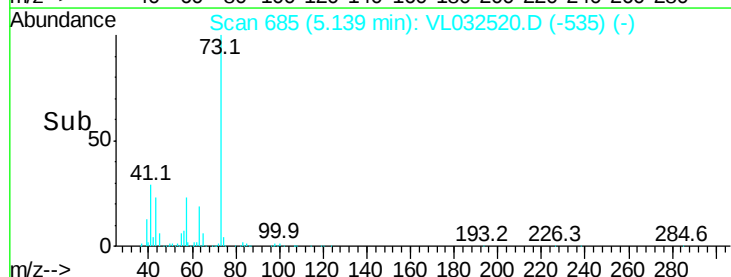
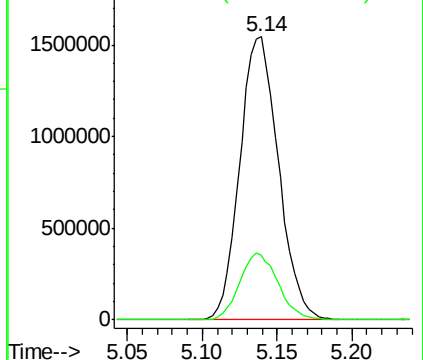
73 100

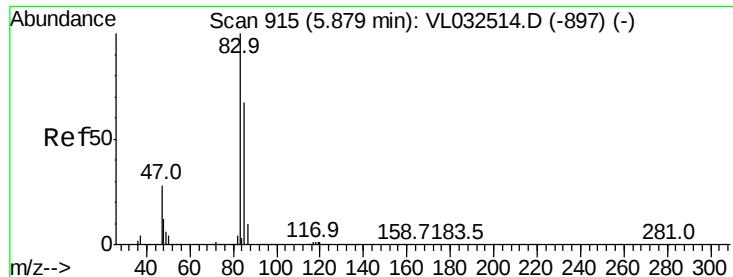
57 23.6 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 13.988 ppbv

RT: 5.88 min Scan# 915

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

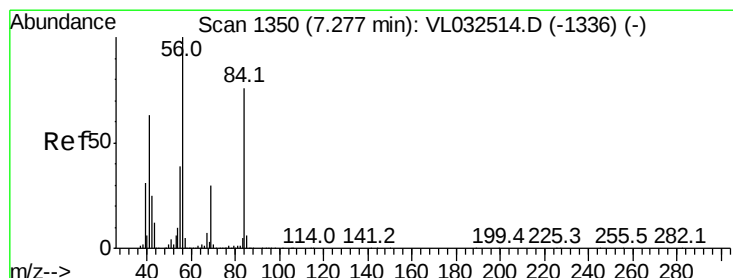
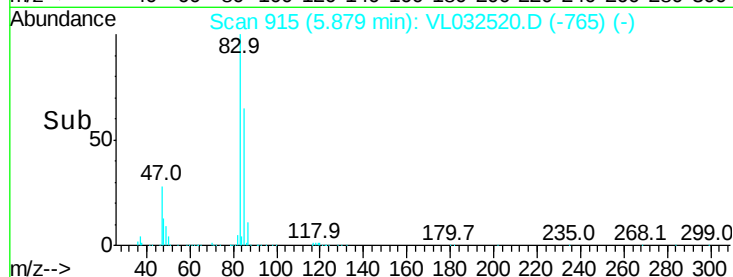
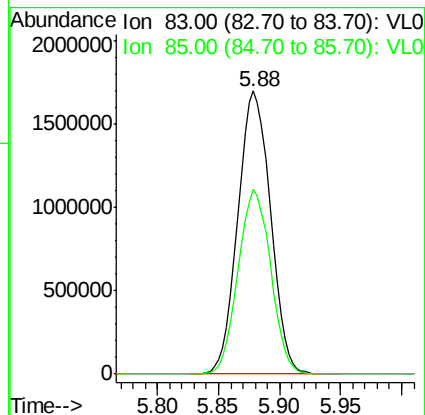
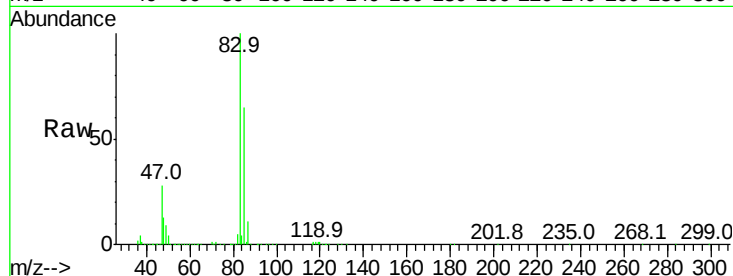
VSTDIC015

Tgt Ion: 83 Resp: 3146953

Ion Ratio Lower Upper

83 100

85 65.3 52.5 78.7



#30

Cyclohexane

Concen: 17.728 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

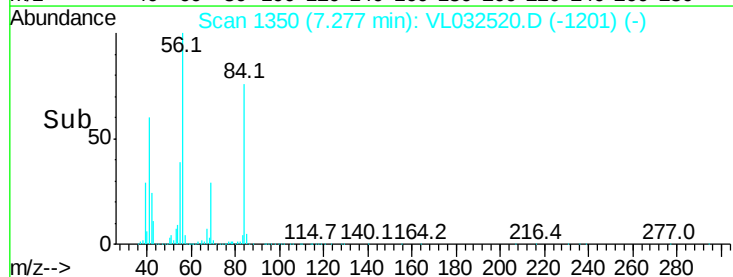
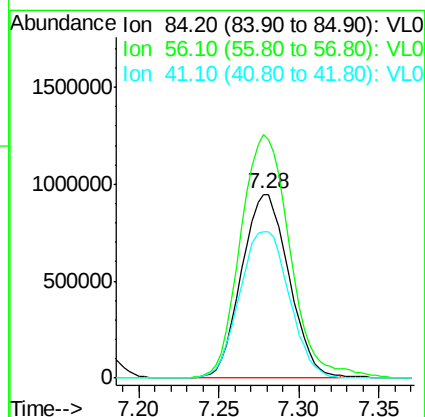
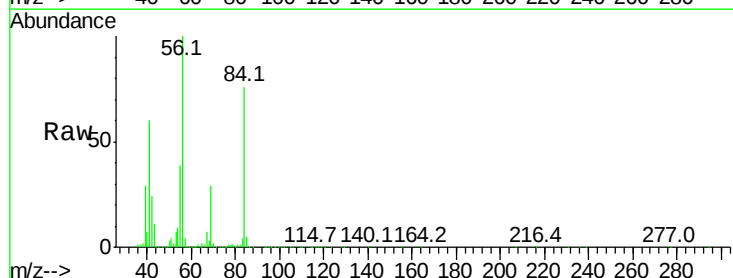
Tgt Ion: 84 Resp: 1915258

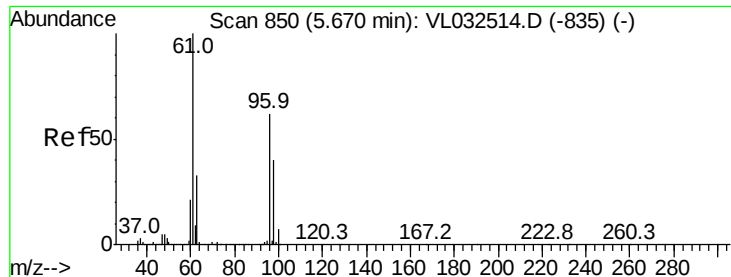
Ion Ratio Lower Upper

84 100

56 138.9 113.5 170.3

41 83.7 68.1 102.1



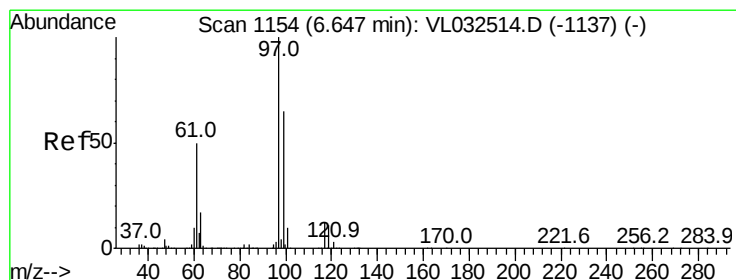
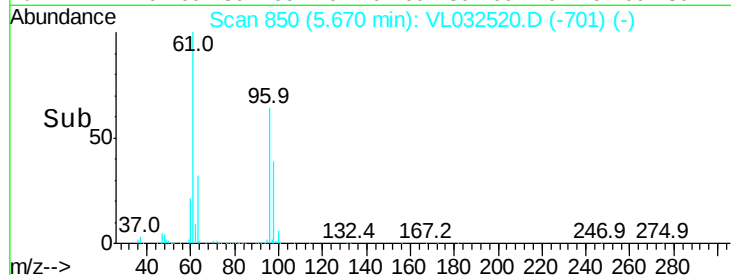
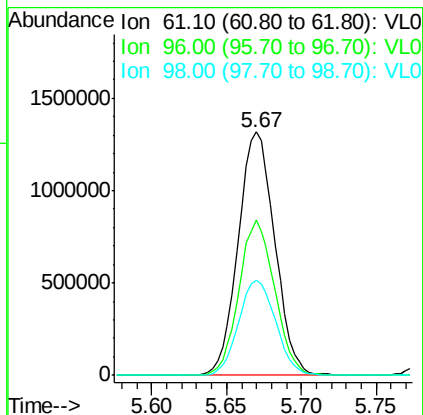
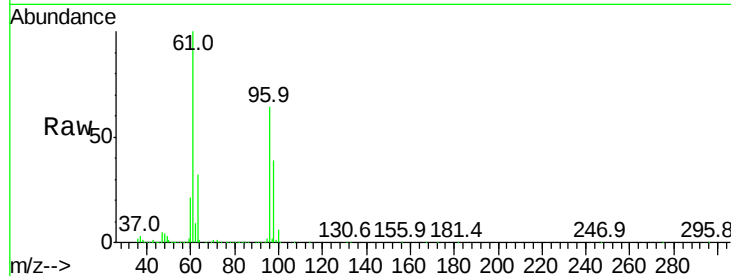


#31

cis-1,2-Dichloroethene
 Concen: 16.796 ppbv
 RT: 5.67 min Scan# 850
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

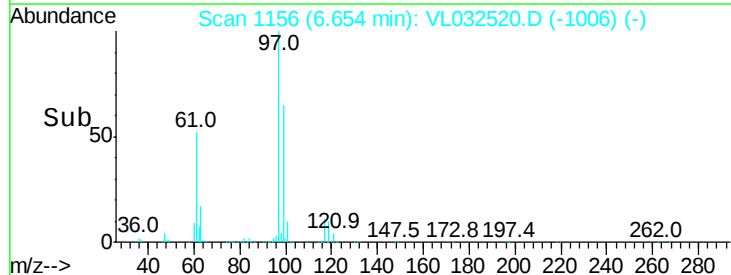
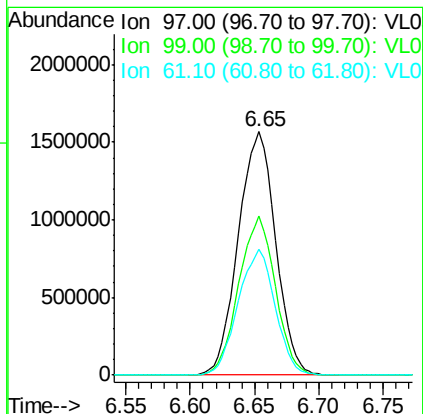
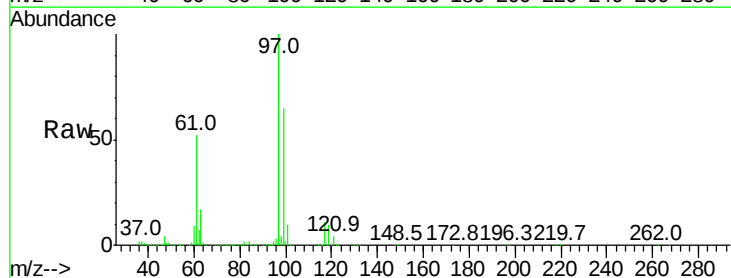
Tgt Ion: 61 Resp: 2243941
 Ion Ratio Lower Upper
 61 100
 96 63.6 49.2 73.8
 98 39.1 30.7 46.1

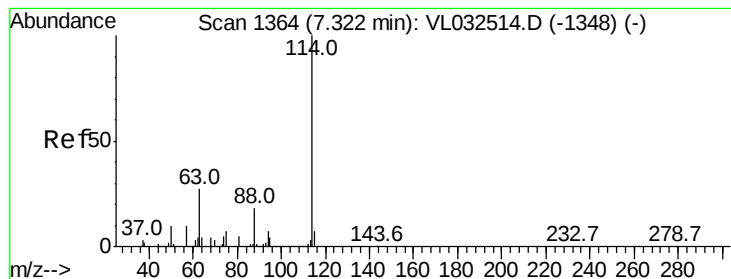


#32

1,1,1-Trichloroethane
 Concen: 15.128 ppbv
 RT: 6.65 min Scan# 1156
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion: 97 Resp: 3172205
 Ion Ratio Lower Upper
 97 100
 99 64.1 52.1 78.1
 61 51.3 42.5 63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.33 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

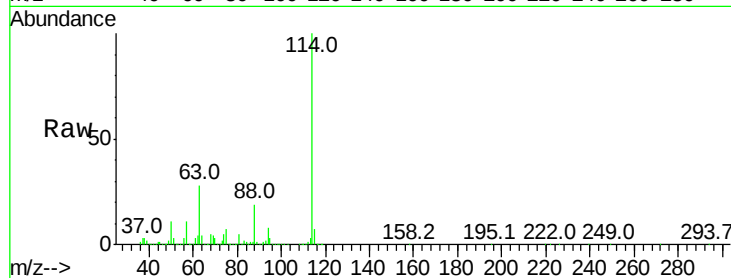
Tgt Ion:114 Resp: 3605694

Ion Ratio Lower Upper

114 100

63 27.6 22.2 33.4

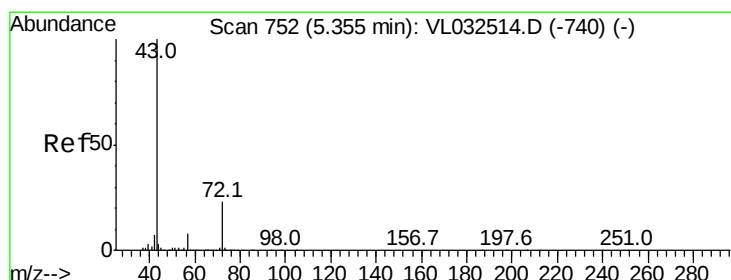
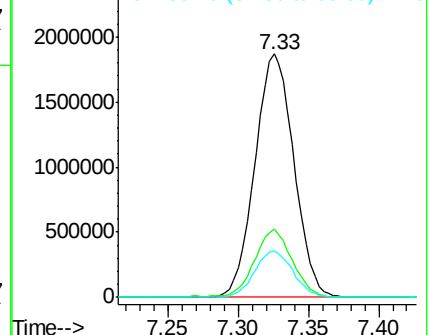
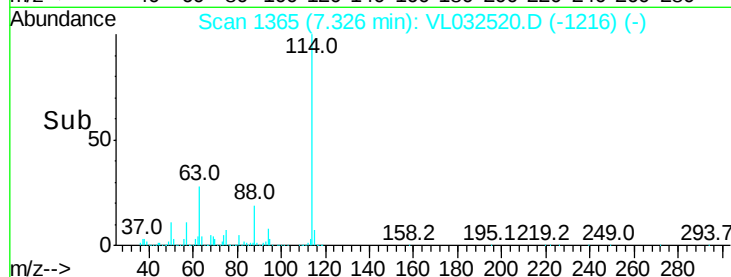
88 18.8 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 12.735 ppbv

RT: 5.35 min Scan# 752

Delta R.T. -0.02 min

Lab File: VL032520.D

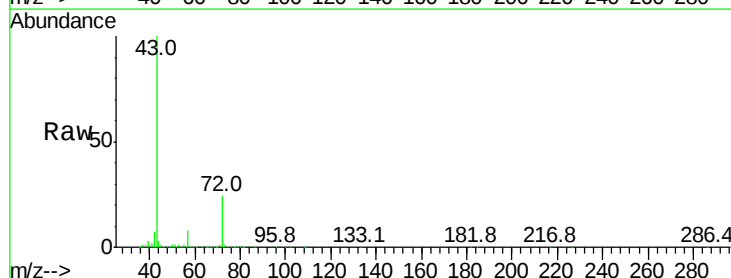
Acq: 24 Sep 2018 20:21

Tgt Ion: 43 Resp: 3049946

Ion Ratio Lower Upper

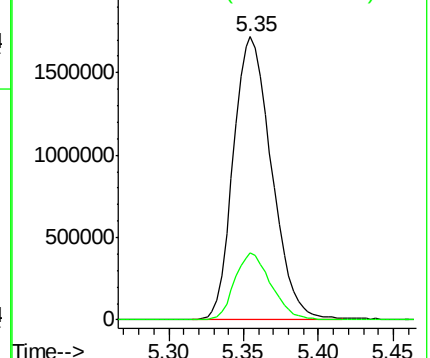
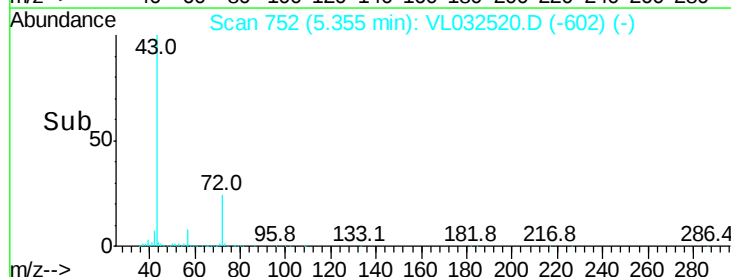
43 100

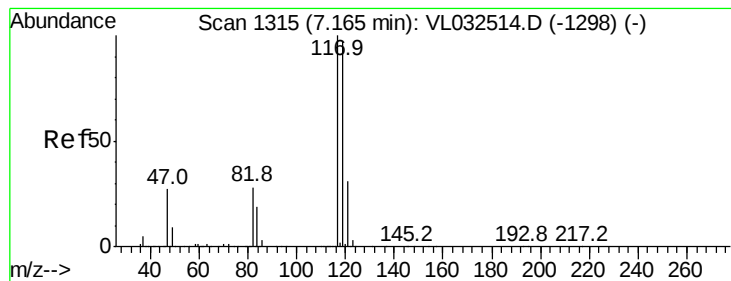
72 22.6 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 13.388 ppbv

RT: 7.16 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

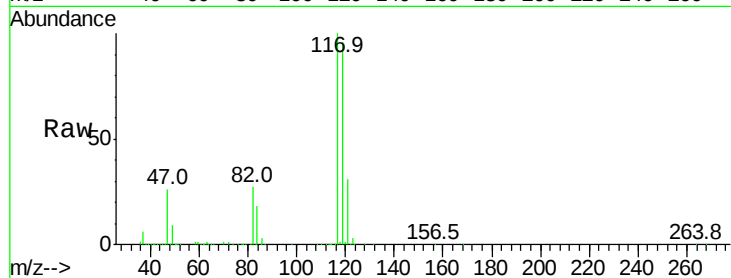
Tgt Ion:117 Resp: 3244474

Ion Ratio Lower Upper

117 100

119 95.8 76.6 115.0

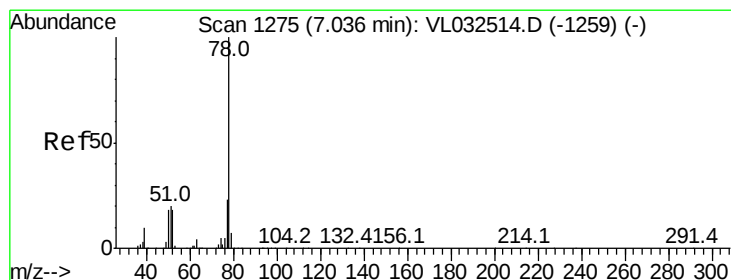
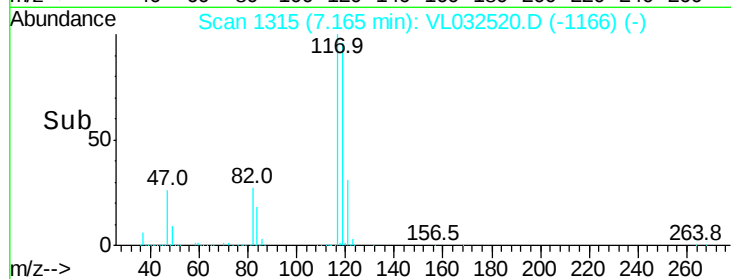
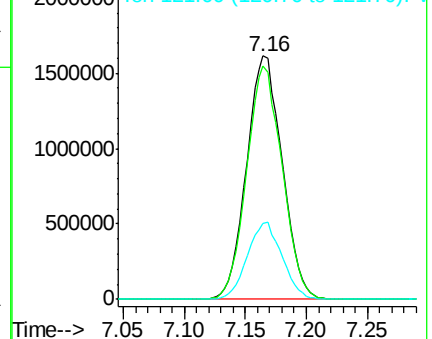
121 31.1 24.6 36.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 13.880 ppbv

RT: 7.04 min Scan# 1276

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

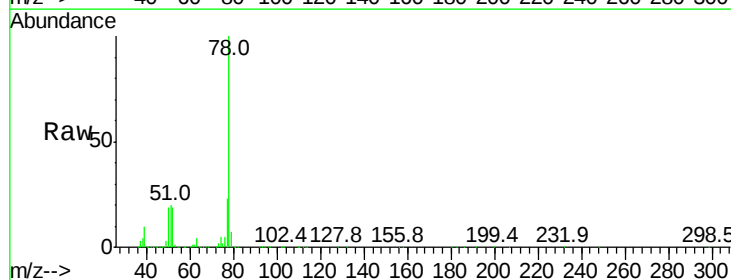
Tgt Ion: 78 Resp: 4258991

Ion Ratio Lower Upper

78 100

77 23.3 18.4 27.6

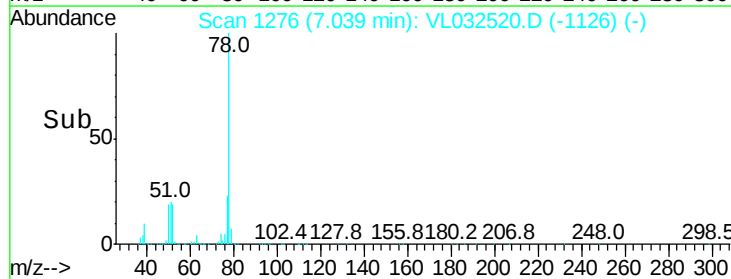
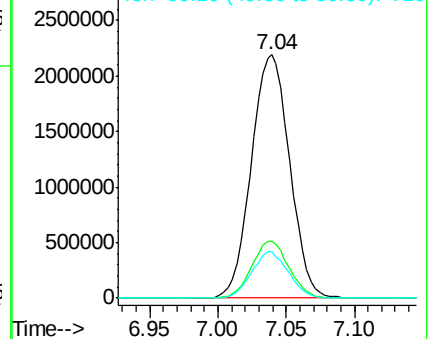
50 19.1 14.4 21.6

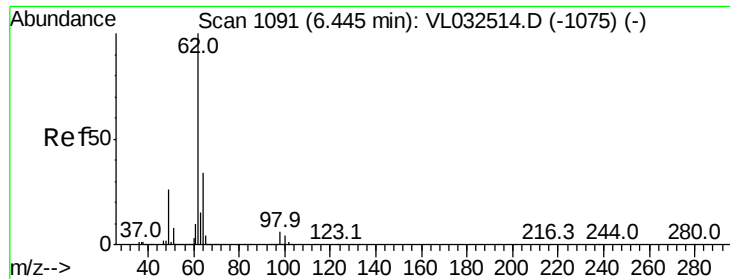


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

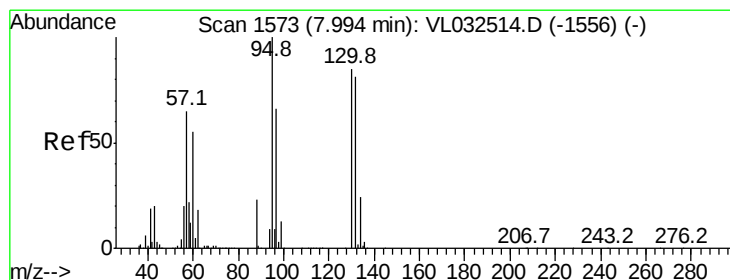
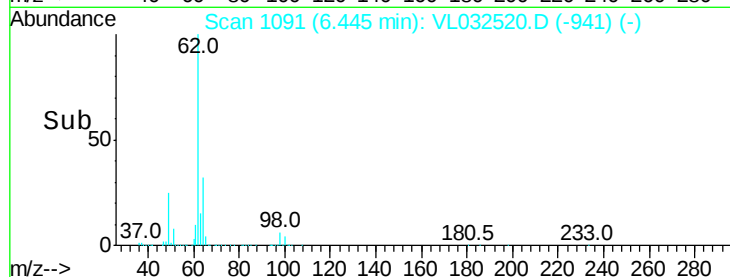
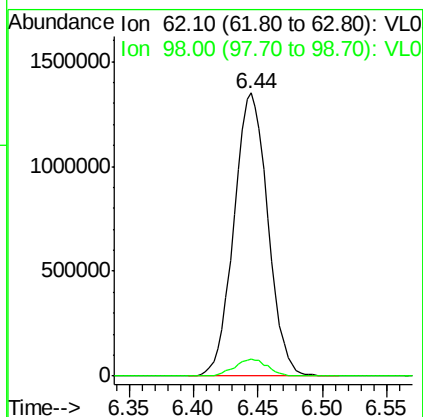
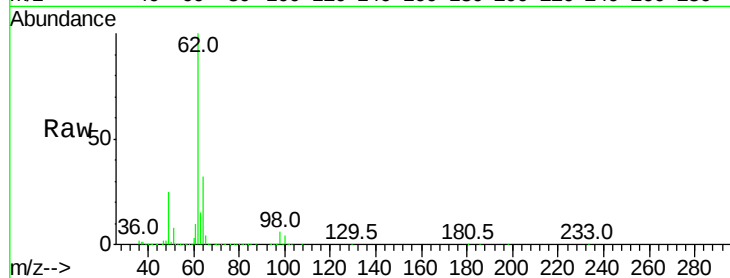




#37
 1,2-Dichloroethane
 Concen: 13.121 ppbv
 RT: 6.44 min Scan# 1091
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

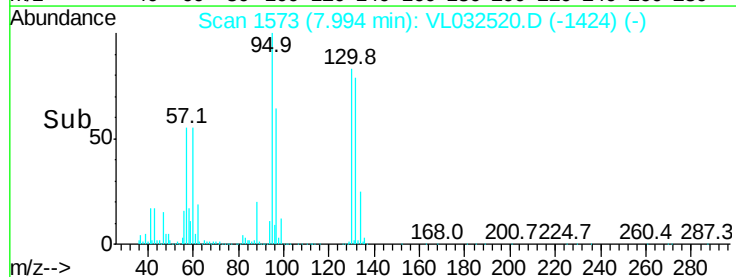
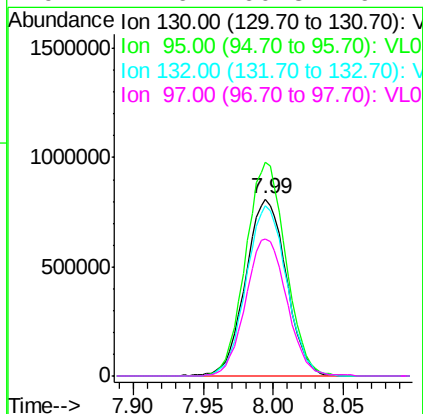
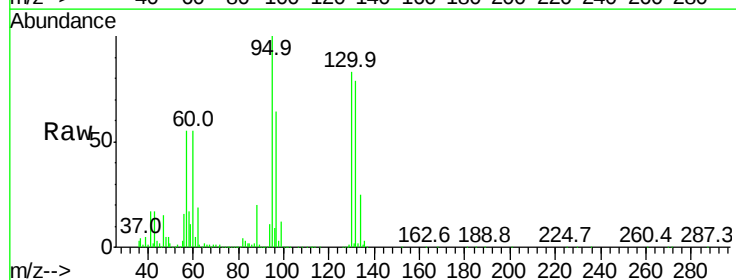
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

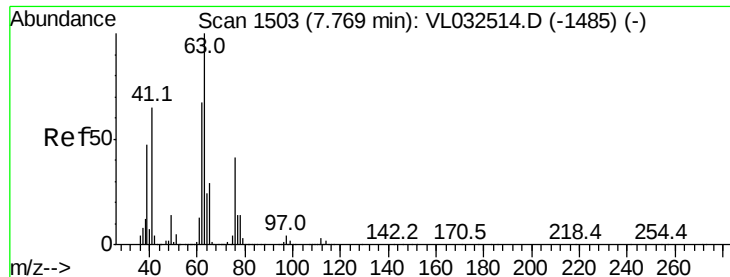
Tgt Ion: 62 Resp: 2467339
 Ion Ratio Lower Upper
 62 100
 98 6.0 5.0 7.6



#38
 Trichloroethene
 Concen: 13.949 ppbv
 RT: 7.99 min Scan# 1573
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion: 130 Resp: 1625879
 Ion Ratio Lower Upper
 130 100
 95 120.8 94.2 141.4
 132 95.9 76.2 114.4
 97 77.6 60.8 91.2





#39

1,2-Dichloropropane

Concen: 14.358 ppbv

RT: 7.77 min Scan# 1503

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

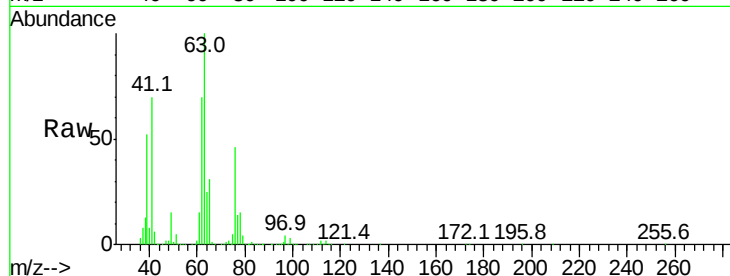
Tgt Ion: 63 Resp: 1885051

Ion Ratio Lower Upper

63 100

41 69.7 55.4 83.0

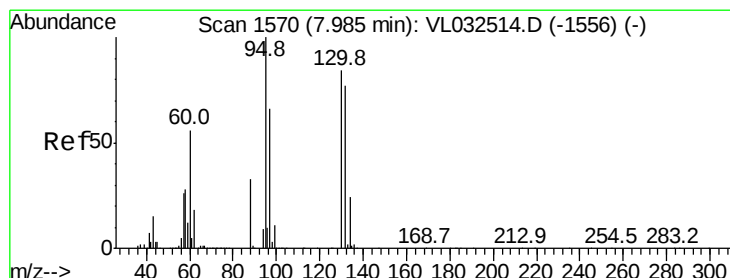
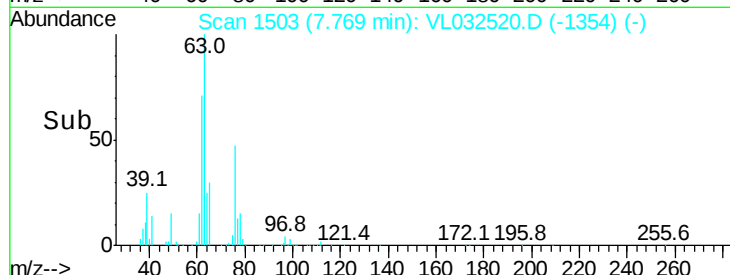
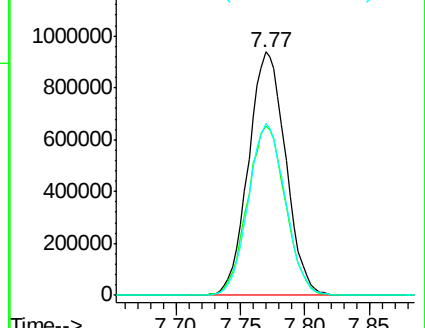
62 70.4 55.4 83.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 12.822 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion: 88 Resp: 505044

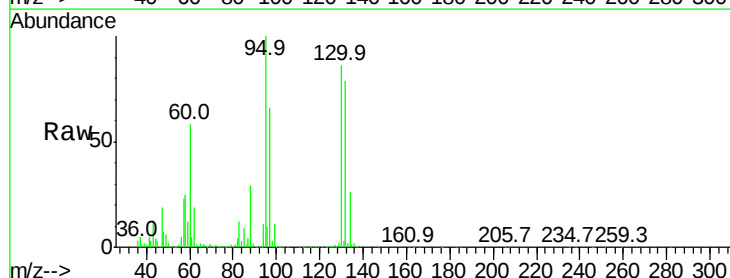
Ion Ratio Lower Upper

88 100

58 158.1 119.7 179.5

43 346.4 253.0 379.4

57 1602.6 1156.9 1735.3

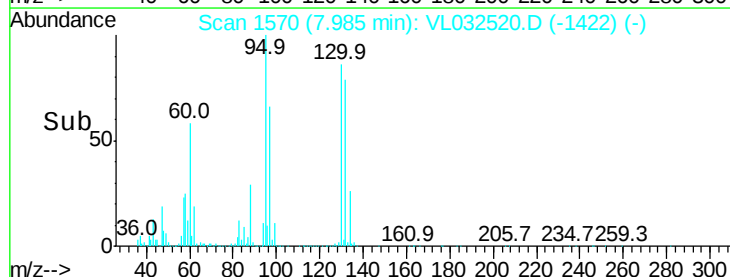
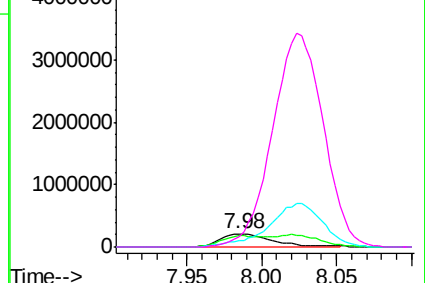


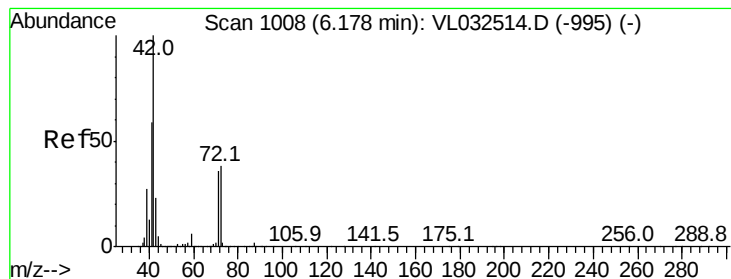
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 14.012 ppbv

RT: 6.17 min Scan# 1007

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

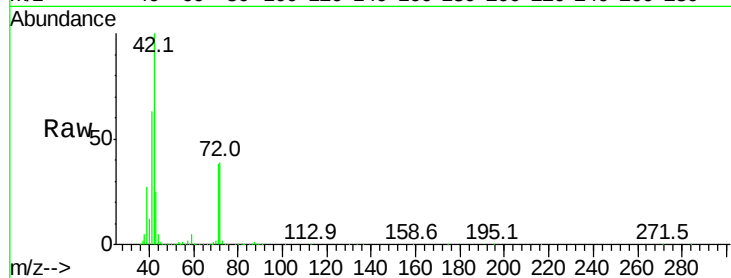
Tgt Ion: 42 Resp: 1826946

Ion Ratio Lower Upper

42 100

72 38.3 29.5 44.3

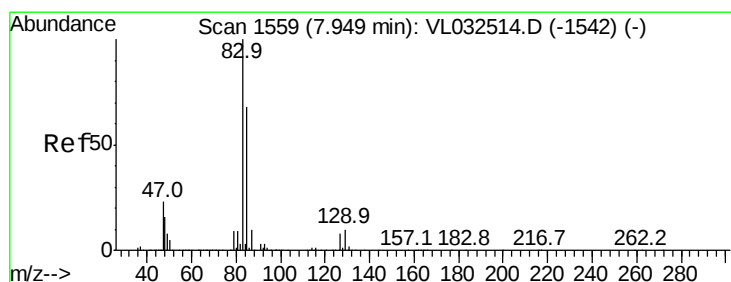
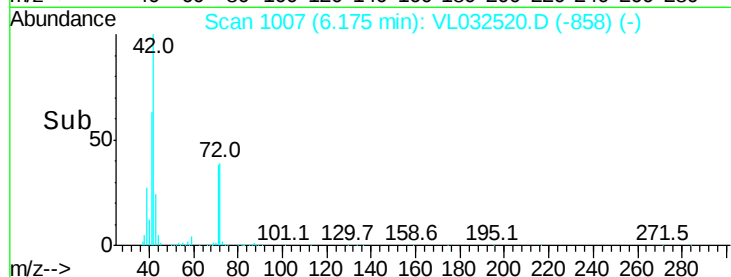
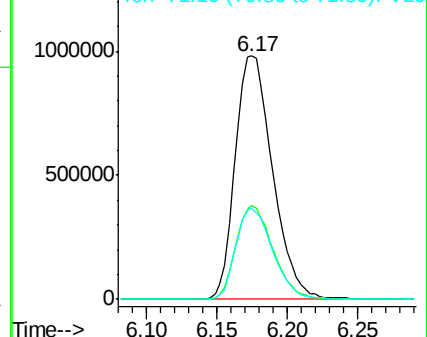
71 37.0 28.3 42.5



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 14.518 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

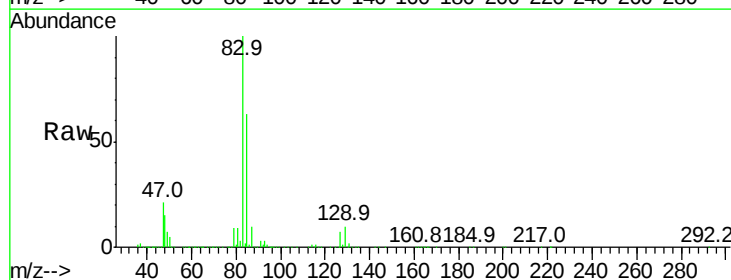
Tgt Ion: 83 Resp: 3765264

Ion Ratio Lower Upper

83 100

85 63.3 51.1 76.7

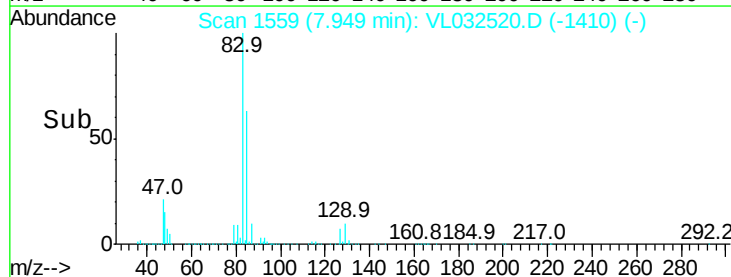
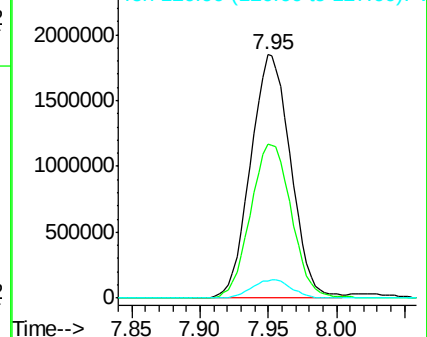
127 7.2 5.8 8.8

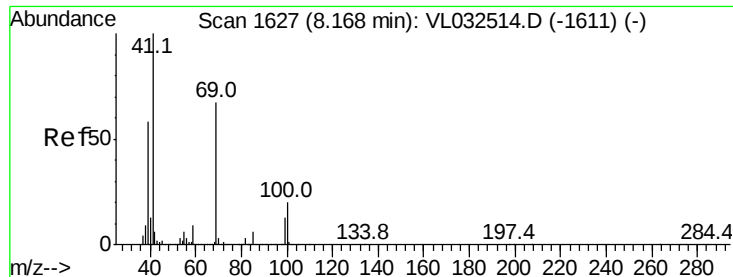


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

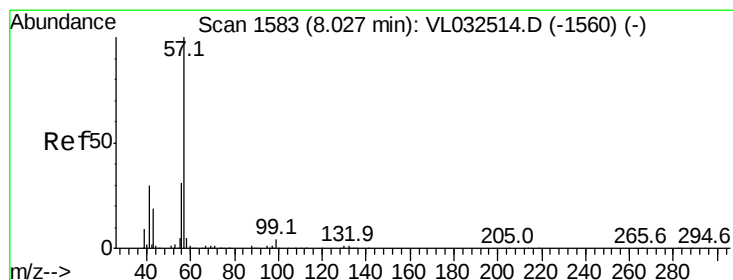
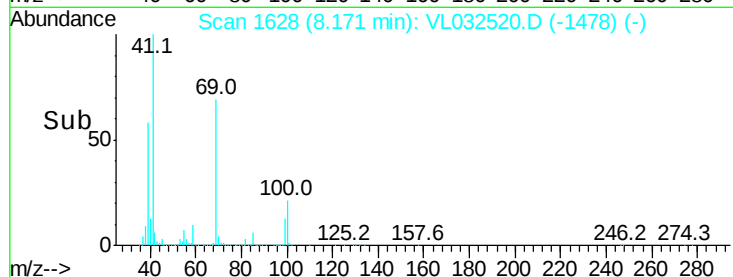
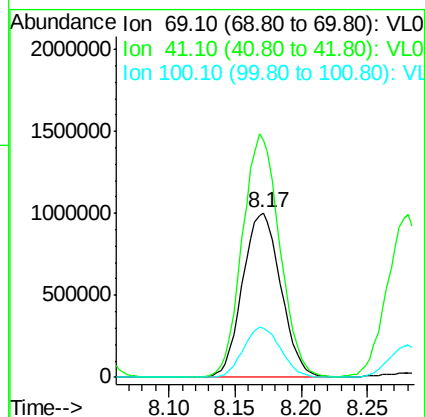
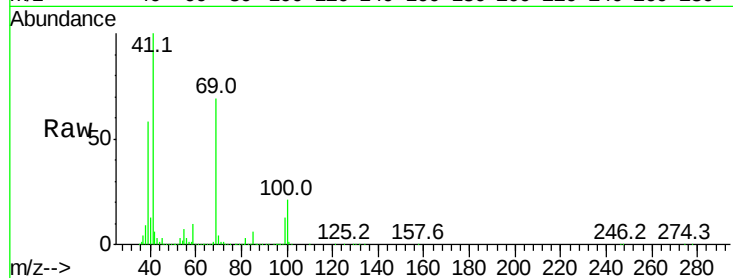




#43
Methyl Methacrylate
Concen: 15.442 ppbv
RT: 8.17 min Scan# 1628
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

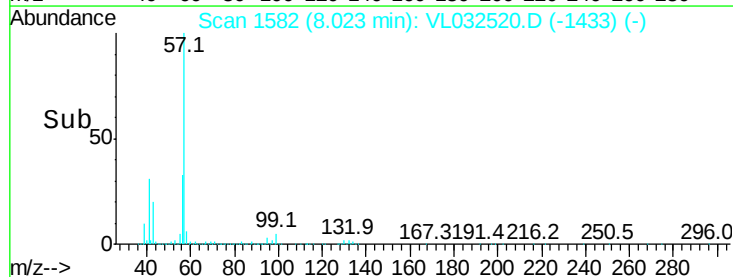
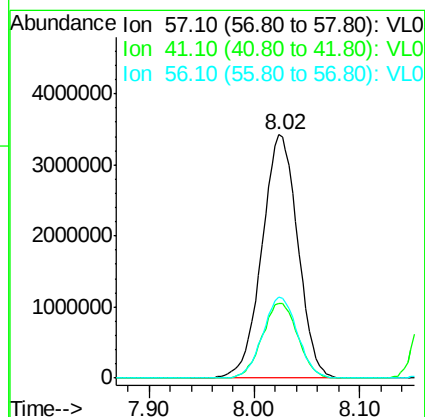
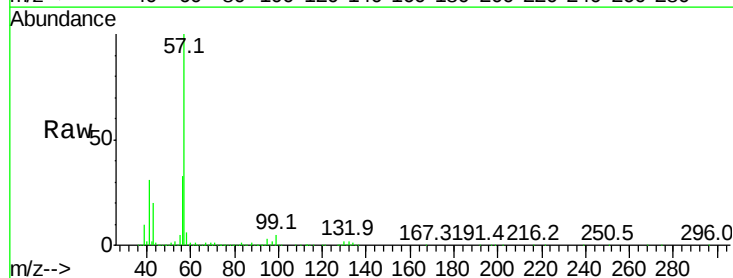
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

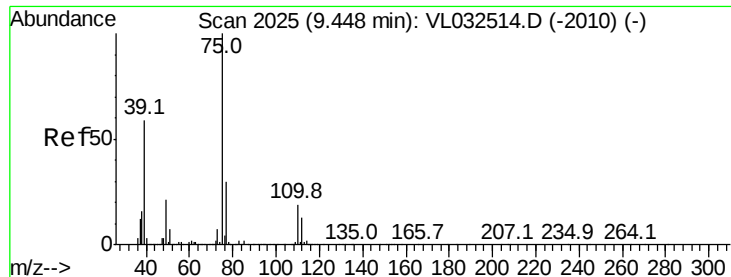
Tgt Ion: 69 Resp: 2010202
Ion Ratio Lower Upper
69 100
41 144.4 117.1 175.7
100 29.8 23.4 35.2



#44
2,2,4-Trimethylpentane
Concen: 13.620 ppbv
RT: 8.02 min Scan# 1582
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion: 57 Resp: 8080029
Ion Ratio Lower Upper
57 100
41 30.6 24.4 36.6
56 32.2 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 18.222 ppbv

RT: 9.45 min Scan# 2026

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

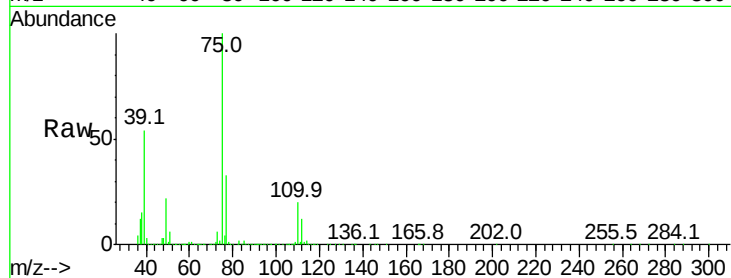
VSTDIC015

Tgt Ion: 75 Resp: 2538279

Ion Ratio Lower Upper

75 100

77 32.6 26.2 39.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

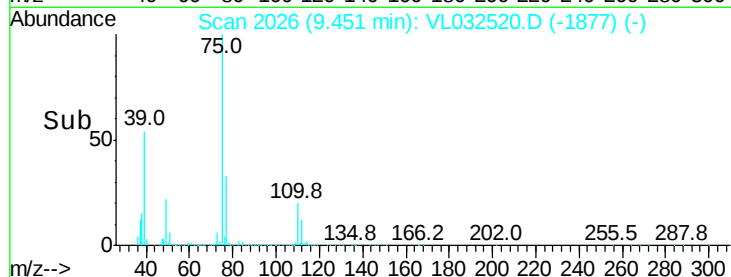
1500000

1000000

500000

0

9.35 9.40 9.45 9.50



#46

cis-1,3-Dichloropropene

Concen: 16.974 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

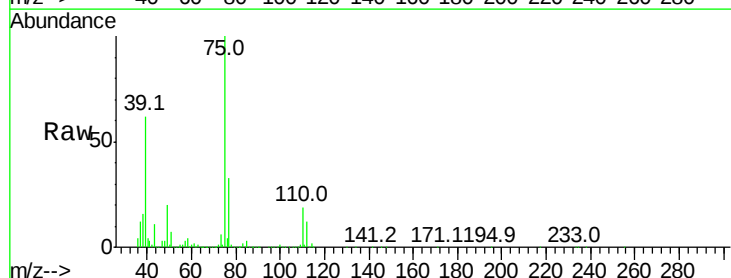
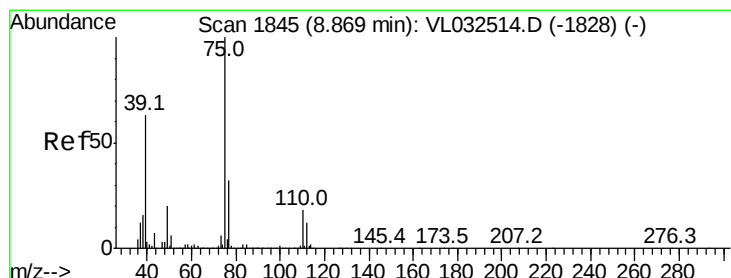
Tgt Ion: 75 Resp: 3021446

Ion Ratio Lower Upper

75 100

39 62.1 48.9 73.3

77 32.5 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

2000000

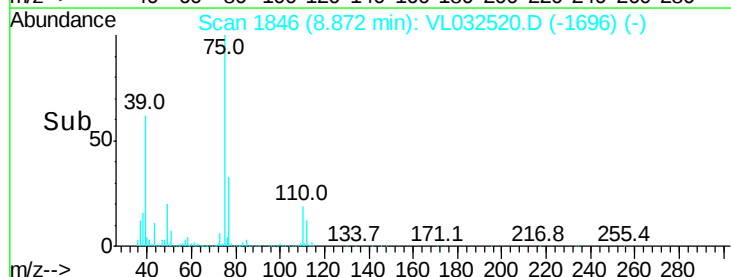
1500000

1000000

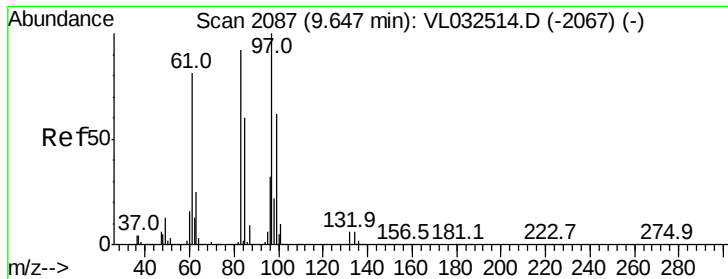
500000

0

8.80 8.85 8.90 8.95



Time-->



#47

1,1,2-Trichloroethane

Concen: 14.777 ppbv

RT: 9.65 min Scan# 2089

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 2062653

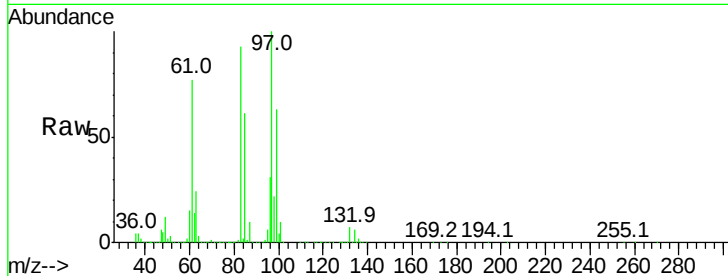
Ion Ratio Lower Upper

97 100

83 92.5 75.0 112.4

85 60.4 47.5 71.3

99 62.6 49.0 73.6

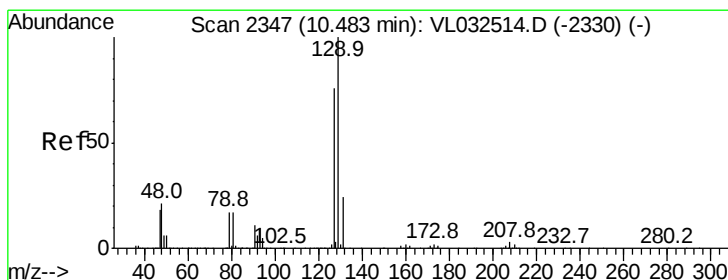
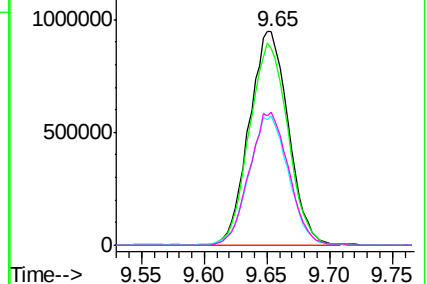
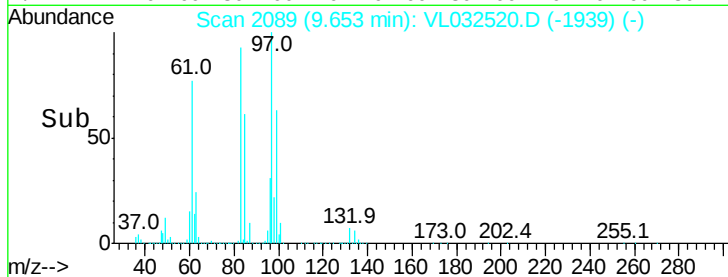


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 17.651 ppbv

RT: 10.49 min Scan# 2349

Delta R.T. -0.02 min

Lab File: VL032520.D

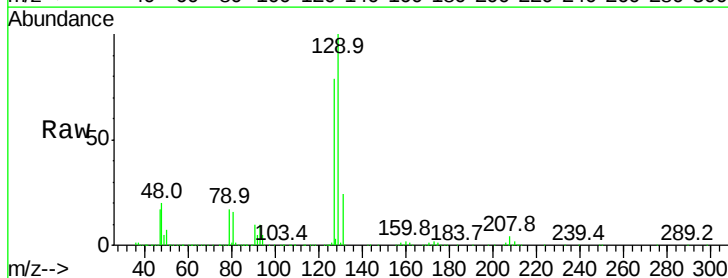
Acq: 24 Sep 2018 20:21

Tgt Ion: 129 Resp: 3412187

Ion Ratio Lower Upper

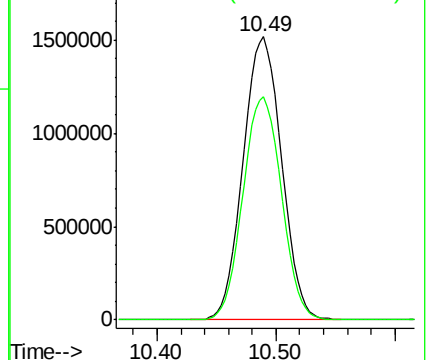
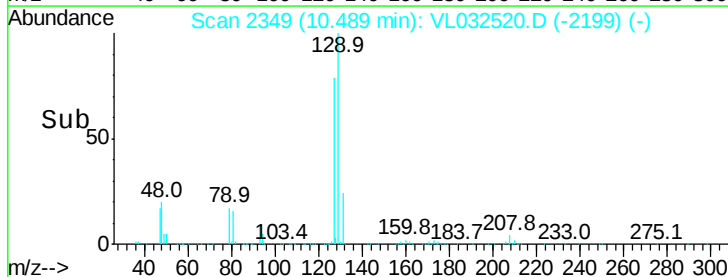
129 100

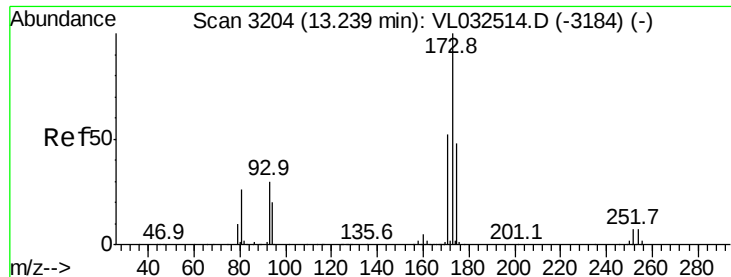
127 79.0 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 15.610 ppbv

RT: 13.24 min Scan# 3205

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

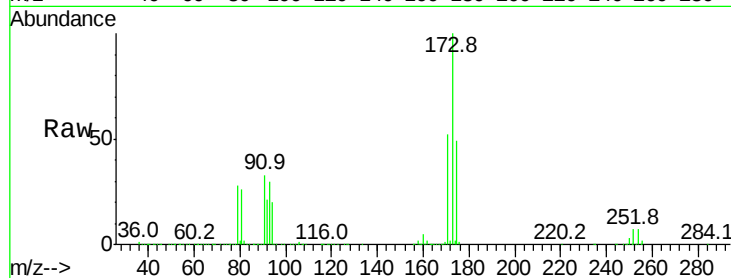
Tgt Ion:173 Resp: 2622888

Ion Ratio Lower Upper

173 100

175 49.1 38.9 58.3

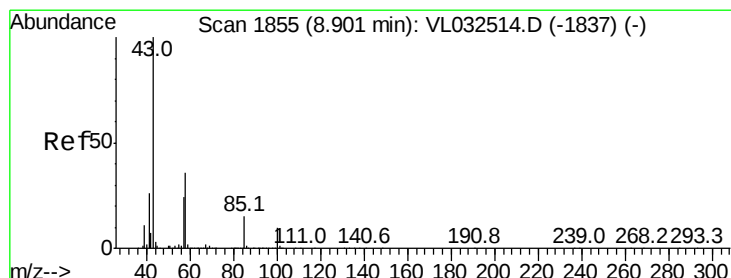
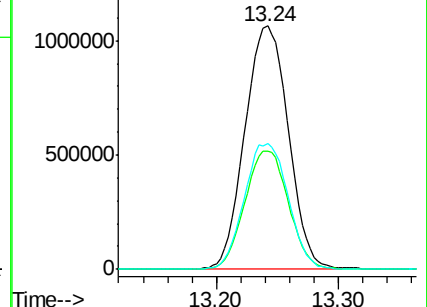
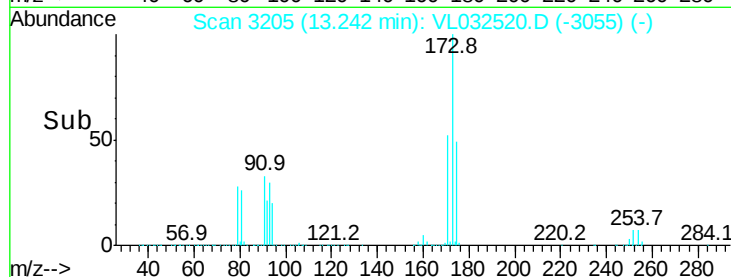
171 52.3 41.6 62.4



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: 13.525 ppbv

RT: 8.90 min Scan# 1855

Delta R.T. -0.02 min

Lab File: VL032520.D

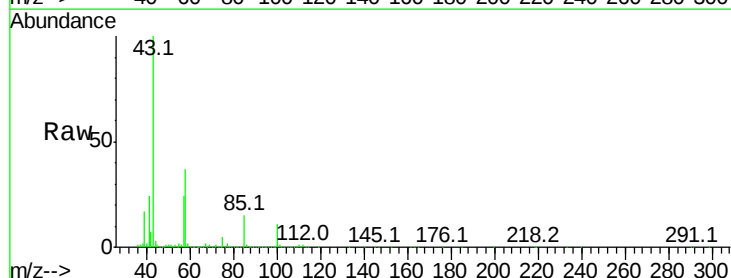
Acq: 24 Sep 2018 20:21

Tgt Ion: 43 Resp: 4879411

Ion Ratio Lower Upper

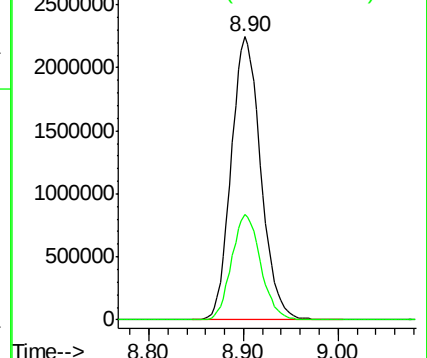
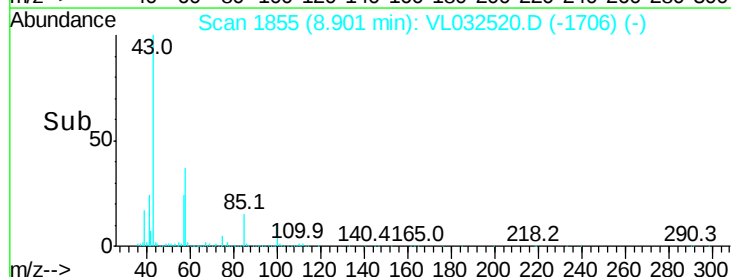
43 100

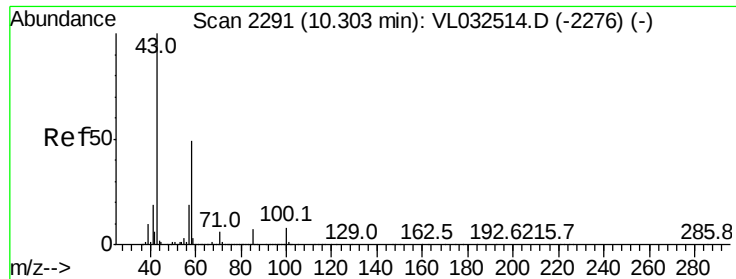
58 36.6 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 19.506 ppbv

RT: 10.30 min Scan# 2291

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

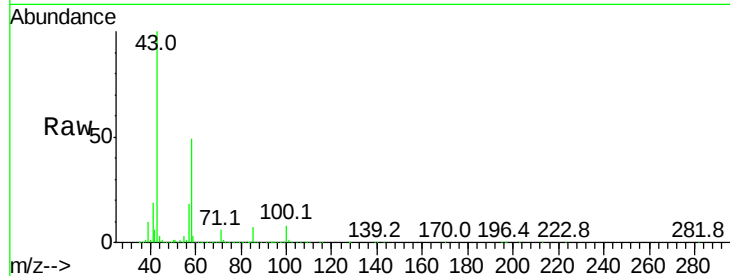
Tgt Ion: 43 Resp: 4532920

Ion Ratio Lower Upper

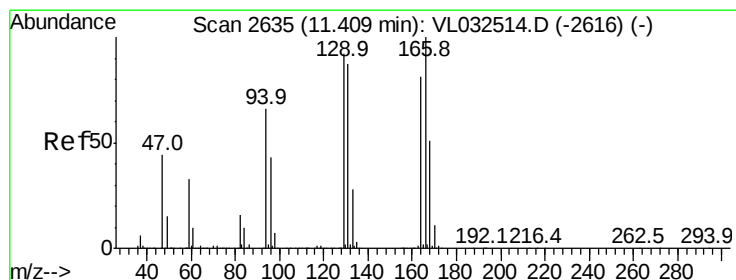
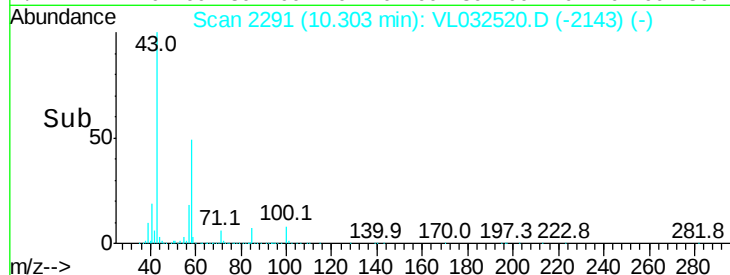
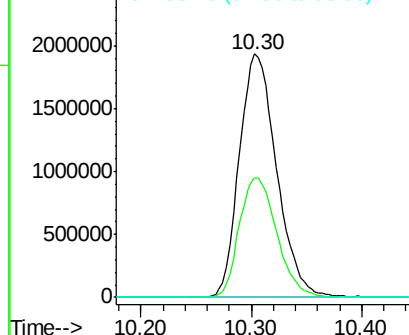
43 100

58 49.6 39.2 58.8

98 0.2 0.4 0.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 15.467 ppbv

RT: 11.41 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion: 164 Resp: 1471658

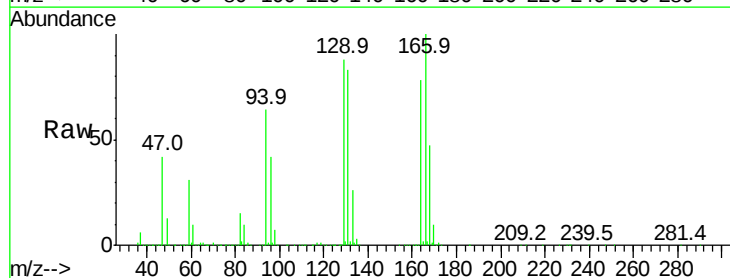
Ion Ratio Lower Upper

164 100

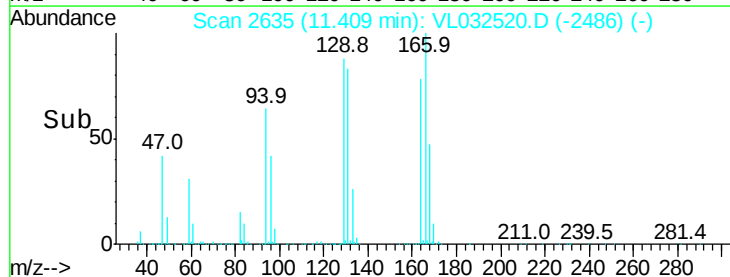
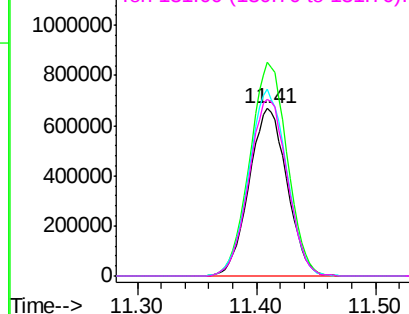
166 127.6 100.6 150.8

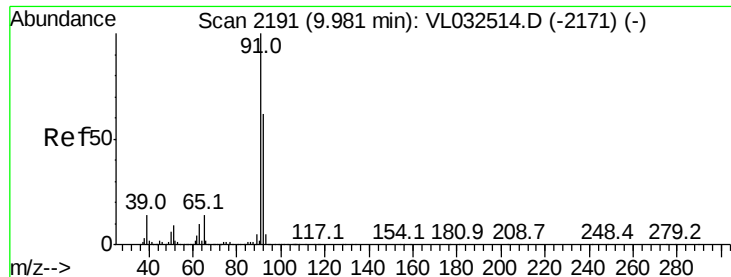
129 111.7 89.9 134.9

131 105.5 85.9 128.9



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 18.020 ppbv

RT: 9.98 min Scan# 2192

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

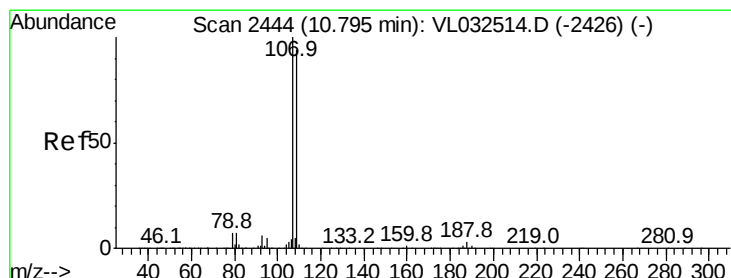
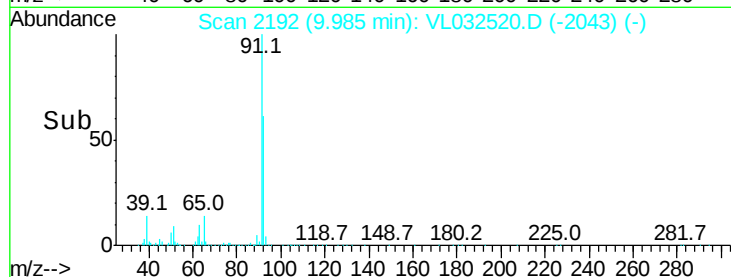
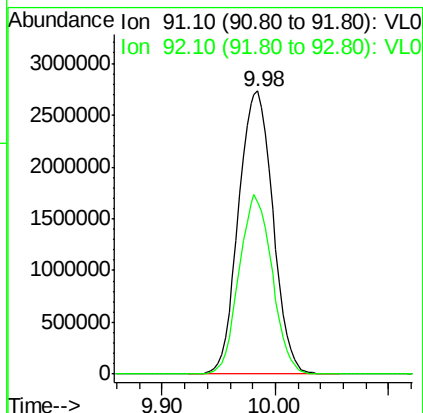
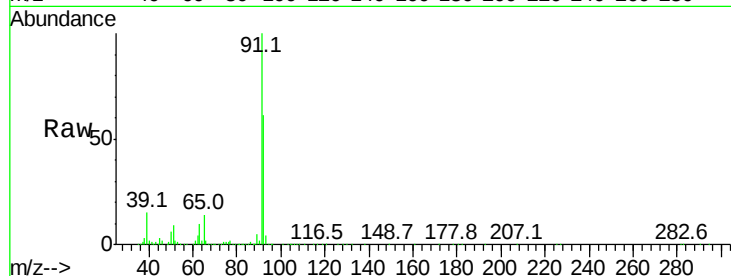
VSTDIC015

Tgt Ion: 91 Resp: 5779777

Ion Ratio Lower Upper

91 100

92 61.1 48.1 72.1



#54

1,2-Dibromoethane

Concen: 16.780 ppbv

RT: 10.80 min Scan# 2445

Delta R.T. -0.02 min

Lab File: VL032520.D

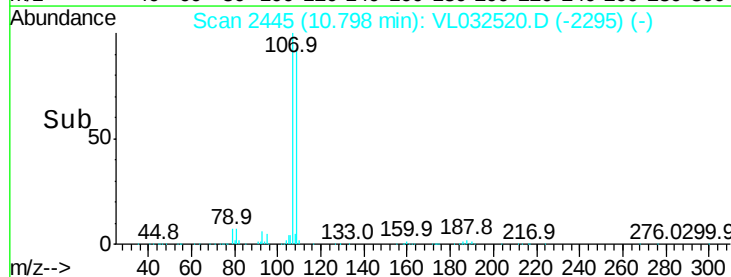
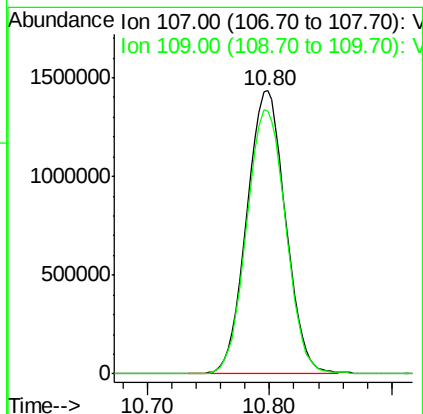
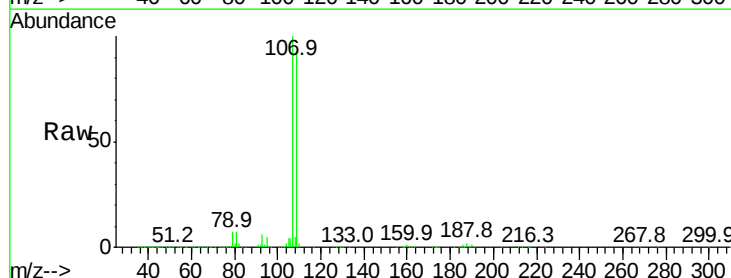
Acq: 24 Sep 2018 20:21

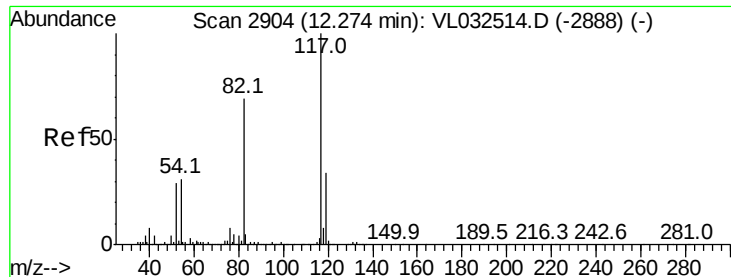
Tgt Ion: 107 Resp: 3144778

Ion Ratio Lower Upper

107 100

109 92.7 73.9 110.9

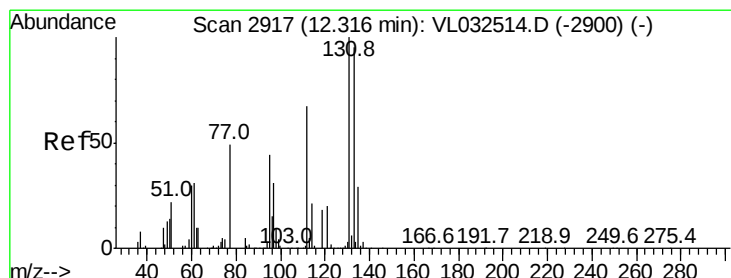
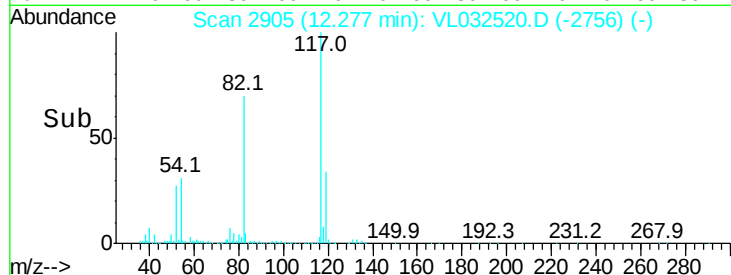
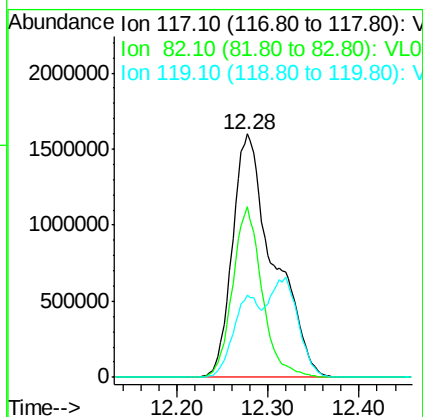
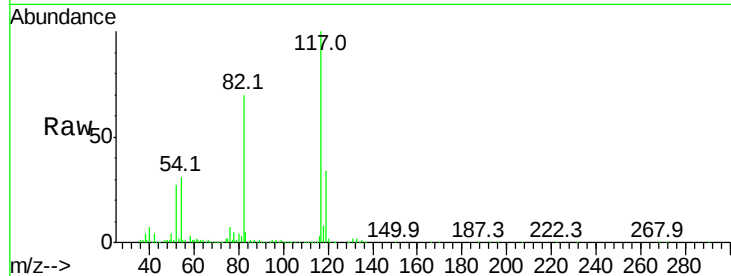




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

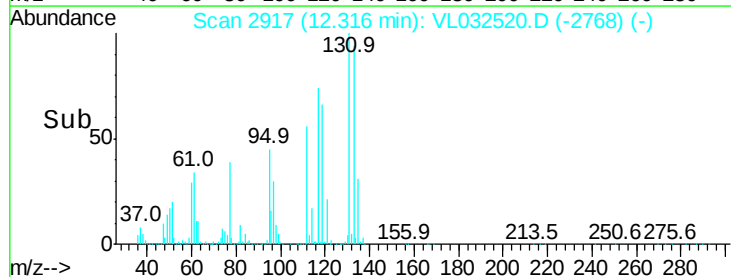
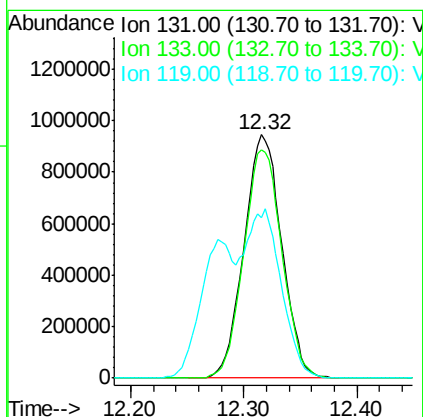
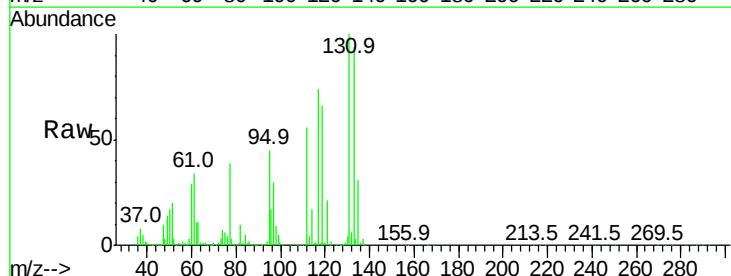
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

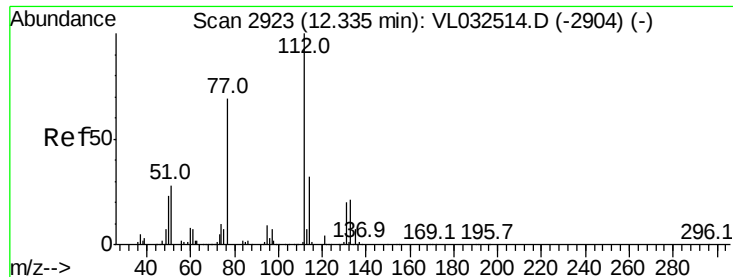
Tgt Ion:117 Resp: 5032826
Ion Ratio Lower Upper
117 100
82 50.2 53.0 79.6#
119 51.7 45.9 68.9



#56
1,1,1,2-Tetrachloroethane
Concen: 9.649 ppbv
RT: 12.32 min Scan# 2917
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion:131 Resp: 2189293
Ion Ratio Lower Upper
131 100
133 95.5 77.0 115.4
119 72.4 114.2 171.2#





#57

Chlorobenzene

Concen: 9.785 ppbv

RT: 12.34 min Scan# 2925

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

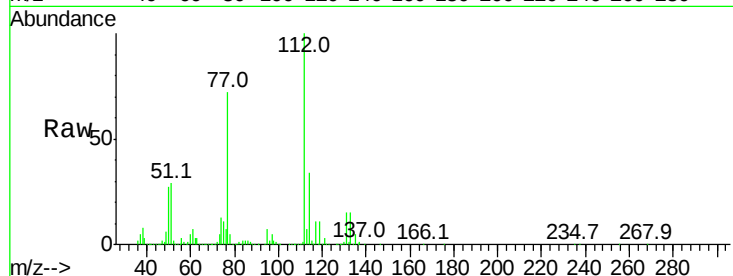
Tgt Ion: 112 Resp: 3935956

Ion Ratio Lower Upper

112 100

77 71.7 56.1 84.1

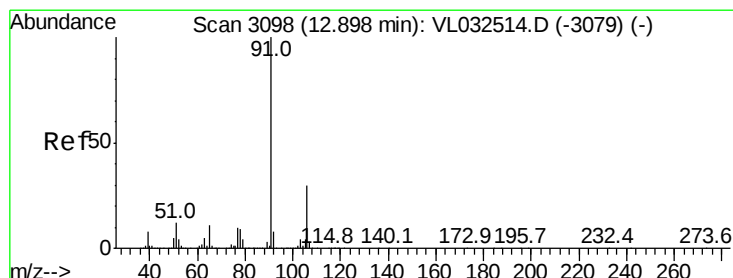
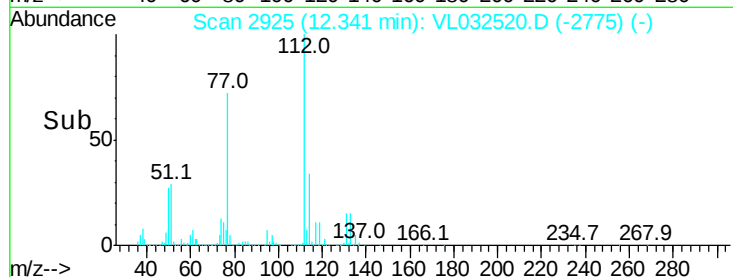
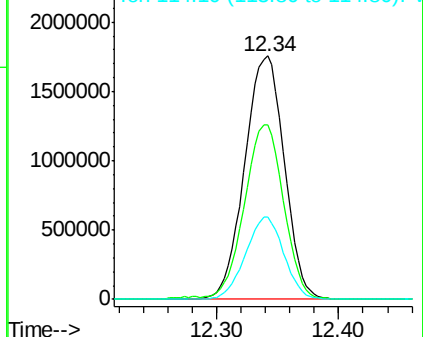
114 34.0 27.8 34.0#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.844 ppbv

RT: 12.90 min Scan# 3099

Delta R.T. -0.02 min

Lab File: VL032520.D

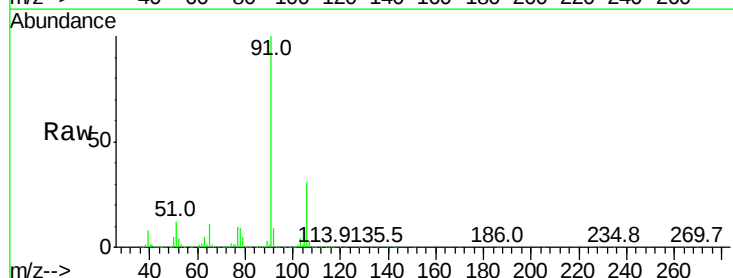
Acq: 24 Sep 2018 20:21

Tgt Ion: 91 Resp: 7133172

Ion Ratio Lower Upper

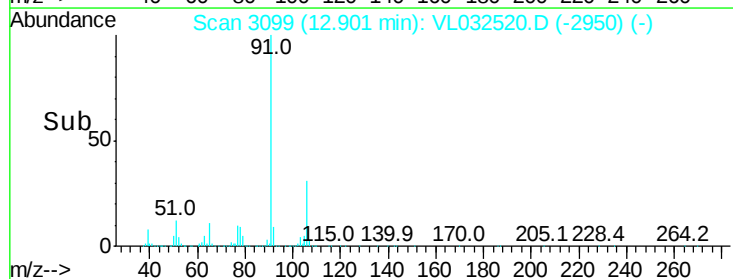
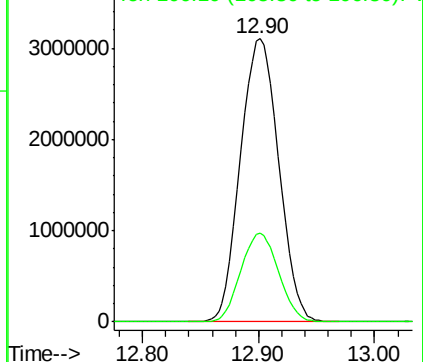
91 100

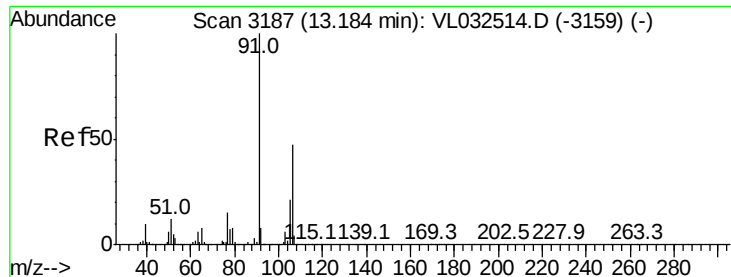
106 31.2 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

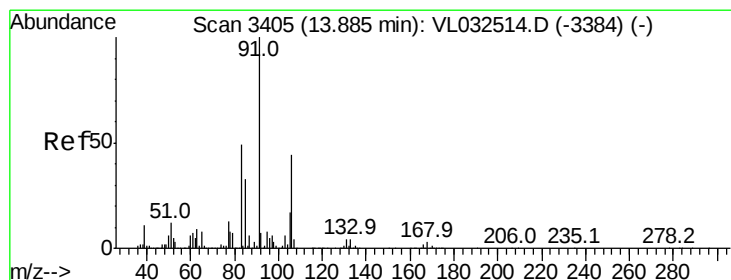
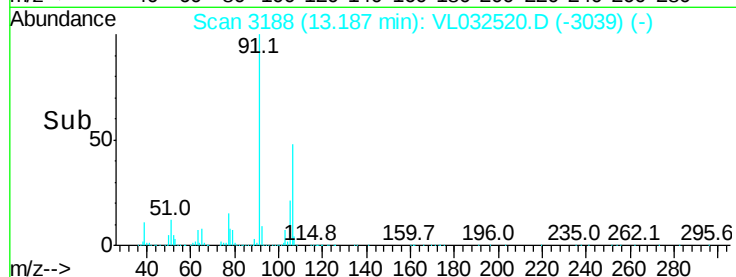
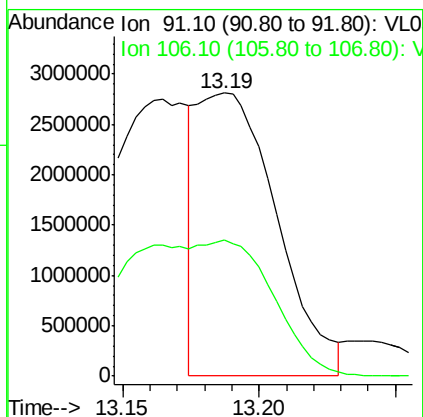
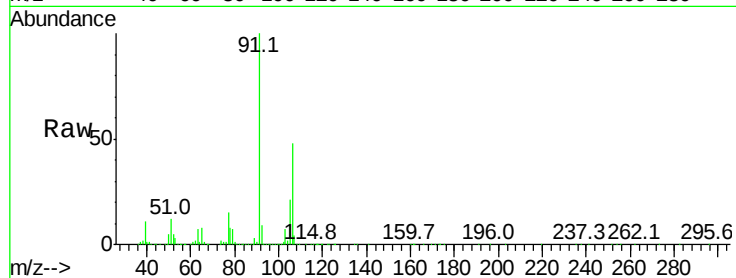




#59
m/p-Xylene
Concen: 10.528 ppbv
RT: 13.19 min Scan# 3188
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

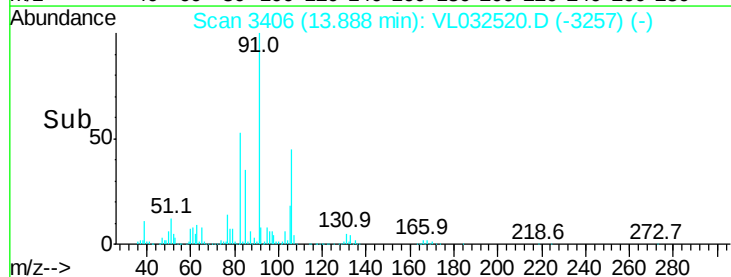
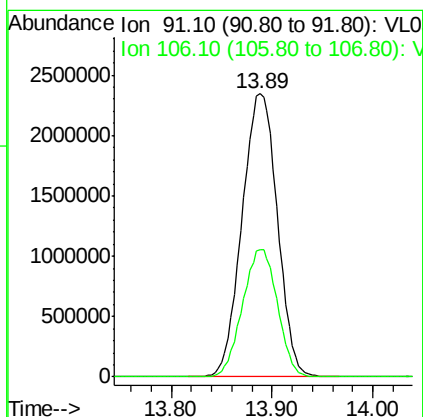
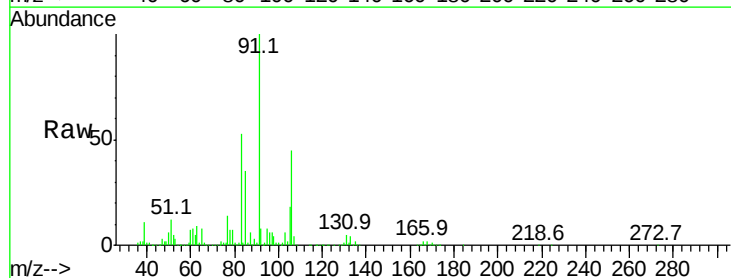
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

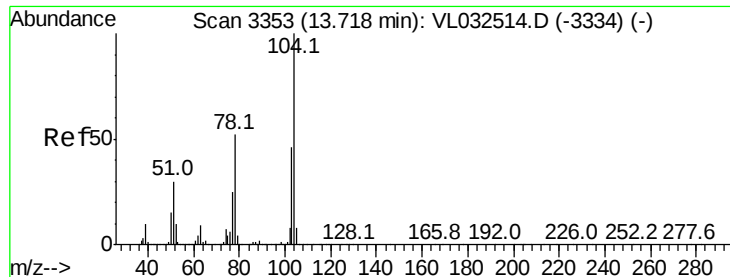
Tgt Ion: 91 Resp: 5653022
Ion Ratio Lower Upper
91 100
106 94.7 36.6 55.0#



#60
o-Xylene
Concen: 10.787 ppbv
RT: 13.89 min Scan# 3406
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion: 91 Resp: 5689477
Ion Ratio Lower Upper
91 100
106 44.4 21.9 65.7





#61

Styrene

Concen: 12.859 ppbv

RT: 13.72 min Scan# 3354

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

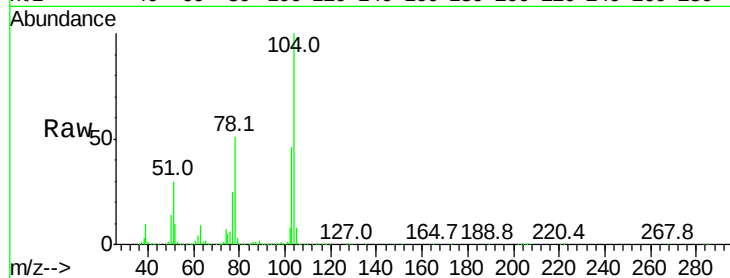
Tgt Ion:104 Resp: 4390805

Ion Ratio Lower Upper

104 100

78 52.9 41.8 62.8

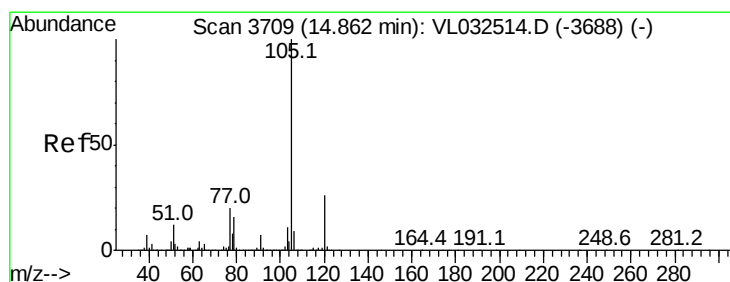
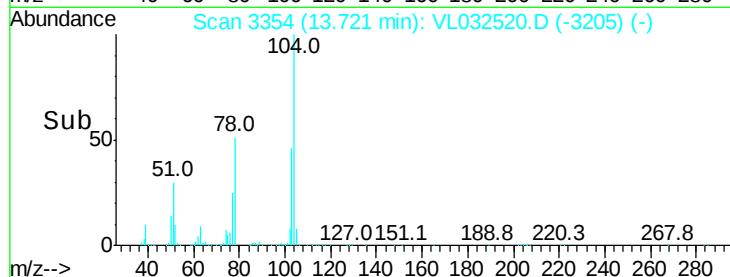
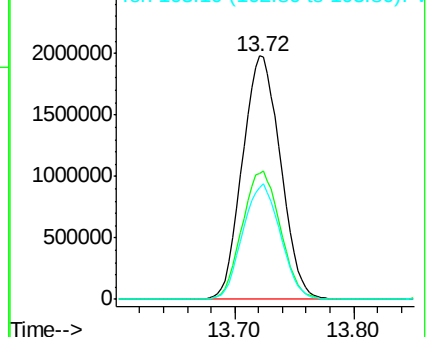
103 47.0 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.818 ppbv

RT: 14.86 min Scan# 3709

Delta R.T. -0.02 min

Lab File: VL032520.D

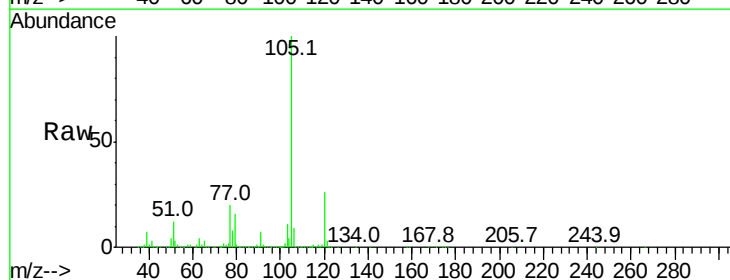
Acq: 24 Sep 2018 20:21

Tgt Ion:105 Resp: 8021082

Ion Ratio Lower Upper

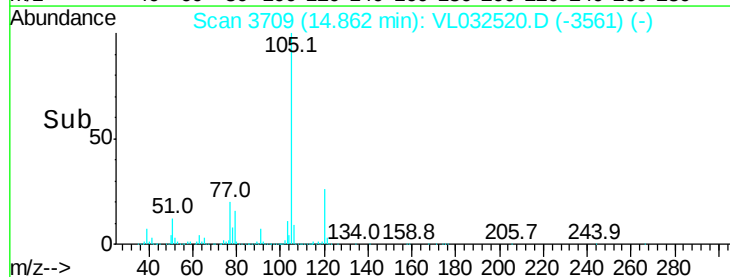
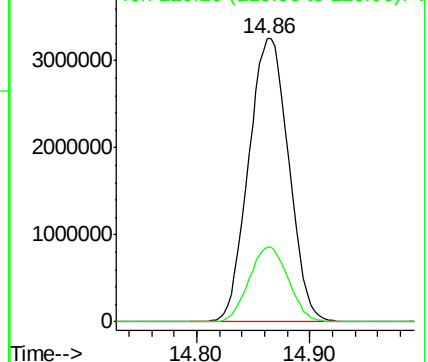
105 100

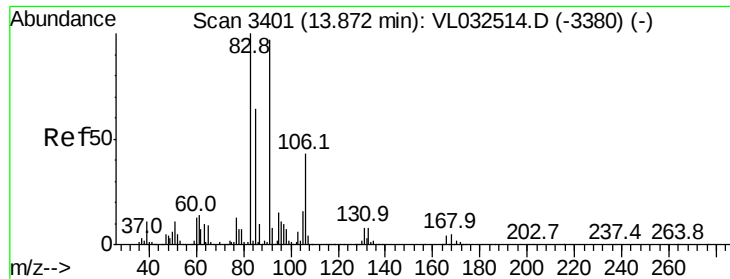
120 25.9 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

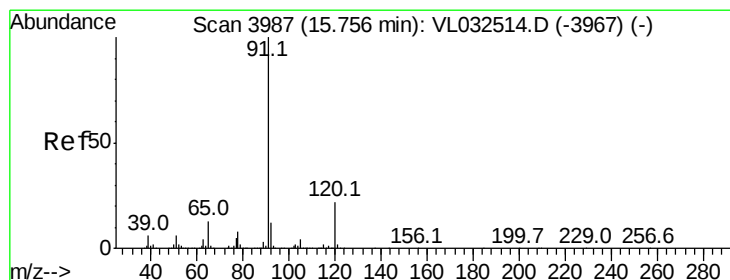
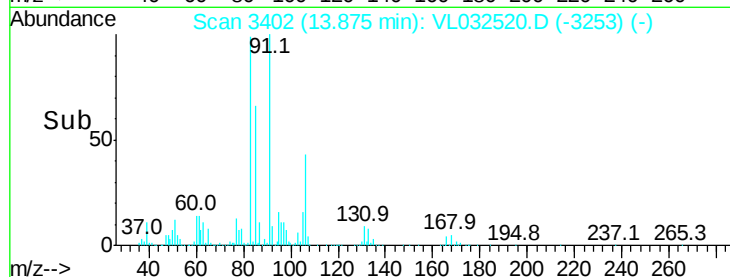
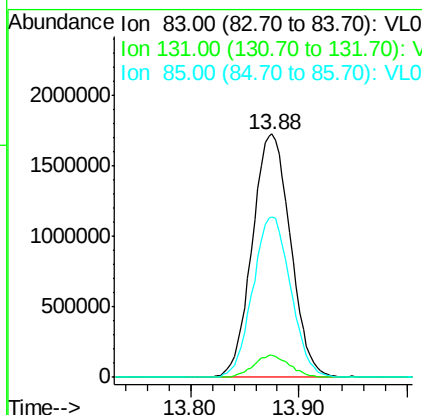
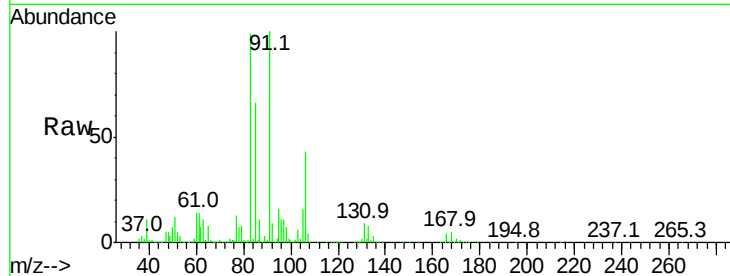




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.999 ppbv
 RT: 13.88 min Scan# 3402
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

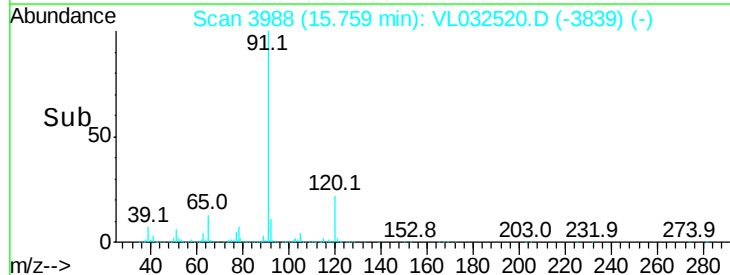
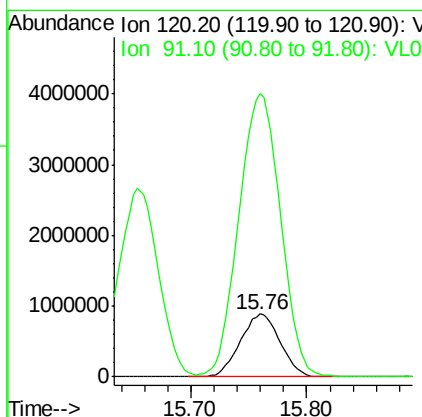
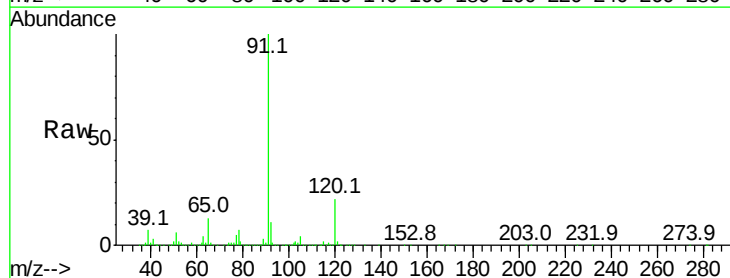
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

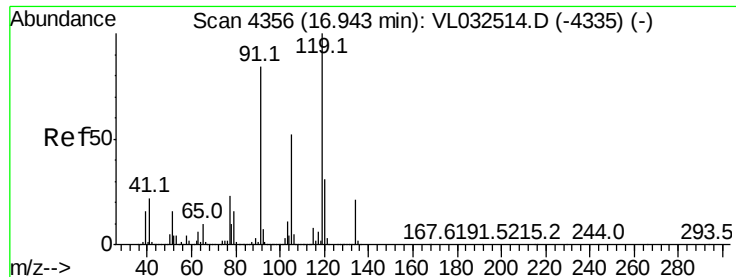
Tgt Ion: 83 Resp: 4243605
 Ion Ratio Lower Upper
 83 100
 131 8.7 4.3 12.8
 85 65.8 32.3 96.8



#64
 n-propylbenzene
 Concen: 10.966 ppbv
 RT: 15.76 min Scan# 3988
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion: 120 Resp: 2125674
 Ion Ratio Lower Upper
 120 100
 91 470.3 381.8 572.6





#65

tert-Butylbenzene

Concen: 10.342 ppbv

RT: 16.95 min Scan# 4358

Delta R.T. -0.01 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

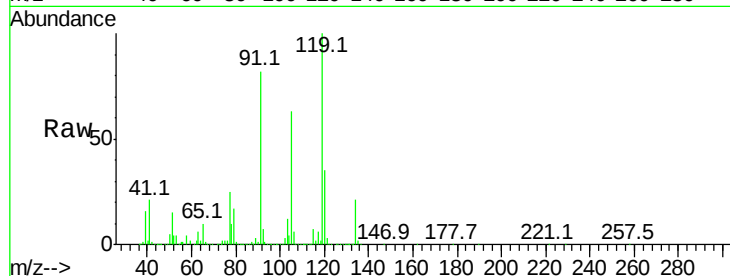
Tgt Ion: 119 Resp: 6607670

Ion Ratio Lower Upper

119 100

91 83.5 66.5 99.7

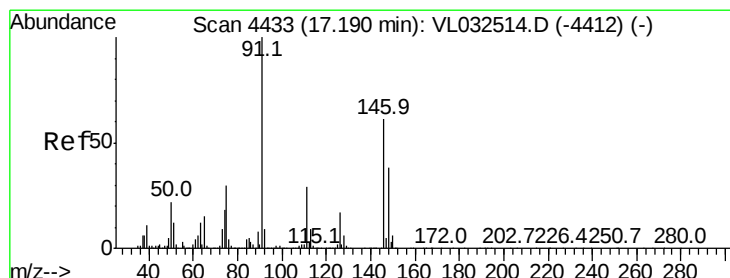
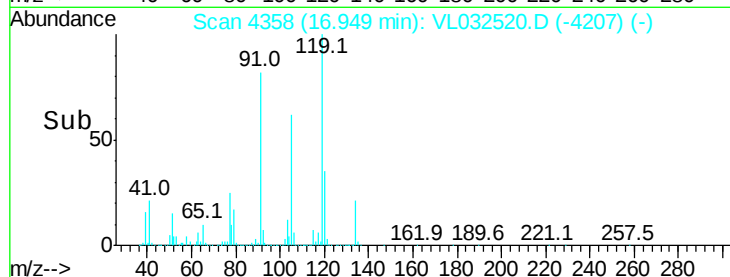
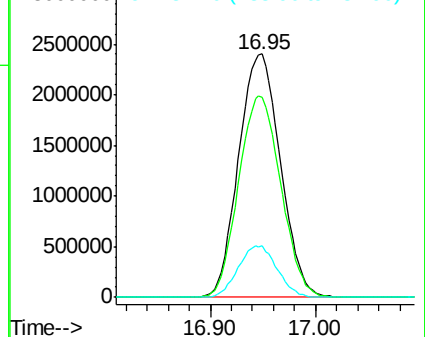
134 19.8 16.0 24.0



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.430 ppbv

RT: 17.19 min Scan# 4434

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

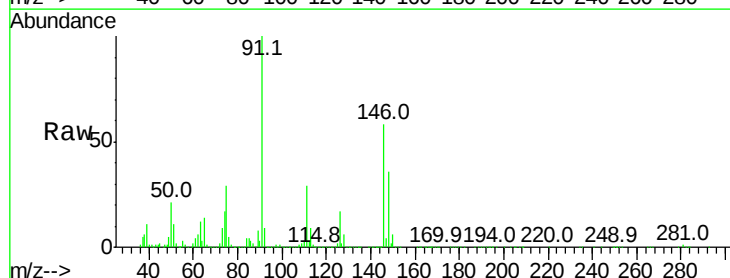
Tgt Ion: 91 Resp: 4424085

Ion Ratio Lower Upper

91 100

126 17.2 13.8 20.8

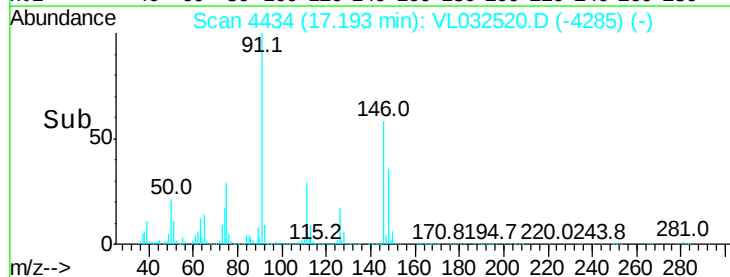
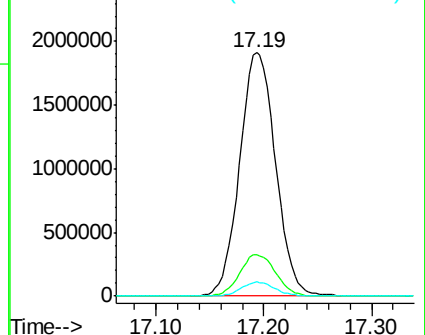
128 5.5 4.4 6.6

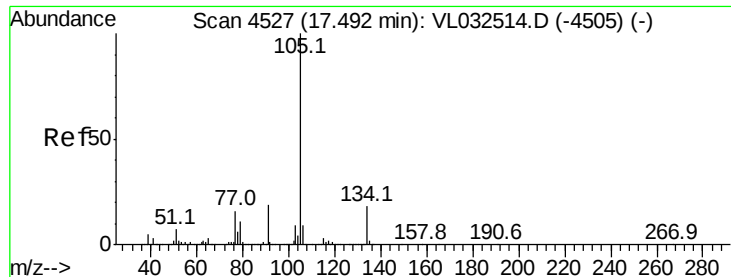


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.233 ppbv

RT: 17.50 min Scan# 4529

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

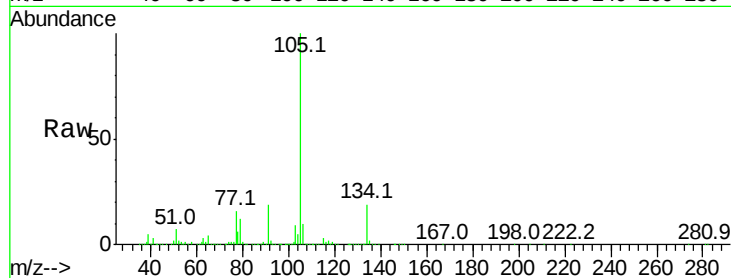
VSTDIC015

Tgt Ion:105 Resp: 9832826

Ion Ratio Lower Upper

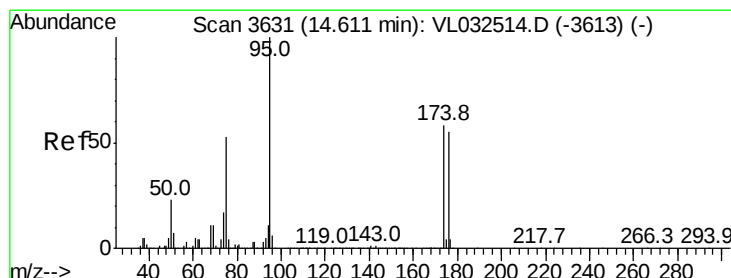
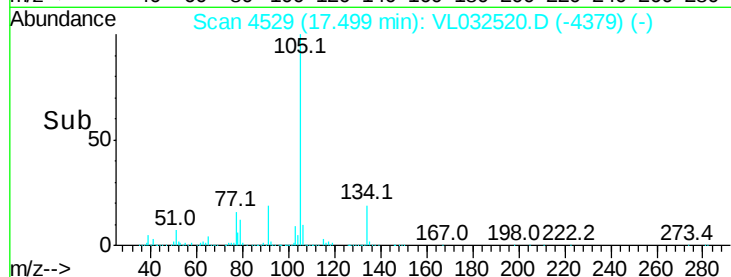
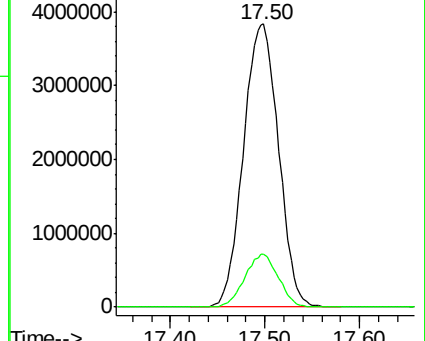
105 100

134 17.9 14.4 21.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 7.572 ppbv

RT: 14.61 min Scan# 3632

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

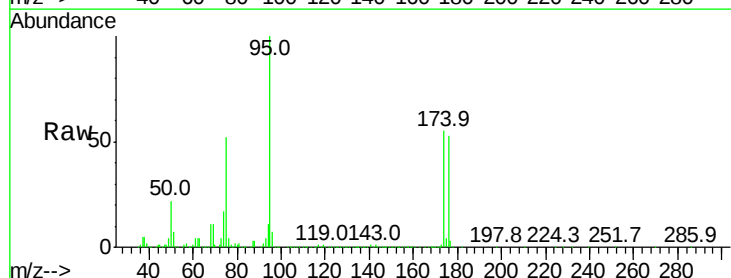
Tgt Ion: 95 Resp: 2829193

Ion Ratio Lower Upper

95 100

174 57.9 46.3 69.5

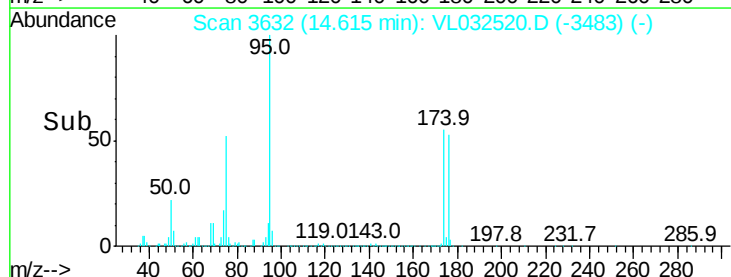
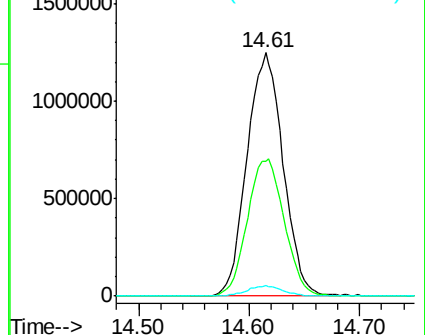
175 4.1 3.4 5.0

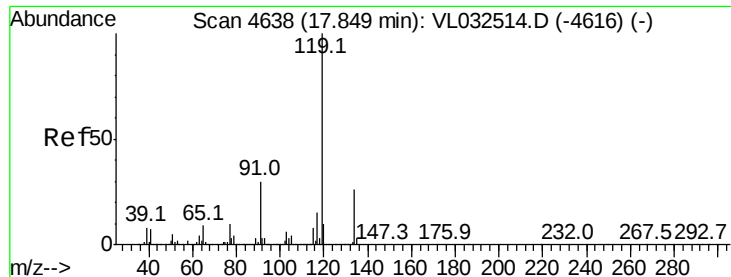


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 10.627 ppbv

RT: 17.85 min Scan# 4639

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

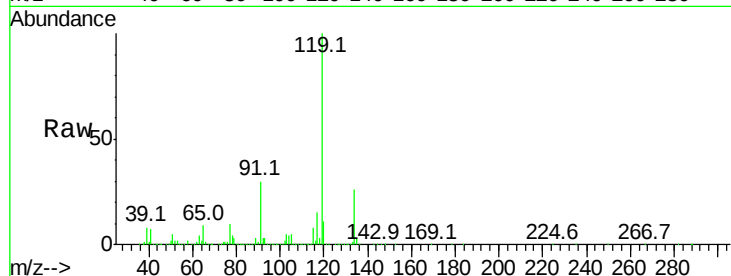
Tgt Ion:119 Resp: 7913849

Ion Ratio Lower Upper

119 100

134 25.7 20.4 30.6

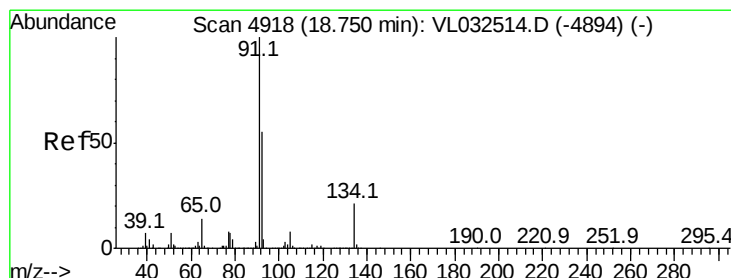
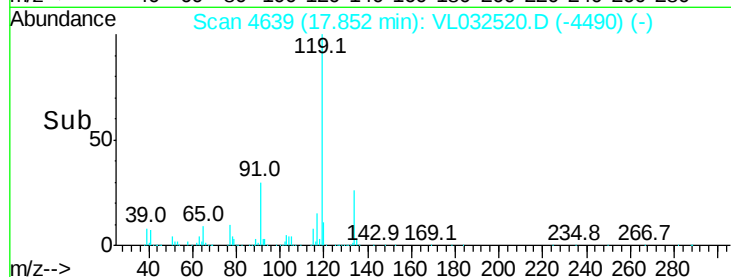
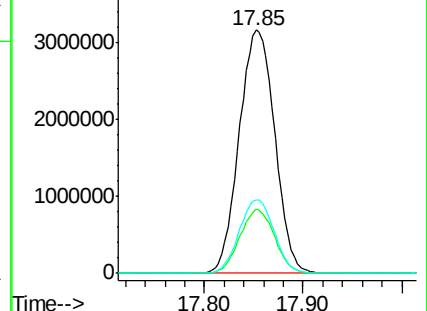
91 29.6 23.4 35.2



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 10.291 ppbv

RT: 18.75 min Scan# 4918

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

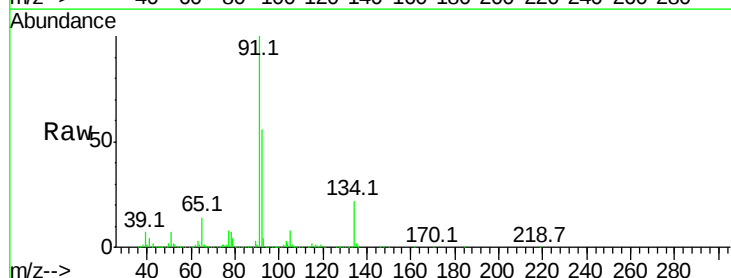
Tgt Ion: 91 Resp: 8687504

Ion Ratio Lower Upper

91 100

92 55.2 43.8 65.8

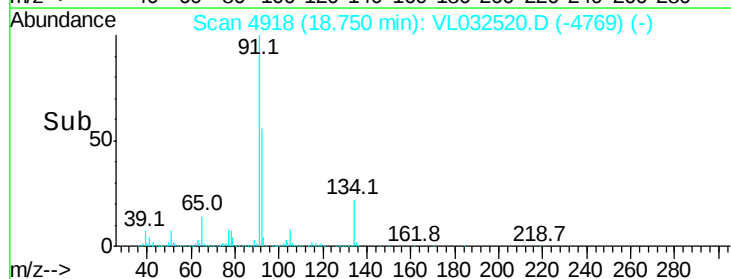
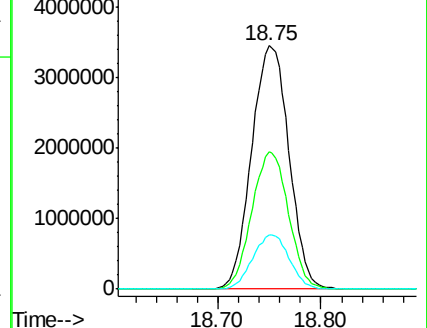
134 21.9 17.4 26.0

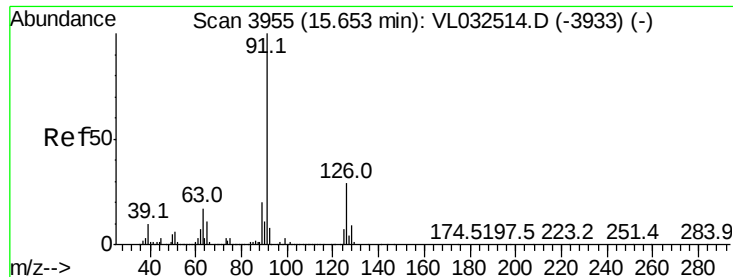


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 11.185 ppbv

RT: 15.65 min Scan# 3955

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

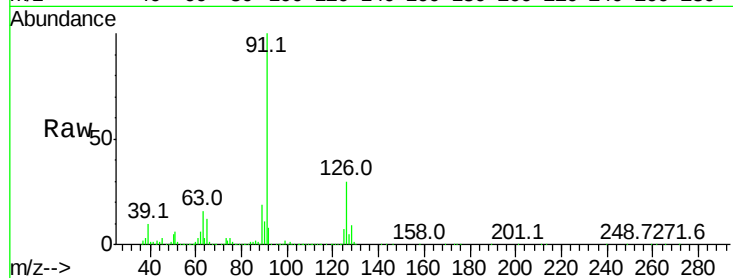
VSTDIC015

Tgt Ion: 91 Resp: 6336095

Ion Ratio Lower Upper

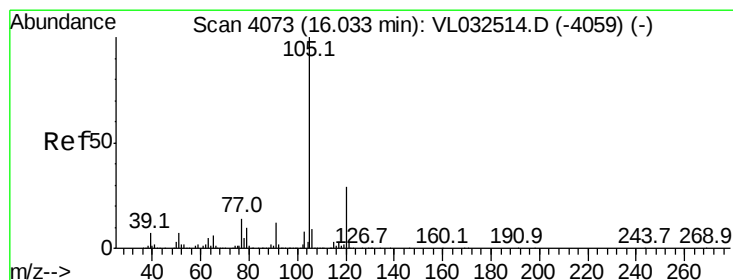
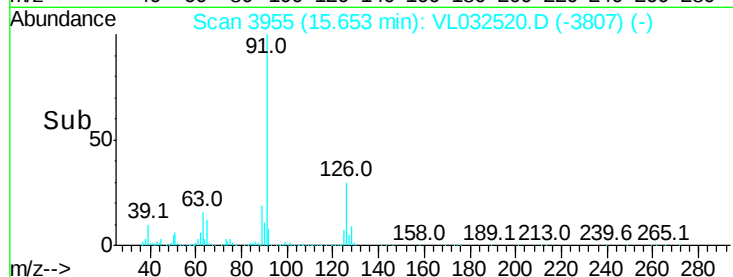
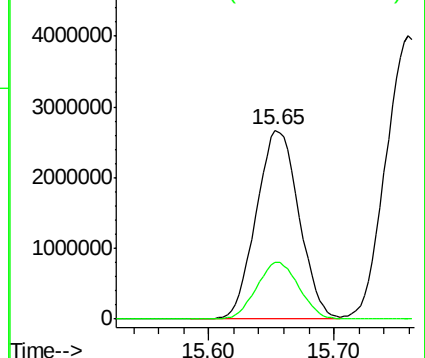
91 100

126 29.9 11.9 47.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.663 ppbv

RT: 16.04 min Scan# 4075

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion: 105 Resp: 6716247

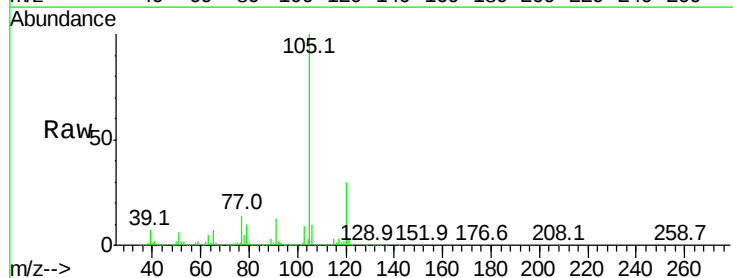
Ion Ratio Lower Upper

105 100

120 29.4 23.5 35.3

91 13.2 10.2 15.2

77 14.1 11.1 16.7

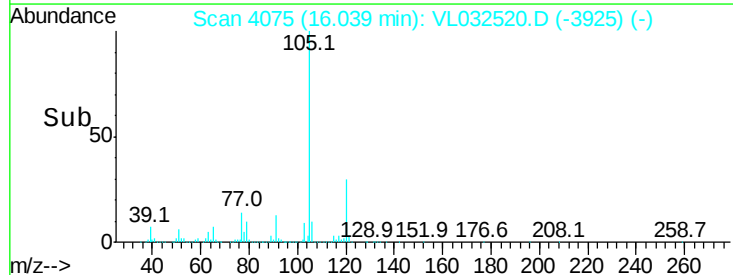
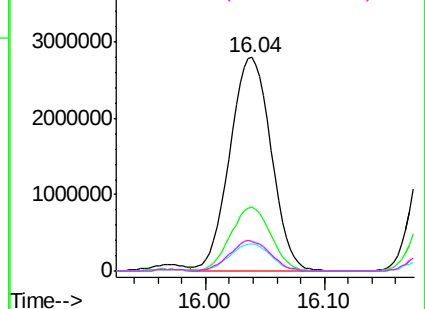


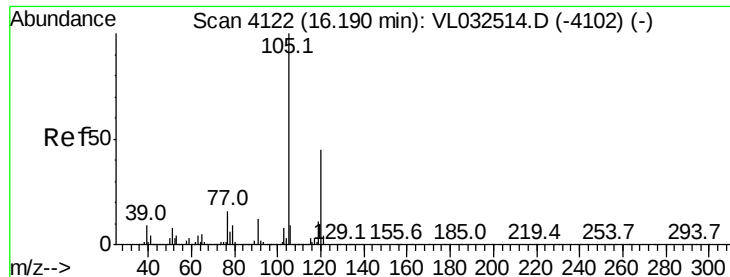
Abundance Ion 105.10 (104.80 to 105.80): V

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: 10.999 ppbv

RT: 16.20 min Scan# 4124

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

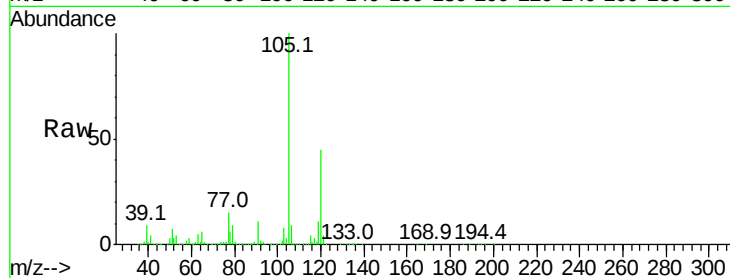
VSTDIC015

Tgt Ion:105 Resp: 6345414

Ion Ratio Lower Upper

105 100

120 45.1 37.9 56.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.20

2500000

2000000

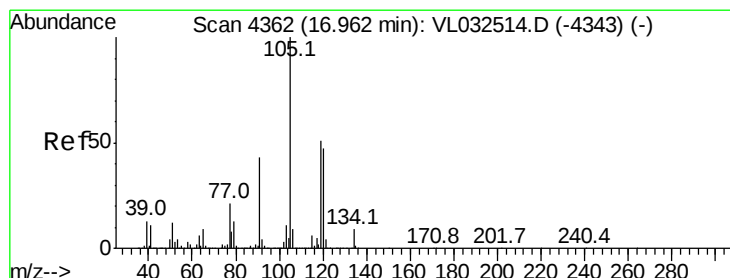
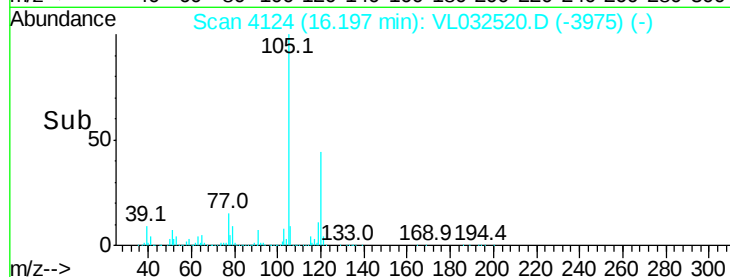
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.853 ppbv

RT: 16.97 min Scan# 4364

Delta R.T. -0.01 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion:105 Resp: 6214545

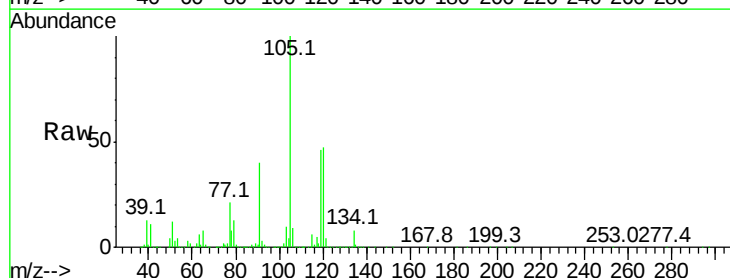
Ion Ratio Lower Upper

105 100

120 46.4 37.8 56.8

91 39.4 41.4 62.0#

77 20.5 18.6 28.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

4000000

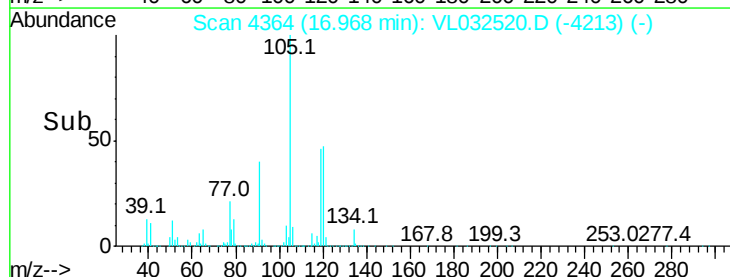
3000000

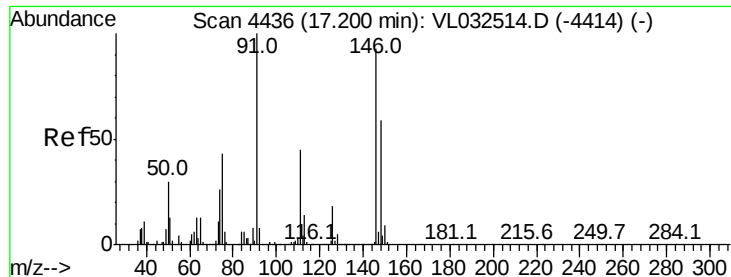
2000000

1000000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.439 ppbv

RT: 17.21 min Scan# 4438

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

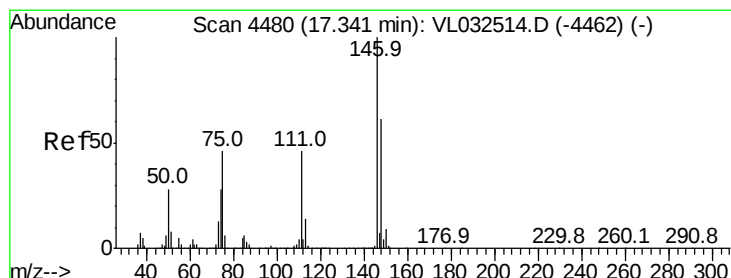
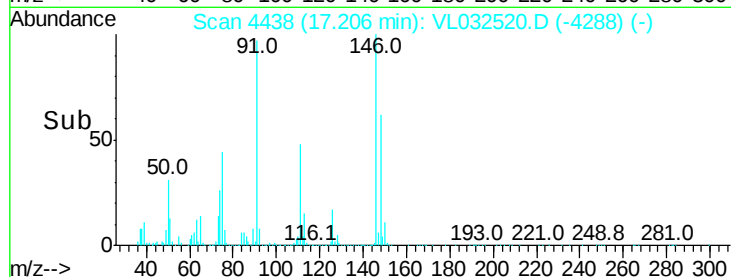
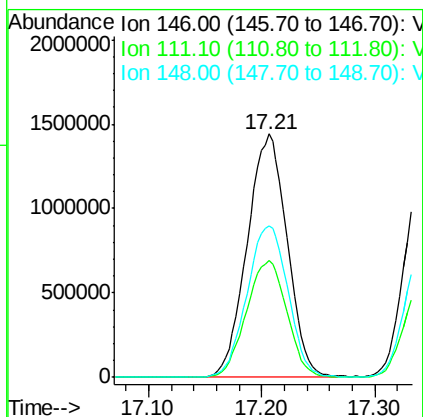
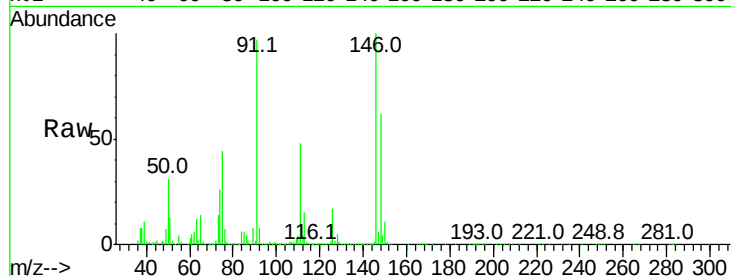
Tgt Ion:146 Resp: 3532508

Ion Ratio Lower Upper

146 100

111 48.9 24.5 73.5

148 64.1 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 10.319 ppbv

RT: 17.35 min Scan# 4482

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

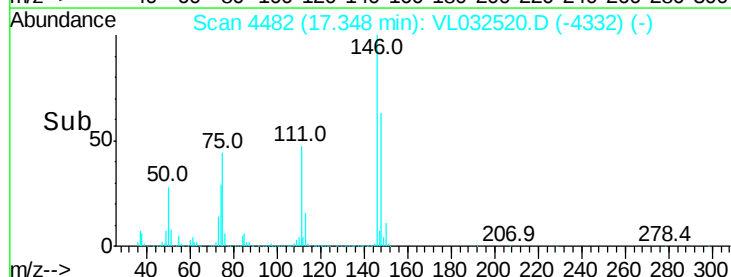
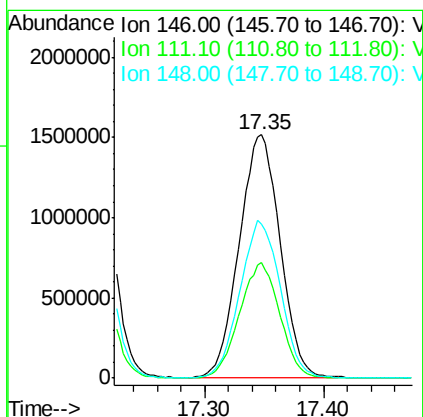
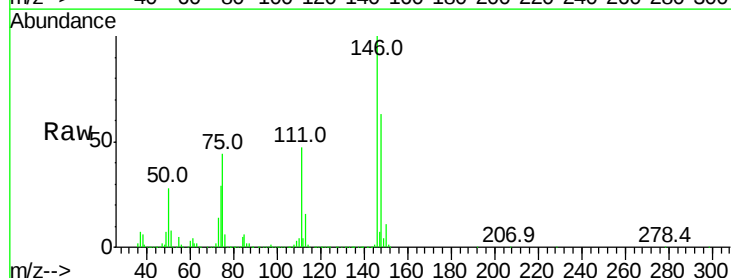
Tgt Ion:146 Resp: 3583364

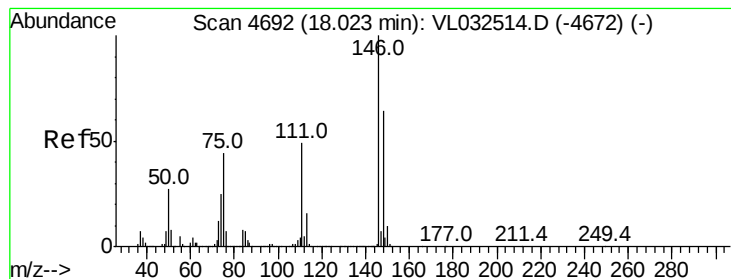
Ion Ratio Lower Upper

146 100

111 47.0 23.4 70.2

148 64.7 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 9.842 ppbv

RT: 18.03 min Scan# 4693

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

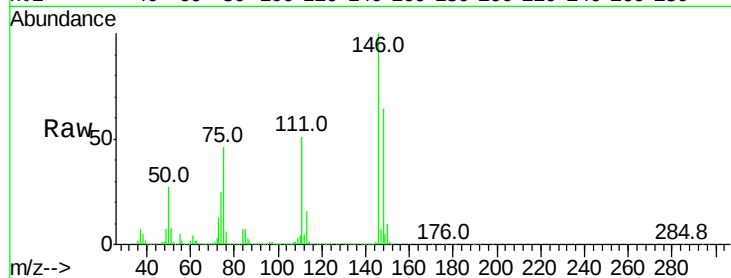
Tgt Ion:146 Resp: 3553678

Ion Ratio Lower Upper

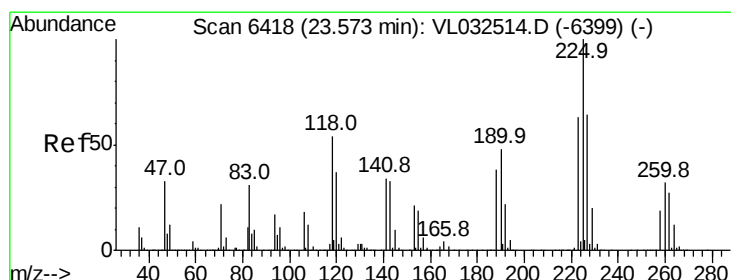
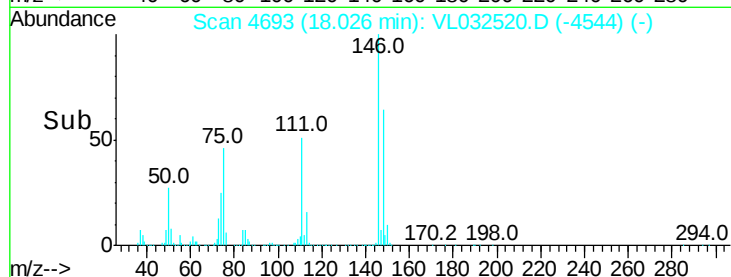
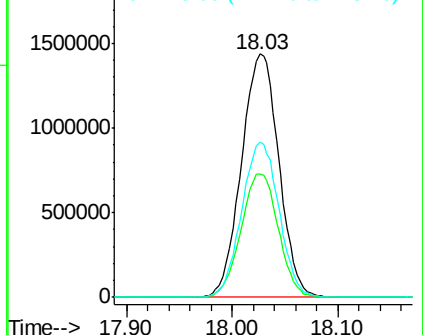
146 100

111 50.6 24.9 74.8

148 63.7 32.0 96.0



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



#78

Hexachloro-1,3-Butadiene

Concen: 9.053 ppbv

RT: 23.58 min Scan# 6420

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

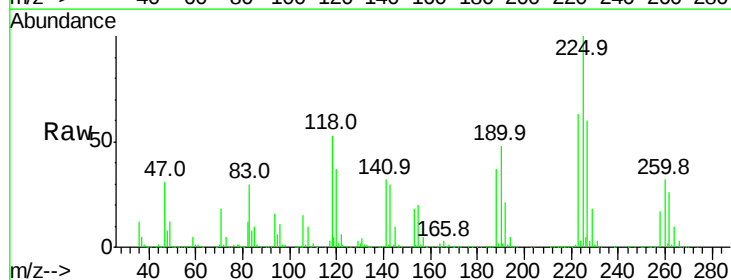
Tgt Ion:225 Resp: 1221454

Ion Ratio Lower Upper

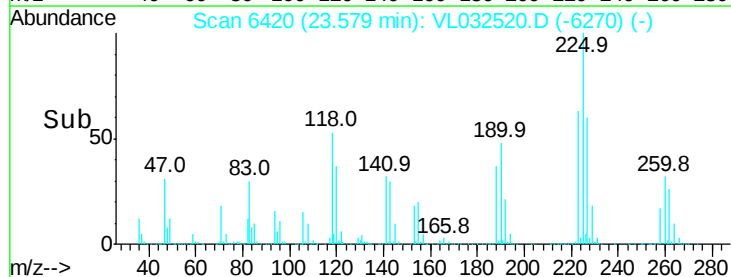
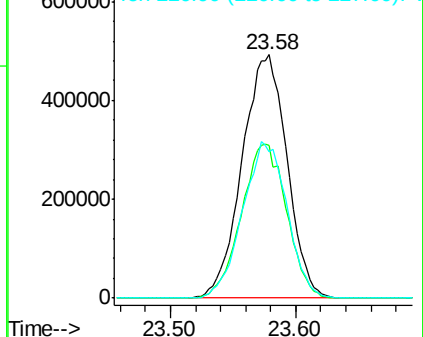
225 100

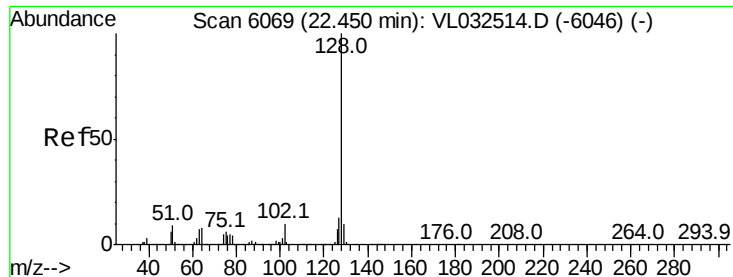
223 63.9 50.6 76.0

227 63.7 51.2 76.8



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V

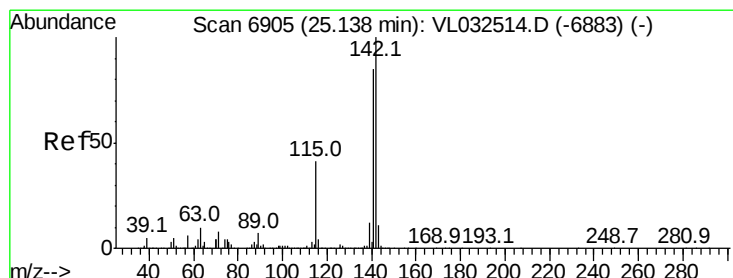
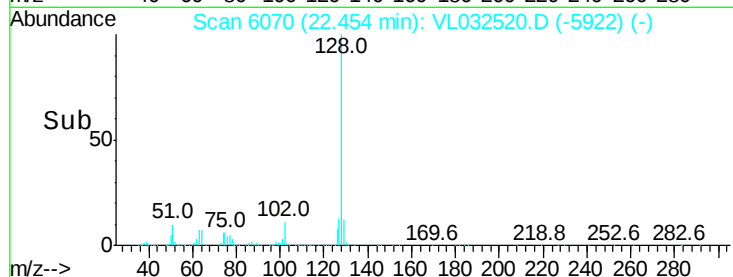
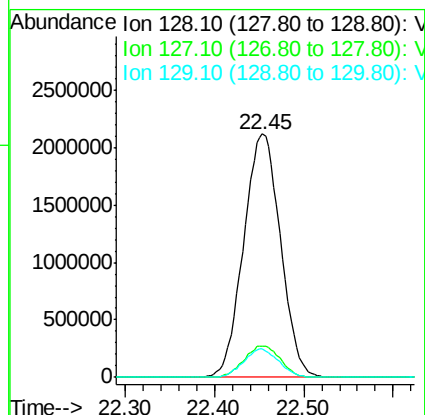
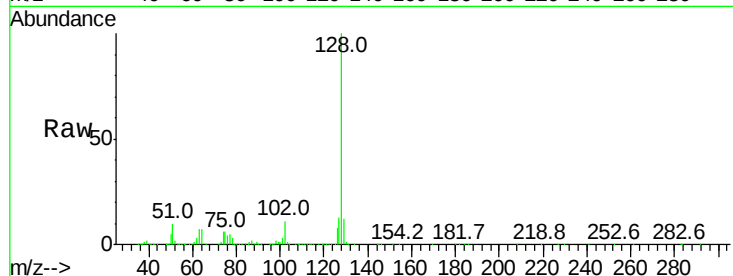




#79
Naphthalene
Concen: 11.858 ppbv
RT: 22.45 min Scan# 6070
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

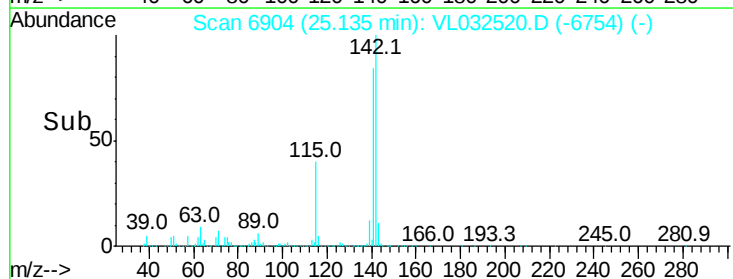
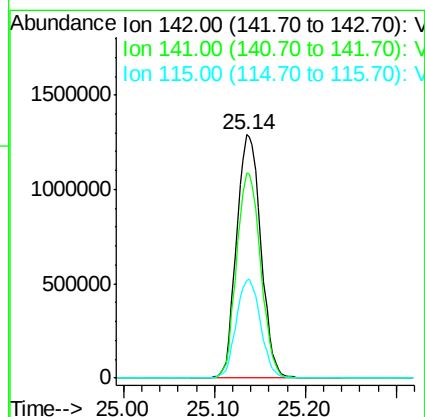
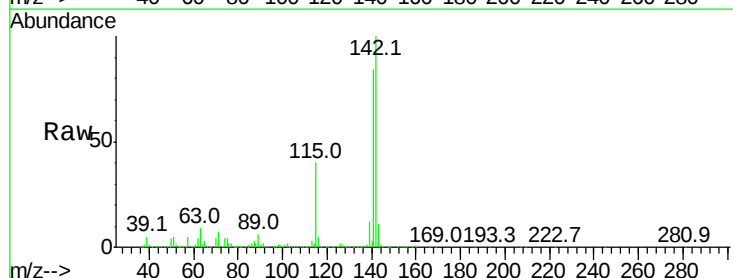
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

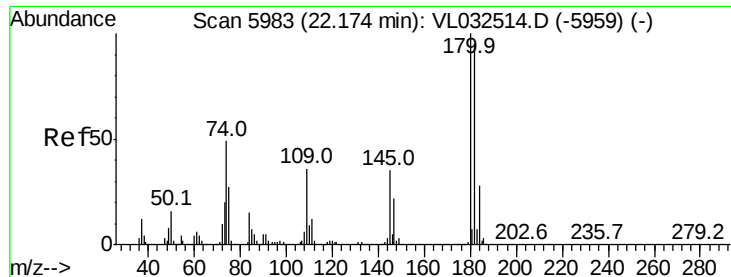
Tgt Ion:128 Resp: 6081844
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 12.0 8.5 12.7



#80
Naphthalene, 2-methyl-
Concen: 17.593 ppbv
RT: 25.14 min Scan# 6904
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion:142 Resp: 2400923
Ion Ratio Lower Upper
142 100
141 83.8 67.0 100.6
115 40.4 31.3 46.9





#81

1,2,4-Trichlorobenzene

Concen: 10.954 ppbv

RT: 22.18 min Scan# 5985

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

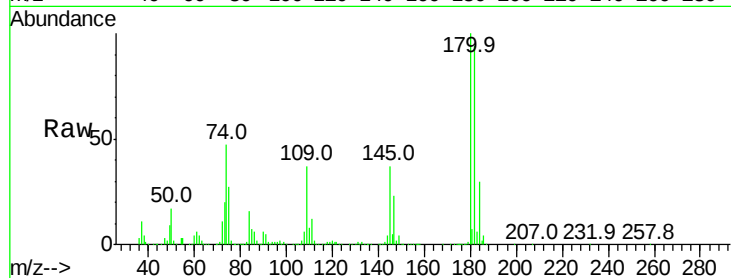
Tgt Ion:180 Resp: 2829756

Ion Ratio Lower Upper

180 100

182 95.9 76.1 114.1

184 30.2 23.8 35.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

