

Data File : VL032515.D
Acq On : 24 Sep 2018 17:07
Operator : SY/AP
Sample : VSTDIC002
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Sep 24 18:32:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:39:49 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	1649593	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3658464	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3739238	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2757695	9.93	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.09	85	283360	1.343	ppbv	96
3) Chlorodifluoromethane	3.03	51	277845	1.861	ppbv	99
4) Chloromethane	3.19	50	159104	1.760	ppbv	96
5) Vinyl Chloride	3.31	62	148634	1.666	ppbv	100
6) Bromomethane	3.53	94	88119	1.881	ppbv	100
7) Chloroethane	3.62	64	59514	1.927	ppbv	94
8) Dichlorotetrafluoroethane	3.24	85	337787	1.804	ppbv	100
9) Propene	3.05	41	121763	2.021	ppbv	97
10) Heptane	8.28	43	457632	2.118	ppbv	98
11) Trichlorofluoromethane	4.03	101	363164	1.909	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.58	101	303091	2.351	ppbv	99
13) Ethanol	3.67	45	34895	1.858	ppbv	97
14) Bromoethene	3.81	108	104430	1.912	ppbv	98
15) Acetone	3.93	43	293288	1.974	ppbv	99
16) 1,3-Butadiene	3.38	39	107055	1.532	ppbv	90
17) tert-Butyl alcohol	4.39	59	7179	0.314	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	138631	2.353	ppbv	91
19) Isopropyl Alcohol	4.05	45	200205	2.054	ppbv #	98
20) Methylene Chloride	4.44	84	139322	2.460	ppbv	97
21) Allyl Chloride	4.50	41	241044	2.443	ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	134614	2.105	ppbv	99
23) Vinyl Acetate	5.18	43	532326	2.162	ppbv	99
24) 1,1-Dichloroethane	5.12	63	440198	2.170	ppbv	99
25) Ethyl Acetate	5.80	43	752991	2.146	ppbv	99
26) Hexane	5.80	57	338595	2.156	ppbv	95
27) Carbon Disulfide	4.65	76	340909	2.351	ppbv #	94
28) Methyl tert-Butyl Ether	5.14	73	421496	2.186	ppbv	99
29) Chloroform	5.87	83	493118	2.059	ppbv	94
30) Cyclohexane	7.27	84	269102	2.340	ppbv	87
31) cis-1,2-Dichloroethene	5.66	61	319212	2.244	ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	507779	2.275	ppbv	99
34) 2-Butanone	5.35	43	470207	1.935	ppbv	98
35) Carbon Tetrachloride	7.16	117	472081	1.920	ppbv	97
36) Benzene	7.03	78	631273	2.028	ppbv	99
37) 1,2-Dichloroethane	6.44	62	379837	1.991	ppbv	99
38) Trichloroethene	7.99	130	253599	2.144	ppbv	98
39) 1,2-Dichloropropane	7.76	63	288622	2.167	ppbv	98
40) 1,4-Dioxane	8.00	88	64541	1.615	ppbv #	1
41) Tetrahydrofuran	6.18	42	265573	2.007	ppbv	99
42) Bromodichloromethane	7.95	83	566875	2.154	ppbv	97
43) Methyl Methacrylate	8.16	69	266801	2.020	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:39:49 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	1311284	2.179	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	315553	2.233	ppbv	97
46) cis-1,3-Dichloropropene	8.87	75	387578	2.146	ppbv	95
47) 1,1,2-Trichloroethane	9.64	97	312820	2.209	ppbv	96
48) Dibromochloromethane	10.48	129	497124	2.534	ppbv	100
49) Bromoform	13.23	173	381873	2.240	ppbv	99
50) 4-Methyl-2-Pentanone	8.91	43	777207	2.123	ppbv	100
51) 2-Hexanone	10.31	43	645811	2.739	ppbv #	100
52) Tetrachloroethene	11.40	164	216856	2.246	ppbv	98
53) Toluene	9.97	91	801423	2.463	ppbv	99
54) 1,2-Dibromoethane	10.79	107	451853	2.376	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.31	131	349422	2.073	ppbv #	1
57) Chlorobenzene	12.33	112	640655	2.144	ppbv	99
58) Ethyl Benzene	12.89	91	1012303	2.262	ppbv	97
59) m/p-Xylene	13.18	91	624754	1.566	ppbv #	31
60) o-Xylene	13.88	91	882843	2.253	ppbv	99
61) Styrene	13.71	104	579687	2.285	ppbv	98
62) Isopropylbenzene	14.86	105	1230538	2.234	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	715633	2.042	ppbv	100
64) n-propylbenzene	15.75	120	317120	2.202	ppbv	89
65) tert-Butylbenzene	16.94	119	1093109	2.303	ppbv	97
66) Benzyl Chloride	17.18	91	599555	2.267	ppbv	99
67) sec-Butylbenzene	17.49	105	1598142	2.239	ppbv	99
69) p-Isopropyltoluene	17.85	119	1262285	2.281	ppbv	99
70) n-Butylbenzene	18.75	91	1388173	2.213	ppbv	97
71) 2-Chlorotoluene	15.65	91	954193	2.267	ppbv	99
72) 4-Ethyltoluene	16.03	105	962034	2.249	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	926704	2.162	ppbv	93
74) 1,2,4-Trimethylbenzene	16.96	105	1007802	2.151	ppbv	99
75) 1,3-Dichlorobenzene	17.19	146	590858	2.125	ppbv	98
76) 1,4-Dichlorobenzene	17.34	146	550576	2.134	ppbv	99
77) 1,2-Dichlorobenzene	18.02	146	565003	2.106	ppbv	99
78) Hexachloro-1,3-Butadiene	23.57	225	210650	2.101	ppbv	99
79) Naphthalene	22.45	128	693130	1.819	ppbv	97
80) Naphthalene,2-methyl-	25.14	142	70594	0.696	ppbv	97
81) 1,2,4-Trichlorobenzene	22.17	180	350973	1.829	ppbv	100

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

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VSTDICC002

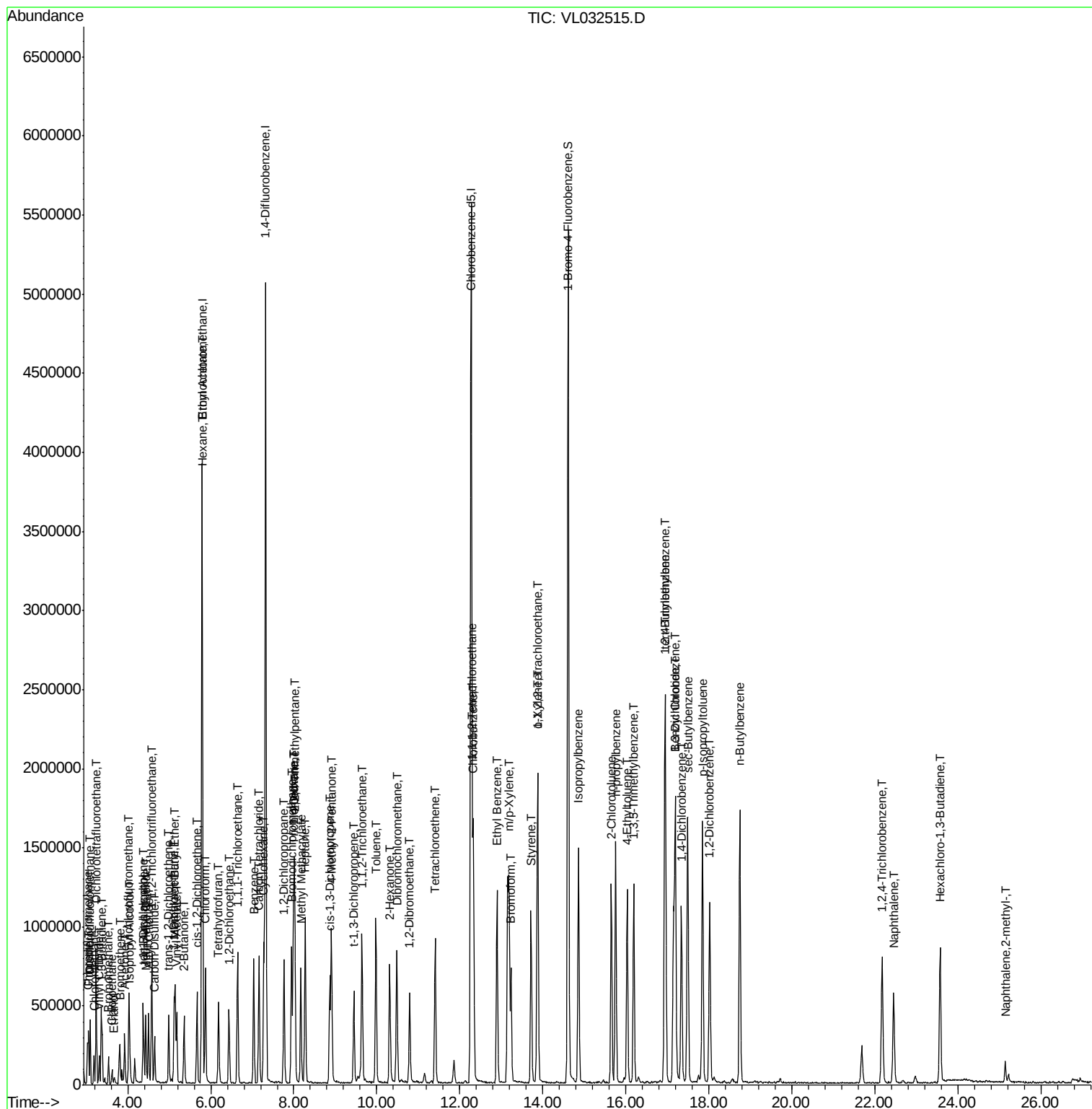
Quant Time: Sep 24 18:32:18 2018

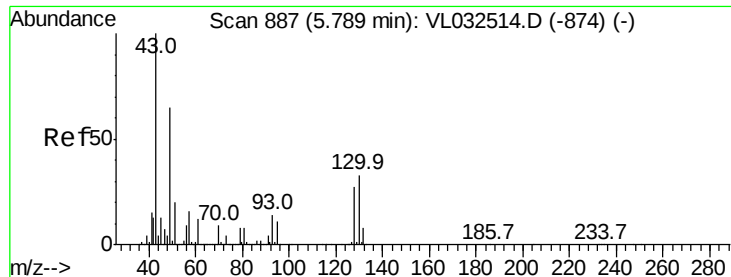
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL092418AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Sep 21 02:39:49 2018

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032515.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

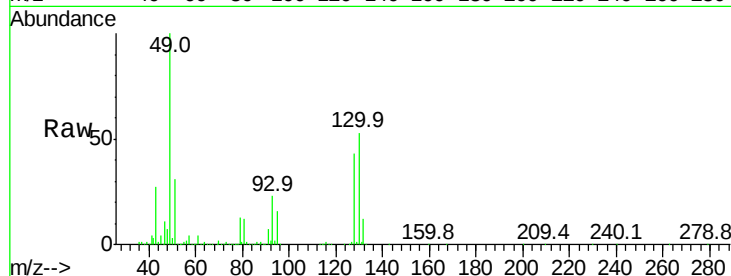
Tgt Ion: 49 Resp: 1649593

Ion Ratio Lower Upper

49 100

128 42.2 20.7 62.1

130 53.6 26.6 79.7



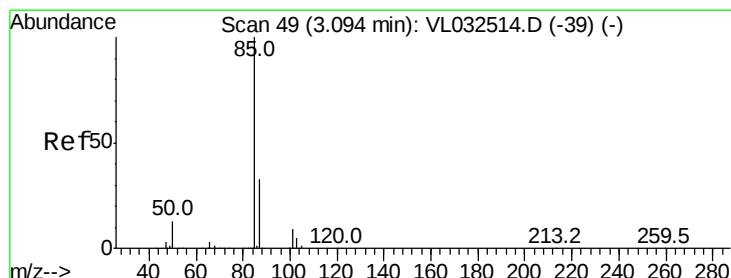
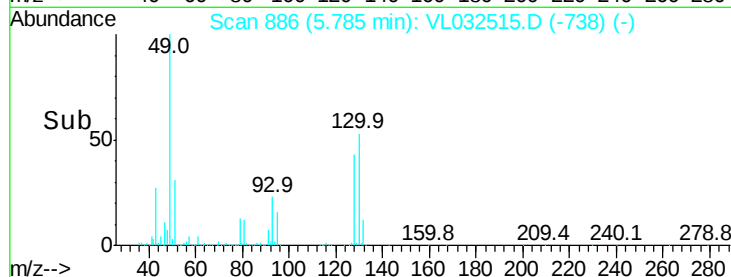
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.79

Time-->



#2

Dichlorodifluoromethane

Concen: 1.343 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032515.D

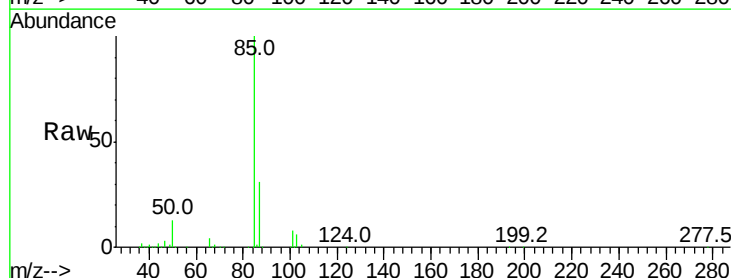
Acq: 24 Sep 2018 17:07

Tgt Ion: 85 Resp: 283360

Ion Ratio Lower Upper

85 100

87 30.5 26.2 39.4

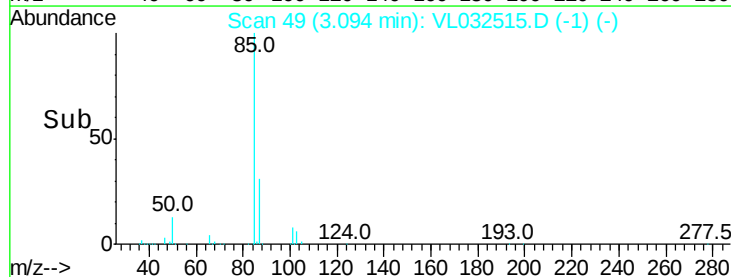


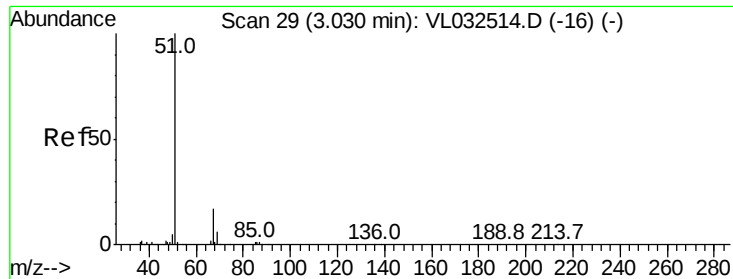
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.09

Time-->





#3

Chlorodifluoromethane

Concen: 1.861 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

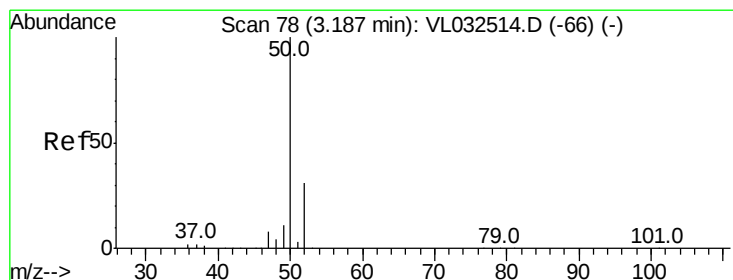
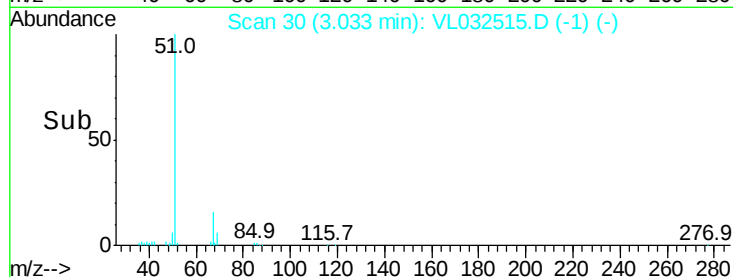
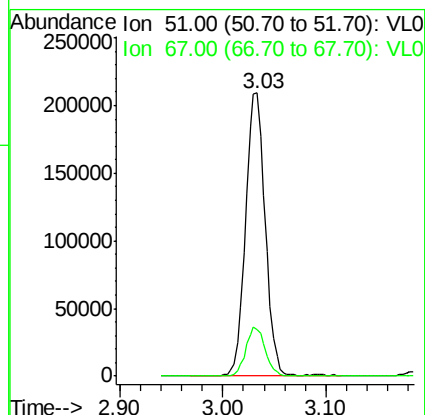
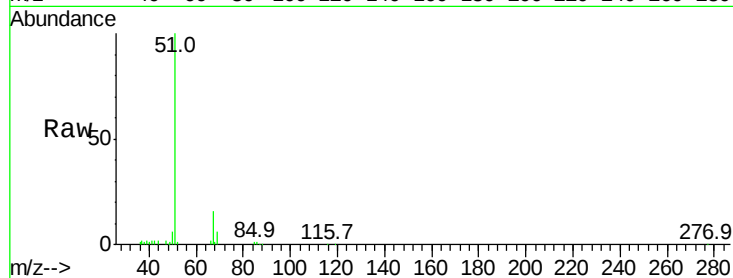
VSTDIC002

Tgt Ion: 51 Resp: 277845

Ion Ratio Lower Upper

51 100

67 17.0 13.8 20.8



#4

Chloromethane

Concen: 1.760 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032515.D

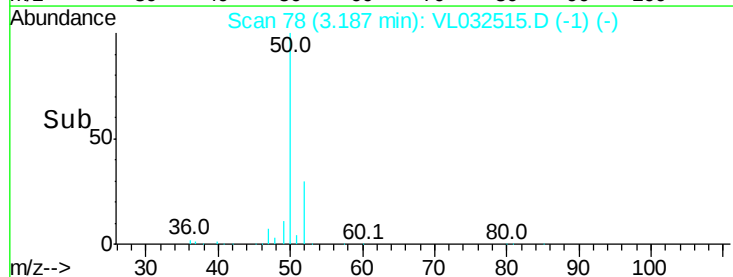
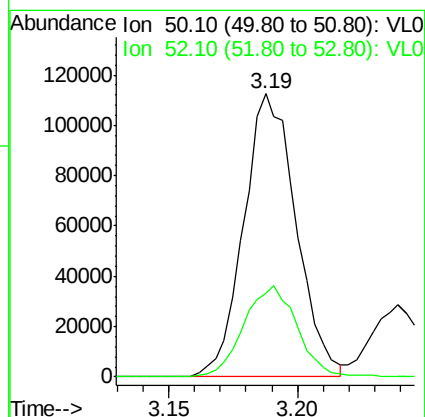
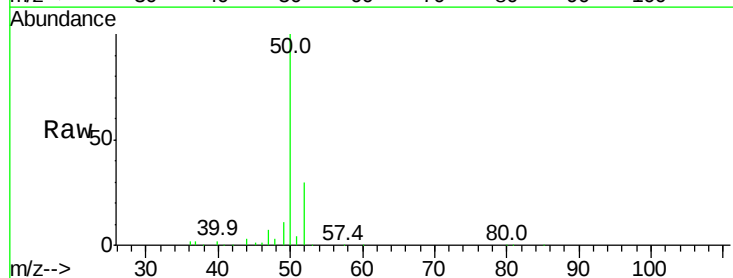
Acq: 24 Sep 2018 17:07

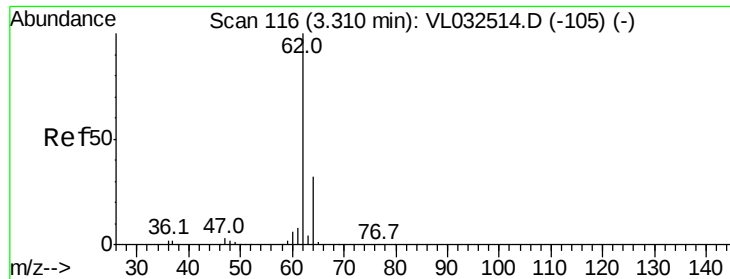
Tgt Ion: 50 Resp: 159104

Ion Ratio Lower Upper

50 100

52 29.5 25.6 38.4





#5

Vinyl Chloride

Concen: 1.666 ppbv

RT: 3.31 min Scan# 116

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

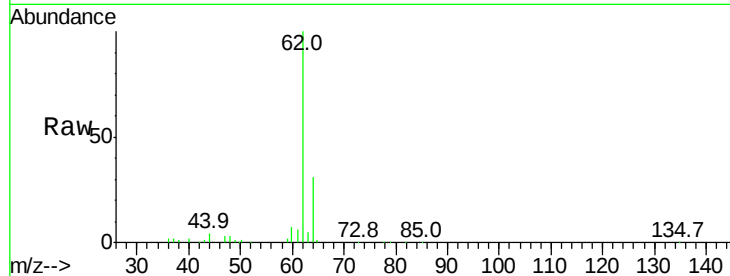
VSTDIC002

Tgt Ion: 62 Resp: 148634

Ion Ratio Lower Upper

62 100

64 31.4 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.31

120000

100000

80000

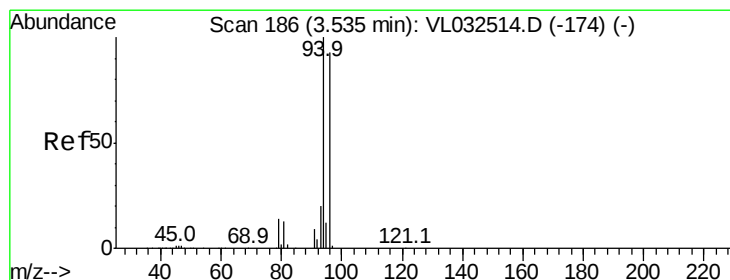
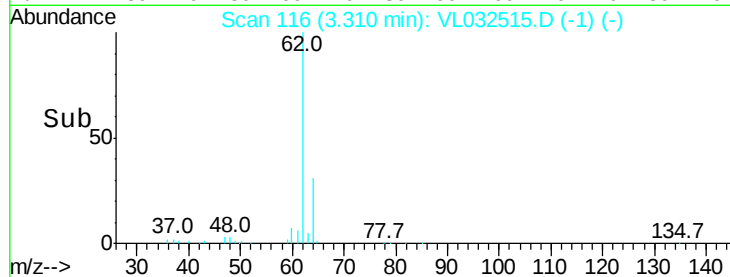
60000

40000

20000

0

Time--> 3.25 3.30 3.35



#6

Bromomethane

Concen: 1.881 ppbv

RT: 3.53 min Scan# 186

Delta R.T. -0.01 min

Lab File: VL032515.D

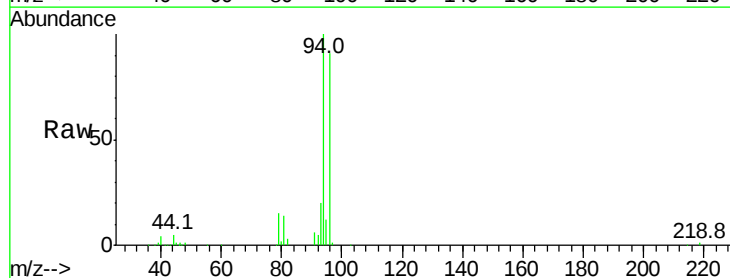
Acq: 24 Sep 2018 17:07

Tgt Ion: 94 Resp: 88119

Ion Ratio Lower Upper

94 100

96 91.2 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.53

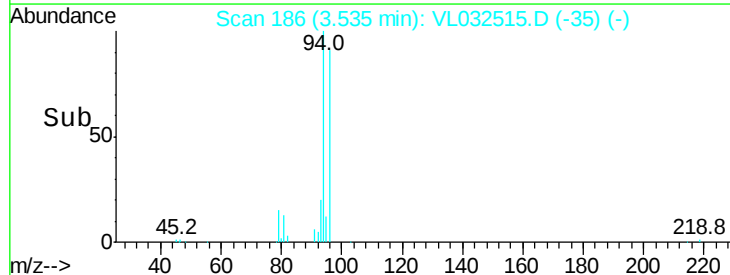
60000

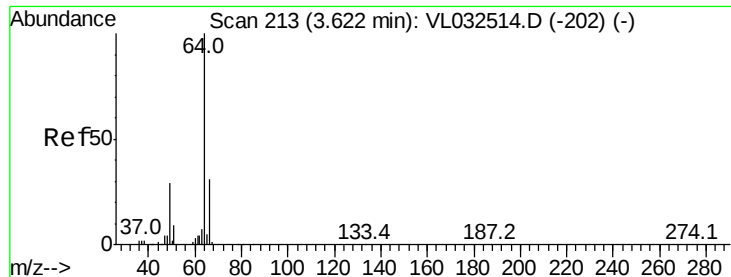
40000

20000

0

Time--> 3.50 3.55 3.60





#7

Chloroethane

Concen: 1.927 ppbv

RT: 3.62 min Scan# 213

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

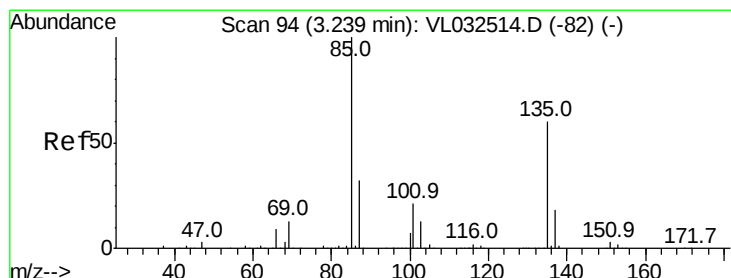
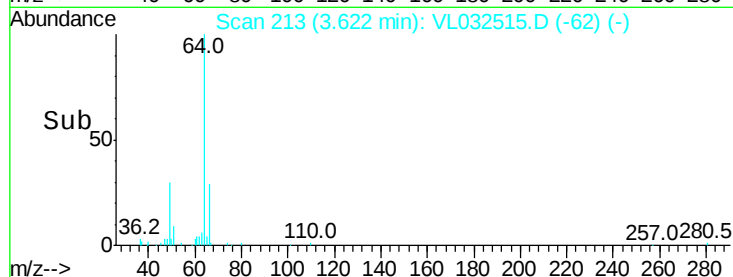
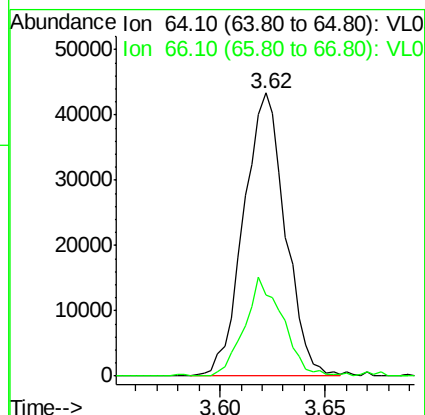
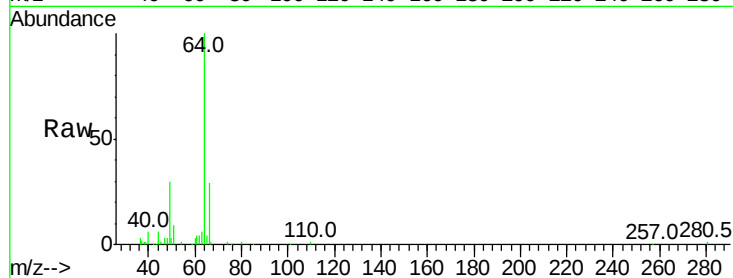
VSTDIC002

Tgt Ion: 64 Resp: 59514

Ion Ratio Lower Upper

64 100

66 28.6 25.8 38.6



#8

Dichlorotetrafluoroethane

Concen: 1.804 ppbv

RT: 3.24 min Scan# 94

Delta R.T. -0.01 min

Lab File: VL032515.D

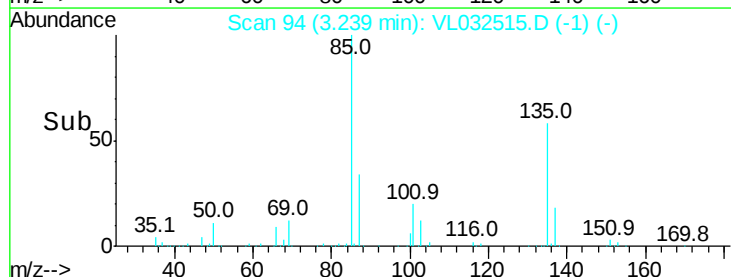
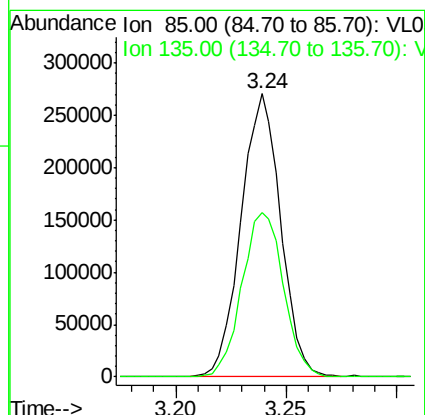
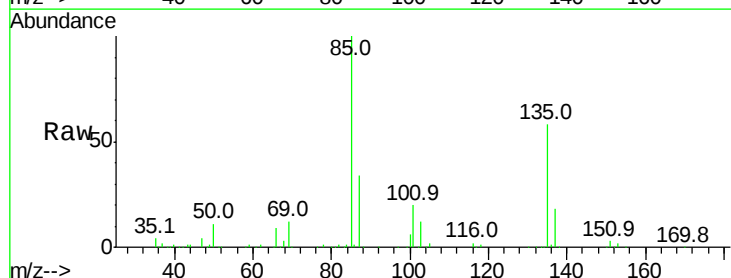
Acq: 24 Sep 2018 17:07

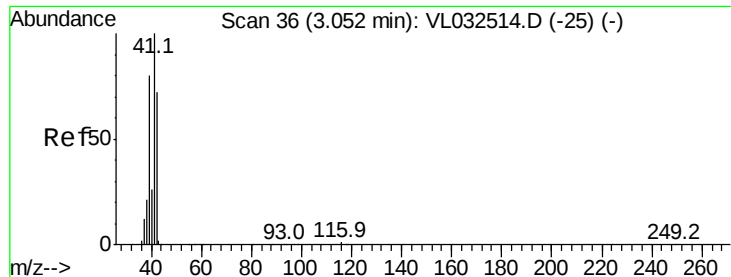
Tgt Ion: 85 Resp: 337787

Ion Ratio Lower Upper

85 100

135 61.1 48.6 72.8





#9

Propene

Concen: 2.021 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

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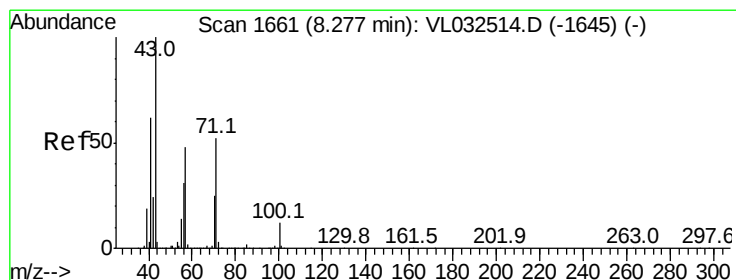
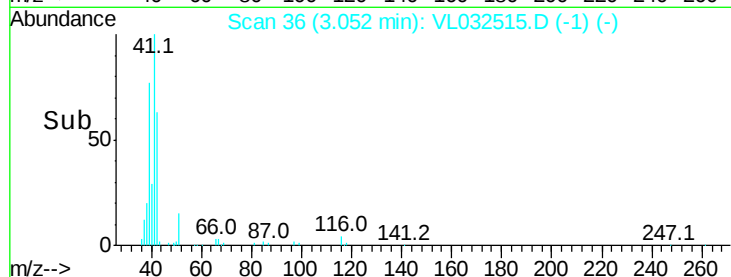
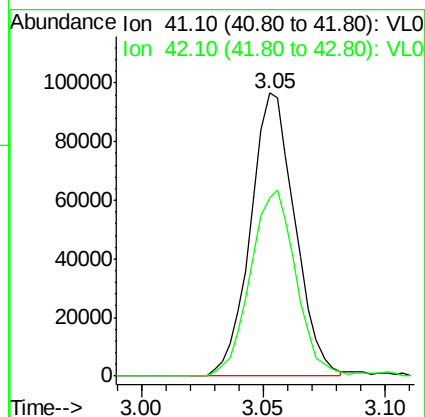
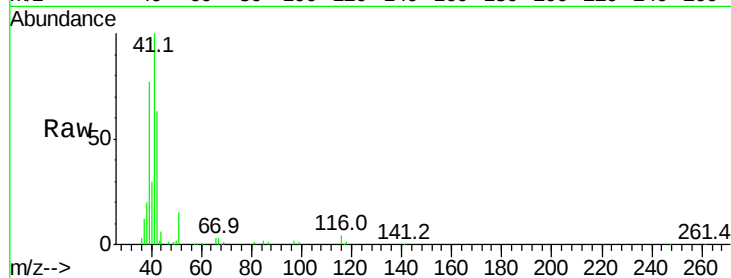
VSTDIC002

Tgt Ion: 41 Resp: 121763

Ion Ratio Lower Upper

41 100

42 68.6 56.6 84.8



#10

Heptane

Concen: 2.118 ppbv

RT: 8.28 min Scan# 1661

Delta R.T. -0.02 min

Lab File: VL032515.D

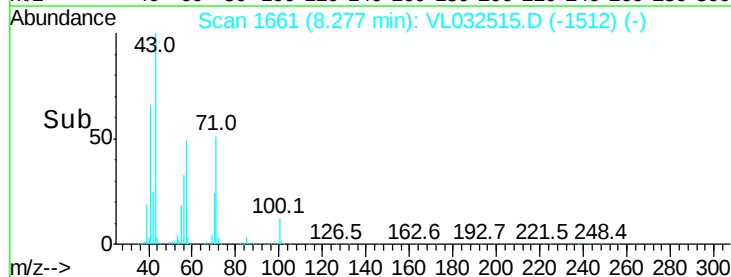
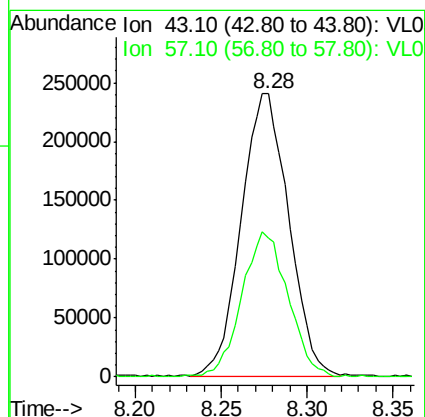
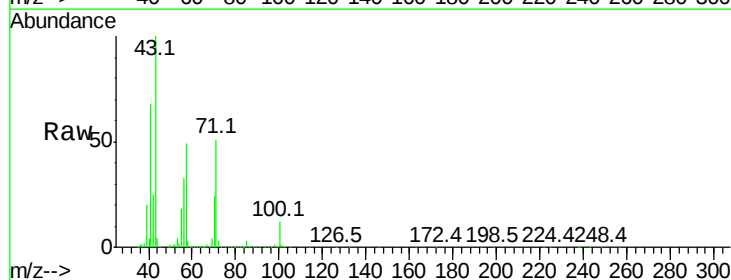
Acq: 24 Sep 2018 17:07

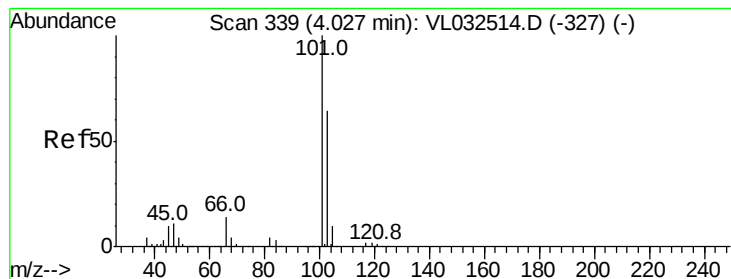
Tgt Ion: 43 Resp: 457632

Ion Ratio Lower Upper

43 100

57 50.9 39.6 59.4





#11

Trichlorofluoromethane

Concen: 1.909 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

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Acq: 24 Sep 2018 17:07

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ClientSampleId :

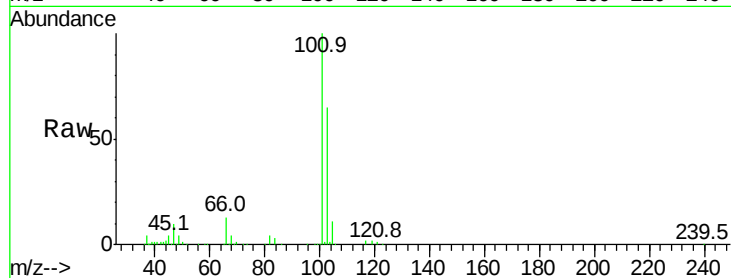
VSTDIC002

Tgt Ion:101 Resp: 363164

Ion Ratio Lower Upper

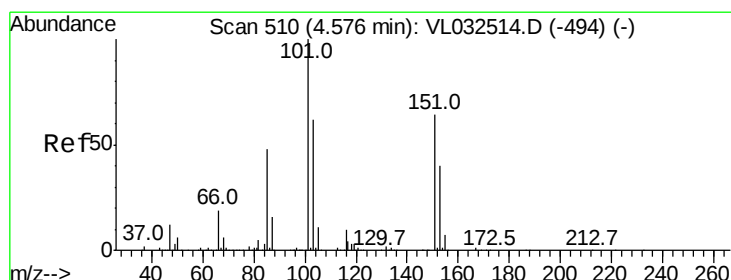
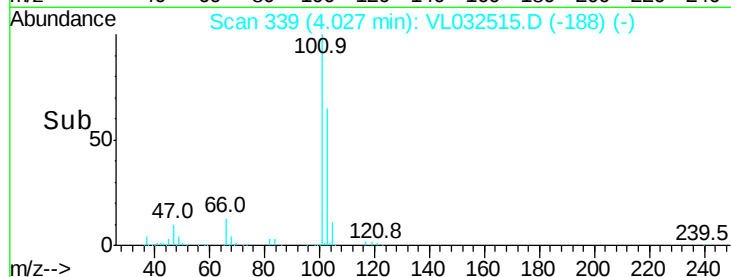
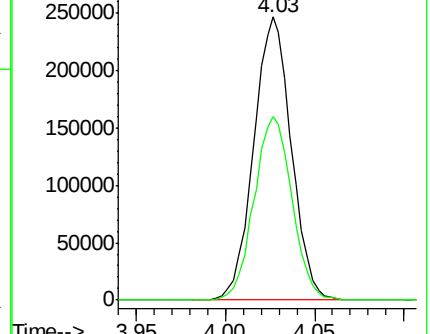
101 100

103 64.8 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.351 ppbv

RT: 4.58 min Scan# 510

Delta R.T. -0.02 min

Lab File: VL032515.D

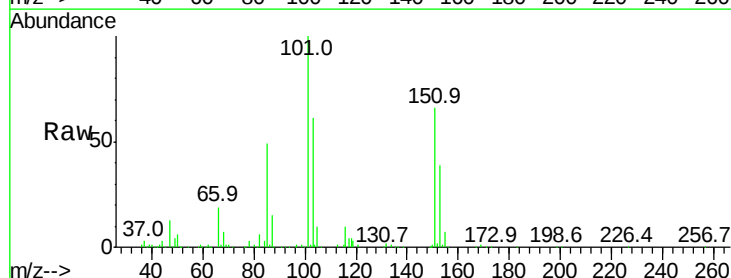
Acq: 24 Sep 2018 17:07

Tgt Ion:101 Resp: 303091

Ion Ratio Lower Upper

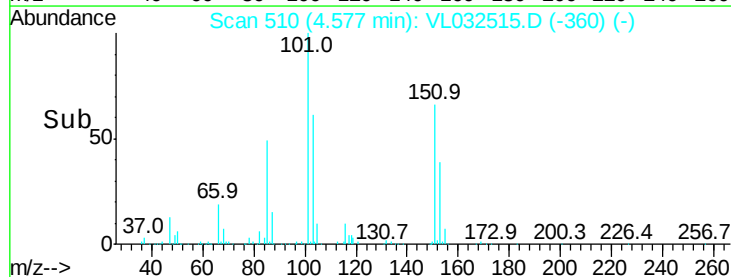
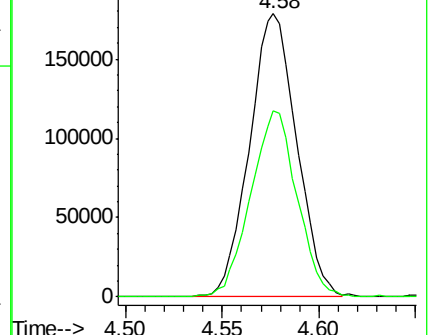
101 100

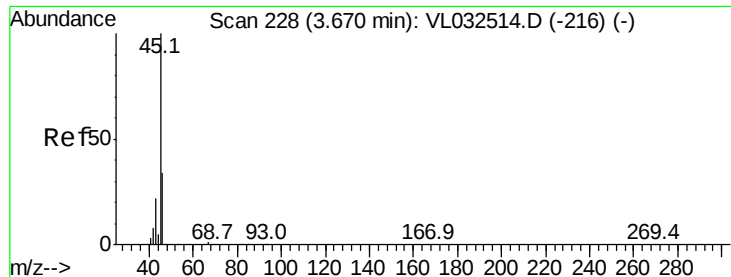
151 64.9 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.858 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

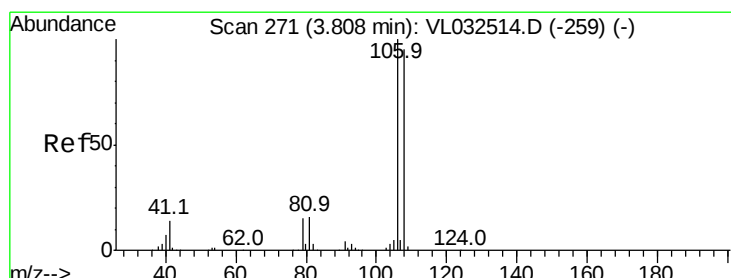
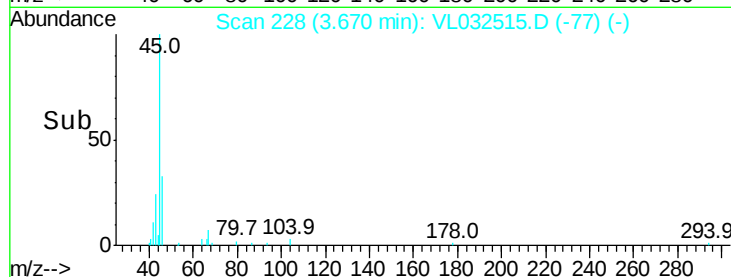
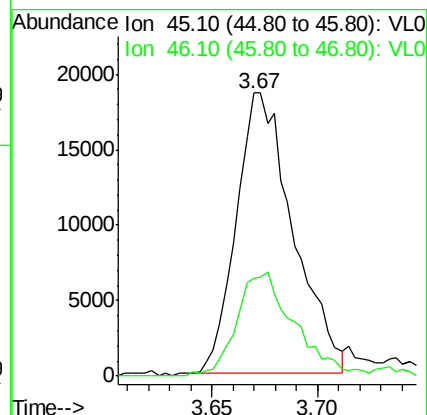
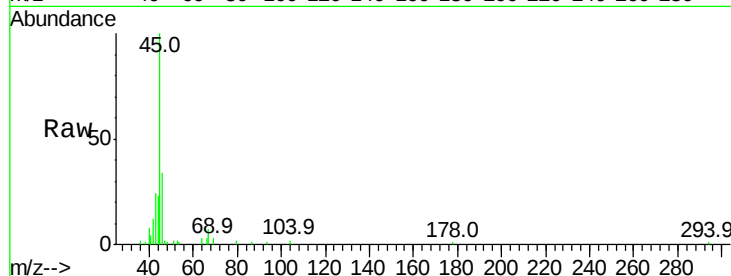
VSTDIC002

Tgt Ion: 45 Resp: 34895

Ion Ratio Lower Upper

45 100

46 37.1 14.2 56.8



#14

Bromoethene

Concen: 1.912 ppbv

RT: 3.81 min Scan# 272

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

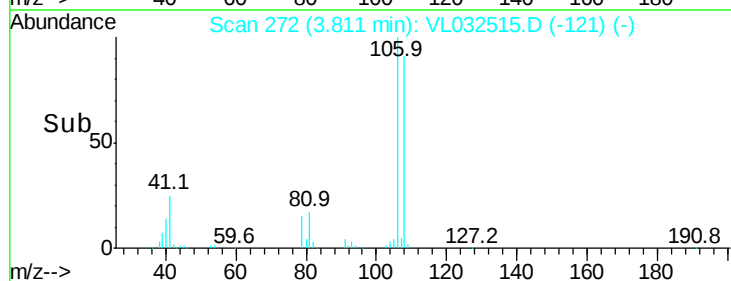
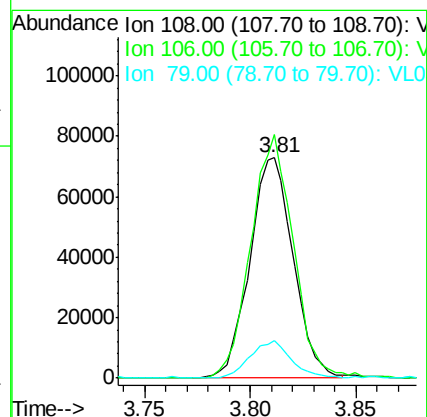
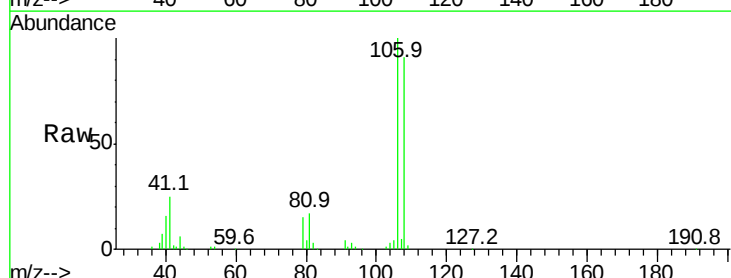
Tgt Ion: 108 Resp: 104430

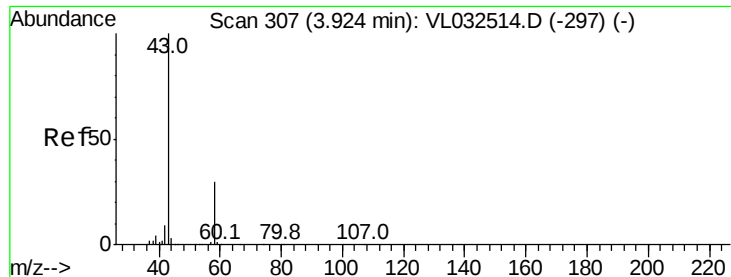
Ion Ratio Lower Upper

108 100

106 108.9 85.5 128.3

79 16.8 13.0 19.6





#15

Acetone

Concen: 1.974 ppbv

RT: 3.93 min Scan# 308

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

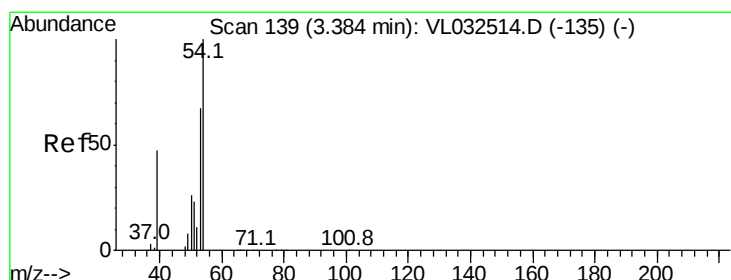
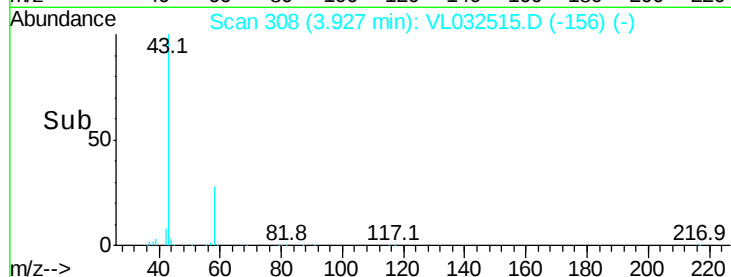
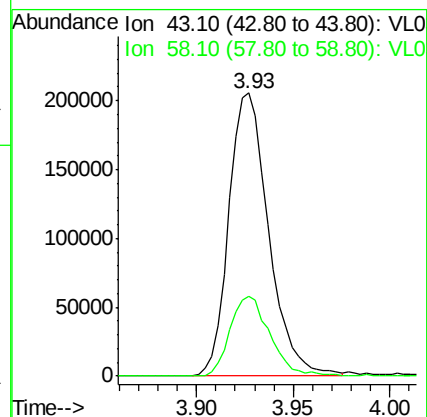
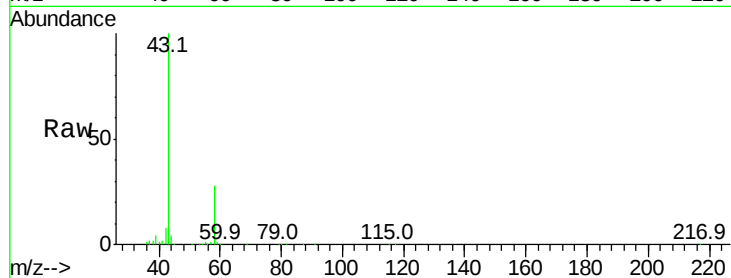
VSTDIC002

Tgt Ion: 43 Resp: 293288

Ion Ratio Lower Upper

43 100

58 28.6 22.6 33.8



#16

1,3-Butadiene

Concen: 1.532 ppbv

RT: 3.38 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL032515.D

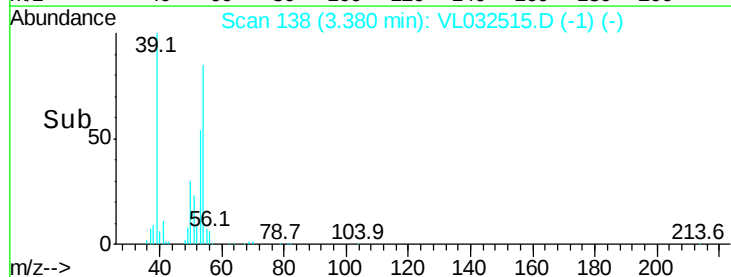
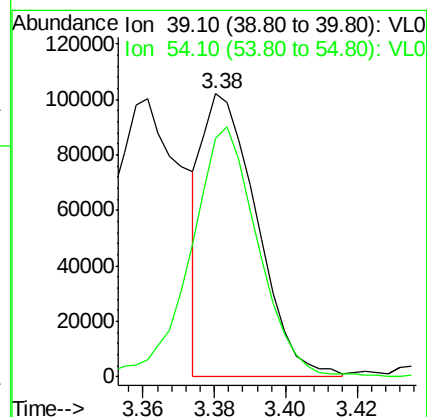
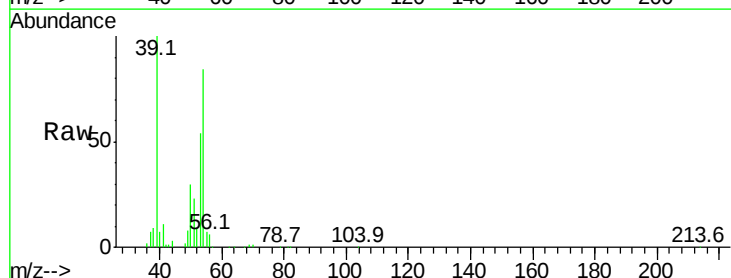
Acq: 24 Sep 2018 17:07

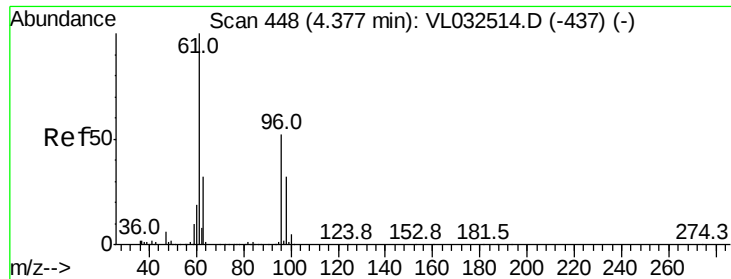
Tgt Ion: 39 Resp: 107055

Ion Ratio Lower Upper

39 100

54 110.6 80.8 121.2





#17

tert-Butyl alcohol

Concen: 0.314 ppbv

RT: 4.39 min Scan# 452

Delta R.T. -0.01 min

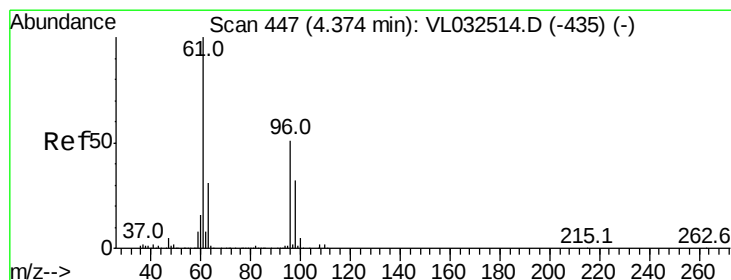
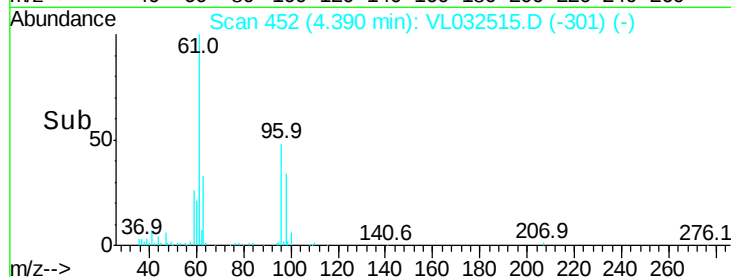
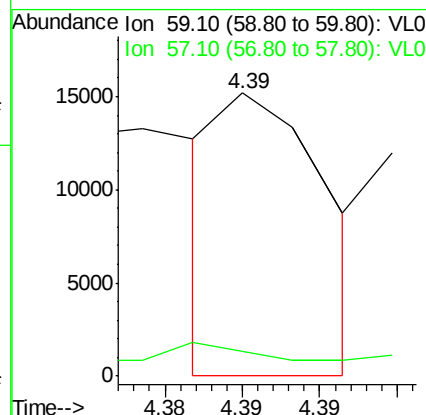
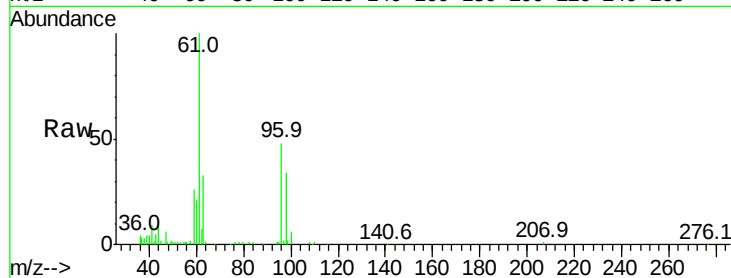
Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 59 Resp: 7179

Ion	Ratio	Lower	Upper
59	100		
57	40.0	0.0	0.0#



#18

1,1-Dichloroethene

Concen: 2.353 ppbv

RT: 4.37 min Scan# 447

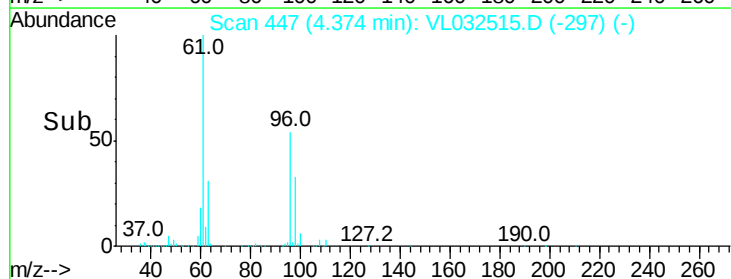
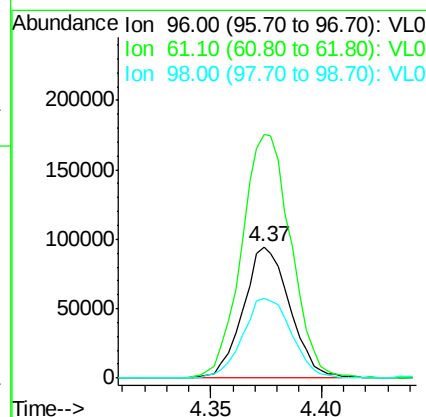
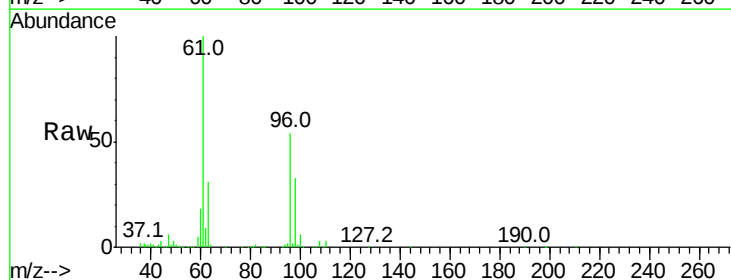
Delta R.T. -0.02 min

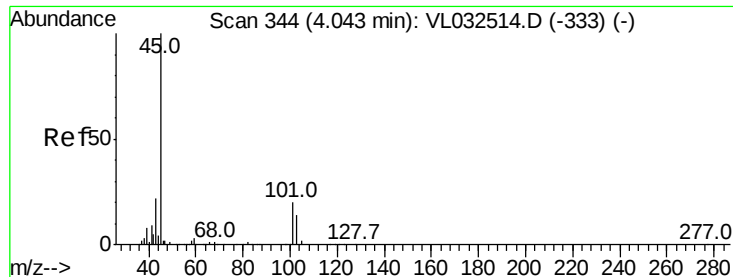
Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Tgt Ion: 96 Resp: 138631

Ion	Ratio	Lower	Upper
96	100		
61	183.8	159.2	238.8
98	60.2	51.0	76.4





#19

Isopropyl Alcohol

Concen: 2.054 ppbv

RT: 4.05 min Scan# 346

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

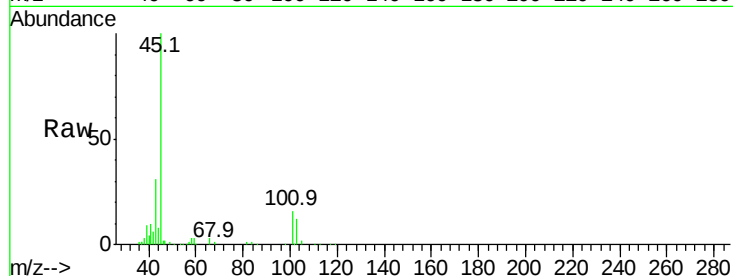
VSTDIC002

Tgt Ion: 45 Resp: 200205

Ion Ratio Lower Upper

45 100

58 3.1 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.05

120000

100000

80000

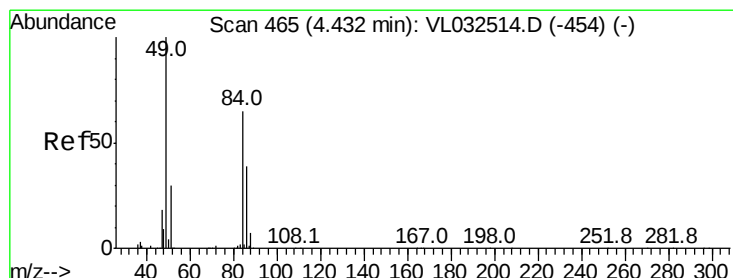
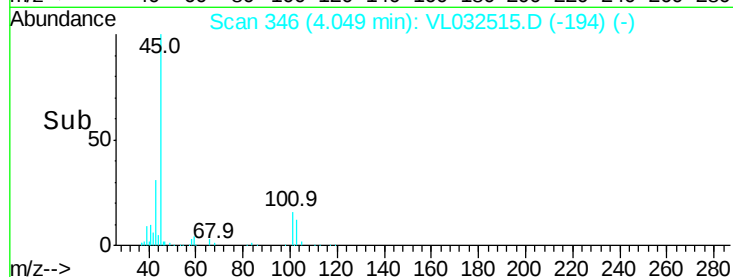
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 2.460 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Tgt Ion: 84 Resp: 139322

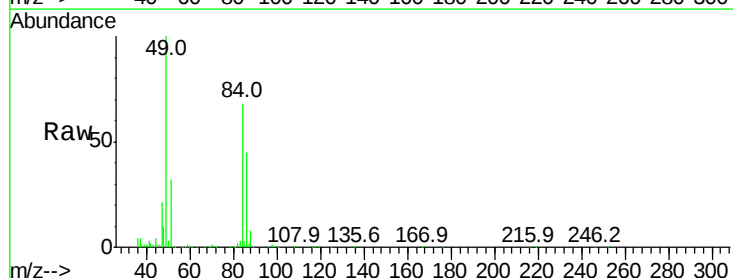
Ion Ratio Lower Upper

84 100

49 146.4 119.1 178.7

51 46.3 35.2 52.8

86 67.0 49.4 74.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

200000

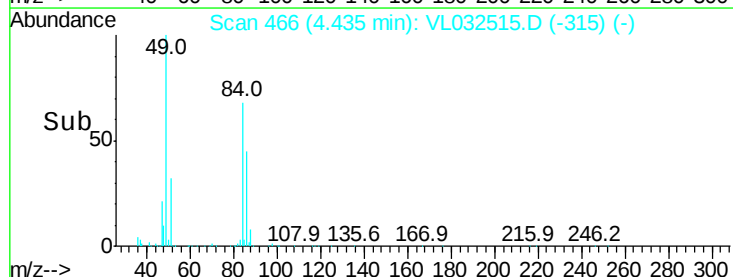
150000

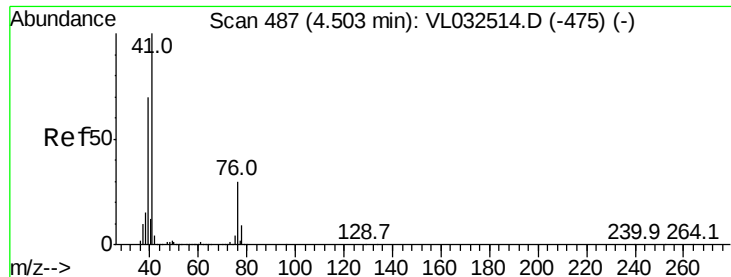
100000

50000

0

Time-->





#21

Allyl Chloride

Concen: 2.443 ppbv

RT: 4.50 min Scan# 487

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

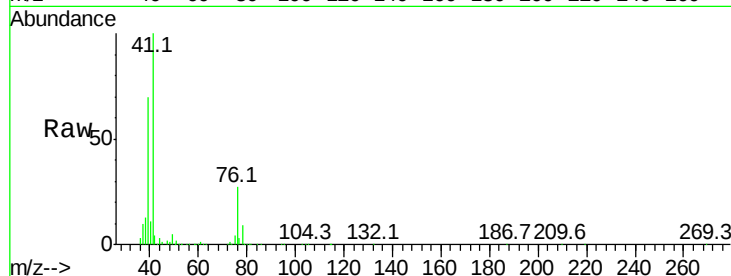
Tgt Ion: 41 Resp: 241044

Ion Ratio Lower Upper

41 100

76 27.3 23.6 35.4

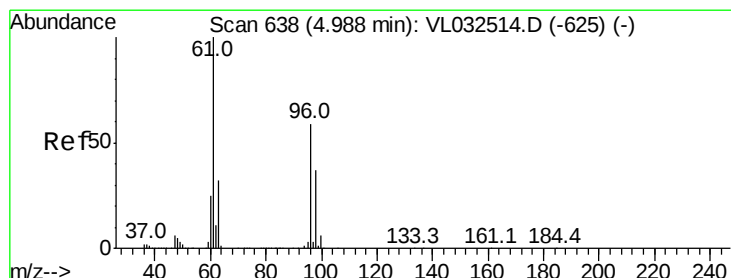
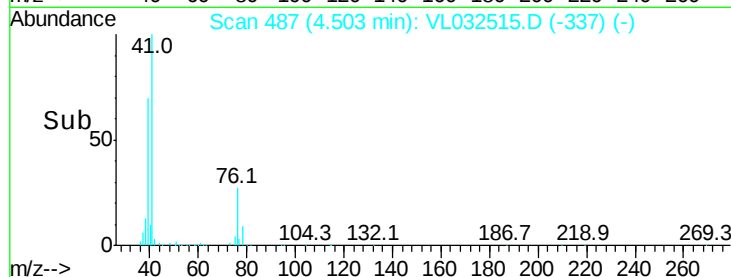
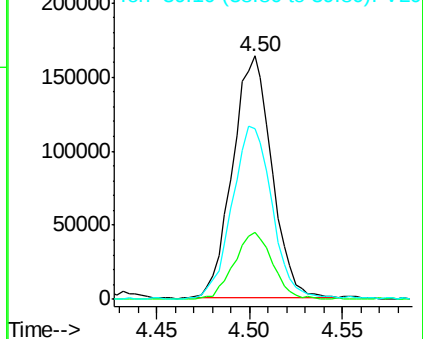
39 73.9 57.7 86.5



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: 2.105 ppbv

RT: 4.98 min Scan# 637

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

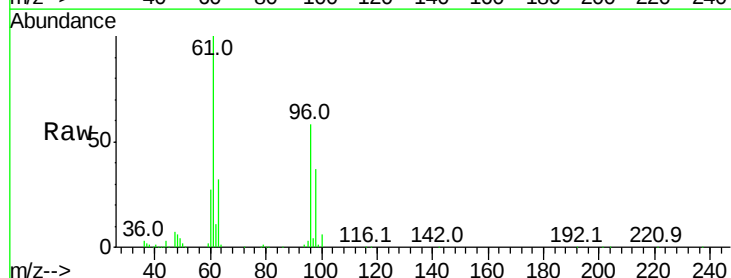
Tgt Ion: 96 Resp: 134614

Ion Ratio Lower Upper

96 100

61 172.0 136.2 204.4

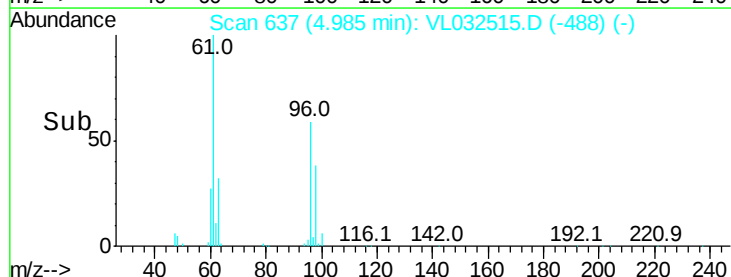
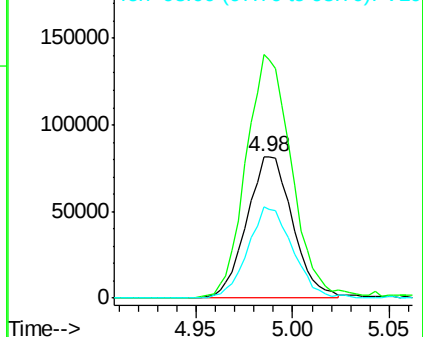
98 64.2 50.4 75.6

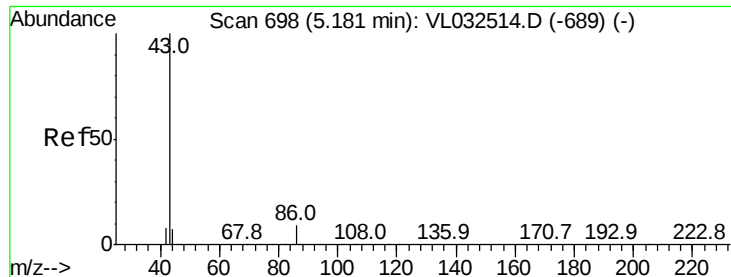


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 2.162 ppbv

RT: 5.18 min Scan# 697

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 532326

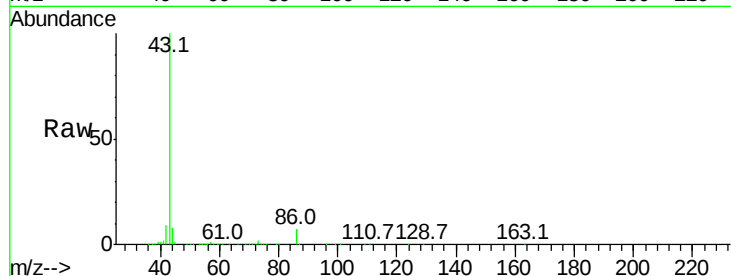
Ion Ratio Lower Upper

43 100

86 6.8 5.9 8.9

42 8.7 6.9 10.3

44 6.7 4.6 7.0

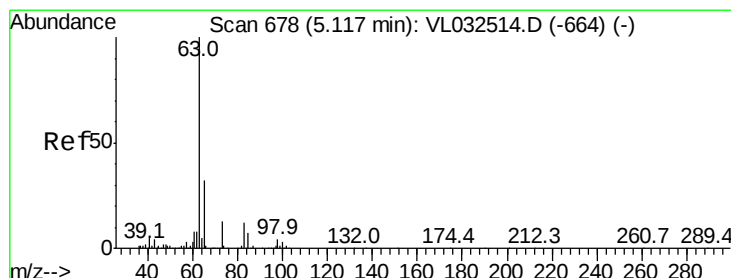
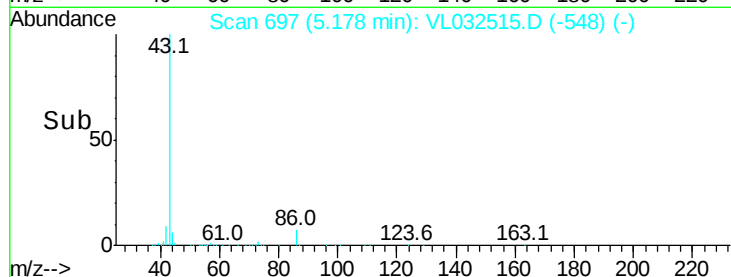
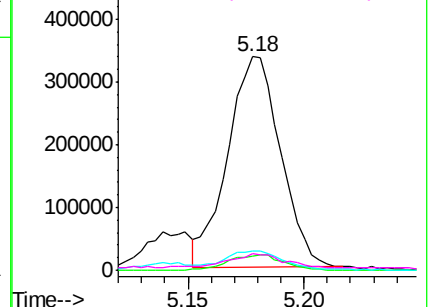


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.170 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

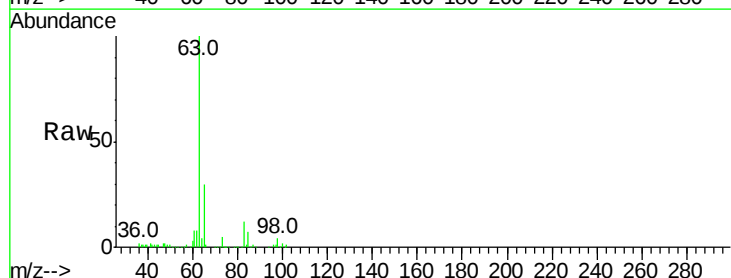
Tgt Ion: 63 Resp: 440198

Ion Ratio Lower Upper

63 100

98 4.6 2.1 6.5

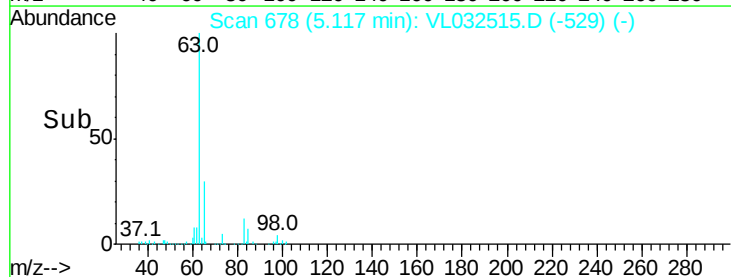
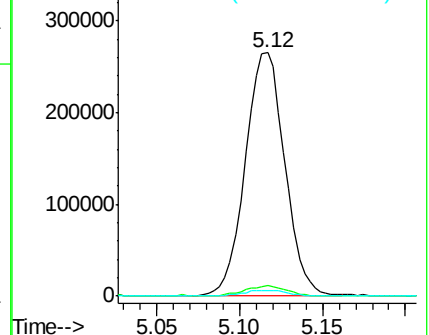
100 2.3 1.5 4.4

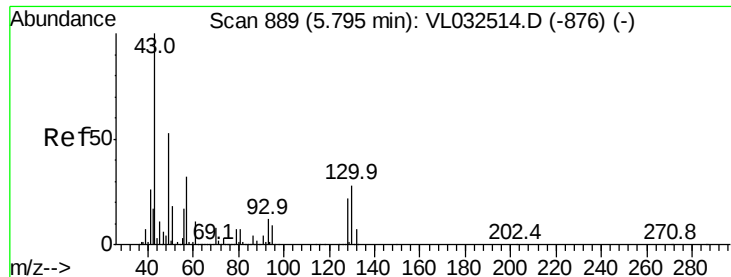


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

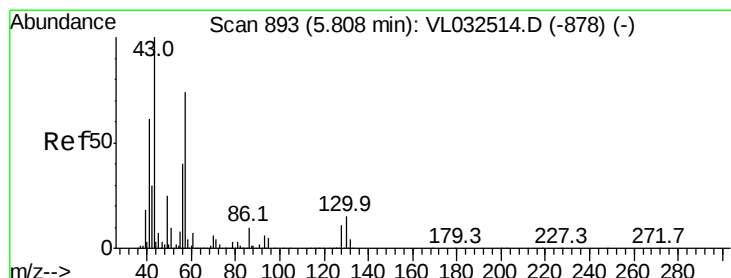
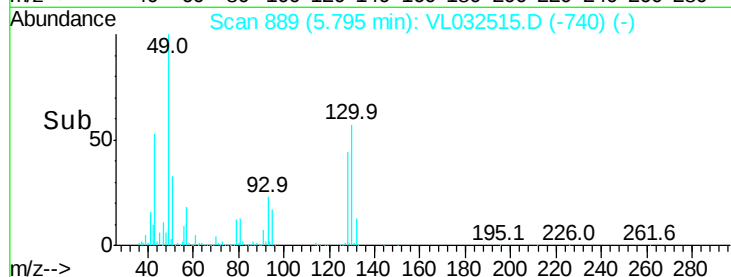
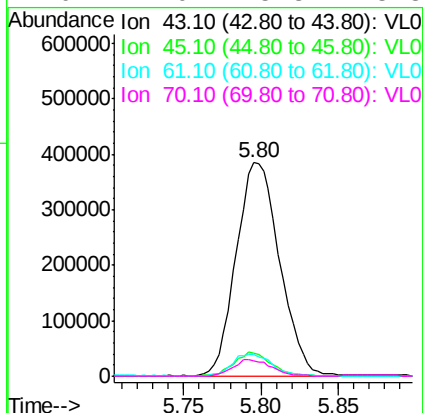
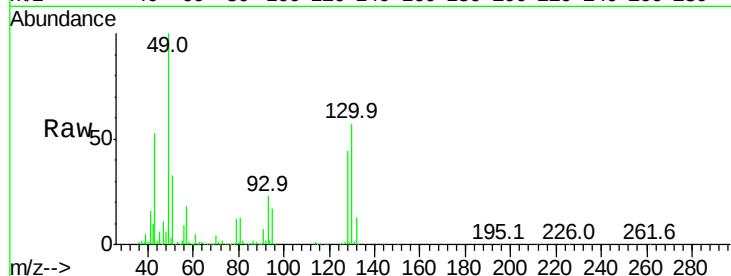




#25
Ethyl Acetate
Concen: 2.146 ppbv
RT: 5.80 min Scan# 889
Delta R.T. -0.02 min
Lab File: VL032515.D
Acq: 24 Sep 2018 17:07

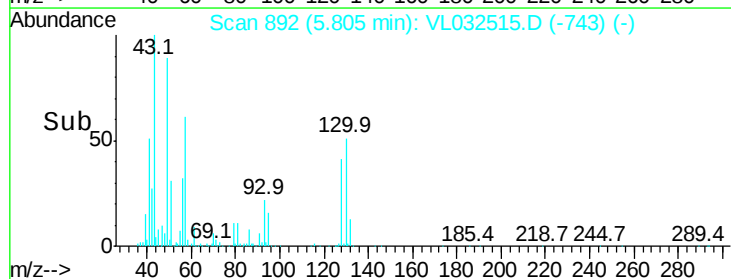
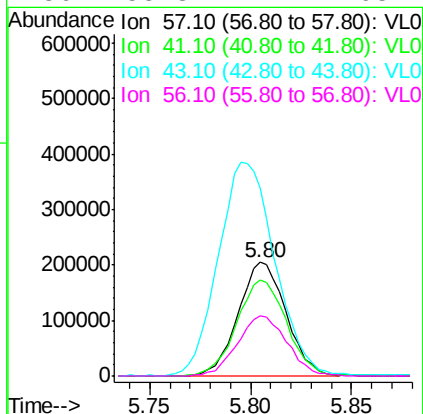
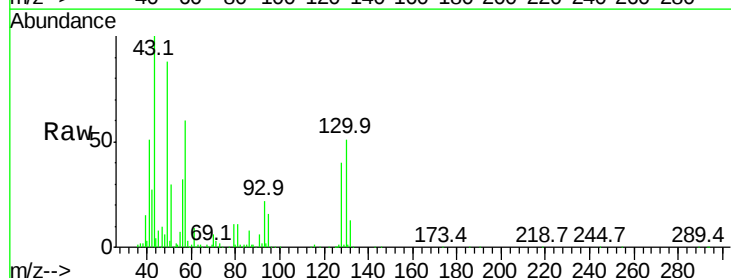
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

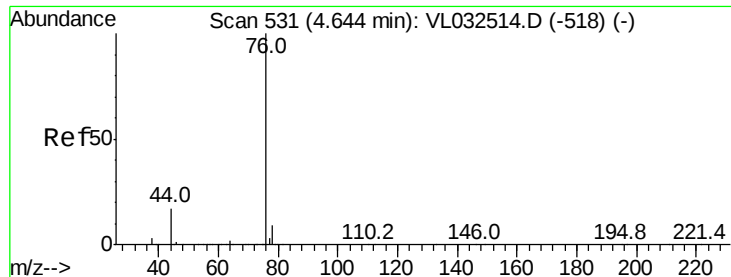
Tgt Ion:	43	Resp:	752991
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.7	7.6	11.4
70	7.0	5.8	8.8



#26
Hexane
Concen: 2.156 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032515.D
Acq: 24 Sep 2018 17:07

Tgt Ion:	57	Resp:	338595
Ion	Ratio	Lower	Upper
57	100		
41	90.0	69.0	103.4
43	223.6	172.1	258.1
56	55.3	42.2	63.2





#27

Carbon Disulfide

Concen: 2.351 ppbv

RT: 4.65 min Scan# 532

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

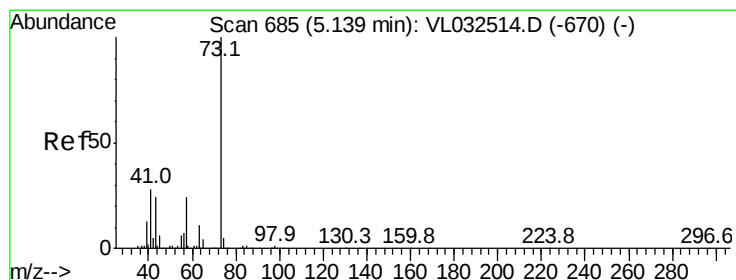
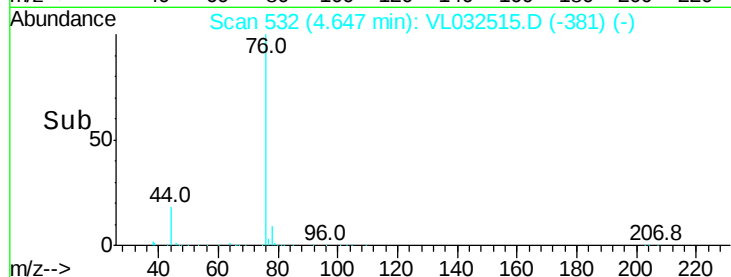
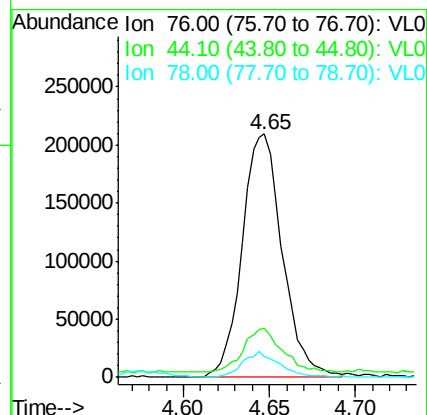
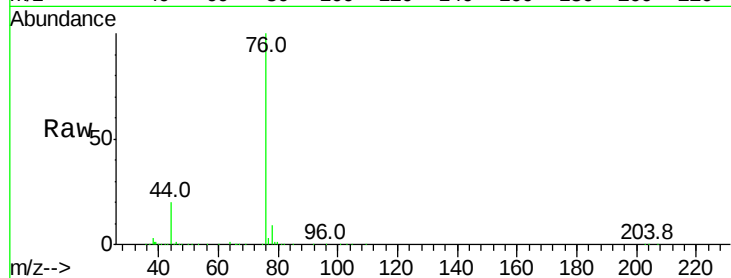
Tgt Ion: 76 Resp: 340909

Ion Ratio Lower Upper

76 100

44 21.0 14.0 21.0#

78 9.9 7.5 11.3



#28

Methyl tert-Butyl Ether

Concen: 2.186 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL032515.D

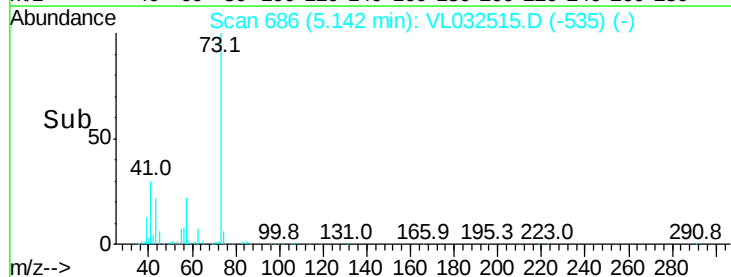
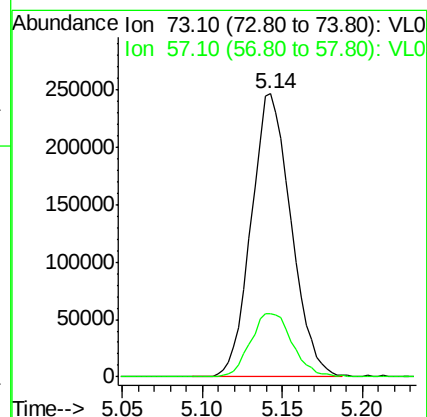
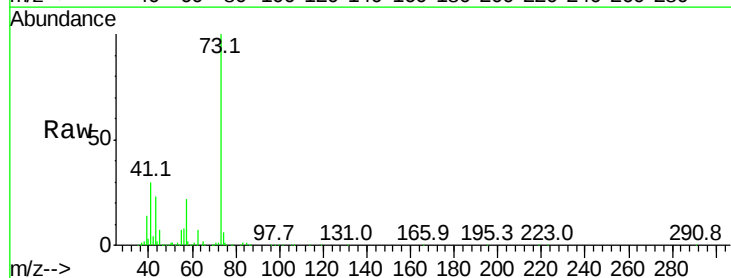
Acq: 24 Sep 2018 17:07

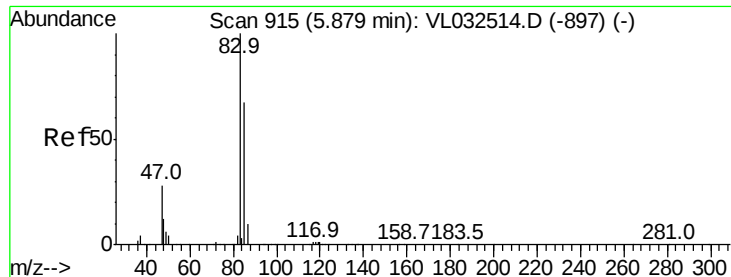
Tgt Ion: 73 Resp: 421496

Ion Ratio Lower Upper

73 100

57 23.8 19.3 28.9





#29

Chloroform

Concen: 2.059 ppbv

RT: 5.87 min Scan# 913

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

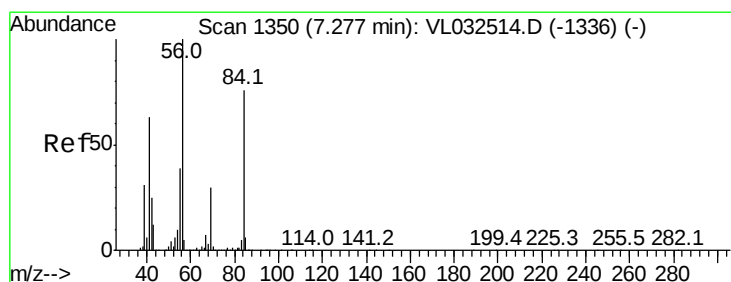
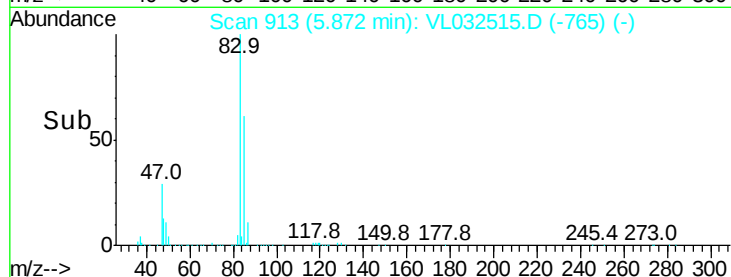
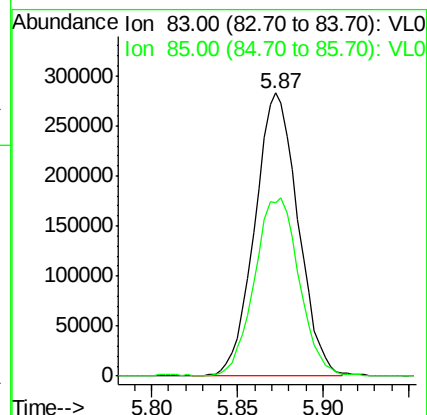
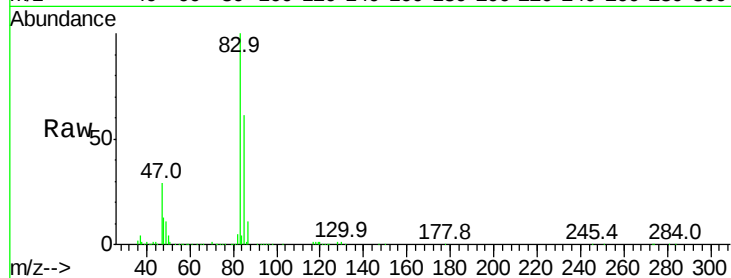
VSTDIC002

Tgt Ion: 83 Resp: 493118

Ion Ratio Lower Upper

83 100

85 61.2 52.5 78.7



#30

Cyclohexane

Concen: 2.340 ppbv

RT: 7.27 min Scan# 1349

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

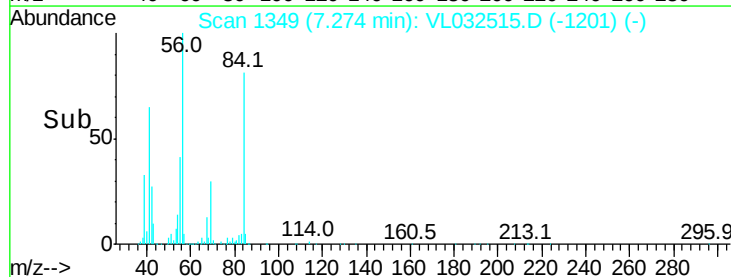
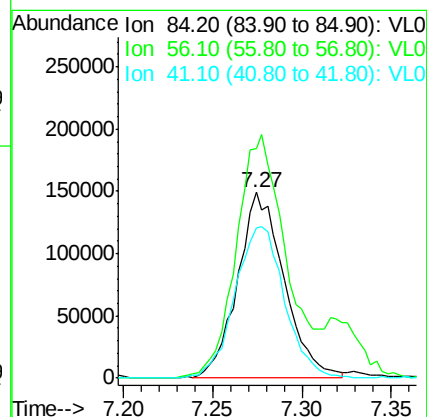
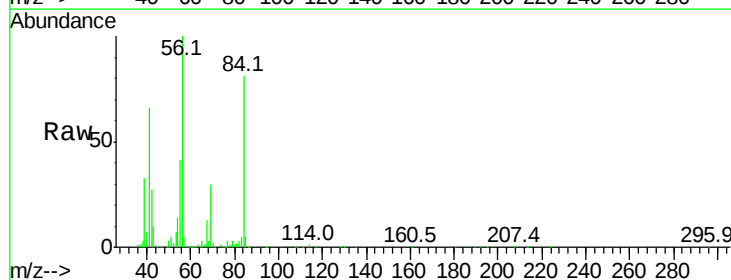
Tgt Ion: 84 Resp: 269102

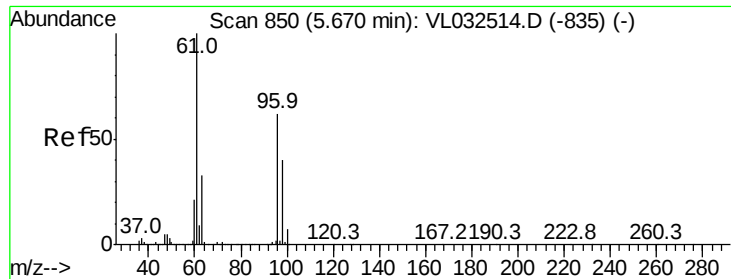
Ion Ratio Lower Upper

84 100

56 166.3 113.5 170.3

41 87.5 68.1 102.1





#31

cis-1,2-Dichloroethene

Concen: 2.244 ppbv

RT: 5.66 min Scan# 848

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

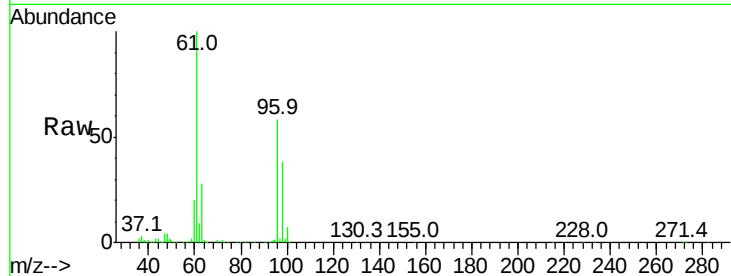
Tgt Ion: 61 Resp: 319212

Ion Ratio Lower Upper

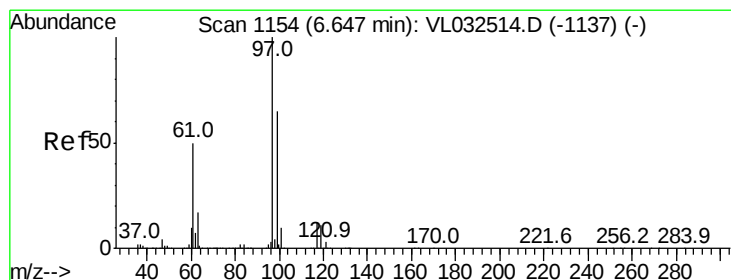
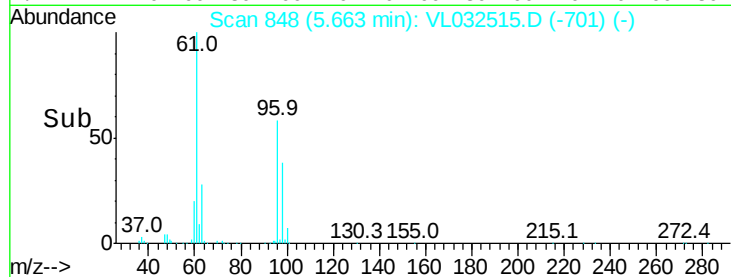
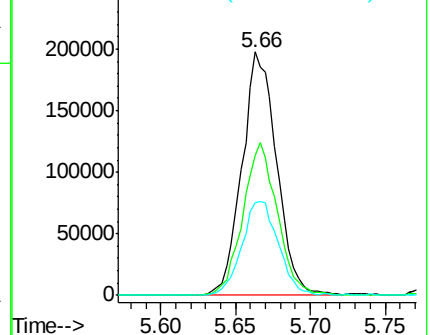
61 100

96 57.7 49.2 73.8

98 38.2 30.7 46.1



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 2.275 ppbv

RT: 6.64 min Scan# 1153

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

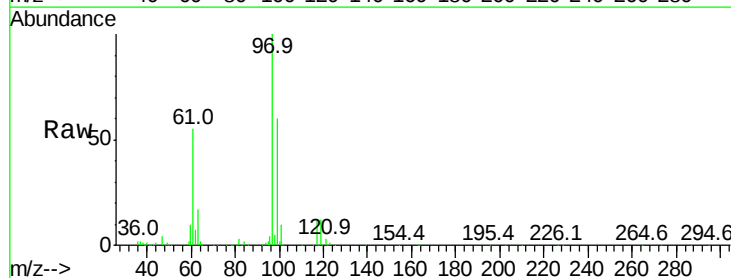
Tgt Ion: 97 Resp: 507779

Ion Ratio Lower Upper

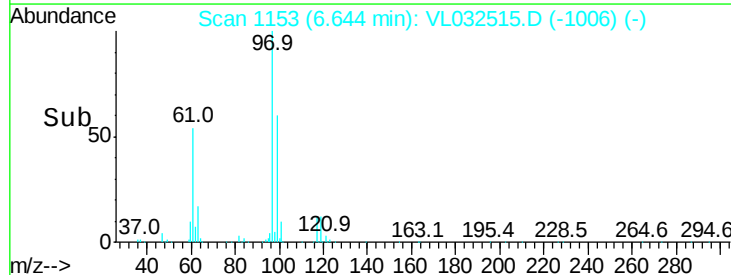
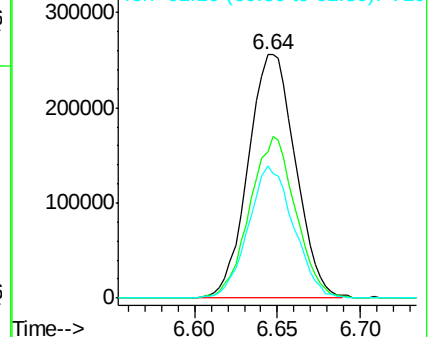
97 100

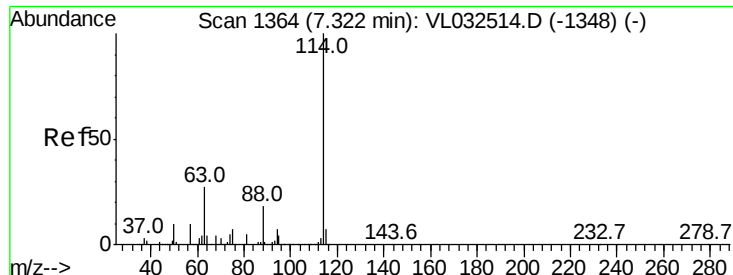
99 64.5 52.1 78.1

61 52.1 42.5 63.7



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

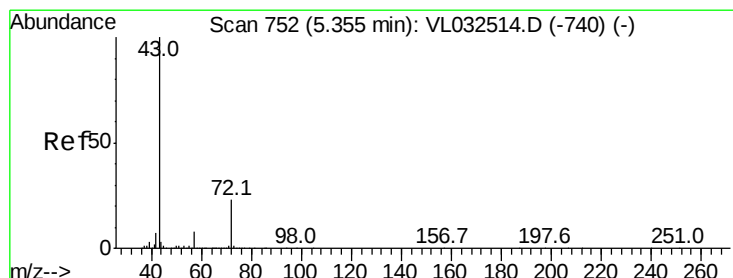
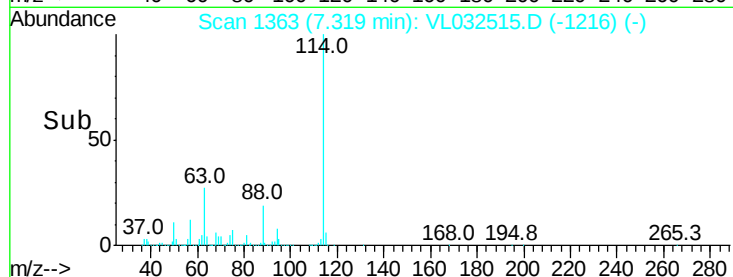
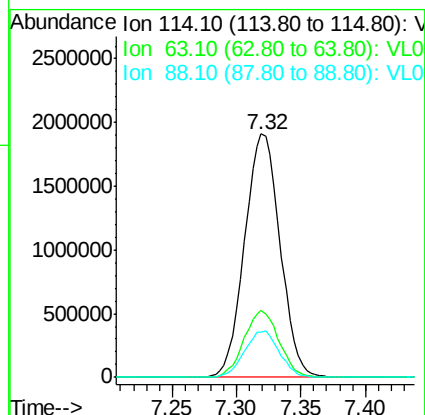
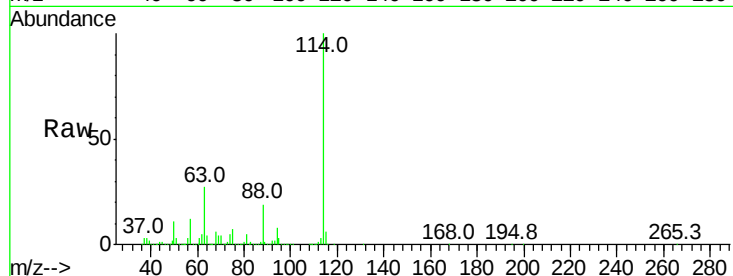




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

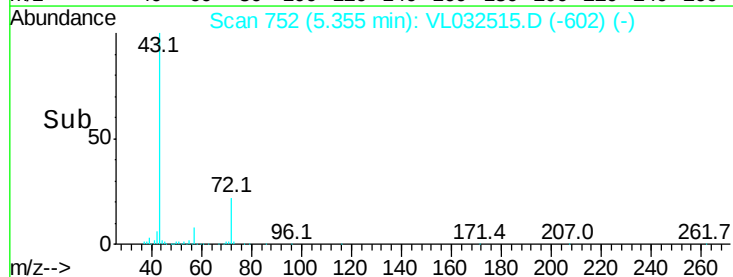
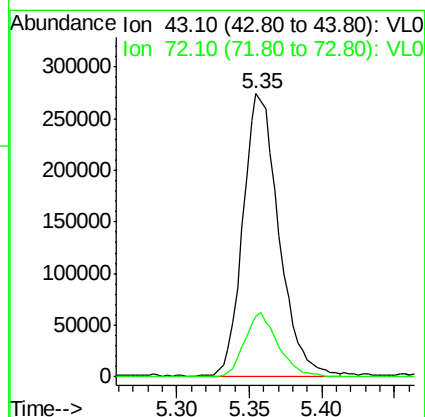
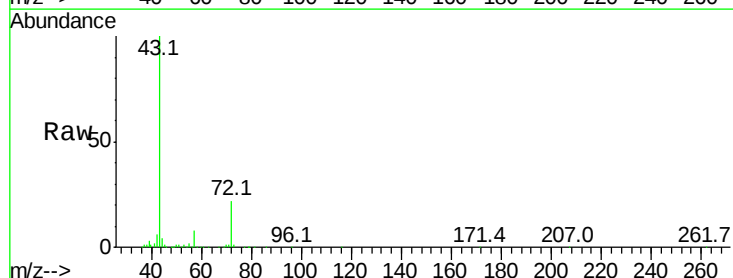
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

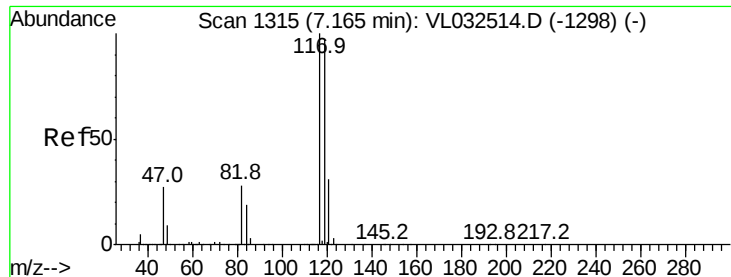
Tgt Ion:114 Resp: 3658464
 Ion Ratio Lower Upper
 114 100
 63 27.3 22.2 33.4
 88 18.9 15.0 22.4



#34
 2-Butanone
 Concen: 1.935 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. -0.02 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

Tgt Ion: 43 Resp: 470207
 Ion Ratio Lower Upper
 43 100
 72 21.4 17.8 26.6





#35

Carbon Tetrachloride

Concen: 1.920 ppbv

RT: 7.16 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

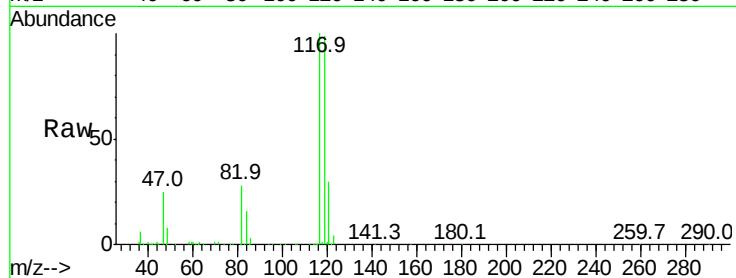
Tgt Ion: 117 Resp: 472081

Ion Ratio Lower Upper

117 100

119 99.2 76.6 115.0

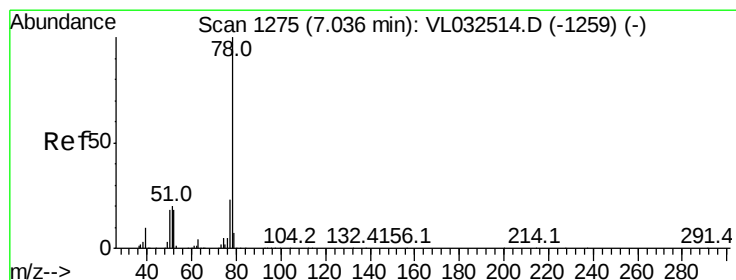
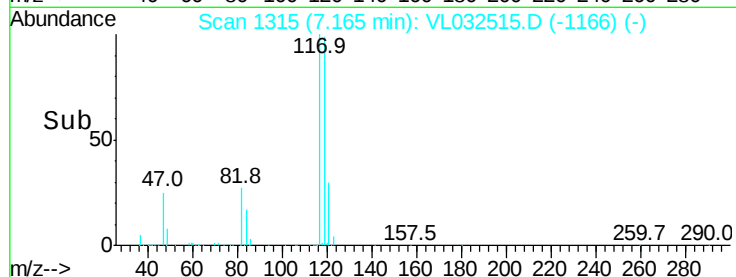
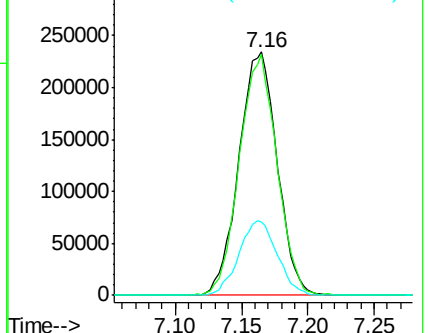
121 30.2 24.6 36.8



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: 2.028 ppbv

RT: 7.03 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

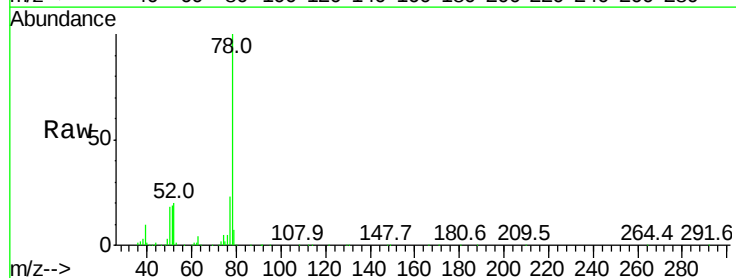
Tgt Ion: 78 Resp: 631273

Ion Ratio Lower Upper

78 100

77 23.3 18.4 27.6

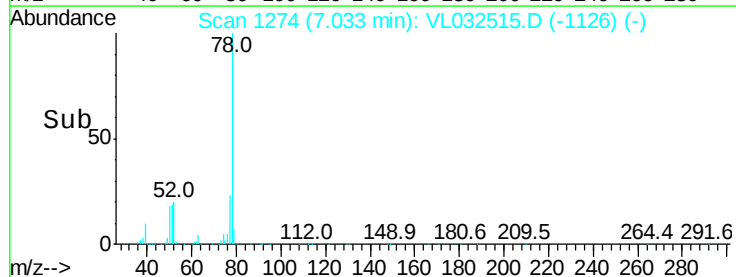
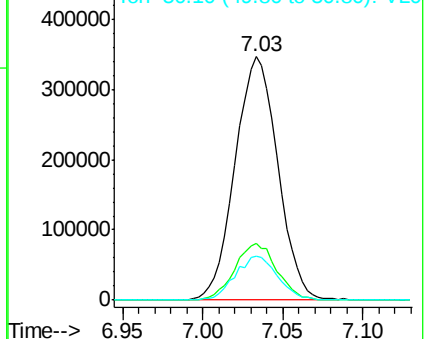
50 18.2 14.4 21.6

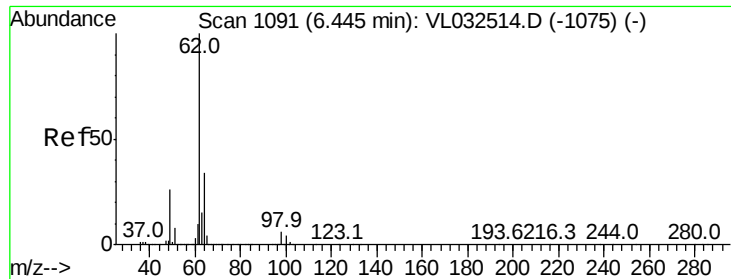


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

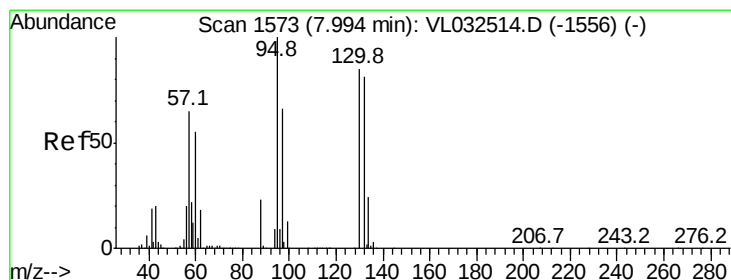
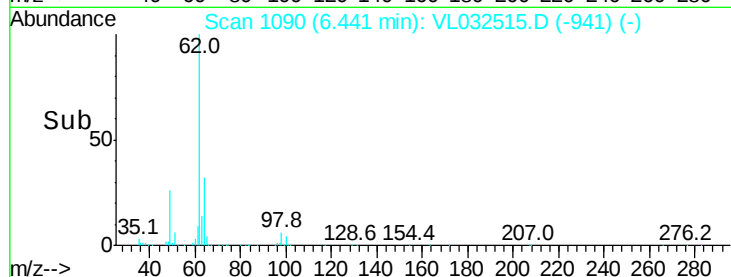
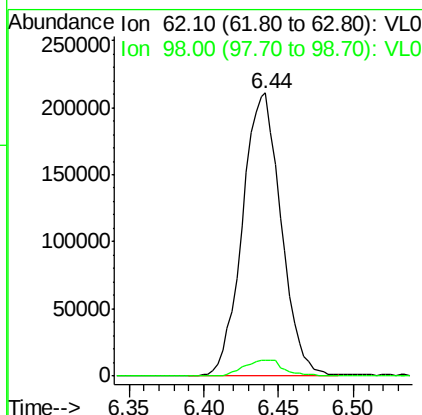
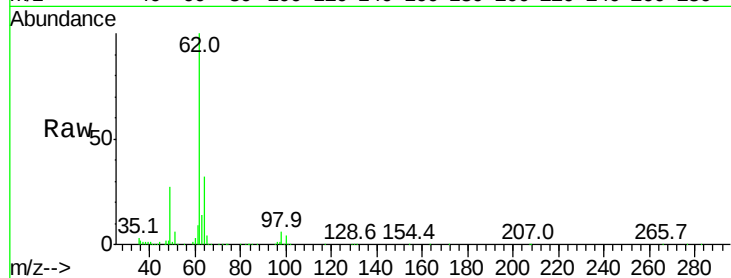




#37
 1,2-Dichloroethane
 Concen: 1.991 ppbv
 RT: 6.44 min Scan# 1090
 Delta R.T. -0.02 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

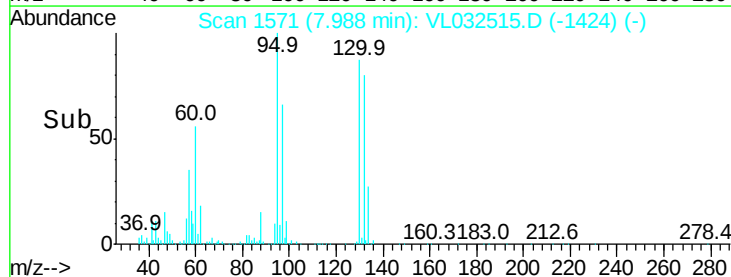
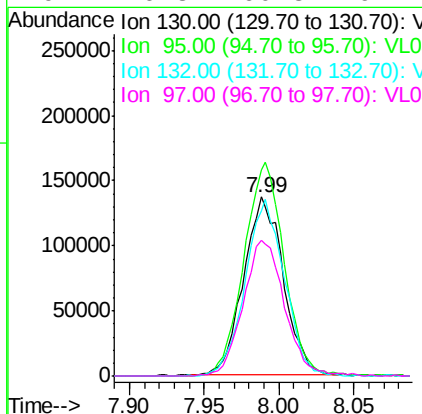
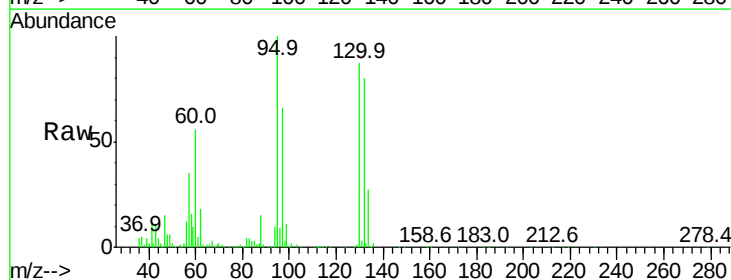
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

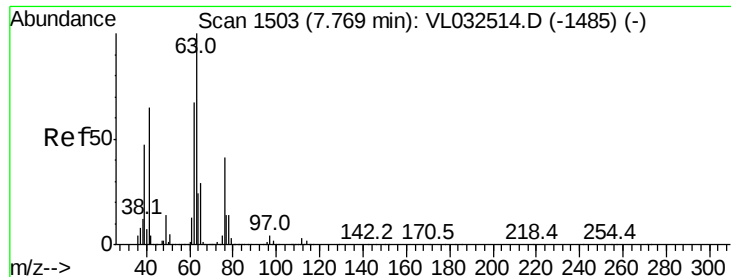
Tgt Ion: 62 Resp: 379837
 Ion Ratio Lower Upper
 62 100
 98 6.0 5.0 7.6



#38
 Trichloroethene
 Concen: 2.144 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.03 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

Tgt Ion: 130 Resp: 253599
 Ion Ratio Lower Upper
 130 100
 95 115.8 94.2 141.4
 132 92.4 76.2 114.4
 97 76.3 60.8 91.2





#39

1,2-Dichloropropane

Concen: 2.167 ppbv

RT: 7.76 min Scan# 1501

Delta R.T. -0.03 min

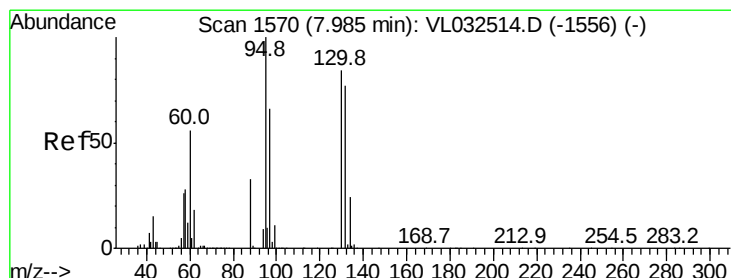
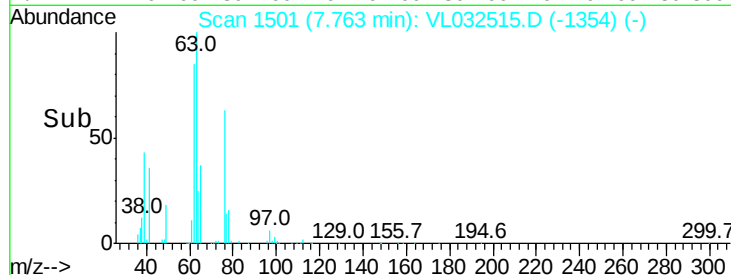
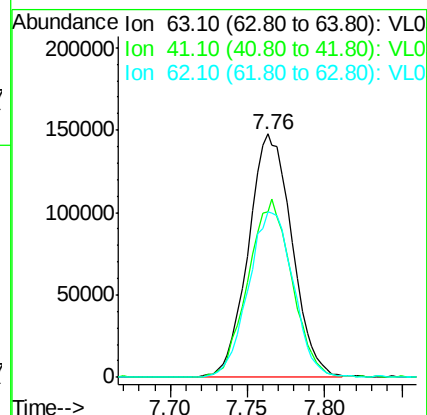
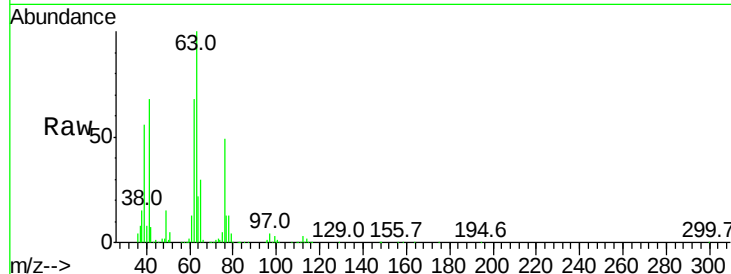
Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 63 Resp: 288622

Ion	Ratio	Lower	Upper
63	100		
41	68.0	55.4	83.0
62	67.6	55.4	83.0



#40

1,4-Dioxane

Concen: 1.615 ppbv

RT: 8.00 min Scan# 1575

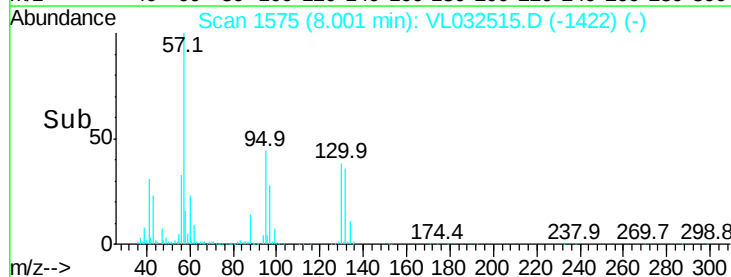
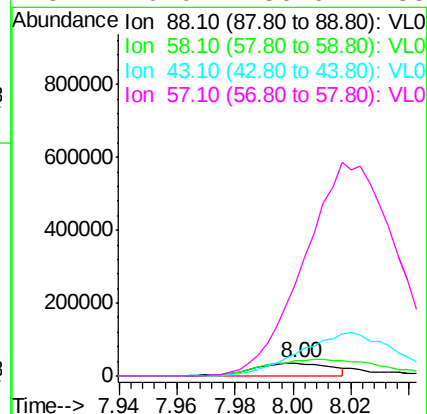
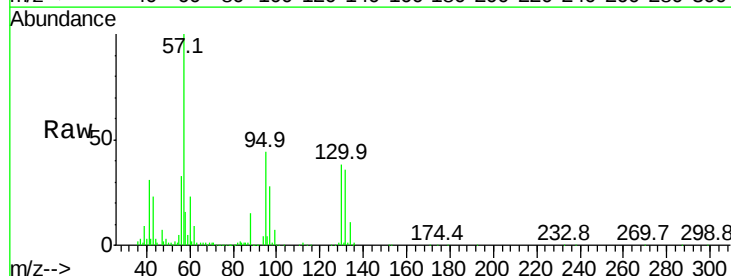
Delta R.T. -0.01 min

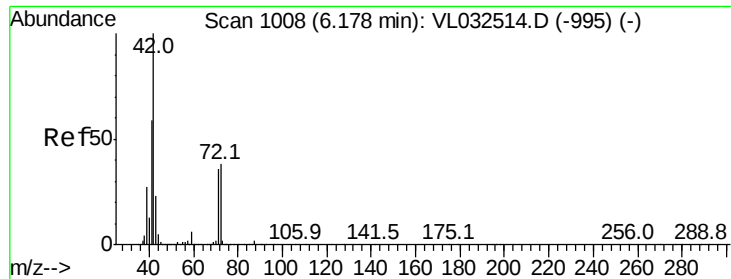
Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Tgt Ion: 88 Resp: 64541

Ion	Ratio	Lower	Upper
88	100		
58	208.5	119.7	179.5#
43	0.0	253.0	379.4#
57	0.0	1156.9	1735.3#





#41

Tetrahydrofuran

Concen: 2.007 ppbv

RT: 6.18 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

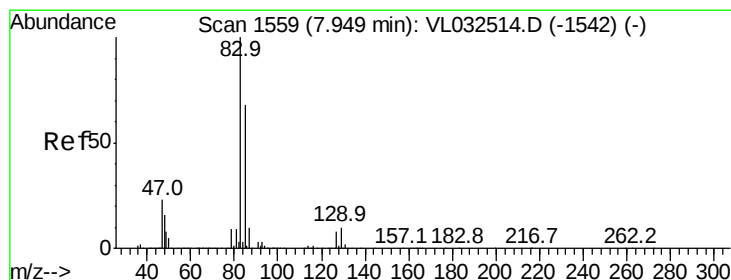
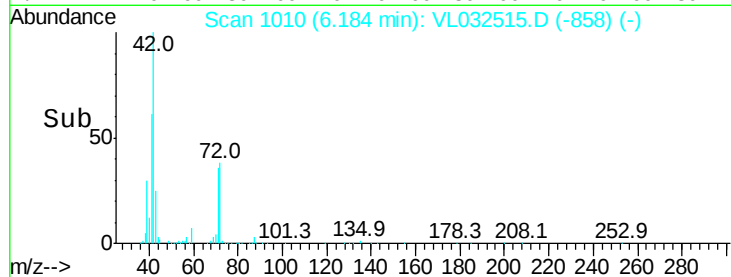
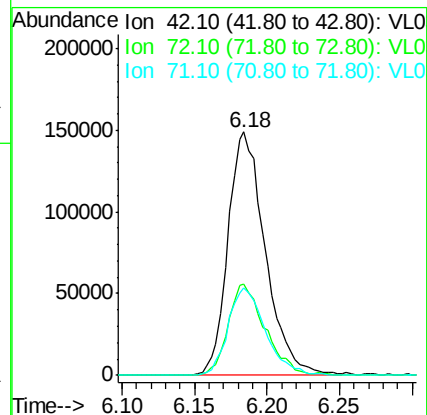
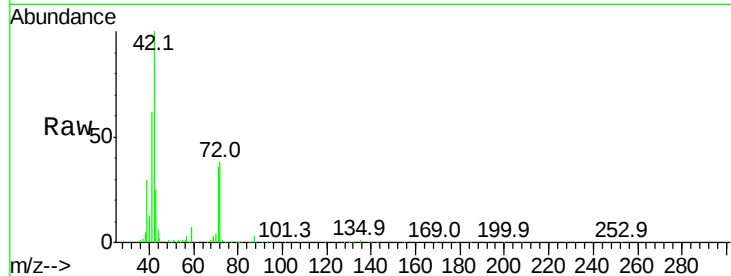
Tgt Ion: 42 Resp: 265573

Ion Ratio Lower Upper

42 100

72 37.6 29.5 44.3

71 36.1 28.3 42.5



#42

Bromodichloromethane

Concen: 2.154 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

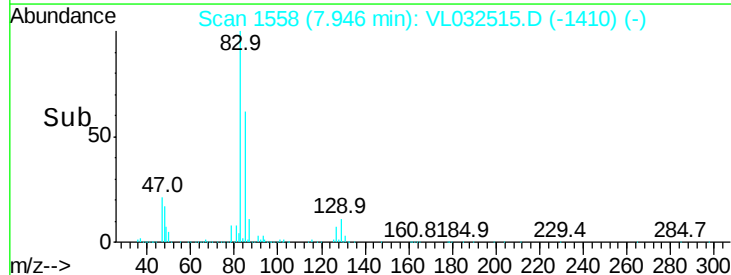
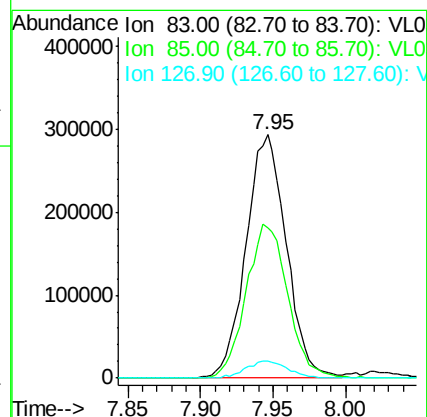
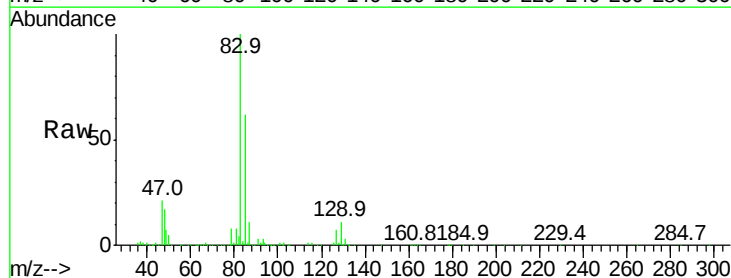
Tgt Ion: 83 Resp: 566875

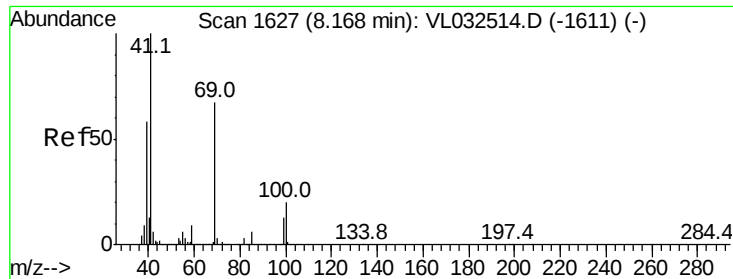
Ion Ratio Lower Upper

83 100

85 61.7 51.1 76.7

127 7.2 5.8 8.8

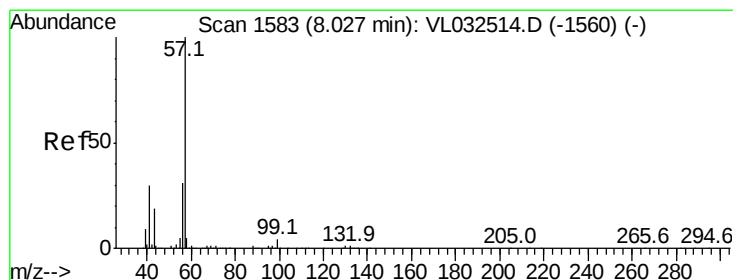
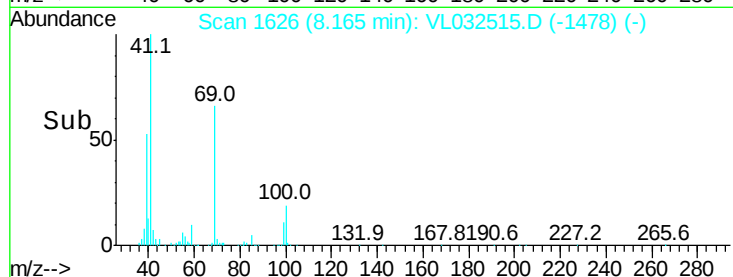
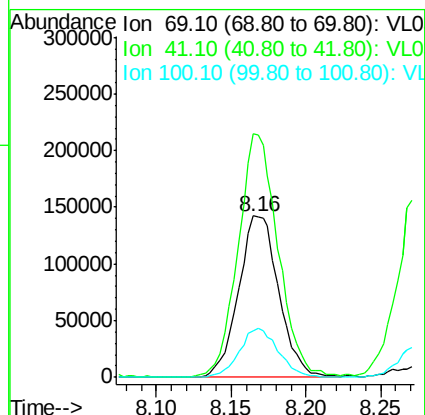
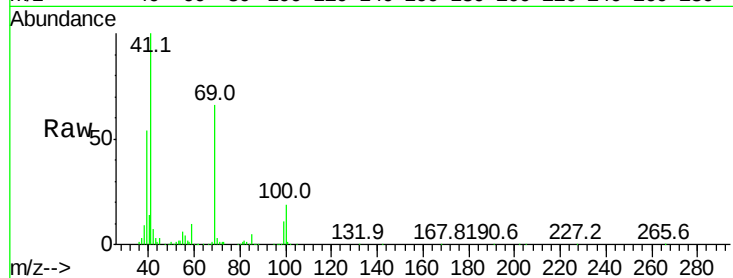




#43
Methyl Methacrylate
Concen: 2.020 ppbv
RT: 8.16 min Scan# 1626
Delta R.T. -0.02 min
Lab File: VL032515.D
Acq: 24 Sep 2018 17:07

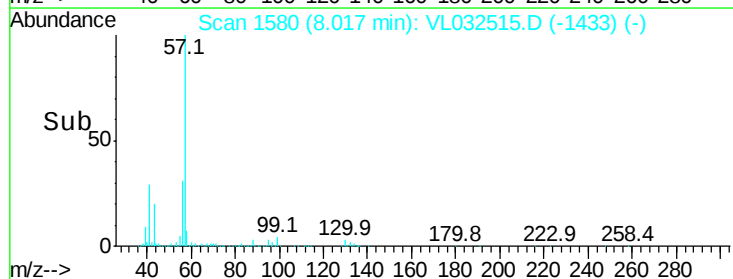
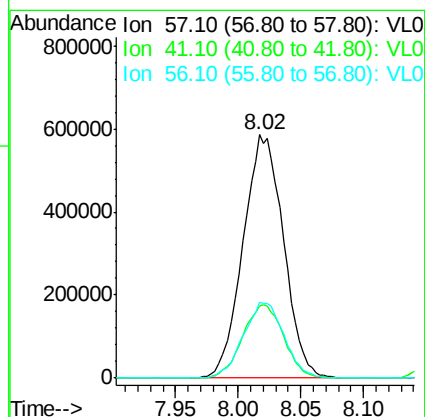
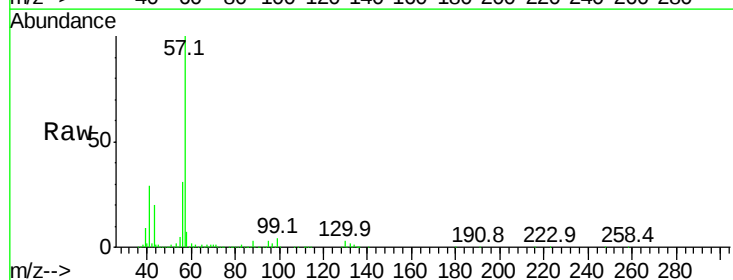
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

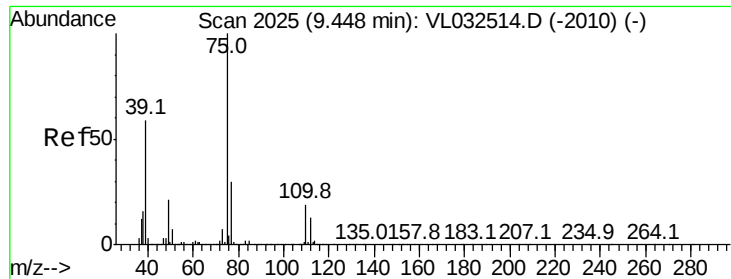
Tgt Ion: 69 Resp: 266801
Ion Ratio Lower Upper
69 100
41 149.6 117.1 175.7
100 29.4 23.4 35.2



#44
2,2,4-Trimethylpentane
Concen: 2.179 ppbv
RT: 8.02 min Scan# 1580
Delta R.T. -0.03 min
Lab File: VL032515.D
Acq: 24 Sep 2018 17:07

Tgt Ion: 57 Resp: 1311284
Ion Ratio Lower Upper
57 100
41 30.6 24.4 36.6
56 31.5 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 2.233 ppbv

RT: 9.45 min Scan# 2025

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

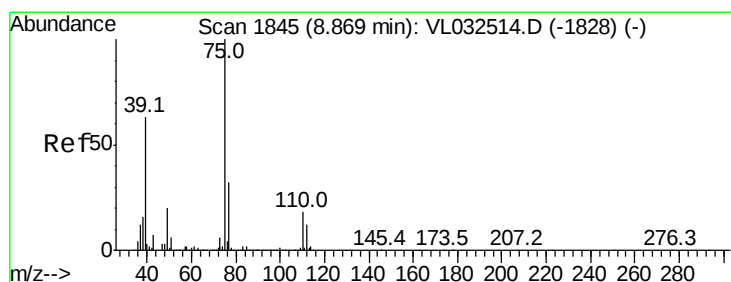
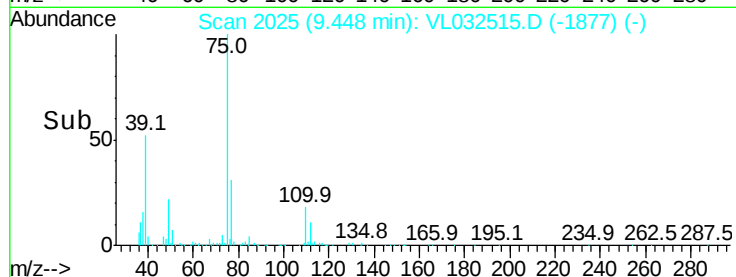
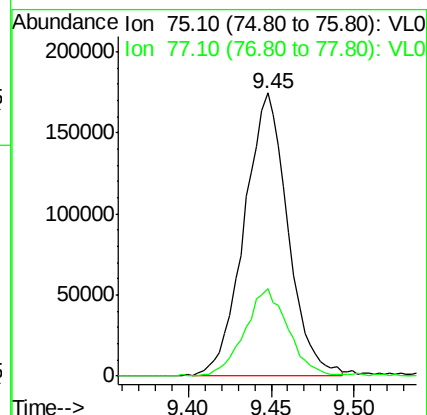
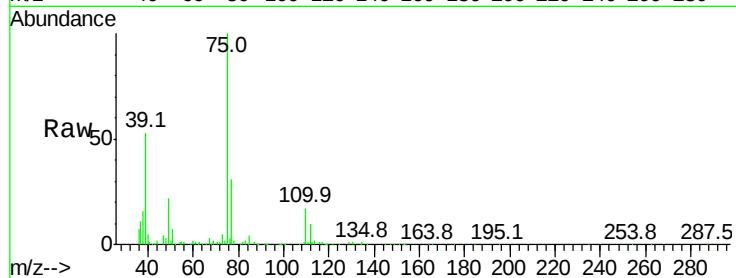
VSTDIC002

Tgt Ion: 75 Resp: 315553

Ion Ratio Lower Upper

75 100

77 31.1 26.2 39.2



#46

cis-1,3-Dichloropropene

Concen: 2.146 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

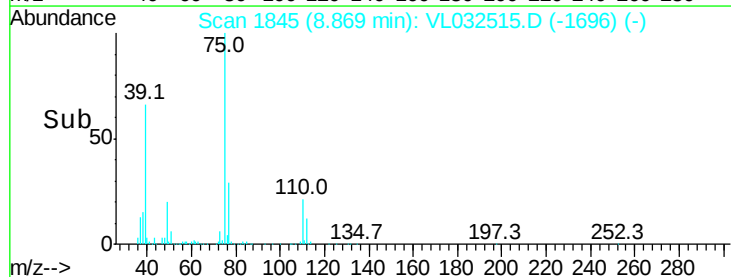
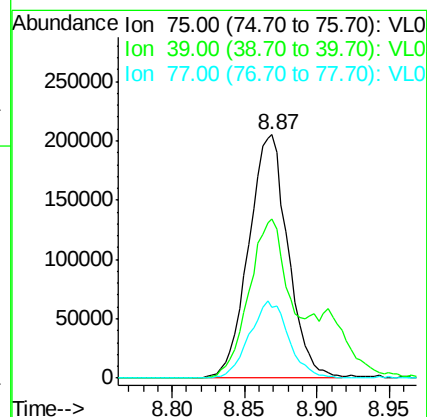
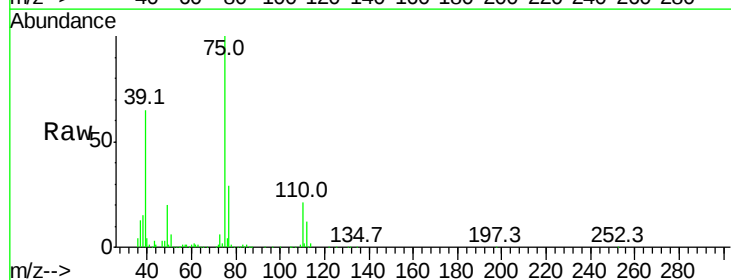
Tgt Ion: 75 Resp: 387578

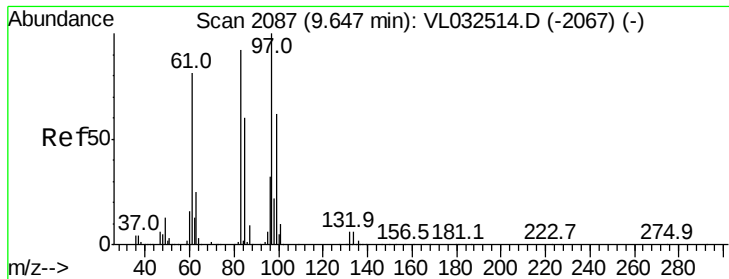
Ion Ratio Lower Upper

75 100

39 65.1 48.9 73.3

77 29.0 25.4 38.0

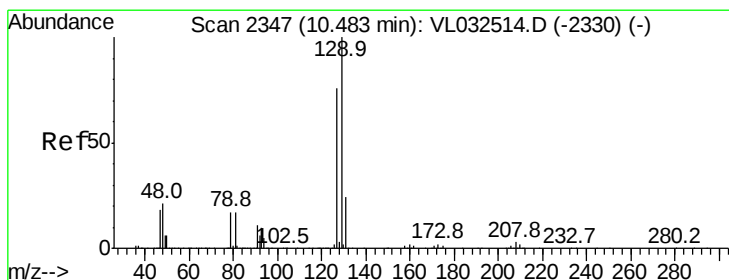
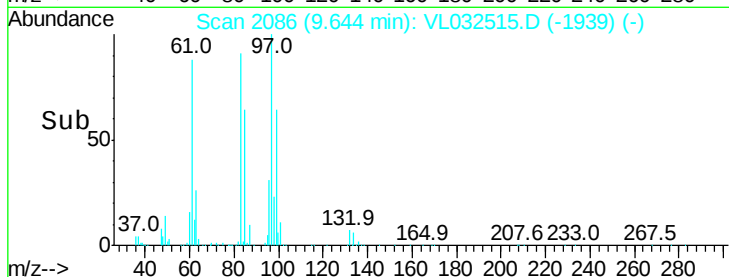
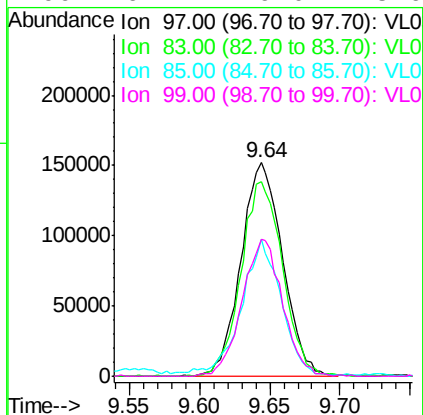
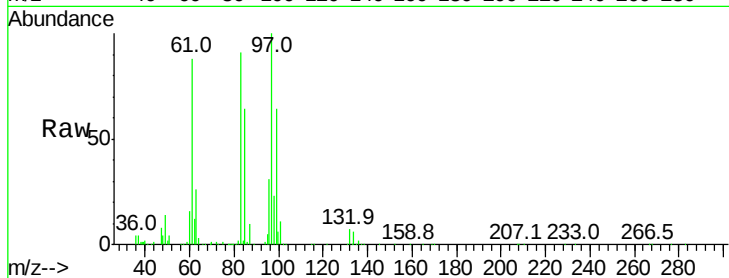




#47
 1,1,2-Trichloroethane
 Concen: 2.209 ppbv
 RT: 9.64 min Scan# 2086
 Delta R.T. -0.03 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

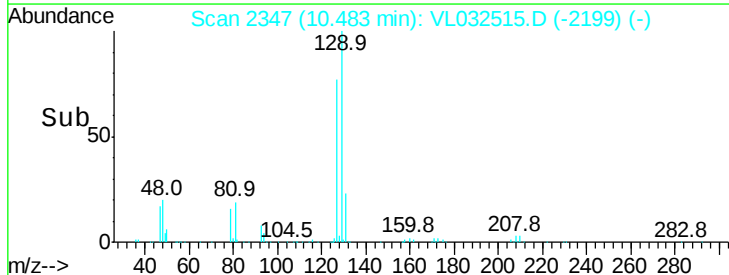
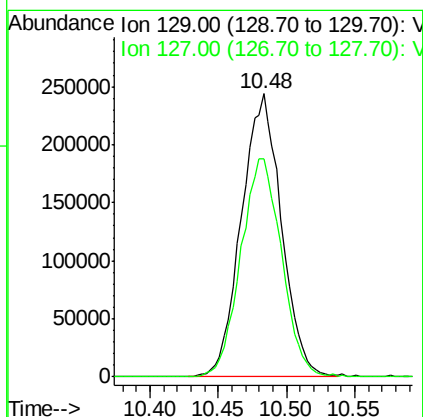
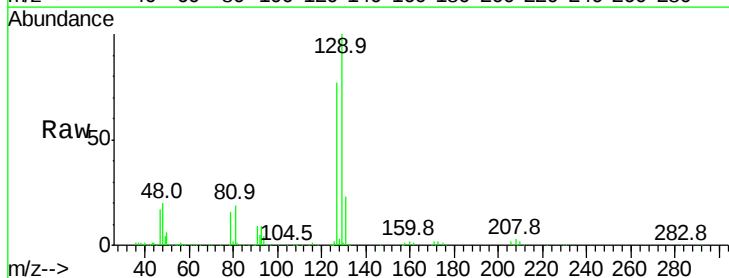
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

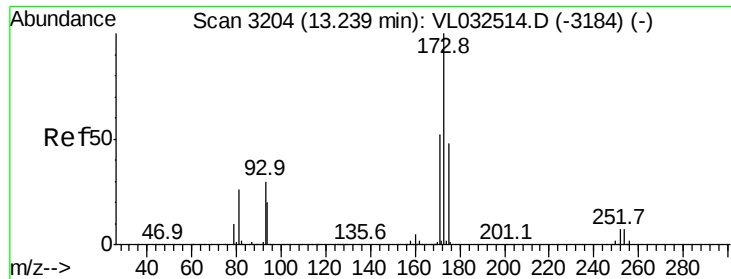
Tgt Ion: 97 Resp: 312820
 Ion Ratio Lower Upper
 97 100
 83 91.1 75.0 112.4
 85 64.1 47.5 71.3
 99 64.1 49.0 73.6



#48
 Dibromochloromethane
 Concen: 2.534 ppbv
 RT: 10.48 min Scan# 2347
 Delta R.T. -0.02 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

Tgt Ion: 129 Resp: 497124
 Ion Ratio Lower Upper
 129 100
 127 78.7 39.5 118.3





#49

Bromoform

Concen: 2.240 ppbv

RT: 13.23 min Scan# 3202

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

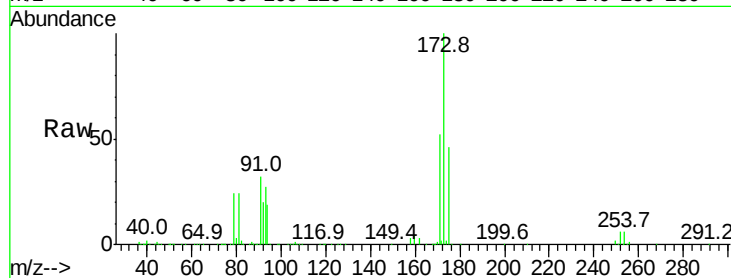
Tgt Ion:173 Resp: 381873

Ion Ratio Lower Upper

173 100

175 48.5 38.9 58.3

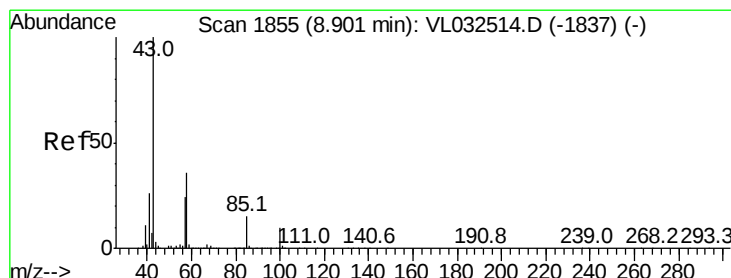
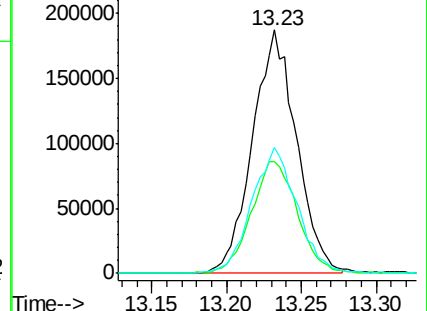
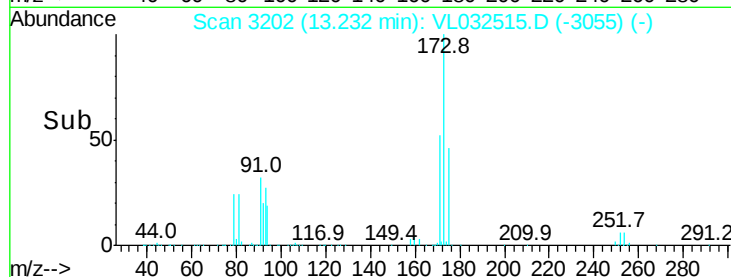
171 53.1 41.6 62.4



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: 2.123 ppbv

RT: 8.91 min Scan# 1857

Delta R.T. -0.01 min

Lab File: VL032515.D

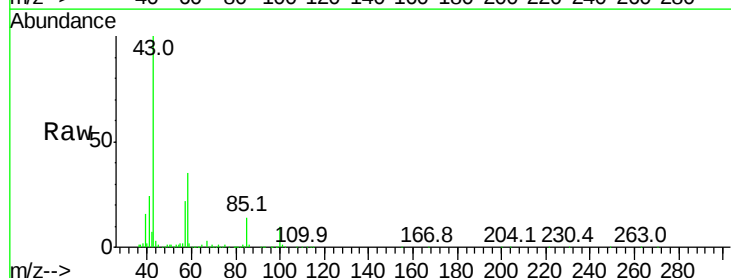
Acq: 24 Sep 2018 17:07

Tgt Ion: 43 Resp: 777207

Ion Ratio Lower Upper

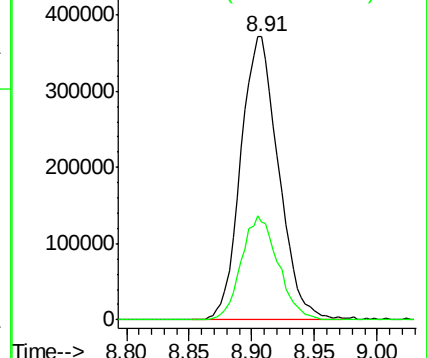
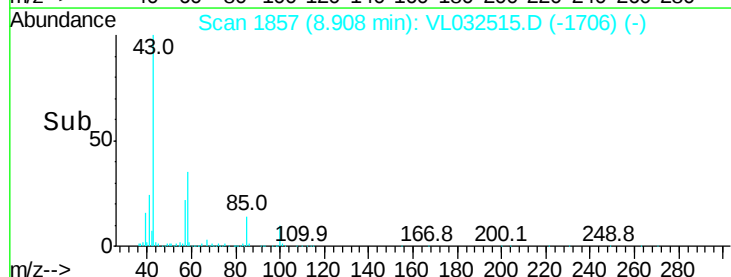
43 100

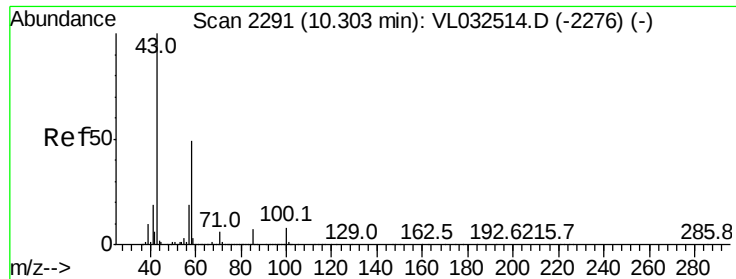
58 36.0 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 2.739 ppbv

RT: 10.31 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

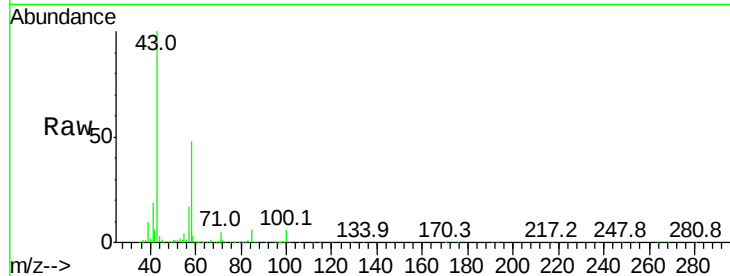
Tgt Ion: 43 Resp: 645811

Ion Ratio Lower Upper

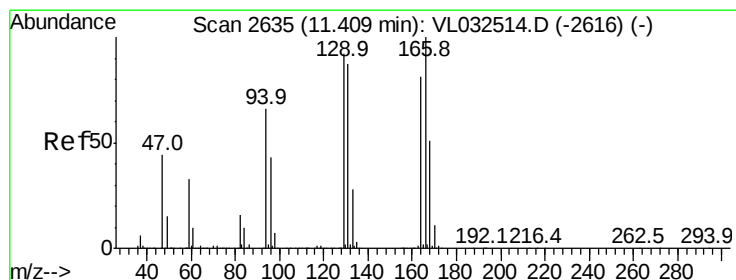
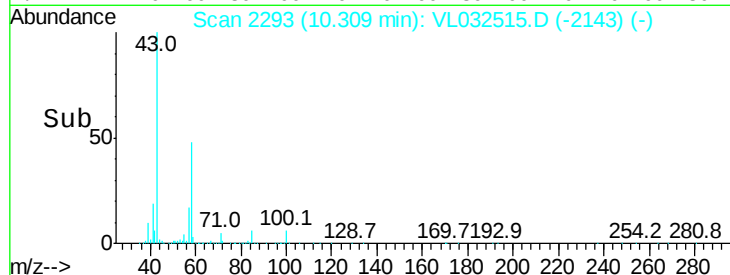
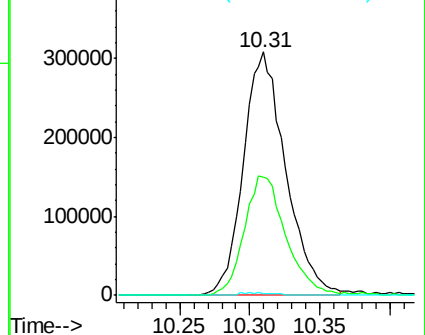
43 100

58 48.7 39.2 58.8

98 1.1 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: 2.246 ppbv

RT: 11.40 min Scan# 2633

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Tgt Ion: 164 Resp: 216856

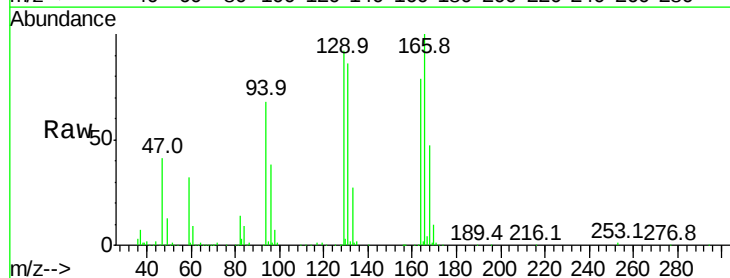
Ion Ratio Lower Upper

164 100

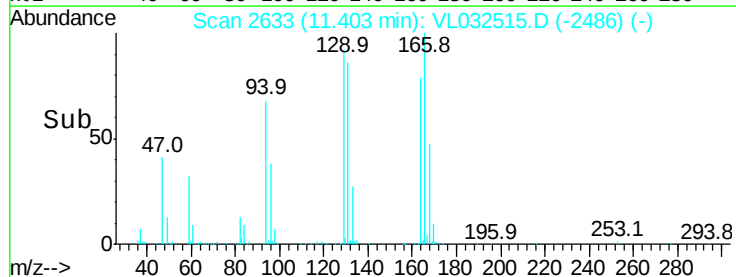
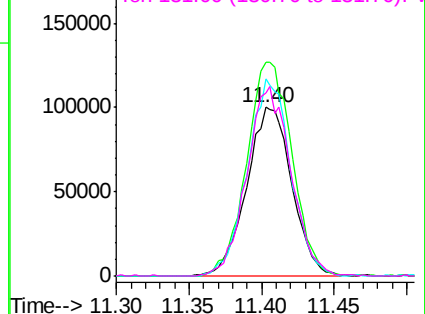
166 126.5 100.6 150.8

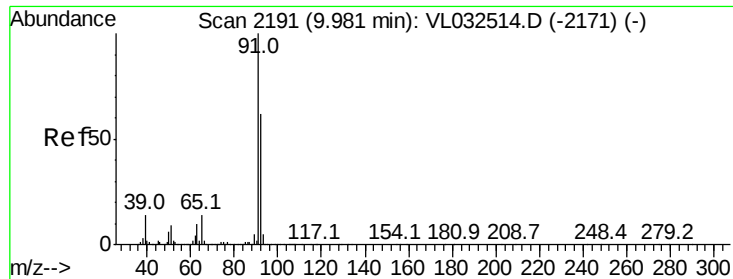
129 116.7 89.9 134.9

131 108.7 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: 2.463 ppbv

RT: 9.97 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

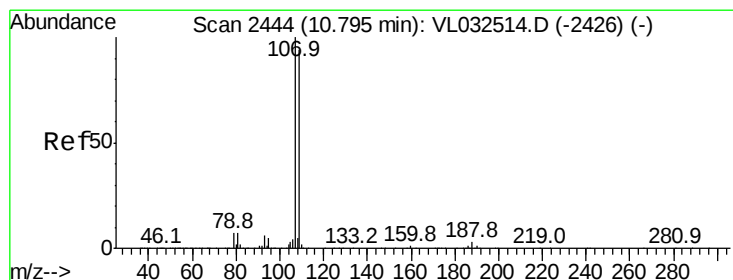
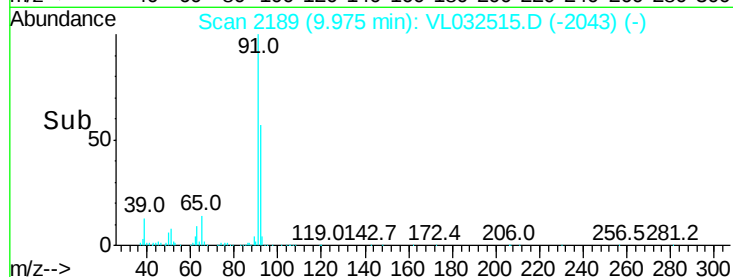
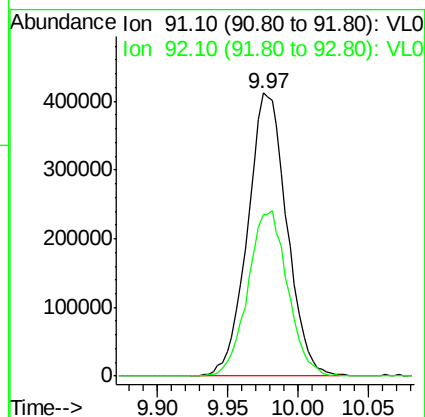
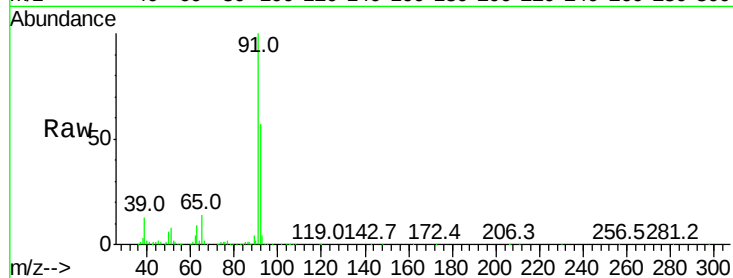
VSTDIC002

Tgt Ion: 91 Resp: 801423

Ion Ratio Lower Upper

91 100

92 59.1 48.1 72.1



#54

1,2-Dibromoethane

Concen: 2.376 ppbv

RT: 10.79 min Scan# 2442

Delta R.T. -0.03 min

Lab File: VL032515.D

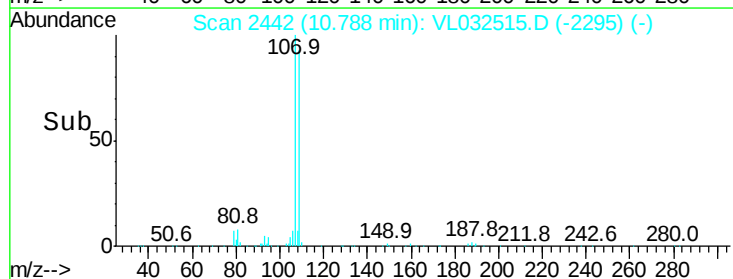
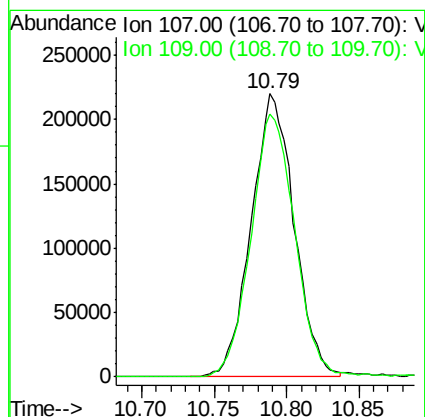
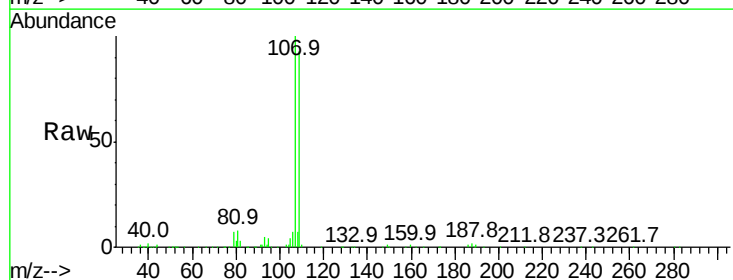
Acq: 24 Sep 2018 17:07

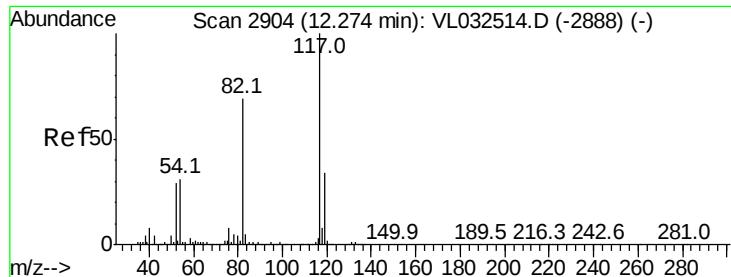
Tgt Ion: 107 Resp: 451853

Ion Ratio Lower Upper

107 100

109 93.0 73.9 110.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

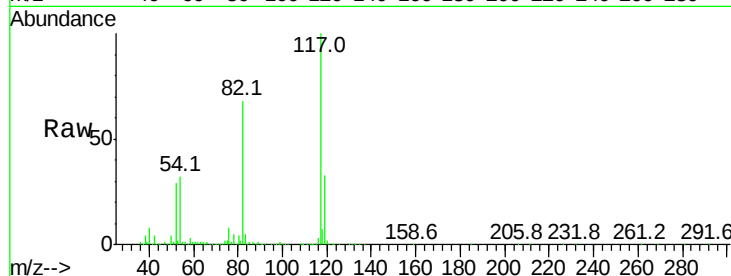
Tgt Ion:117 Resp: 3739238

Ion Ratio Lower Upper

117 100

82 64.5 53.0 79.6

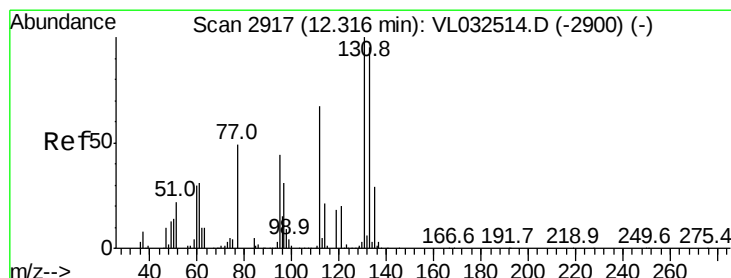
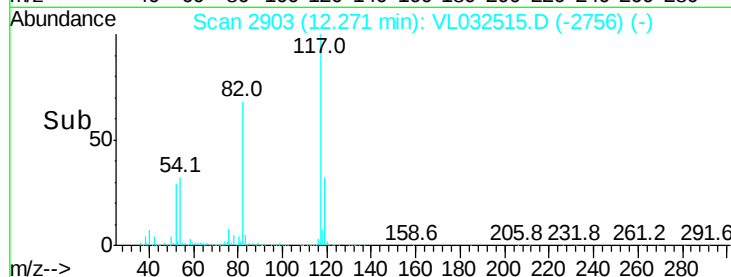
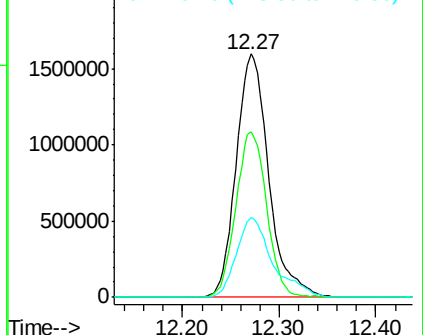
119 36.6 45.9 68.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 2.073 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

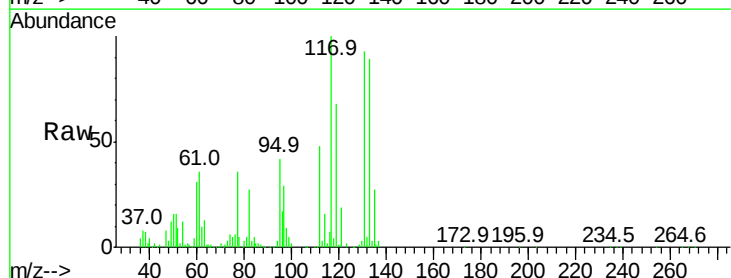
Tgt Ion:131 Resp: 349422

Ion Ratio Lower Upper

131 100

133 96.7 77.0 115.4

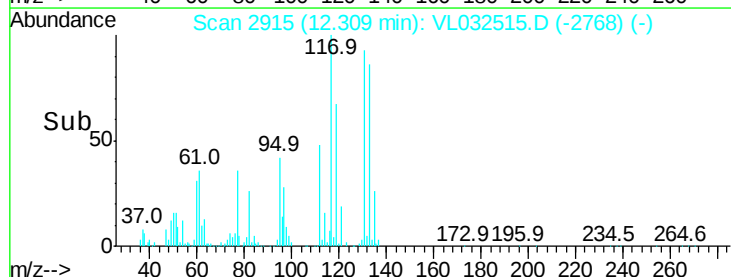
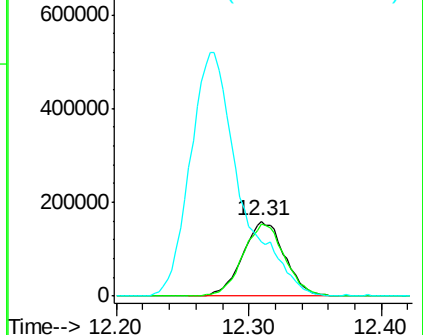
119 392.1 114.2 171.2#

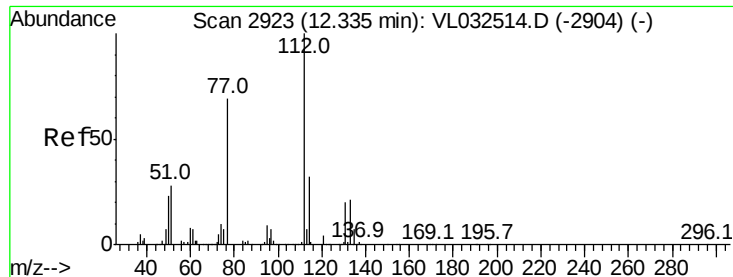


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 2.144 ppbv

RT: 12.33 min Scan# 2921

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

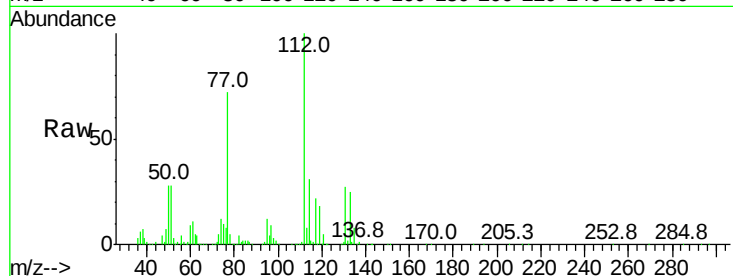
Tgt Ion: 112 Resp: 640655

Ion Ratio Lower Upper

112 100

77 71.1 56.1 84.1

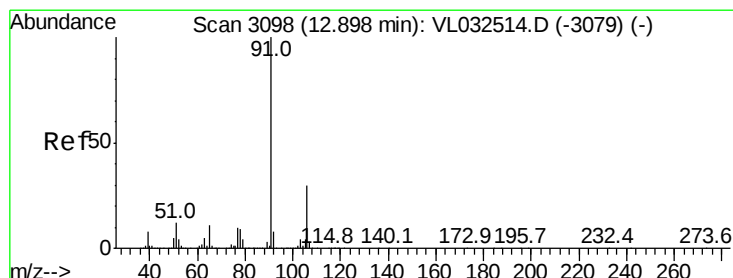
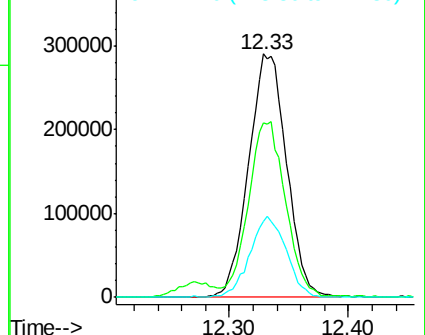
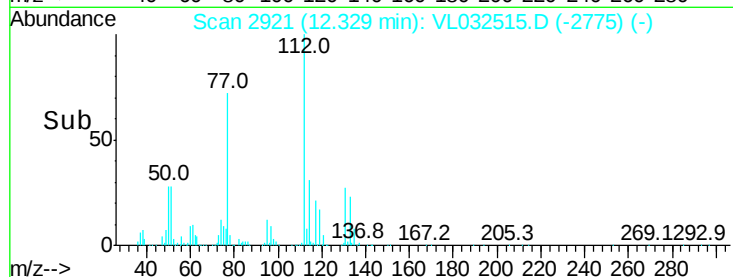
114 31.0 27.8 34.0



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: 2.262 ppbv

RT: 12.89 min Scan# 3097

Delta R.T. -0.03 min

Lab File: VL032515.D

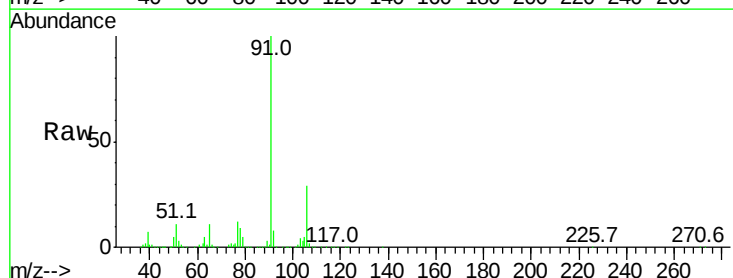
Acq: 24 Sep 2018 17:07

Tgt Ion: 91 Resp: 1012303

Ion Ratio Lower Upper

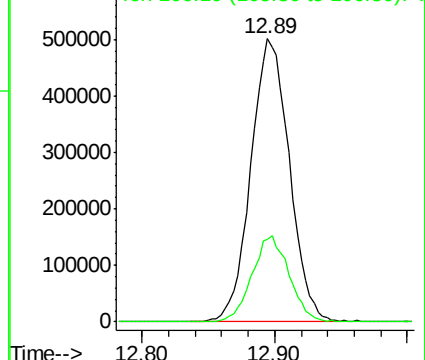
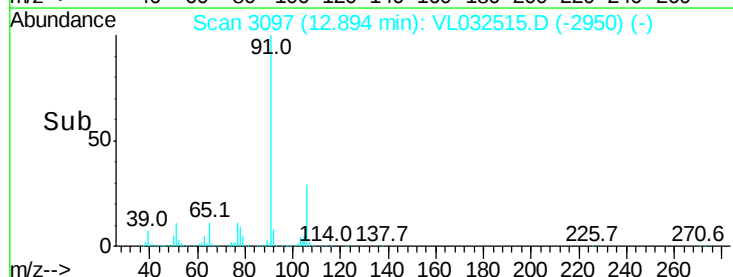
91 100

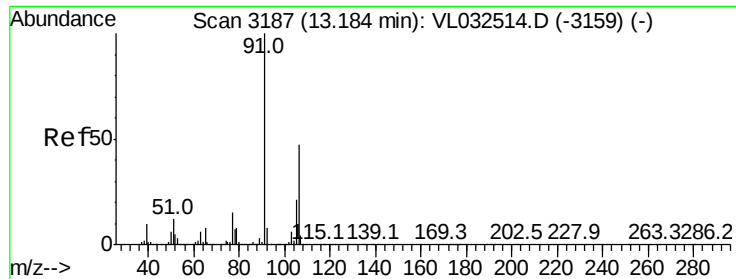
106 29.3 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 1.566 ppbv

RT: 13.18 min Scan# 3186

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

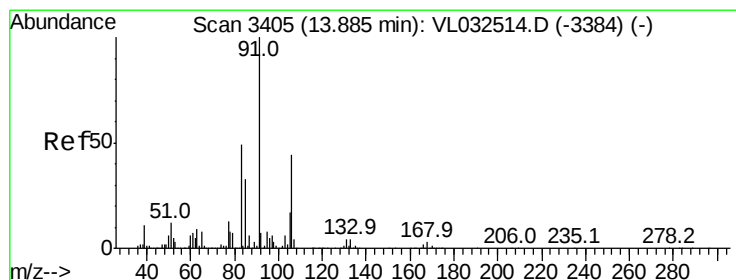
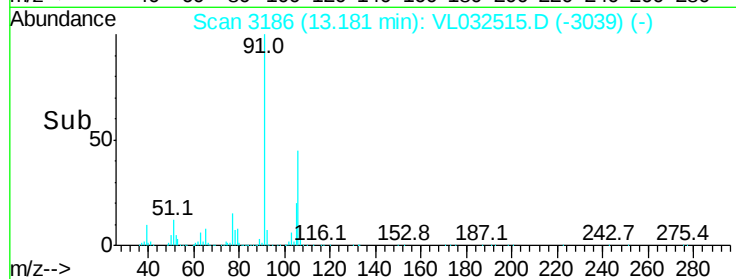
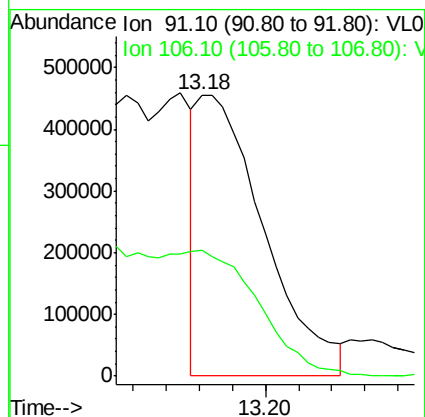
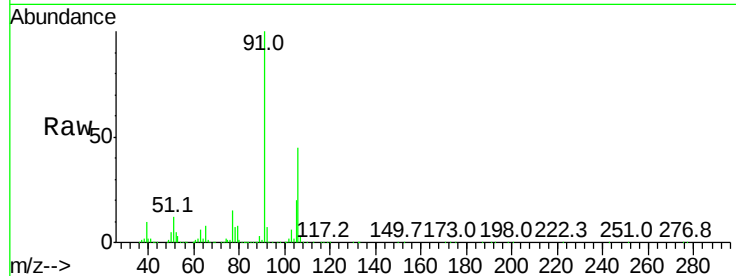
VSTDIC002

Tgt Ion: 91 Resp: 624754

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#



#60

o-Xylene

Concen: 2.253 ppbv

RT: 13.88 min Scan# 3404

Delta R.T. -0.03 min

Lab File: VL032515.D

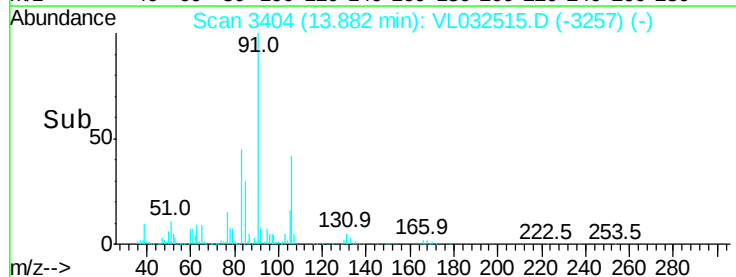
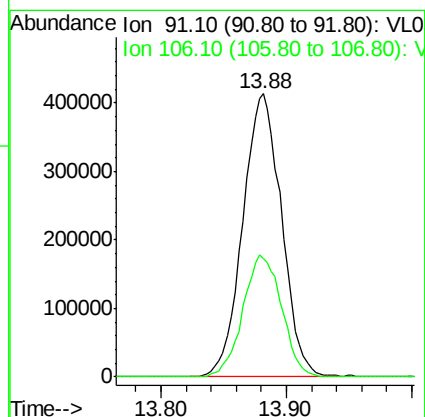
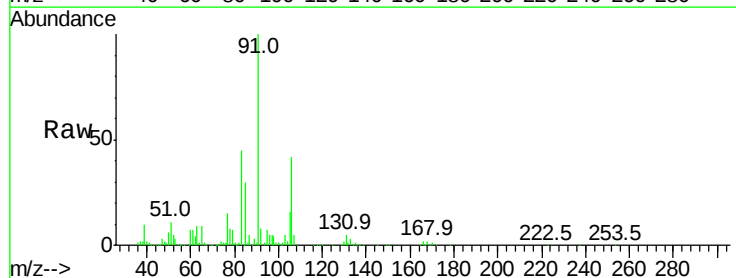
Acq: 24 Sep 2018 17:07

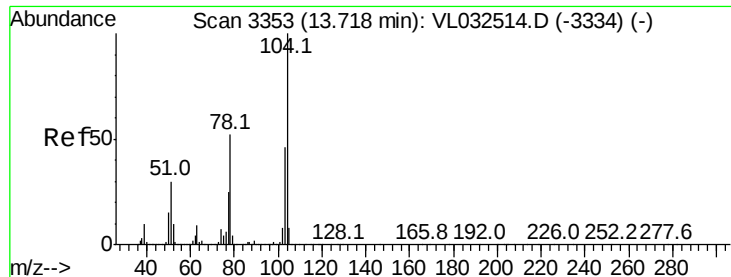
Tgt Ion: 91 Resp: 882843

Ion Ratio Lower Upper

91 100

106 43.4 21.9 65.7





#61

Styrene

Concen: 2.285 ppbv

RT: 13.71 min Scan# 3352

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

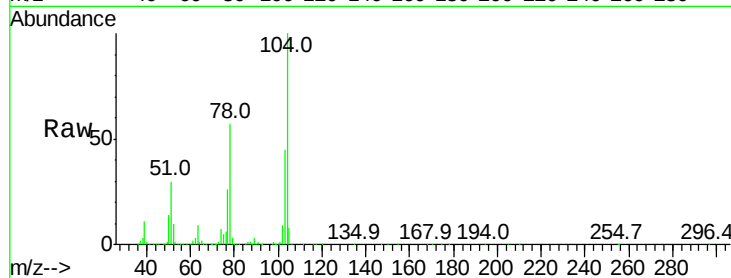
Tgt Ion:104 Resp: 579687

Ion Ratio Lower Upper

104 100

78 54.4 41.8 62.8

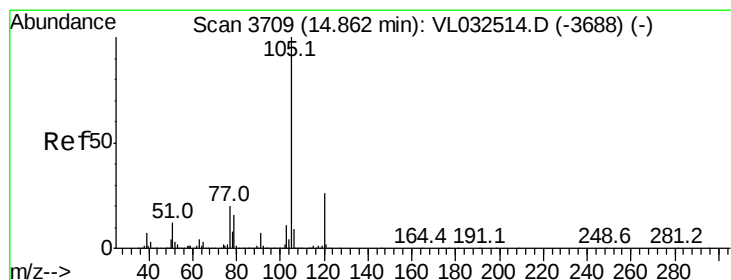
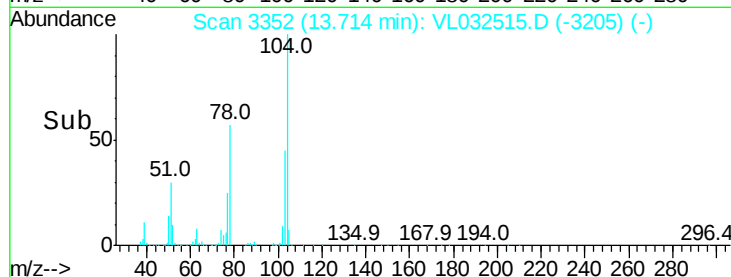
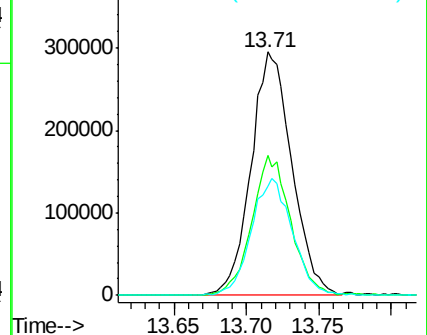
103 48.4 38.0 57.0



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: 2.234 ppbv

RT: 14.86 min Scan# 3708

Delta R.T. -0.03 min

Lab File: VL032515.D

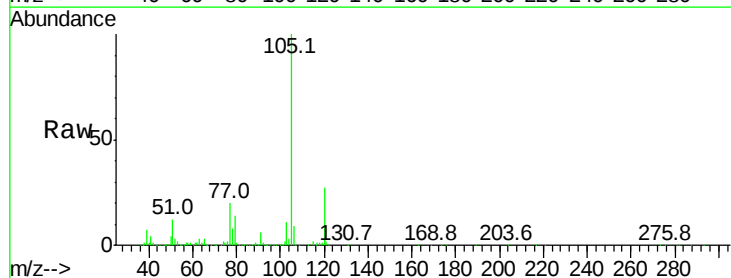
Acq: 24 Sep 2018 17:07

Tgt Ion:105 Resp: 1230538

Ion Ratio Lower Upper

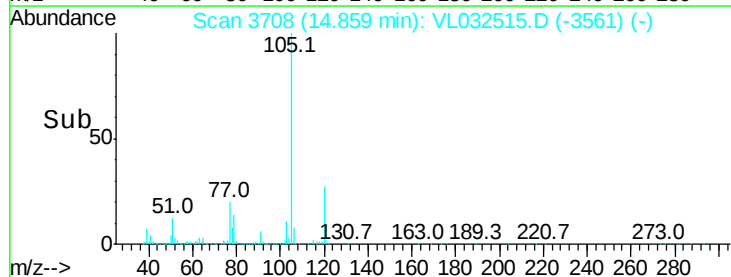
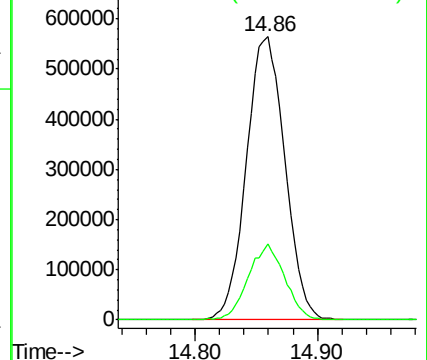
105 100

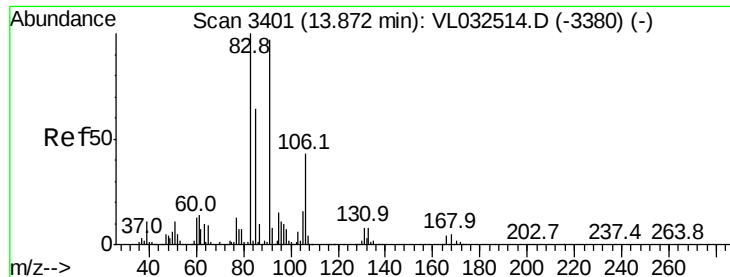
120 25.2 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

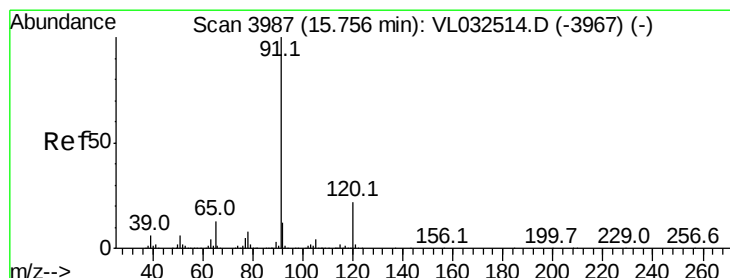
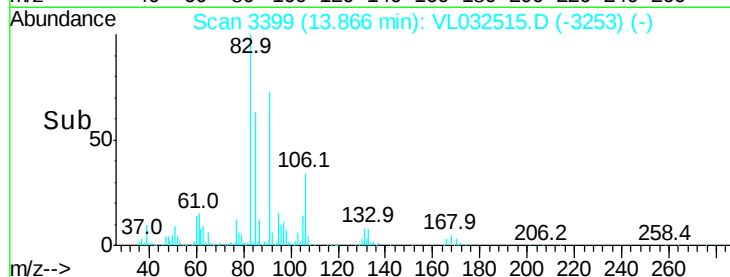
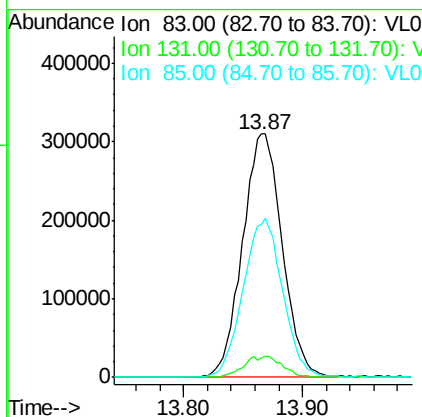
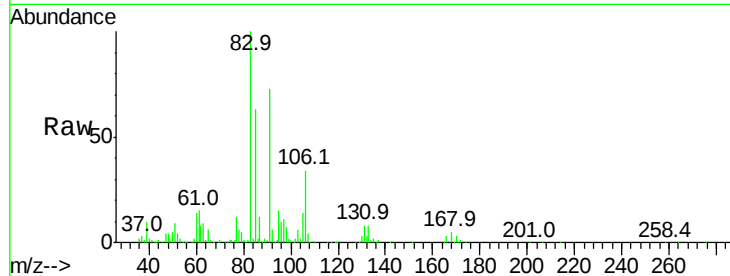




#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.042 ppbv
 RT: 13.87 min Scan# 3399
 Delta R.T. -0.03 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

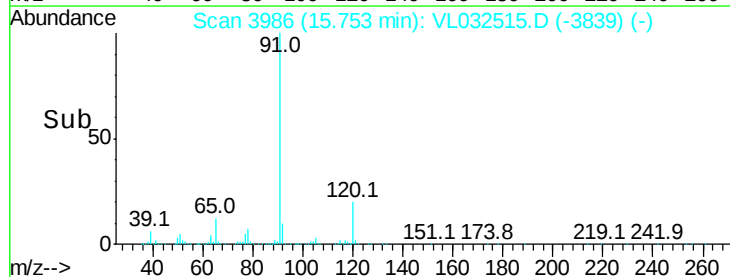
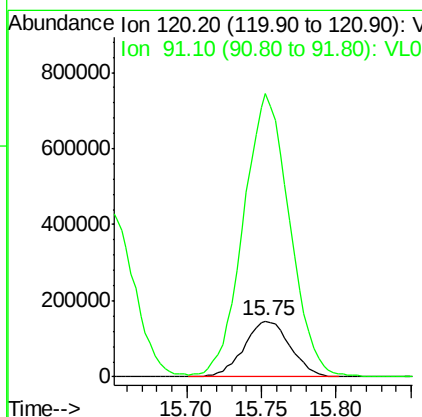
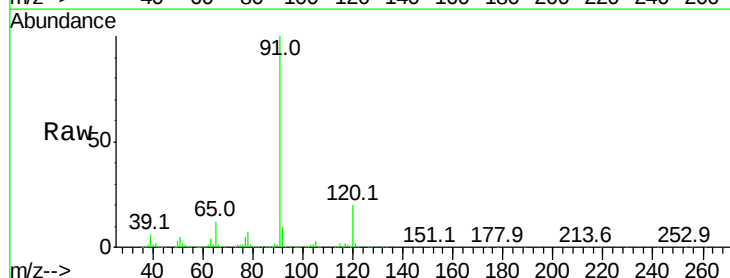
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

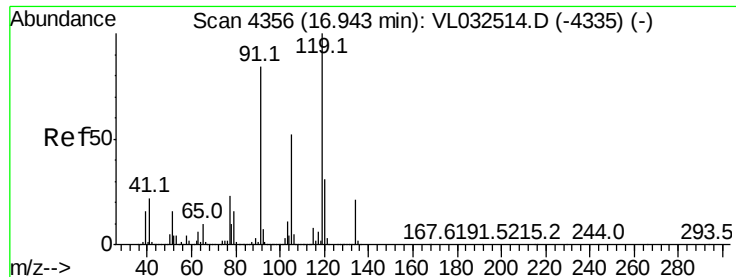
Tgt Ion: 83 Resp: 715633
 Ion Ratio Lower Upper
 83 100
 131 8.6 4.3 12.8
 85 64.7 32.3 96.8



#64
 n-propylbenzene
 Concen: 2.202 ppbv
 RT: 15.75 min Scan# 3986
 Delta R.T. -0.03 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

Tgt Ion: 120 Resp: 317120
 Ion Ratio Lower Upper
 120 100
 91 506.5 381.8 572.6





#65

tert-Butylbenzene

Concen: 2.303 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

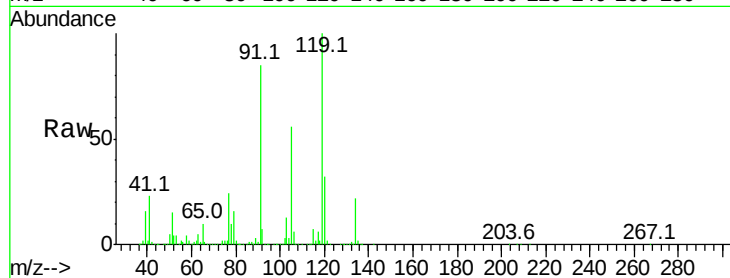
Tgt Ion: 119 Resp: 1093109

Ion Ratio Lower Upper

119 100

91 85.9 66.5 99.7

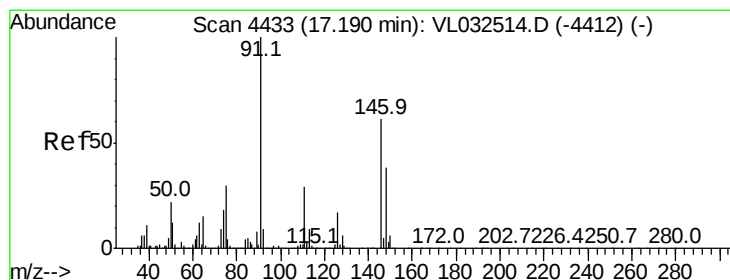
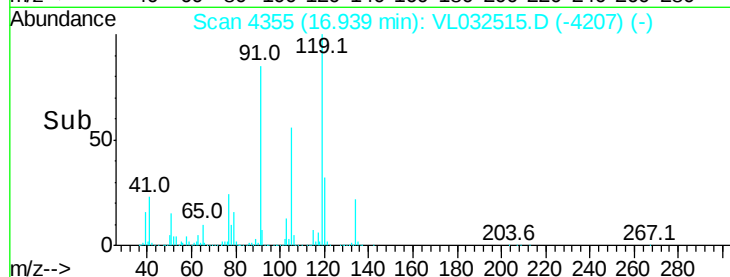
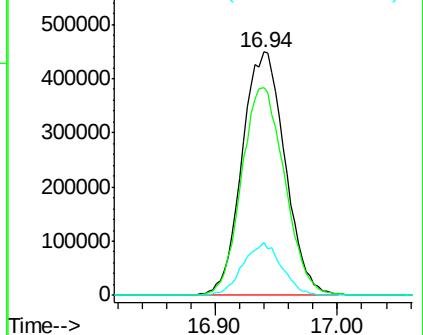
134 19.5 16.0 24.0



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: 2.267 ppbv

RT: 17.18 min Scan# 4431

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

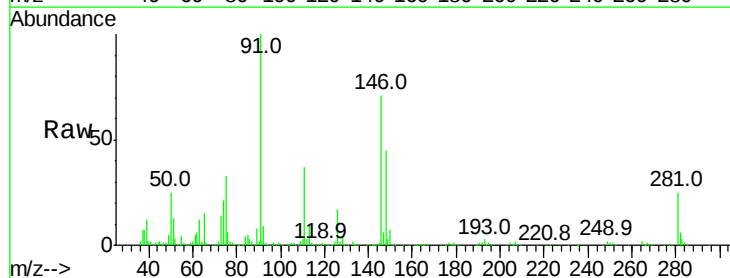
Tgt Ion: 91 Resp: 599555

Ion Ratio Lower Upper

91 100

126 17.9 13.8 20.8

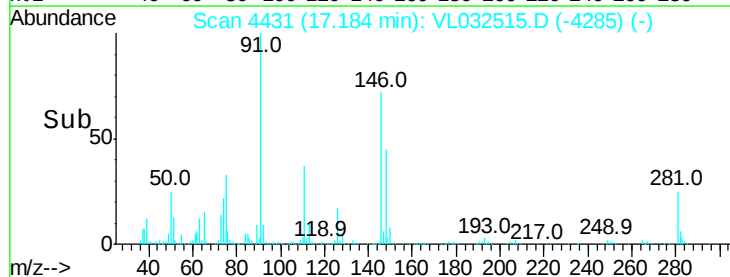
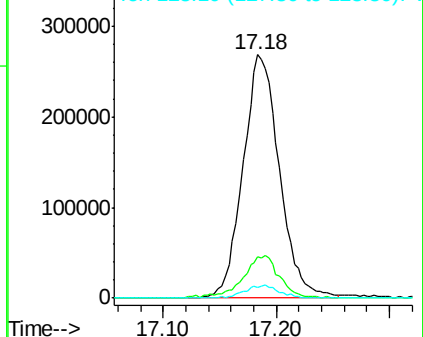
128 5.4 4.4 6.6

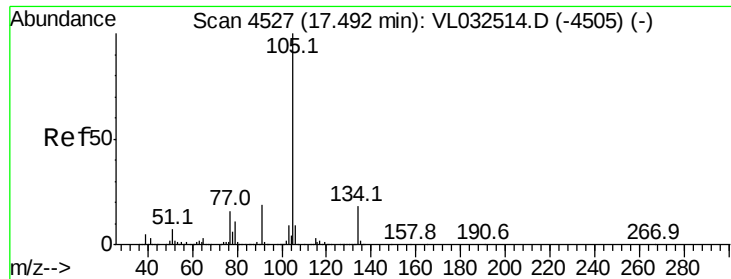


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 2.239 ppbv

RT: 17.49 min Scan# 4525

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

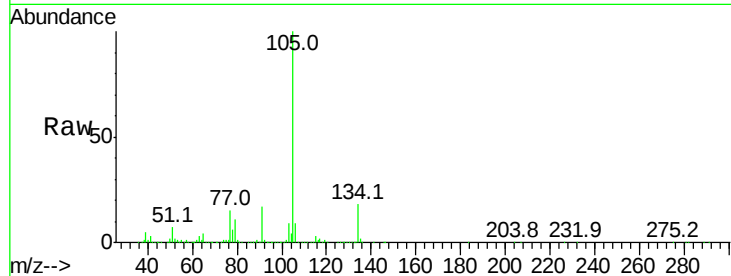
VSTDIC002

Tgt Ion:105 Resp: 1598142

Ion Ratio Lower Upper

105 100

134 17.6 14.4 21.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.49

800000

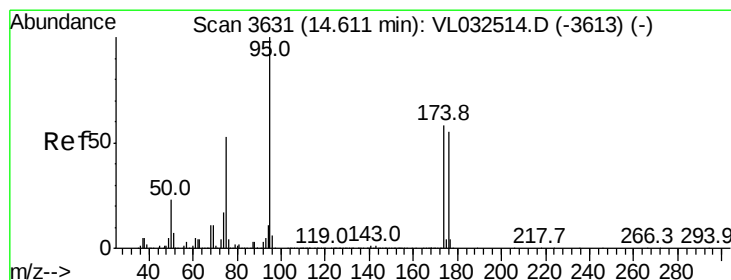
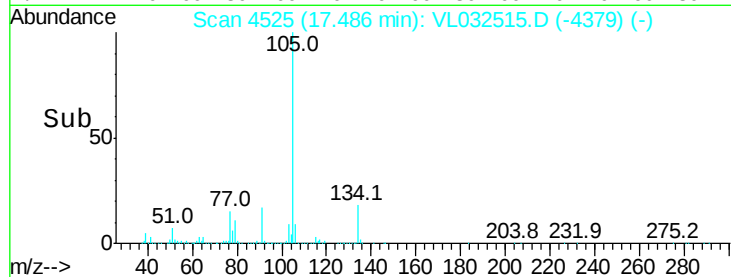
600000

400000

200000

0

Time--> 17.40 17.50



#68

1-Bromo-4-Fluorobenzene

Concen: 9.934 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

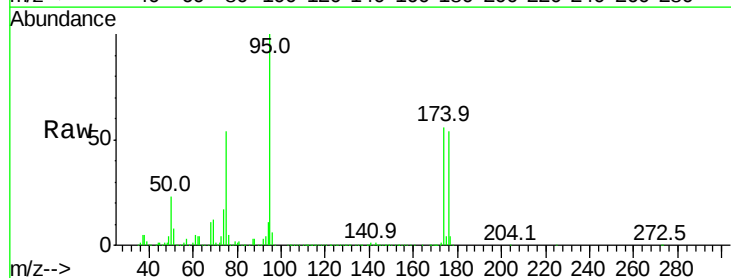
Tgt Ion: 95 Resp: 2757695

Ion Ratio Lower Upper

95 100

174 57.5 46.3 69.5

175 4.2 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

14.61

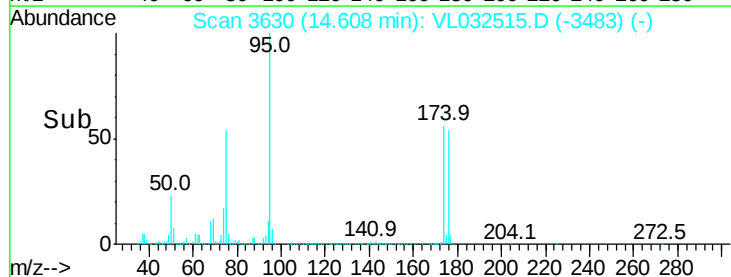
1500000

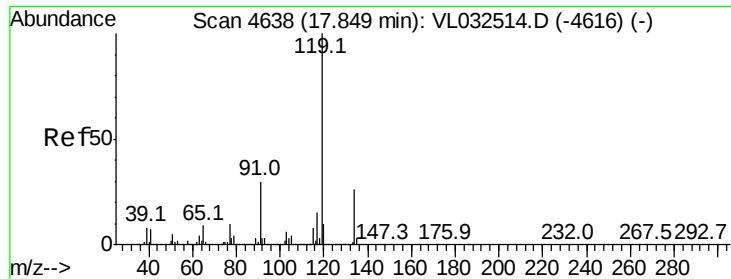
1000000

500000

0

Time--> 14.50 14.60 14.70

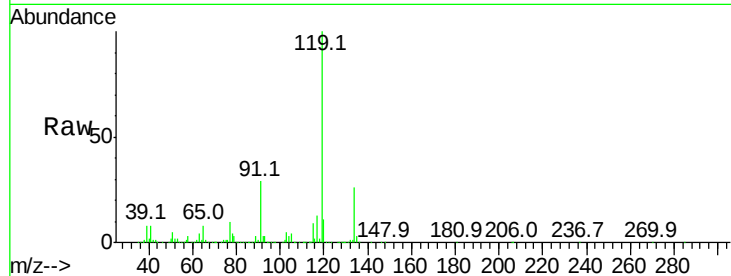




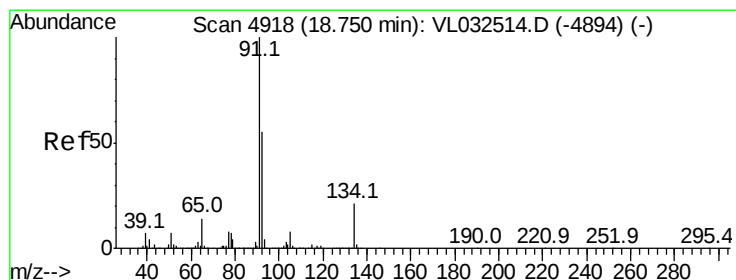
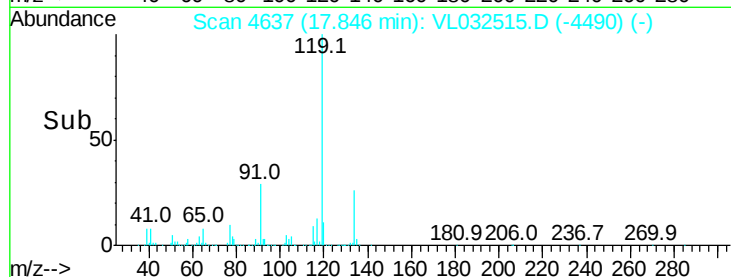
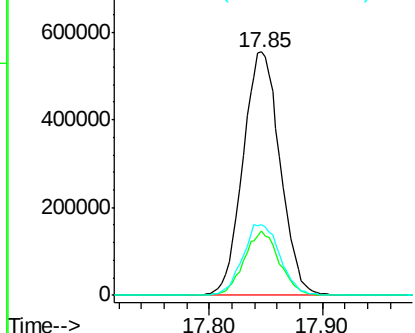
#69
p-Isopropyltoluene
Concen: 2.281 ppbv
RT: 17.85 min Scan# 4637
Delta R.T. -0.03 min
Lab File: VL032515.D
Acq: 24 Sep 2018 17:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 119 Resp: 1262285
Ion Ratio Lower Upper
119 100
134 25.0 20.4 30.6
91 29.6 23.4 35.2

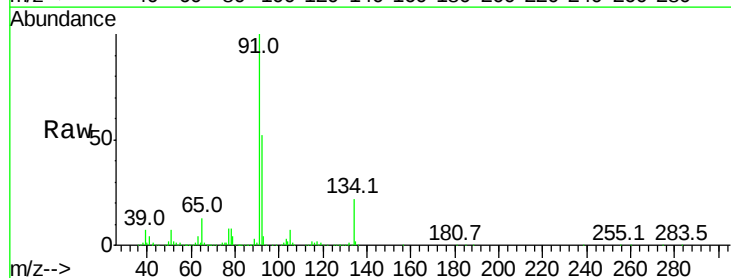


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

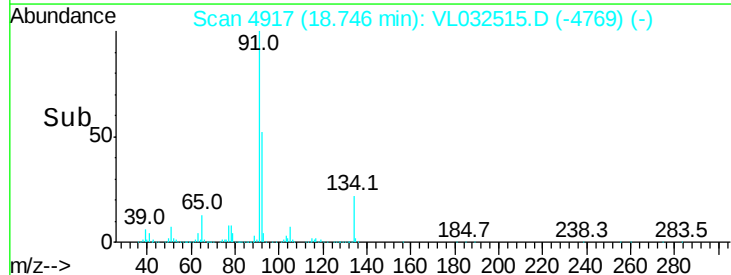
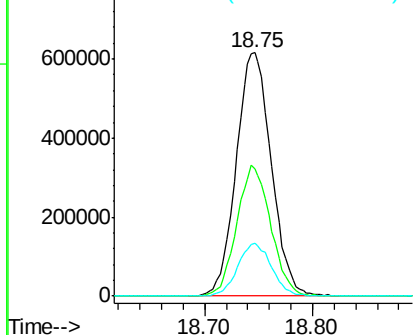


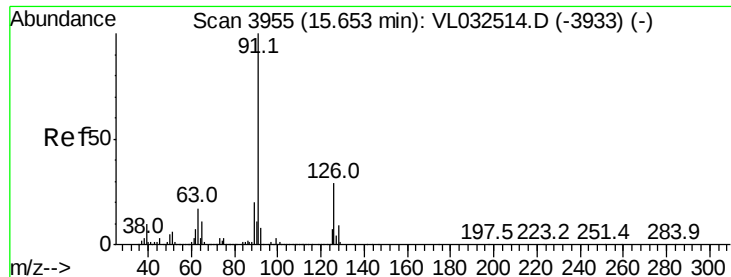
#70
n-Butylbenzene
Concen: 2.213 ppbv
RT: 18.75 min Scan# 4917
Delta R.T. -0.02 min
Lab File: VL032515.D
Acq: 24 Sep 2018 17:07

Tgt Ion: 91 Resp: 1388173
Ion Ratio Lower Upper
91 100
92 52.2 43.8 65.8
134 21.1 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: 2.267 ppbv

RT: 15.65 min Scan# 3954

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

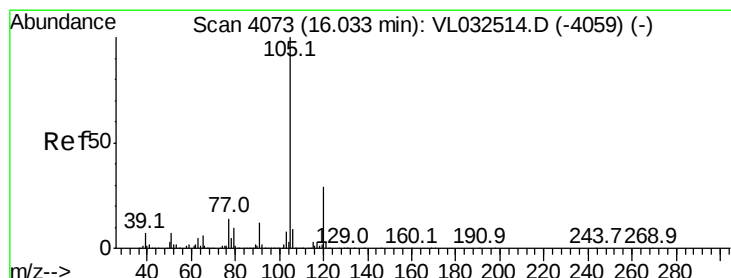
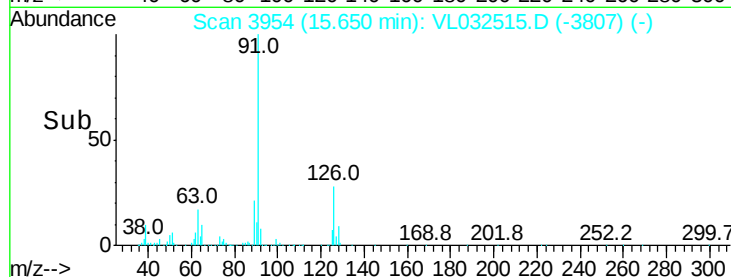
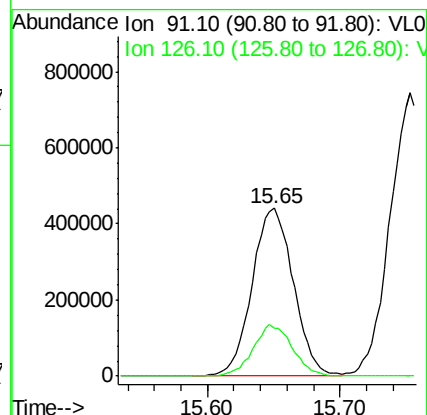
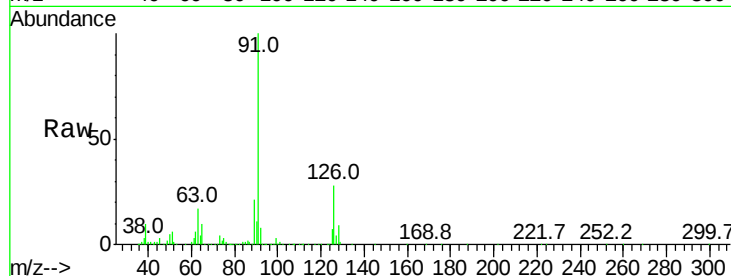
VSTDIC002

Tgt Ion: 91 Resp: 954193

Ion Ratio Lower Upper

91 100

126 29.3 11.9 47.7



#72

4-Ethyltoluene

Concen: 2.249 ppbv

RT: 16.03 min Scan# 4072

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Tgt Ion: 105 Resp: 962034

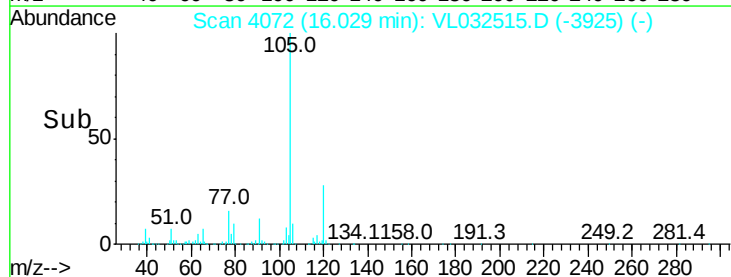
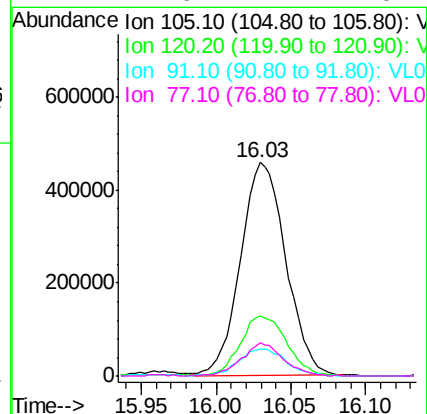
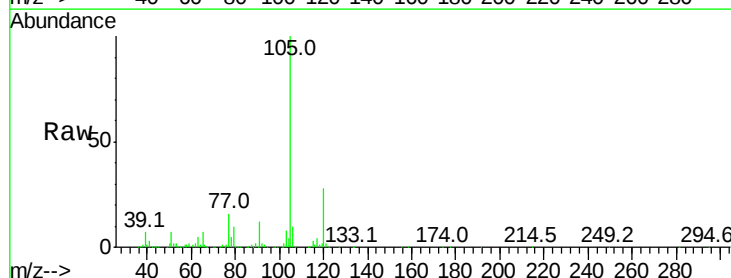
Ion Ratio Lower Upper

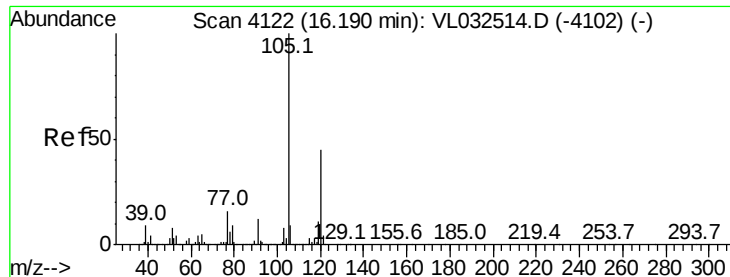
105 100

120 29.1 23.5 35.3

91 13.6 10.2 15.2

77 14.6 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 2.162 ppbv

RT: 16.19 min Scan# 4122

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

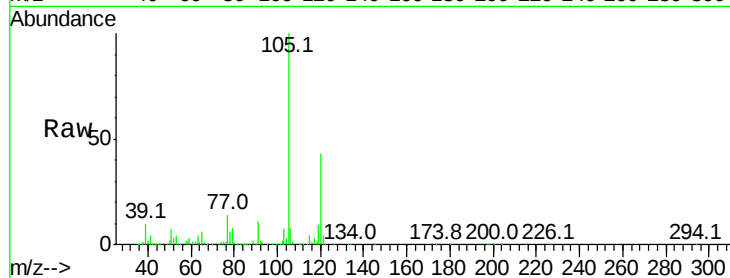
VSTDIC002

Tgt Ion:105 Resp: 926704

Ion Ratio Lower Upper

105 100

120 43.0 37.9 56.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.19

400000

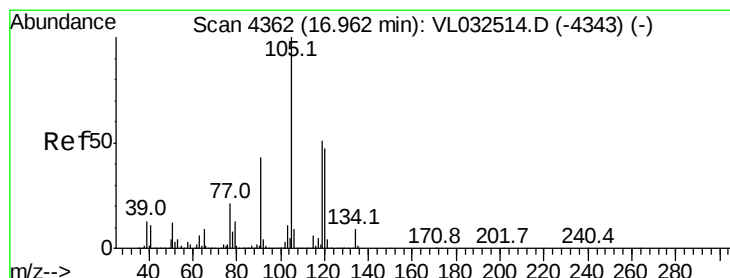
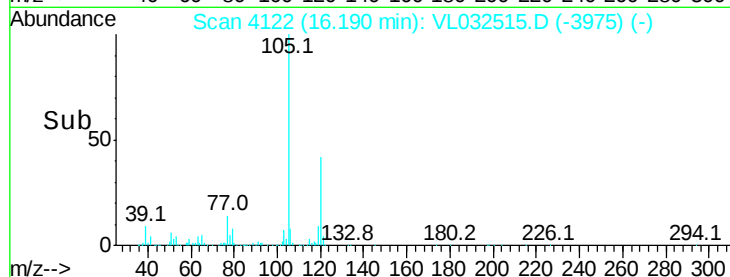
300000

200000

100000

0

Time--> 16.10 16.15 16.20 16.25



#74

1,2,4-Trimethylbenzene

Concen: 2.151 ppbv

RT: 16.96 min Scan# 4360

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Tgt Ion:105 Resp: 1007802

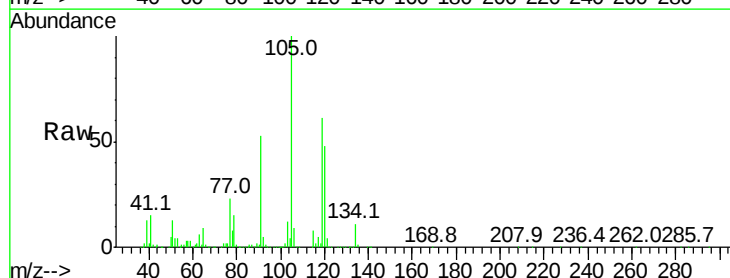
Ion Ratio Lower Upper

105 100

120 47.7 37.8 56.8

91 52.4 41.4 62.0

77 23.1 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

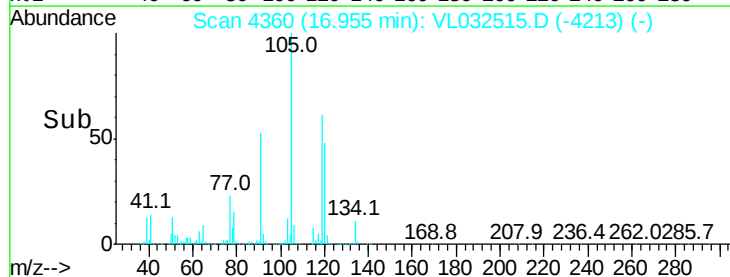
600000

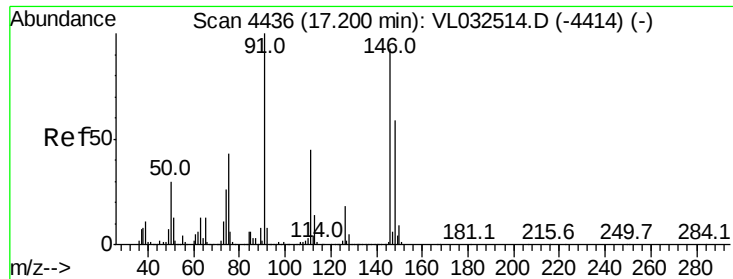
400000

200000

0

Time--> 16.90 17.00





#75

1,3-Dichlorobenzene

Concen: 2.125 ppbv

RT: 17.19 min Scan# 4434

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

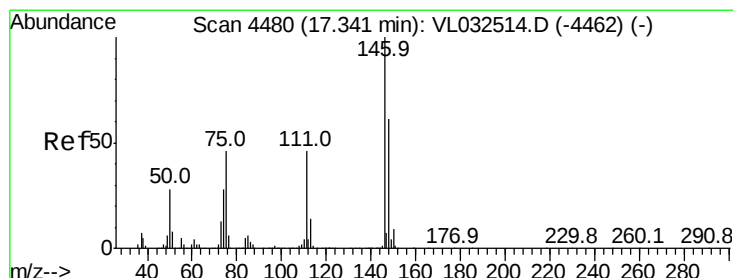
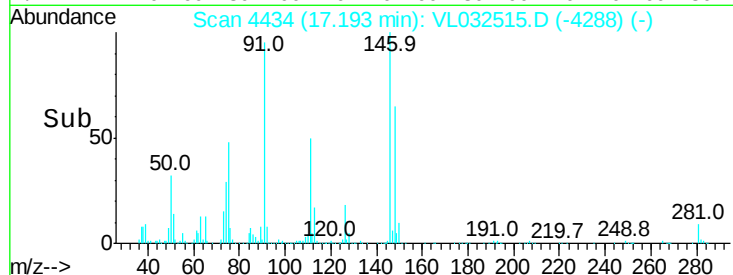
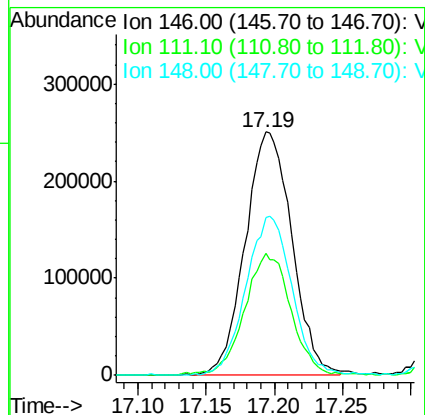
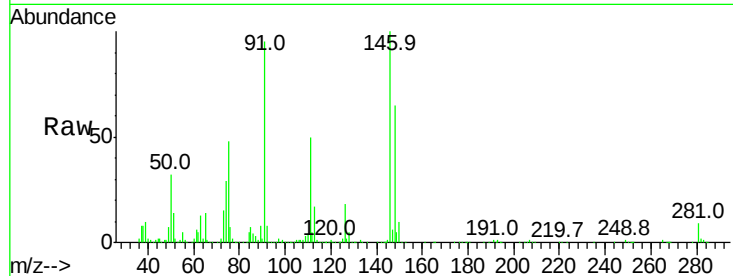
Tgt Ion:146 Resp: 590858

Ion Ratio Lower Upper

146 100

111 50.6 24.5 73.5

148 65.2 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 2.134 ppbv

RT: 17.34 min Scan# 4479

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

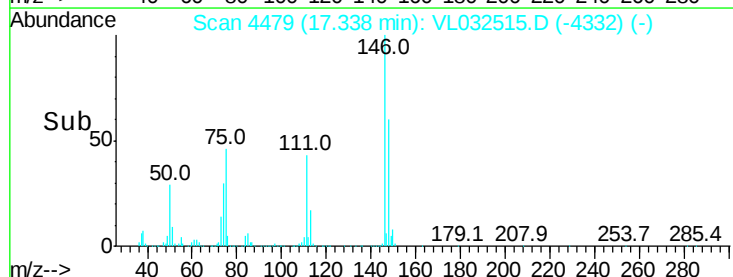
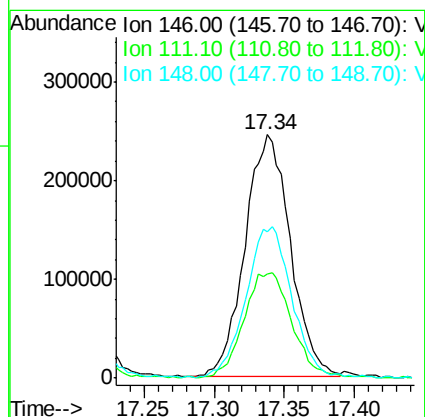
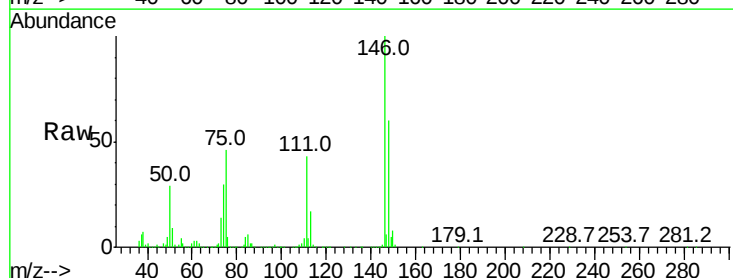
Tgt Ion:146 Resp: 550576

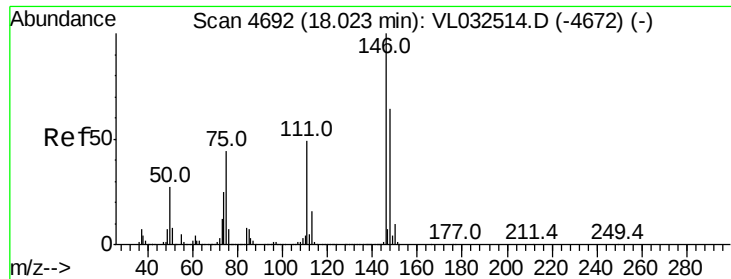
Ion Ratio Lower Upper

146 100

111 46.0 23.4 70.2

148 64.3 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 2.106 ppbv

RT: 18.02 min Scan# 4690

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

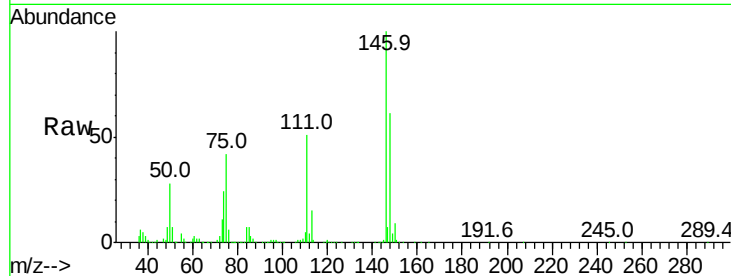
Tgt Ion:146 Resp: 565003

Ion Ratio Lower Upper

146 100

111 51.3 24.9 74.8

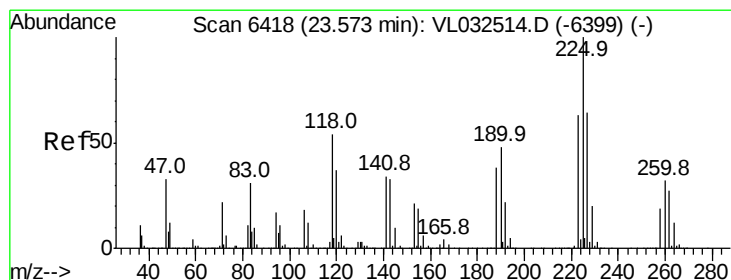
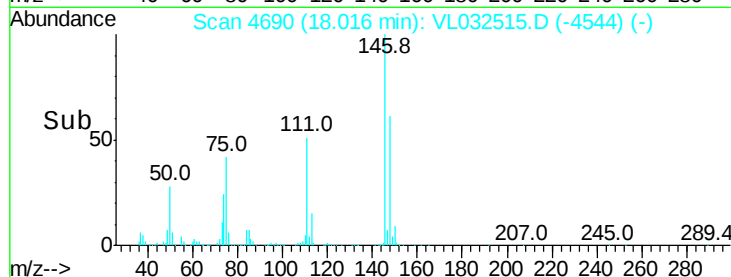
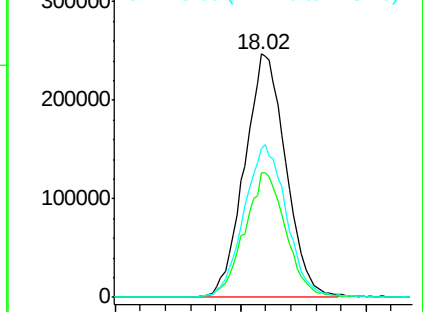
148 64.5 32.0 96.0



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: 2.101 ppbv

RT: 23.57 min Scan# 6418

Delta R.T. -0.02 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

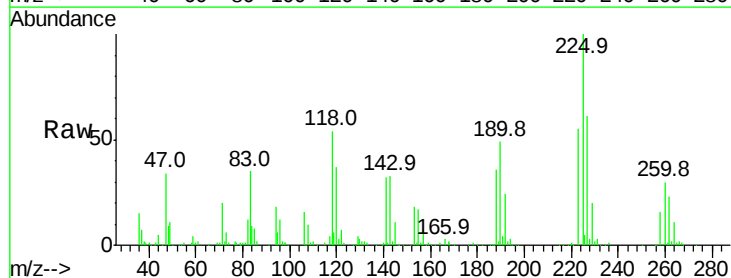
Tgt Ion:225 Resp: 210650

Ion Ratio Lower Upper

225 100

223 63.3 50.6 76.0

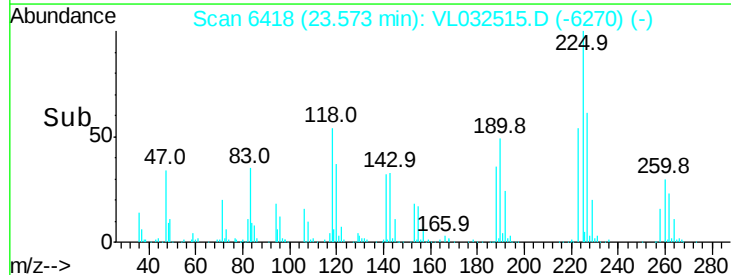
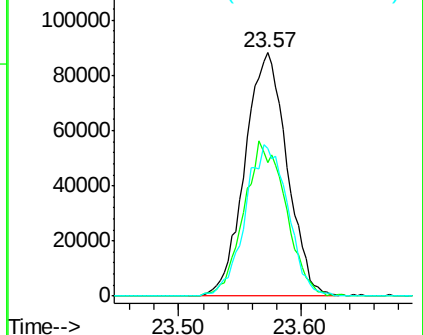
227 62.9 51.2 76.8

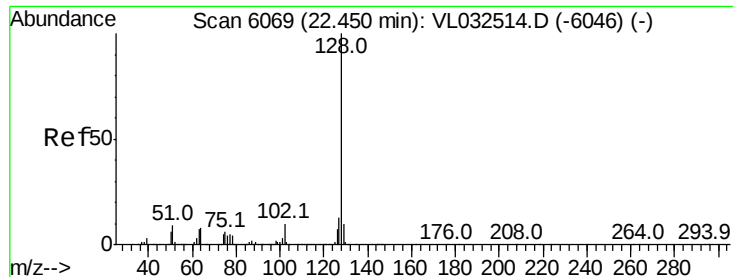


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 1.819 ppbv

RT: 22.45 min Scan# 6069

Delta R.T. -0.03 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

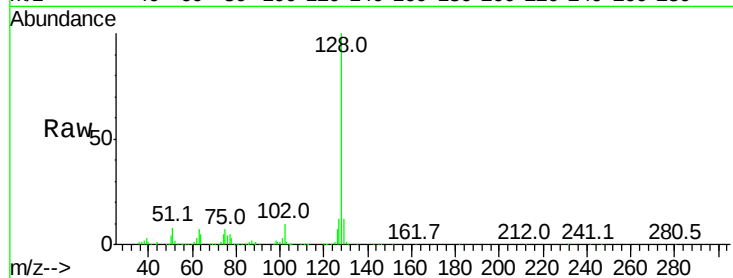
Tgt Ion:128 Resp: 693130

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.2

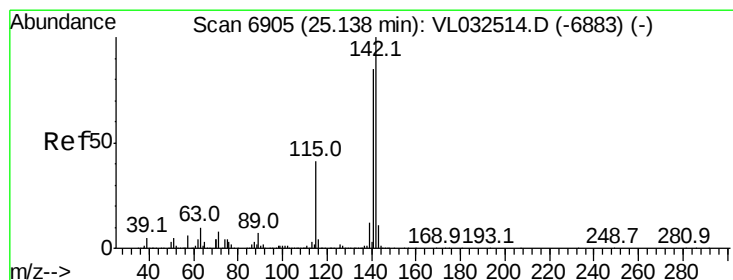
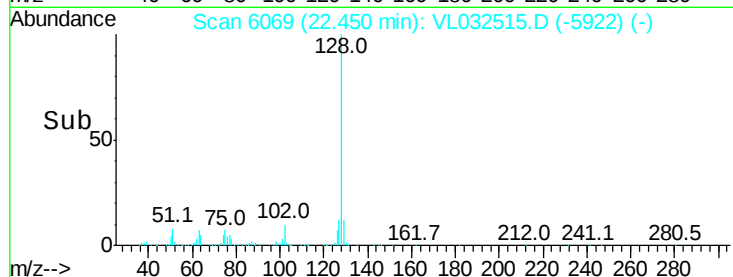
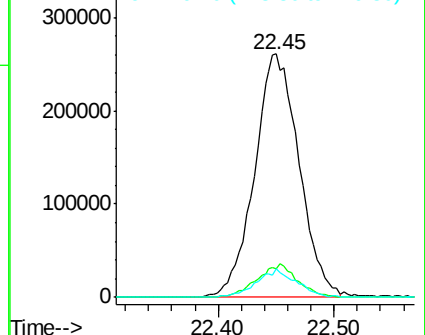
129 11.7 8.5 12.7



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: 0.696 ppbv

RT: 25.14 min Scan# 6905

Delta R.T. -0.01 min

Lab File: VL032515.D

Acq: 24 Sep 2018 17:07

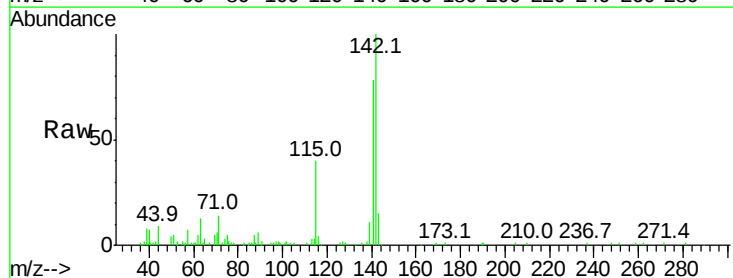
Tgt Ion:142 Resp: 70594

Ion Ratio Lower Upper

142 100

141 85.8 67.0 100.6

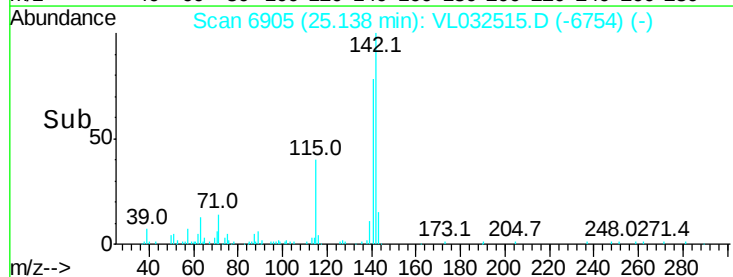
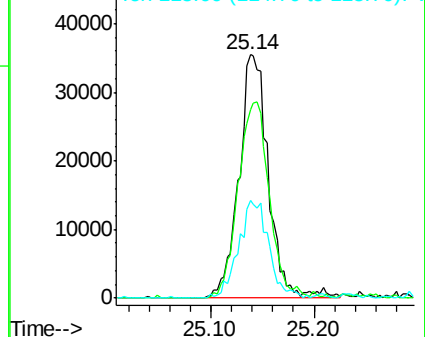
115 41.1 31.3 46.9

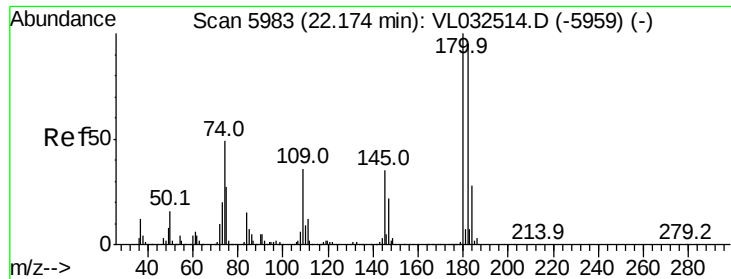


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

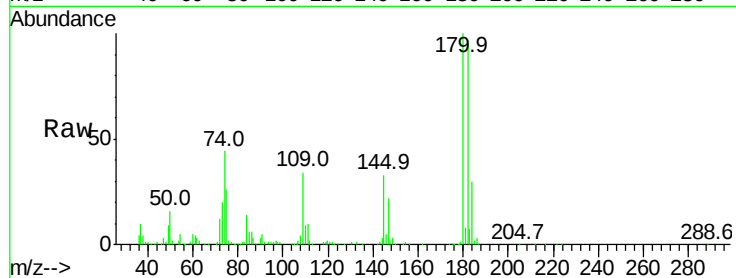




#81
 1,2,4-Trichlorobenzene
 Concen: 1.829 ppbv
 RT: 22.17 min Scan# 5983
 Delta R.T. -0.03 min
 Lab File: VL032515.D
 Acq: 24 Sep 2018 17:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.1	114.1
184	29.5	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

