

Data File : VL032348.D
Acq On : 15 Aug 2018 9:57
Operator : SY/AP
Sample : VSTDIC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Aug 15 11:37:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
QLast Update : Fri Jul 27 07:05:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2383700	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4760938	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.31	117	5899992	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	3690646	8.06	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	1874902	6.521	ppbv	97
3) Chlorodifluoromethane	3.05	51	2053544	8.616	ppbv	99
4) Chloromethane	3.21	50	1234555	8.555	ppbv	99
5) Vinyl Chloride	3.33	62	1160717	8.848	ppbv	100
6) Bromomethane	3.56	94	641869	8.911	ppbv	95
7) Chloroethane	3.64	64	409103	8.770	ppbv	97
8) Dichlorotetrafluoroethane	3.26	85	2408092	8.293	ppbv	99
9) Propene	3.07	41	982071	9.164	ppbv	99
10) Heptane	8.31	43	2864541	7.615	ppbv	99
11) Trichlorofluoromethane	4.05	101	2366468	8.617	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1636220	8.727	ppbv	99
13) Ethanol	3.69	45	236667	7.685	ppbv	98
14) Bromoethene	3.83	108	738344	8.971	ppbv	100
15) Acetone	3.95	43	1864538	8.299	ppbv	100
16) 1,3-Butadiene	3.40	39	869504	7.465	ppbv	85
17) tert-Butyl alcohol	4.41	59	344904	4.830	ppbv	99
18) 1,1-Dichloroethene	4.40	96	793070	9.117	ppbv	97
19) Isopropyl Alcohol	4.06	45	1451454	9.682	ppbv	99
20) Methylene Chloride	4.46	84	699435	7.746	ppbv	95
21) Allyl Chloride	4.53	41	1420940	9.271	ppbv	99
22) trans-1,2-Dichloroethene	5.02	96	875635	10.439	ppbv	100
23) Vinyl Acetate	5.21	43	4126637	10.239	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2821111	9.758	ppbv	100
25) Ethyl Acetate	5.82	43	4745638	9.413	ppbv	100
26) Hexane	5.84	57	2177043	9.543	ppbv	99
27) Carbon Disulfide	4.67	76	2104942	10.149	ppbv	99
28) Methyl tert-Butyl Ether	5.16	73	3168860	10.270	ppbv	100
29) Chloroform	5.90	83	3134853	9.447	ppbv	98
30) Cyclohexane	7.31	84	1711443	9.615	ppbv	98
31) cis-1,2-Dichloroethene	5.70	61	2194667	10.376	ppbv	98
32) 1,1,1-Trichloroethane	6.68	97	2981237	10.152	ppbv	99
34) 2-Butanone	5.38	43	3298484	10.704	ppbv	99
35) Carbon Tetrachloride	7.20	117	2976599	11.007	ppbv	98
36) Benzene	7.07	78	4304439	10.257	ppbv	99
37) 1,2-Dichloroethane	6.47	62	2412002	9.947	ppbv	100
38) Trichloroethene	8.03	130	1448807	8.933	ppbv	97
39) 1,2-Dichloropropane	7.80	63	1777765	8.420	ppbv	96
40) 1,4-Dioxane	8.02	88	595073	9.598	ppbv	83
41) Tetrahydrofuran	6.20	42	1917293	10.999	ppbv	98
42) Bromodichloromethane	7.98	83	3363188	8.567	ppbv	100
43) Methyl Methacrylate	8.20	69	1810818	8.989	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	7520931	8.264	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	2329326	9.979	ppbv	98
46) cis-1,3-Dichloropropene	8.90	75	2663259	9.312	ppbv	96
47) 1,1,2-Trichloroethane	9.68	97	1837905	8.955	ppbv	98
48) Dibromochloromethane	10.52	129	2688629	8.887	ppbv	100
49) Bromoform	13.28	173	2222243	8.921	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	4620400	8.498	ppbv	100
51) 2-Hexanone	10.34	43	4109469	9.918	ppbv	99
52) Tetrachloroethene	11.44	164	1261575	8.921	ppbv	96
53) Toluene	10.02	91	5167519	10.300	ppbv	100
54) 1,2-Dibromoethane	10.83	107	2511116	8.610	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.35	131	1897183	7.798	ppbv #	56
57) Chlorobenzene	12.37	112	3414004	7.441	ppbv	99
58) Ethyl Benzene	12.93	91	6243255	8.441	ppbv	99
59) m/p-Xylene	13.22	91	4098824	6.508	ppbv #	1
60) o-Xylene	13.92	91	4898501	7.934	ppbv	100
61) Styrene	13.76	104	3875061	8.527	ppbv	100
62) Isopropylbenzene	14.90	105	6940731	7.912	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.91	83	3684804	7.334	ppbv	100
64) n-propylbenzene	15.79	120	1839762	8.056	ppbv	100
65) tert-Butylbenzene	16.98	119	5826825	7.862	ppbv	100
66) Benzyl Chloride	17.22	91	4113372	9.312	ppbv	99
67) sec-Butylbenzene	17.53	105	8727455	7.864	ppbv	100
69) p-Isopropyltoluene	17.89	119	6886266	8.009	ppbv	100
70) n-Butylbenzene	18.78	91	7616838	7.673	ppbv	100
71) 2-Chlorotoluene	15.69	91	5587008	8.116	ppbv	100
72) 4-Ethyltoluene	16.07	105	5834038	8.431	ppbv	99
73) 1,3,5-Trimethylbenzene	16.23	105	5518771	8.102	ppbv	100
74) 1,2,4-Trimethylbenzene	17.00	105	5514012	7.679	ppbv	99
75) 1,3-Dichlorobenzene	17.24	146	3133175	7.535	ppbv	99
76) 1,4-Dichlorobenzene	17.38	146	3183870	7.980	ppbv	100
77) 1,2-Dichlorobenzene	18.06	146	3086162	7.553	ppbv	100
78) Hexachloro-1,3-Butadiene	23.61	225	938938	6.535	ppbv	100
79) Naphthalene	22.49	128	5411394	8.684	ppbv	99
80) Naphthalene,2-methyl-	25.16	142	2347355	9.519	ppbv	100
81) 1,2,4-Trichlorobenzene	22.22	180	2612628	8.390	ppbv	100

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

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MSVOA_L
ClientSampleId :
VSTDICCC010

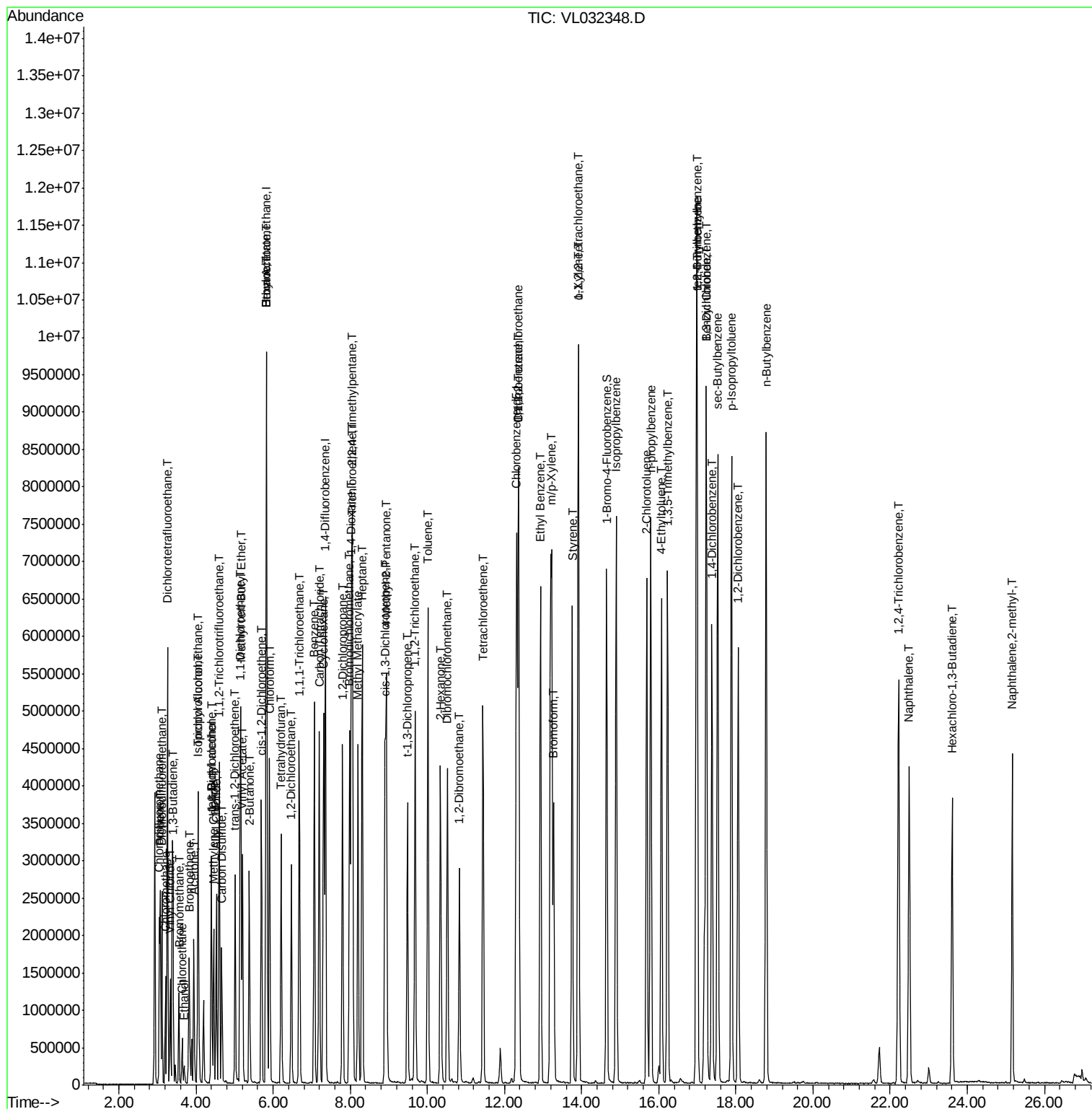
Quant Time: Aug 15 11:37:17 2018

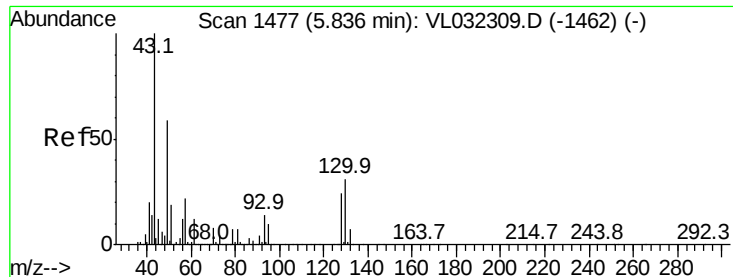
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL081518AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jul 27 07:05:37 2018

QLast Update : Fri Jul 27 07:05:37 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

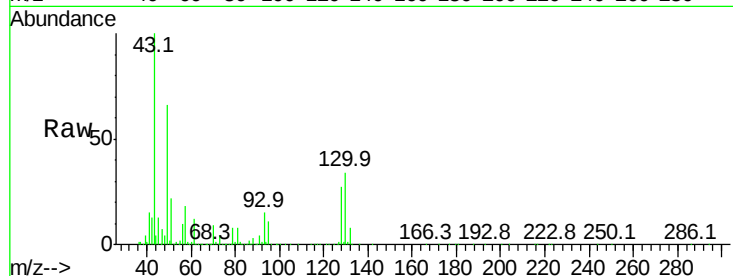
Tgt Ion: 49 Resp: 2383700

Ion	Ratio	Lower	Upper
49	100		
128	41.1	20.2	60.6
130	52.3	25.8	77.3

49 100

128 41.1 20.2 60.6

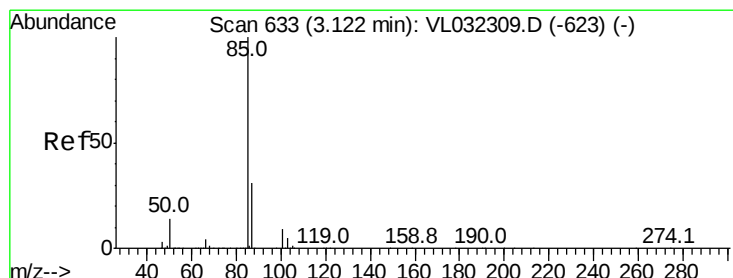
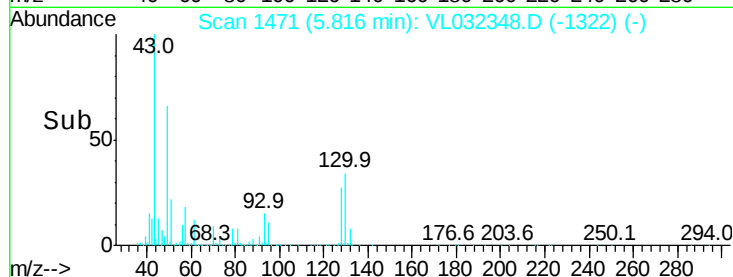
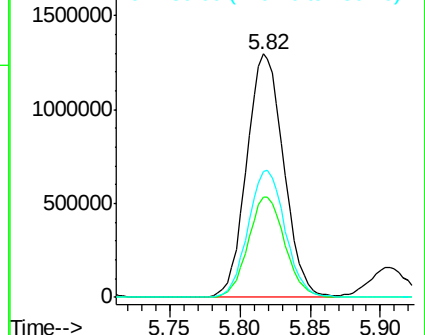
130 52.3 25.8 77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 6.521 ppbv

RT: 3.11 min Scan# 630

Delta R.T. -0.01 min

Lab File: VL032348.D

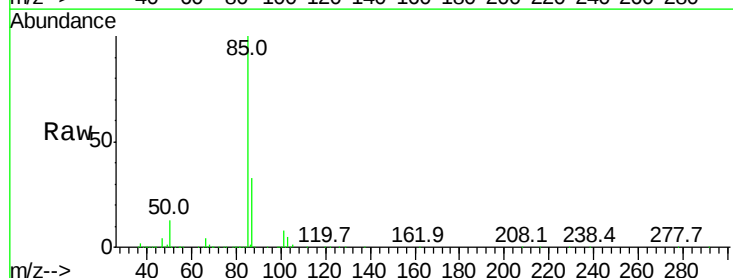
Acq: 15 Aug 2018 9:57

Tgt Ion: 85 Resp: 1874902

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.2	37.8

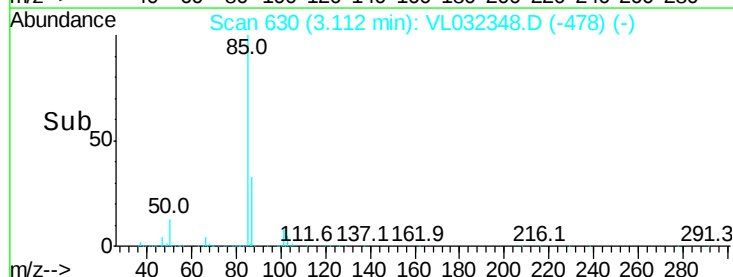
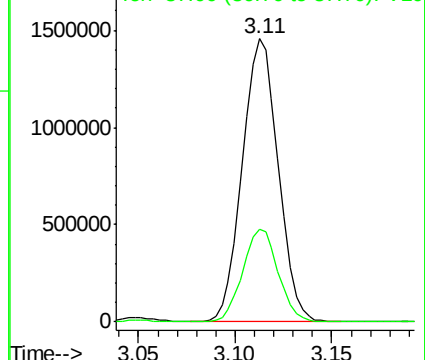
85 100

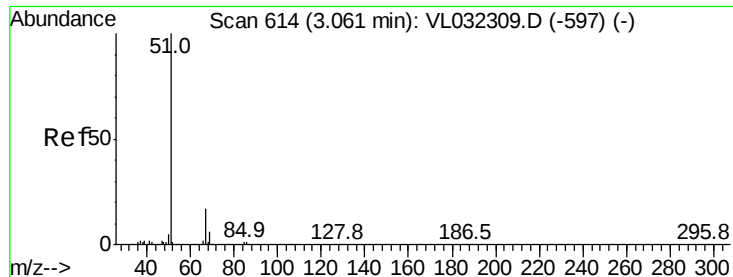
87 32.9 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.616 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

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ClientSampleId :

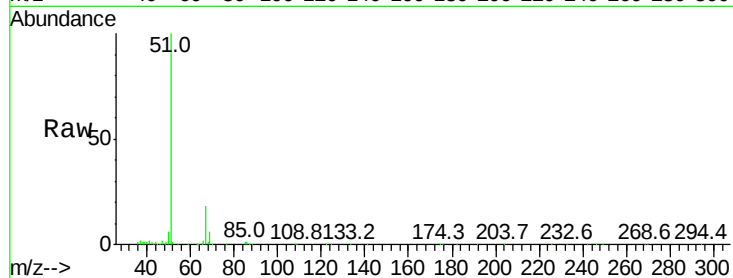
VSTDICCC010

Tgt Ion: 51 Resp: 2053544

Ion Ratio Lower Upper

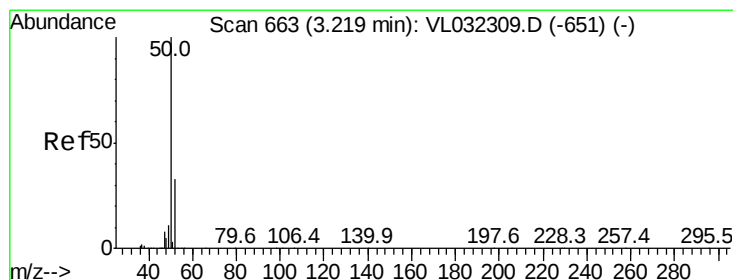
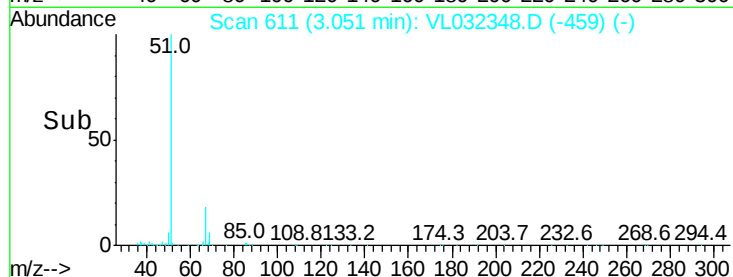
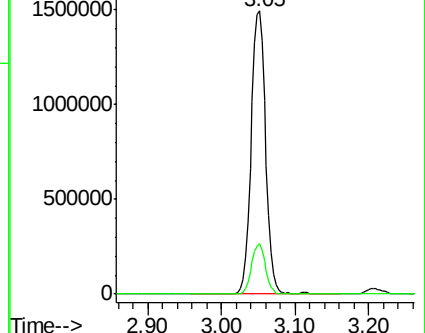
51 100

67 17.1 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.555 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL032348.D

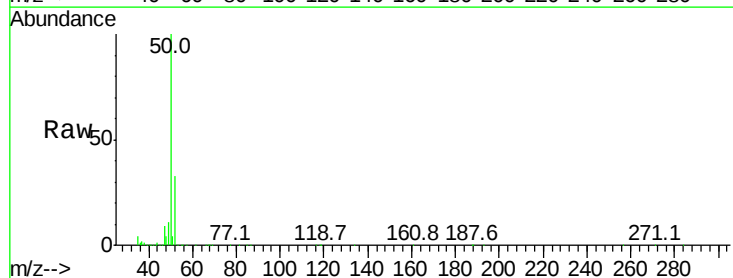
Acq: 15 Aug 2018 9:57

Tgt Ion: 50 Resp: 1234555

Ion Ratio Lower Upper

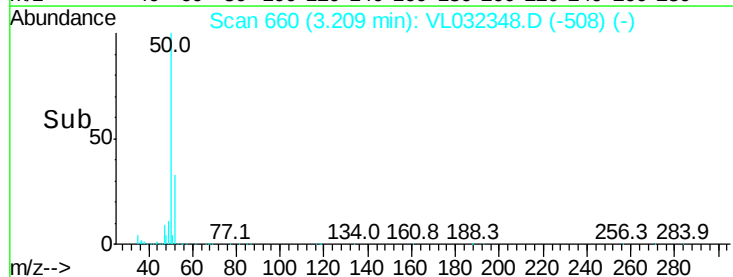
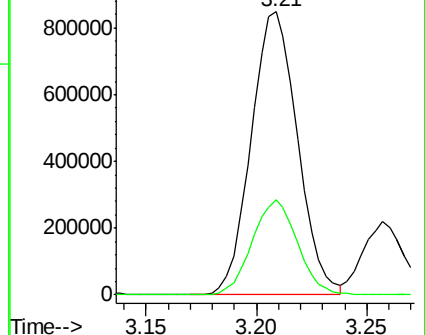
50 100

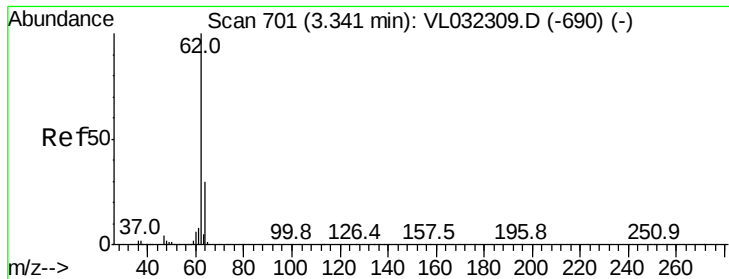
52 33.5 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.848 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

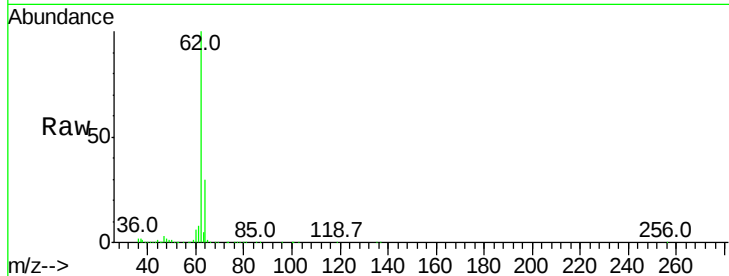
VSTDICCC010

Tgt Ion: 62 Resp: 1160717

Ion Ratio Lower Upper

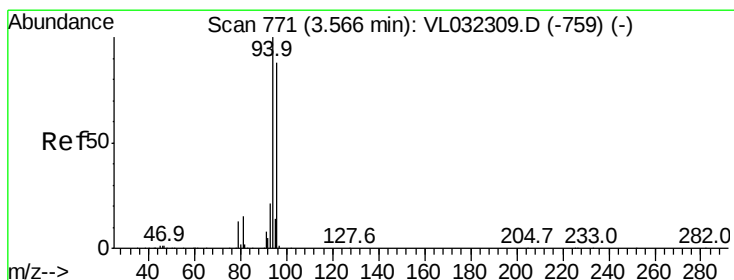
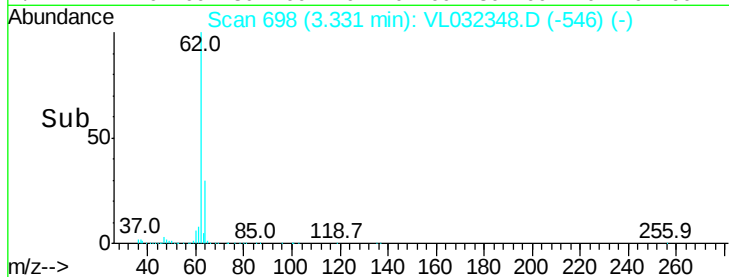
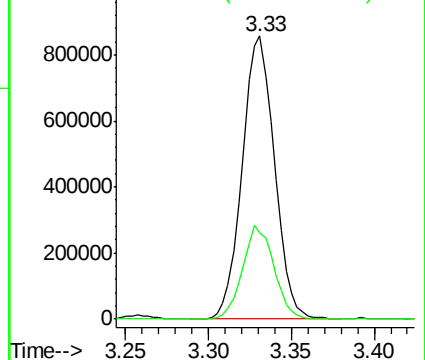
62 100

64 30.2 24.1 36.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.911 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.01 min

Lab File: VL032348.D

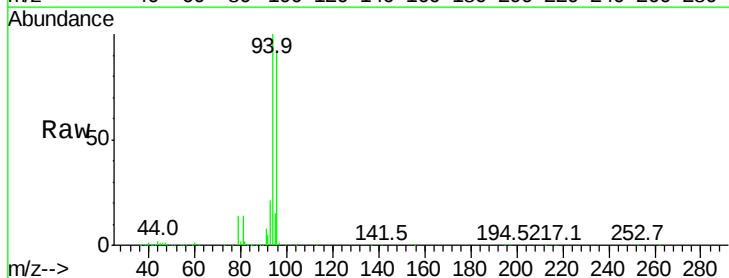
Acq: 15 Aug 2018 9:57

Tgt Ion: 94 Resp: 641869

Ion Ratio Lower Upper

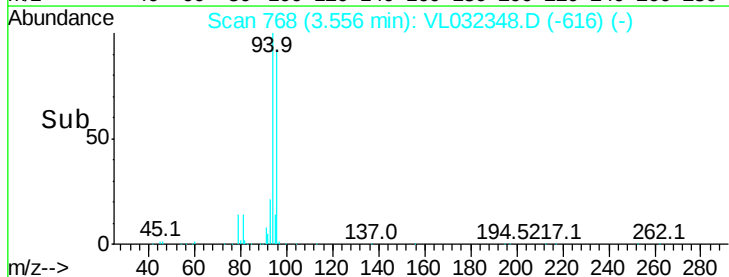
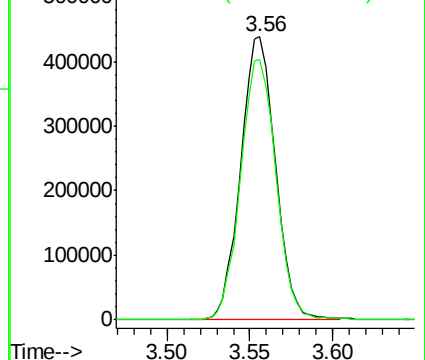
94 100

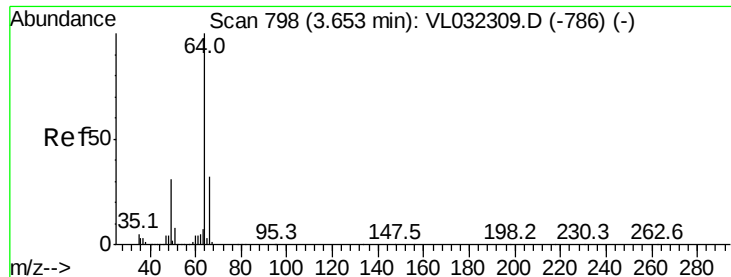
96 92.1 70.2 105.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.770 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

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ClientSampleId :

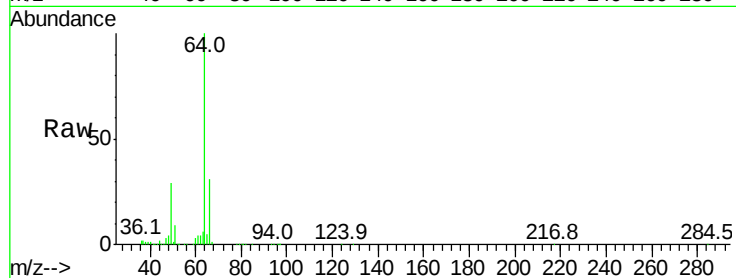
VSTDICCC010

Tgt Ion: 64 Resp: 409103

Ion Ratio Lower Upper

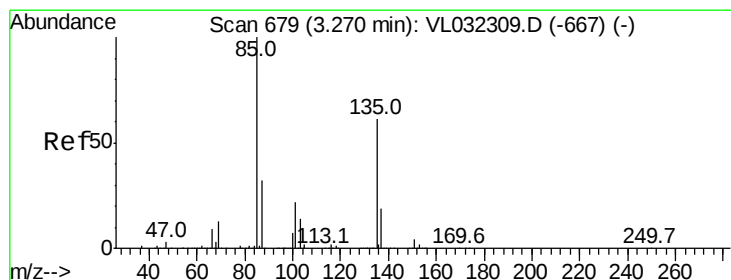
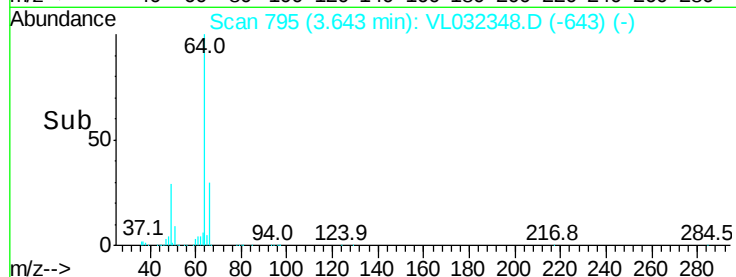
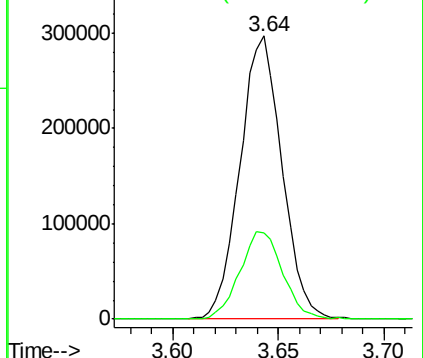
64 100

66 30.7 25.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.293 ppbv

RT: 3.26 min Scan# 675

Delta R.T. -0.01 min

Lab File: VL032348.D

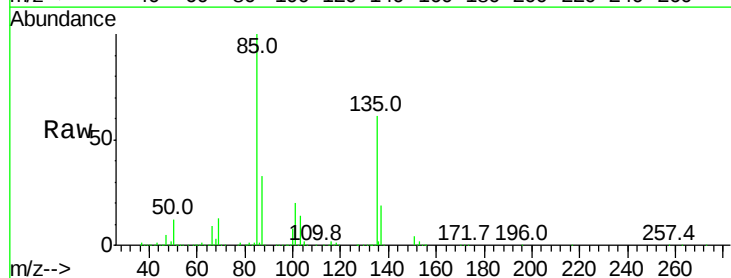
Acq: 15 Aug 2018 9:57

Tgt Ion: 85 Resp: 2408092

Ion Ratio Lower Upper

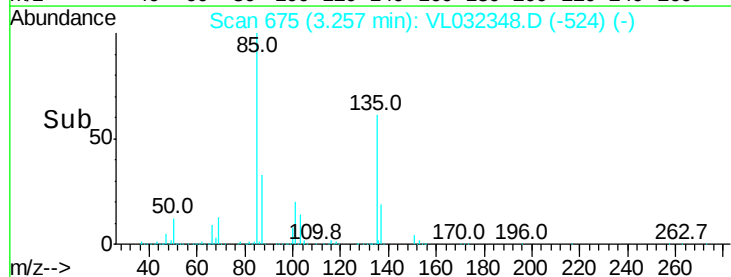
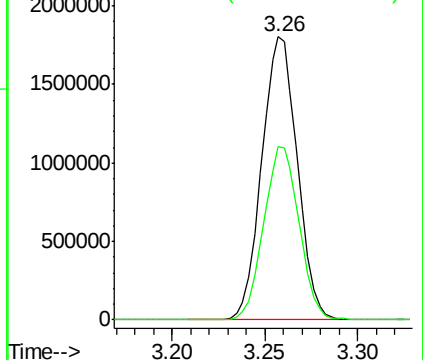
85 100

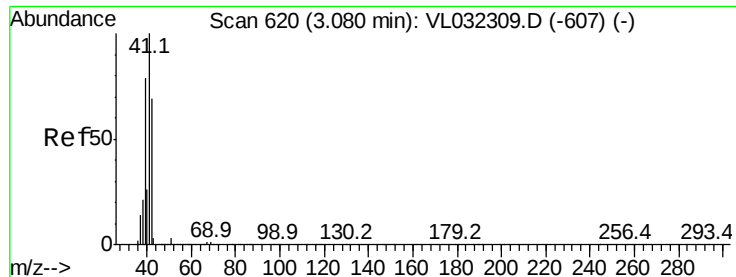
135 61.3 48.7 73.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.164 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

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ClientSampleId :

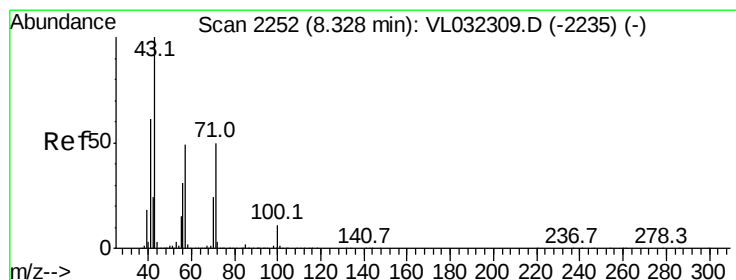
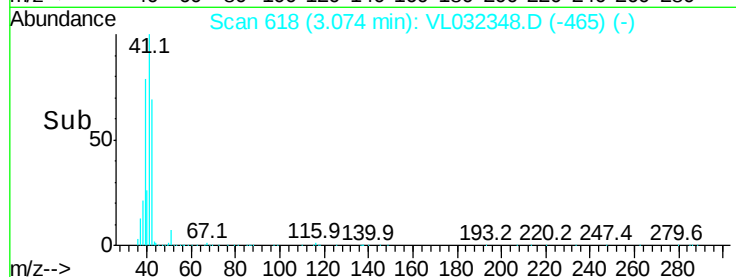
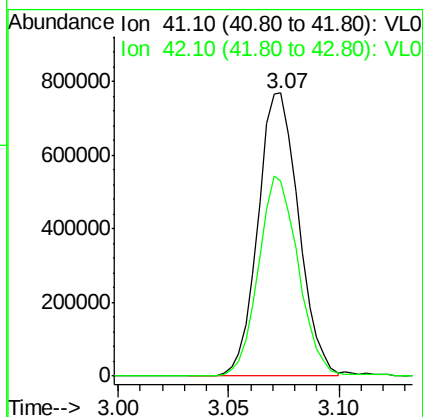
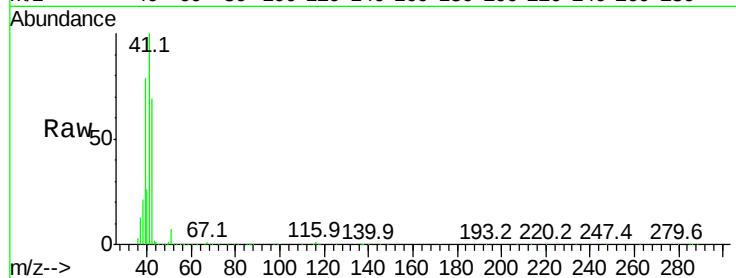
VSTDICCC010

Tgt Ion: 41 Resp: 982071

Ion Ratio Lower Upper

41 100

42 69.9 56.8 85.2



#10

Heptane

Concen: 7.615 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. -0.02 min

Lab File: VL032348.D

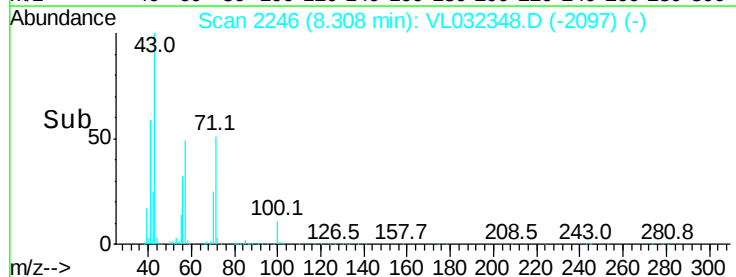
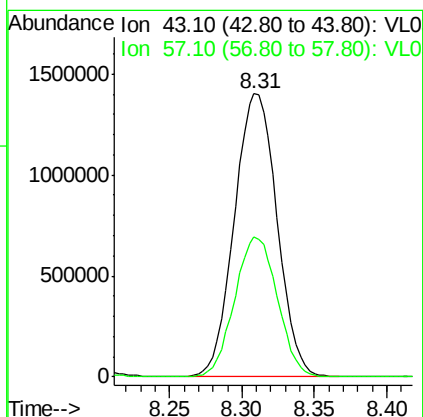
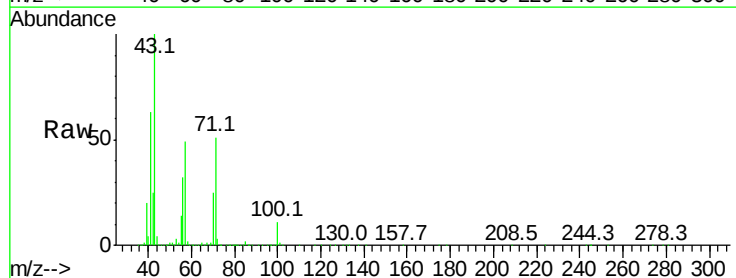
Acq: 15 Aug 2018 9:57

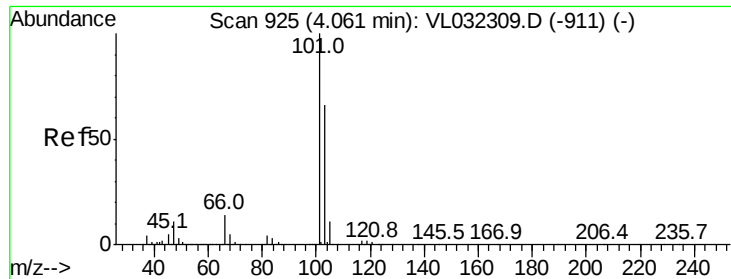
Tgt Ion: 43 Resp: 2864541

Ion Ratio Lower Upper

43 100

57 49.4 39.0 58.4





#11

Trichlorofluoromethane

Concen: 8.617 ppbv

RT: 4.05 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

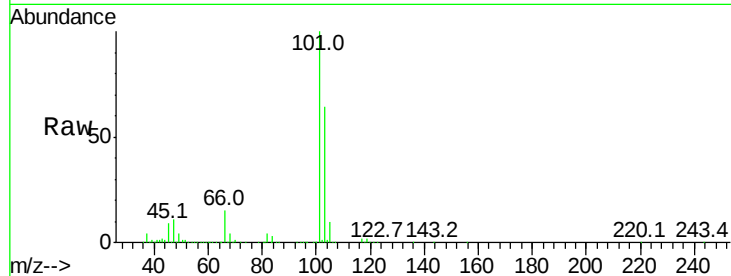
VSTDICCC010

Tgt Ion:101 Resp: 2366468

Ion Ratio Lower Upper

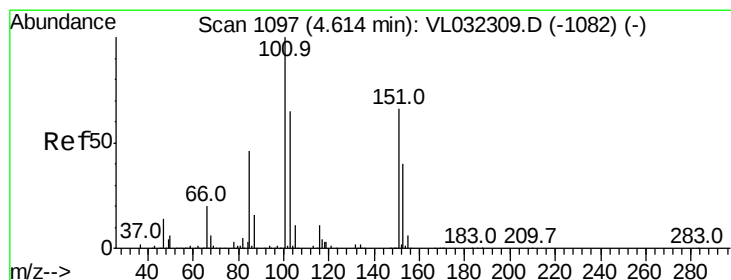
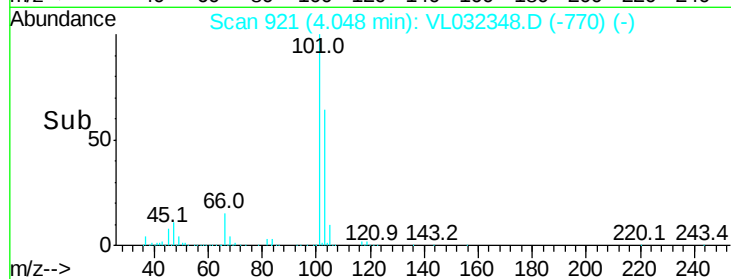
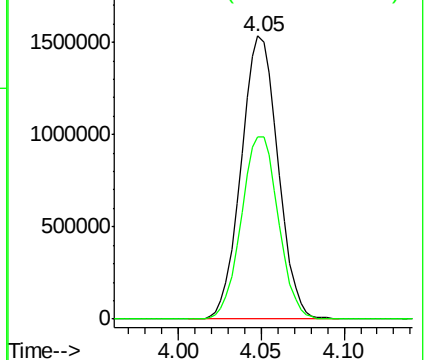
101 100

103 64.2 52.6 78.8



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: 8.727 ppbv

RT: 4.60 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VL032348.D

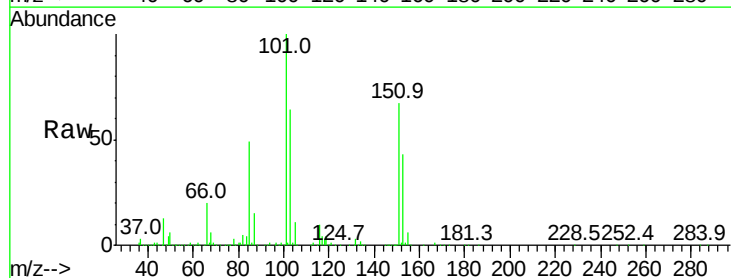
Acq: 15 Aug 2018 9:57

Tgt Ion:101 Resp: 1636220

Ion Ratio Lower Upper

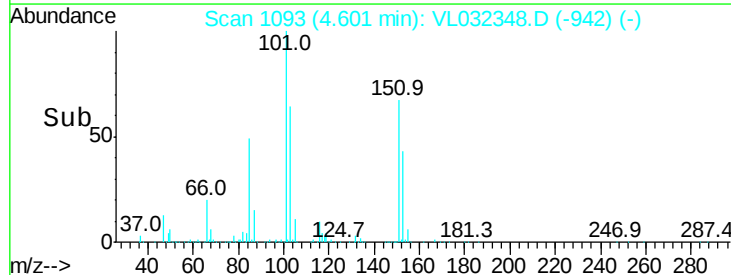
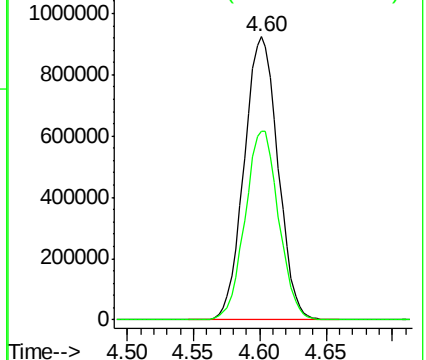
101 100

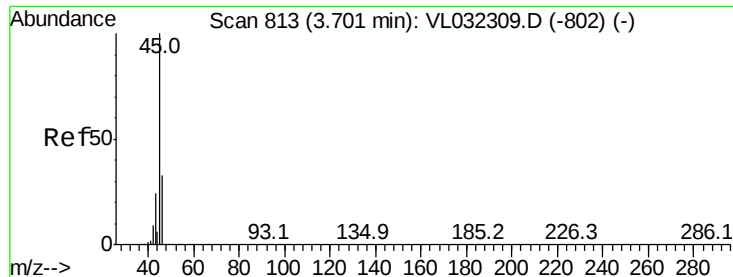
151 66.4 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.685 ppbv

RT: 3.69 min Scan# 810

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

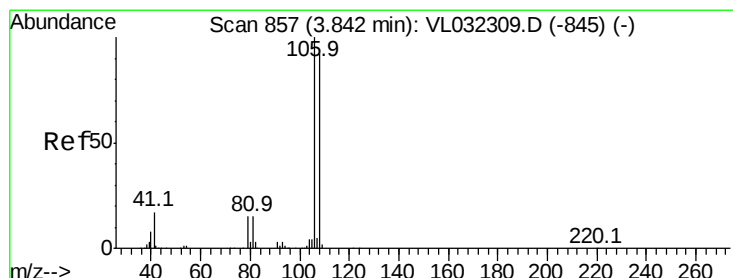
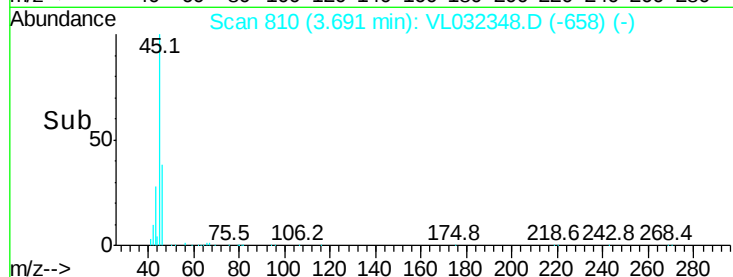
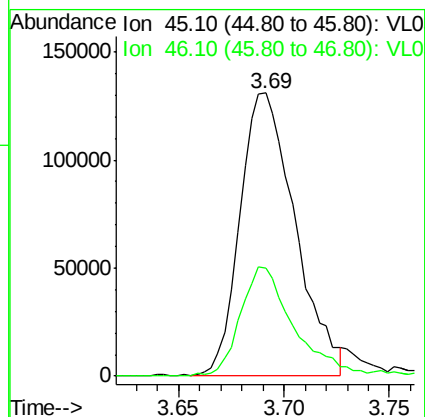
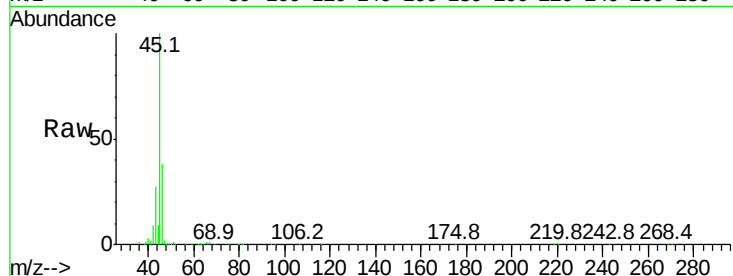
VSTDICCC010

Tgt Ion: 45 Resp: 236667

Ion Ratio Lower Upper

45 100

46 39.0 15.2 60.6



#14

Bromoethene

Concen: 8.971 ppbv

RT: 3.83 min Scan# 853

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

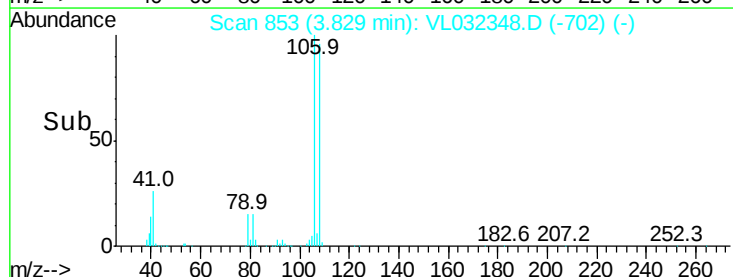
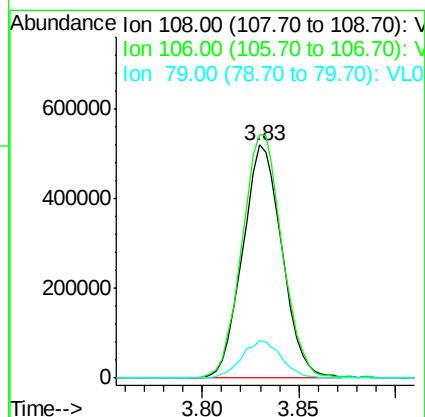
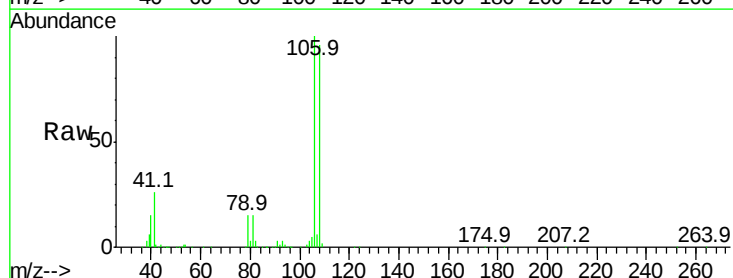
Tgt Ion: 108 Resp: 738344

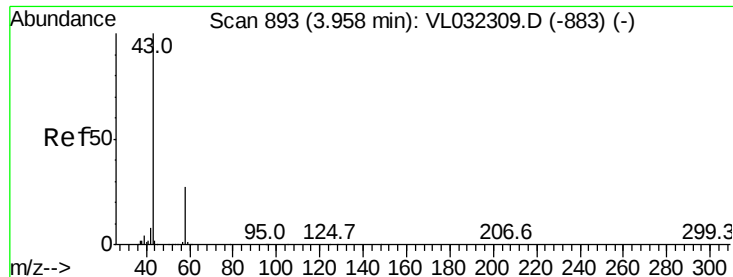
Ion Ratio Lower Upper

108 100

106 107.1 86.0 129.0

79 16.4 12.8 19.2





#15

Acetone

Concen: 8.299 ppbv

RT: 3.95 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

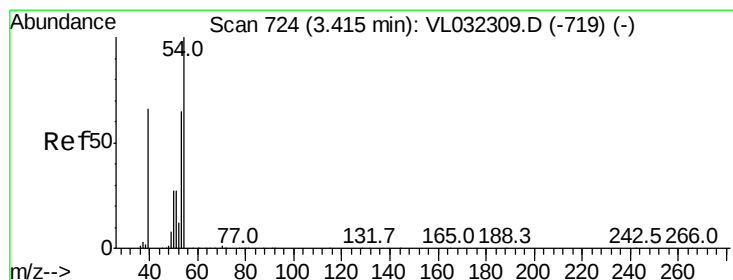
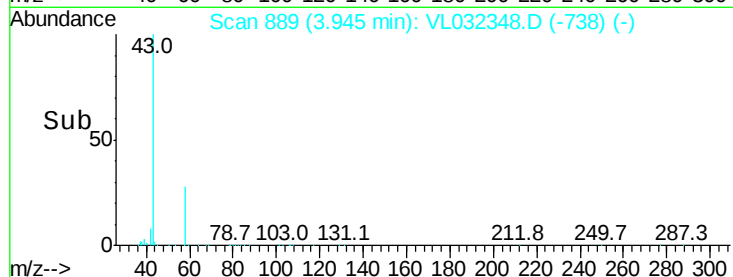
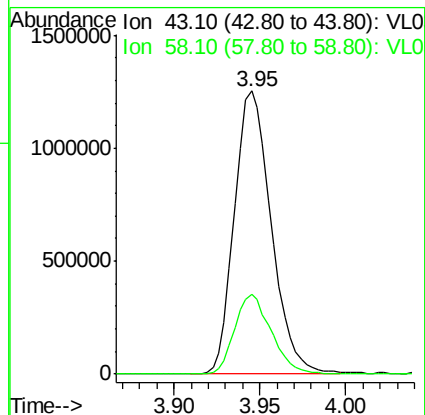
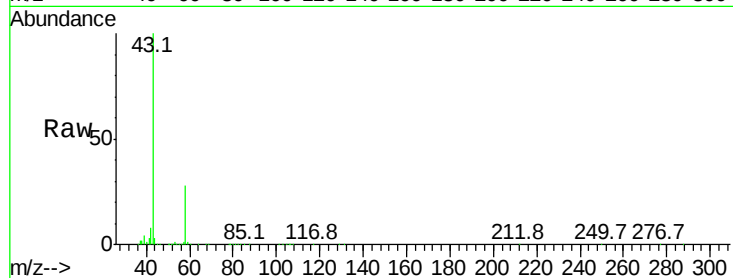
VSTDICCC010

Tgt Ion: 43 Resp: 1864538

Ion Ratio Lower Upper

43 100

58 28.0 22.5 33.7



#16

1,3-Butadiene

Concen: 7.465 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.01 min

Lab File: VL032348.D

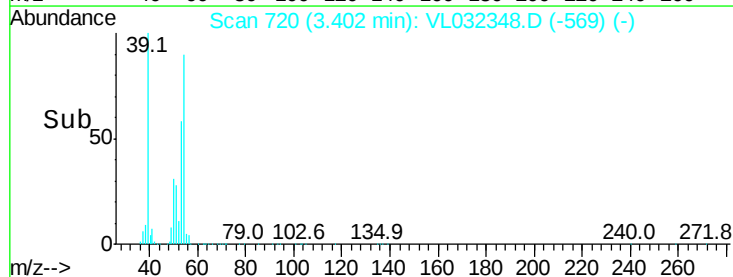
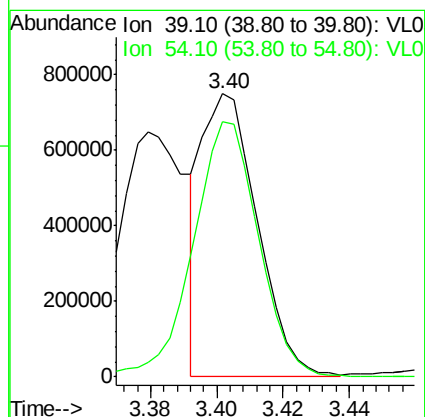
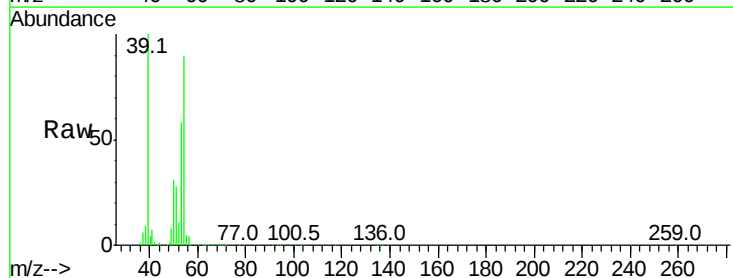
Acq: 15 Aug 2018 9:57

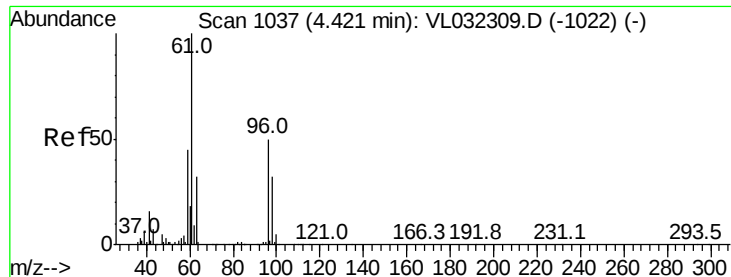
Tgt Ion: 39 Resp: 869504

Ion Ratio Lower Upper

39 100

54 106.9 74.3 111.5

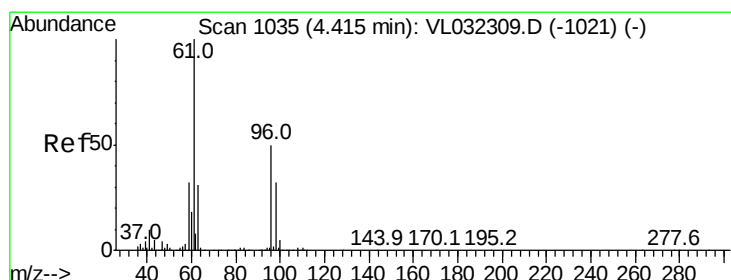
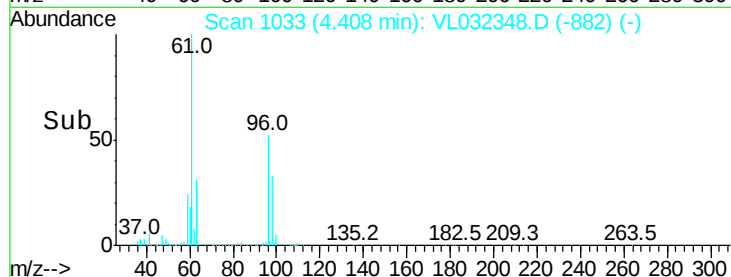
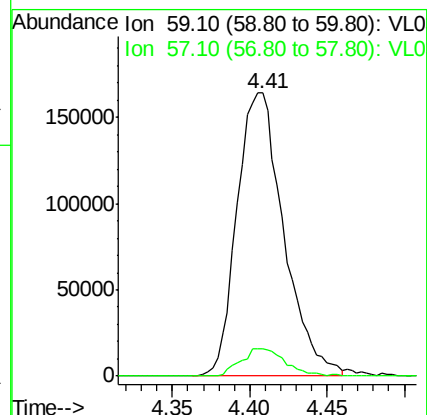
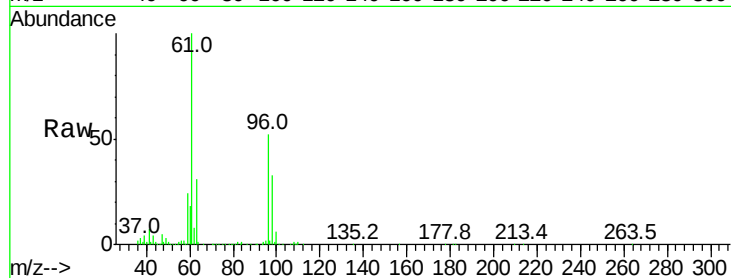




#17
tert-Butyl alcohol
Concen: 4.830 ppbv
RT: 4.41 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

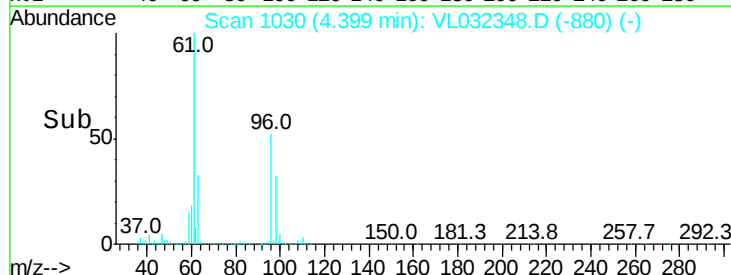
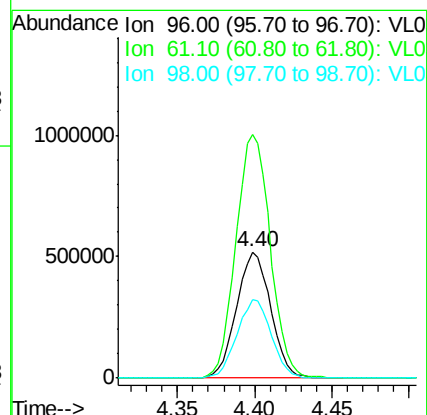
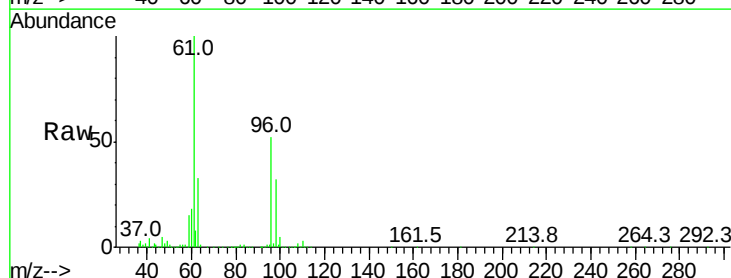
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

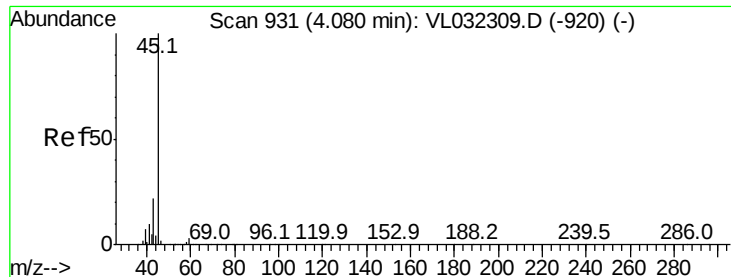
Tgt Ion: 59 Resp: 344904
Ion Ratio Lower Upper
59 100
57 9.5 8.0 12.0



#18
1,1-Dichloroethene
Concen: 9.117 ppbv
RT: 4.40 min Scan# 1030
Delta R.T. -0.02 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

Tgt Ion: 96 Resp: 793070
Ion Ratio Lower Upper
96 100
61 193.2 159.0 238.4
98 62.6 51.1 76.7





#19

Isopropyl Alcohol

Concen: 9.682 ppbv

RT: 4.06 min Scan# 926

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

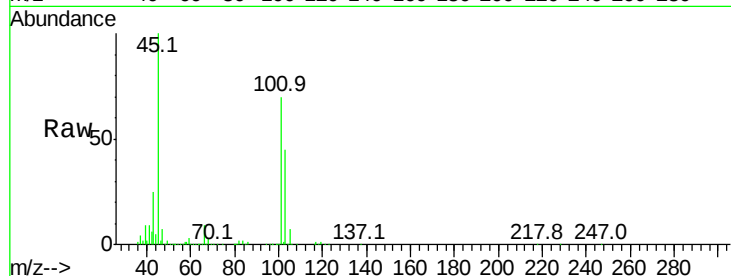
VSTDICCC010

Tgt Ion: 45 Resp: 1451454

Ion Ratio Lower Upper

45 100

58 1.7 1.5 2.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.06

800000

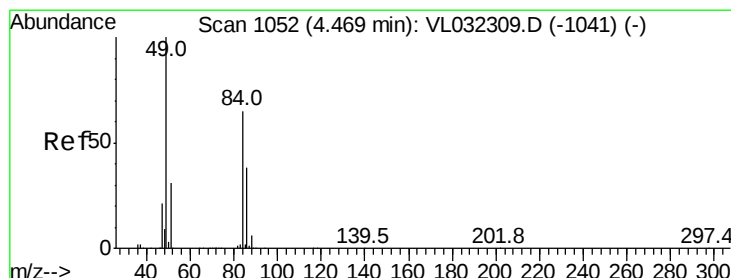
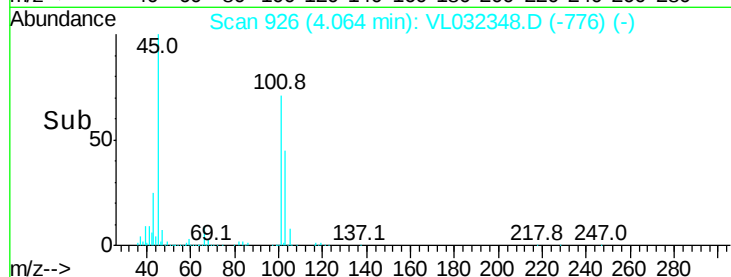
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 7.746 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Tgt Ion: 84 Resp: 699435

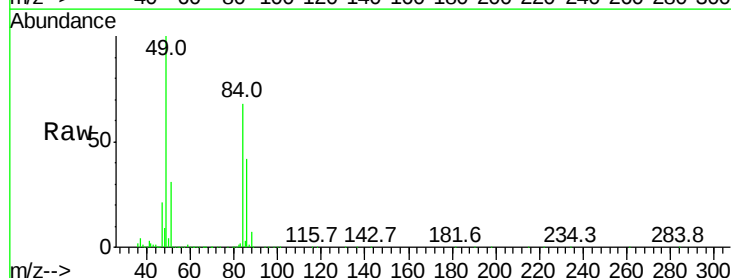
Ion Ratio Lower Upper

84 100

49 146.6 123.4 185.0

51 45.8 38.2 57.2

86 62.3 47.4 71.2



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

1000000

800000

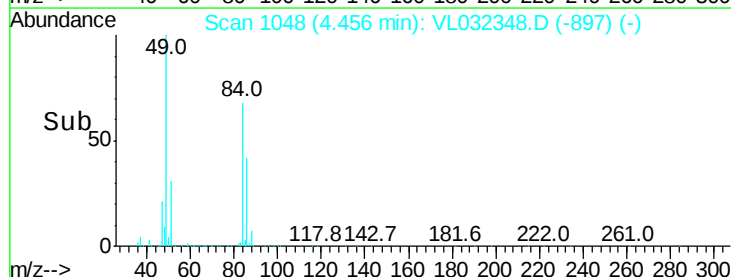
600000

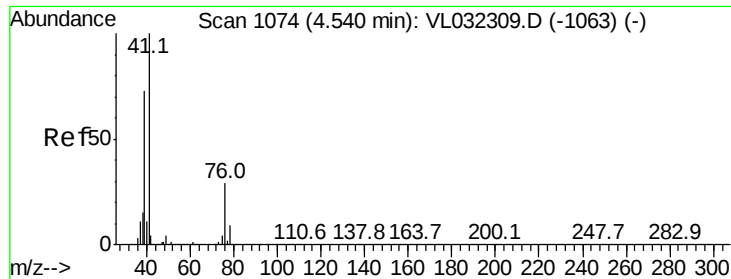
400000

200000

0

Time-->

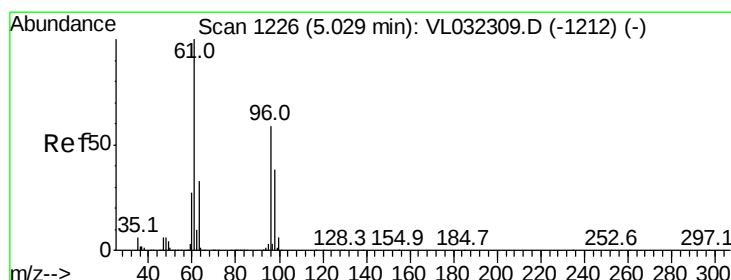
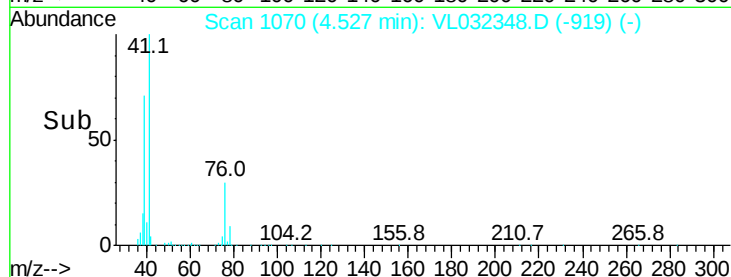
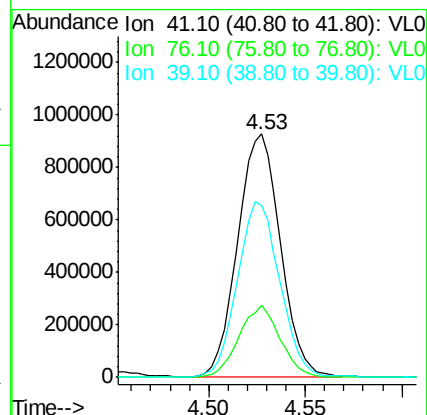
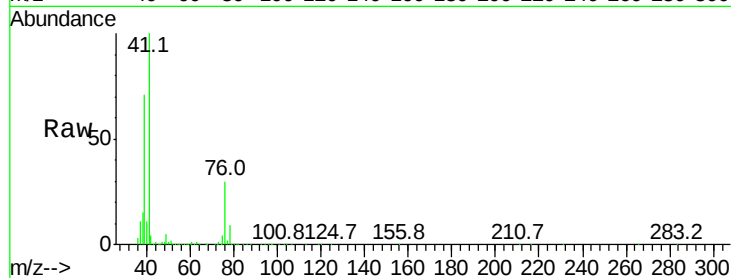




#21
 Allyl Chloride
 Concen: 9.271 ppbv
 RT: 4.53 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

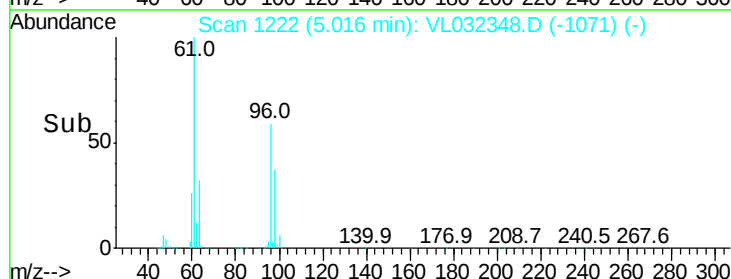
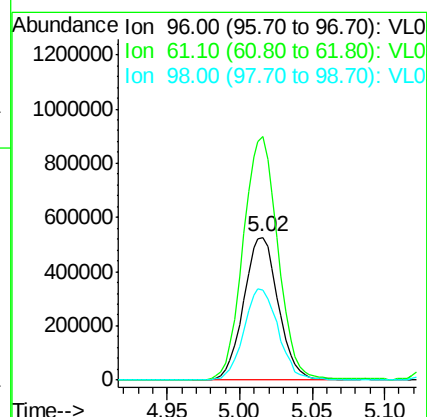
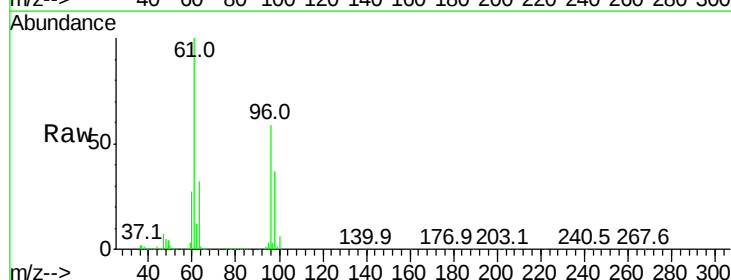
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

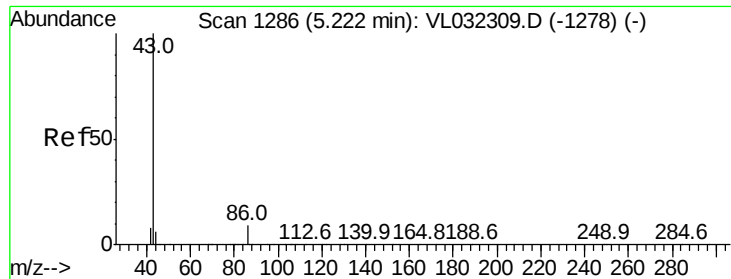
Tgt Ion: 41 Resp: 1420940
 Ion Ratio Lower Upper
 41 100
 76 28.6 23.1 34.7
 39 72.0 58.2 87.2



#22
 trans-1,2-Dichloroethene
 Concen: 10.439 ppbv
 RT: 5.02 min Scan# 1222
 Delta R.T. -0.01 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

Tgt Ion: 96 Resp: 875635
 Ion Ratio Lower Upper
 96 100
 61 170.8 136.5 204.7
 98 63.3 51.3 76.9





#23

Vinyl Acetate

Concen: 10.239 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. -0.02 min

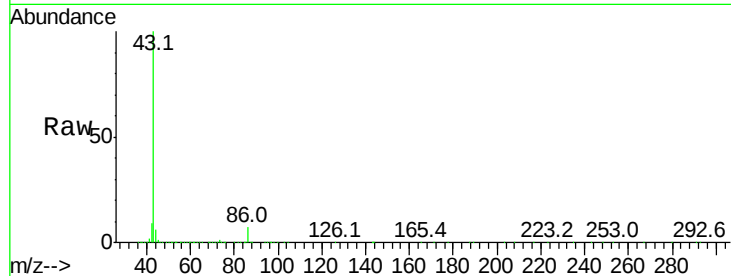
Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 4126637

Ion	Ratio	Lower	Upper
43	100		
86	6.9	6.3	9.5
42	8.8	7.0	10.4
44	5.7	4.6	7.0

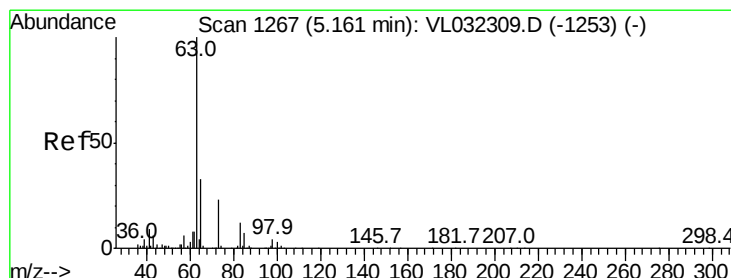
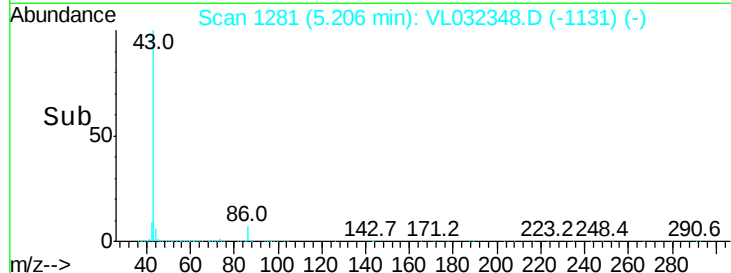
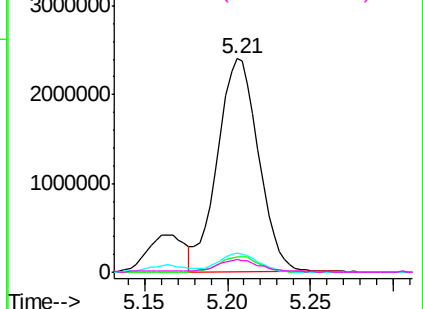


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.758 ppbv

RT: 5.14 min Scan# 1261

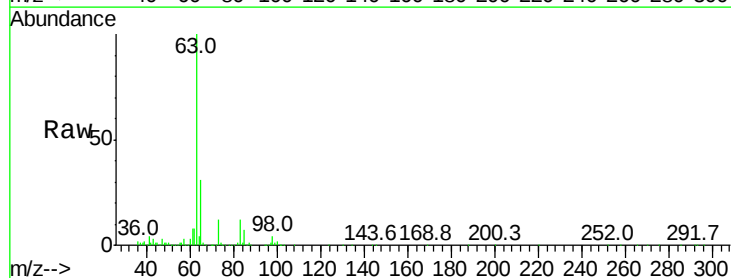
Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Tgt Ion: 63 Resp: 2821111

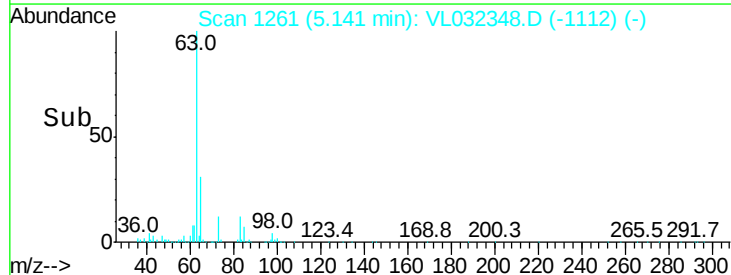
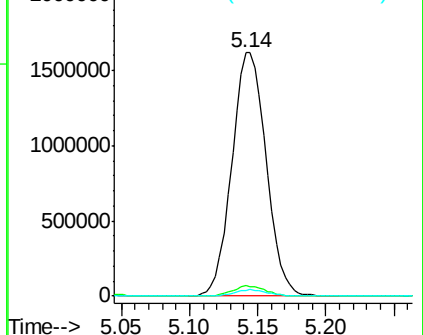
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.1	6.5
100	2.4	1.3	3.8

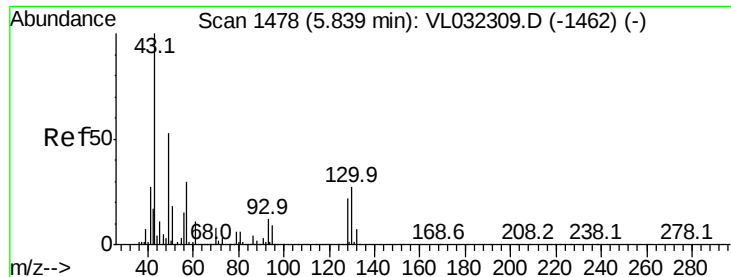


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



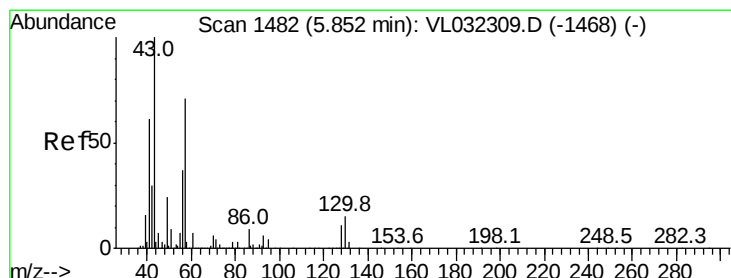
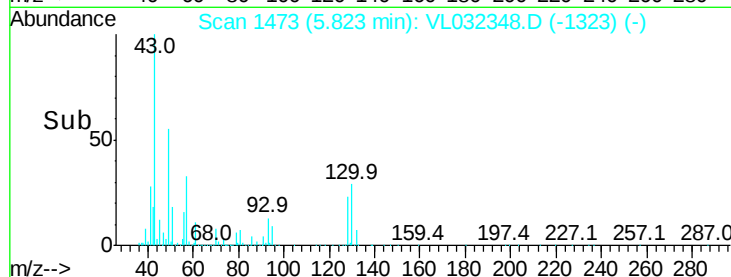
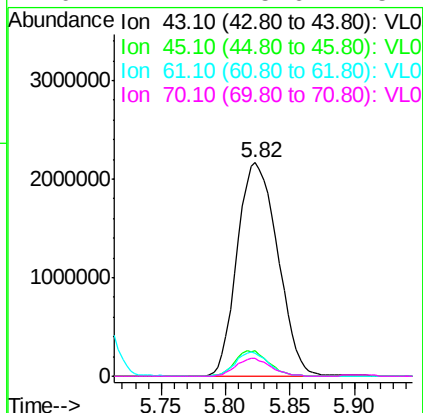
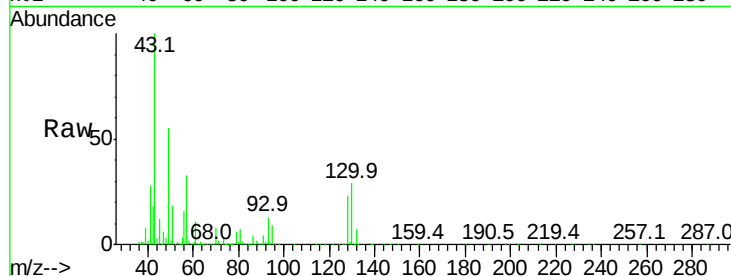


#25
Ethyl Acetate
Concen: 9.413 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.02 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 4745638

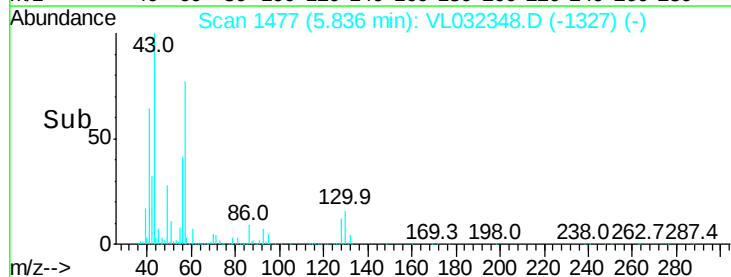
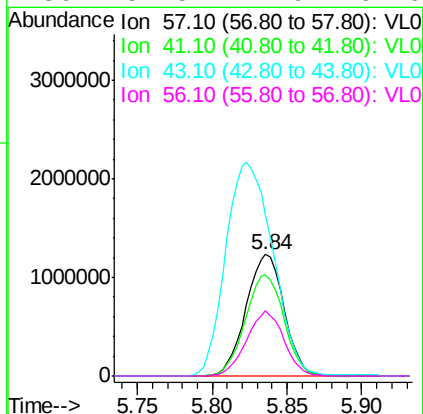
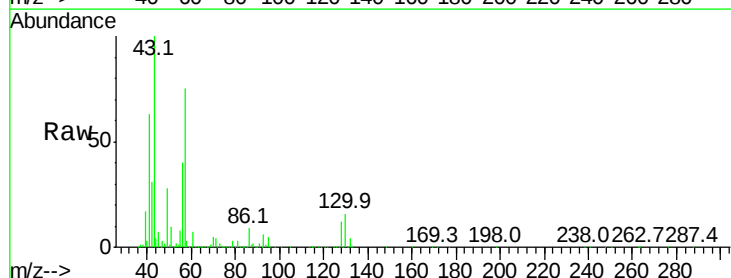
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	9.3	7.4	11.0
70	7.2	5.6	8.4

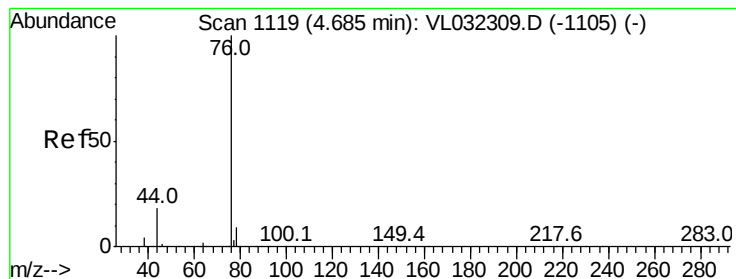


#26
Hexane
Concen: 9.543 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.02 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

Tgt Ion: 57 Resp: 2177043

Ion	Ratio	Lower	Upper
57	100		
41	85.0	68.1	102.1
43	219.1	177.4	266.2
56	52.5	41.9	62.9





#27

Carbon Disulfide

Concen: 10.149 ppbv

RT: 4.67 min Scan# 1114

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

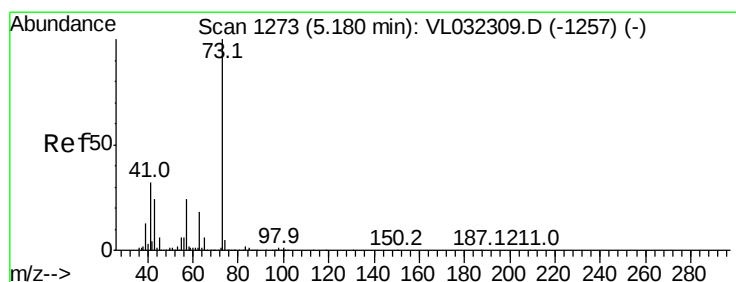
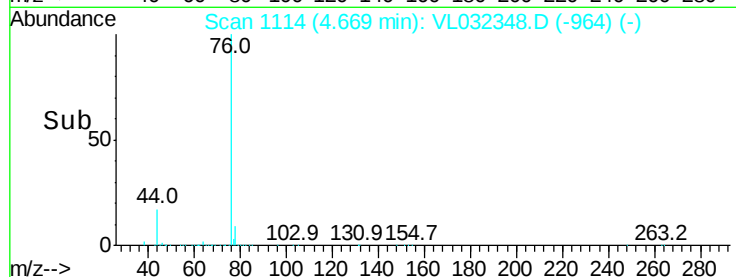
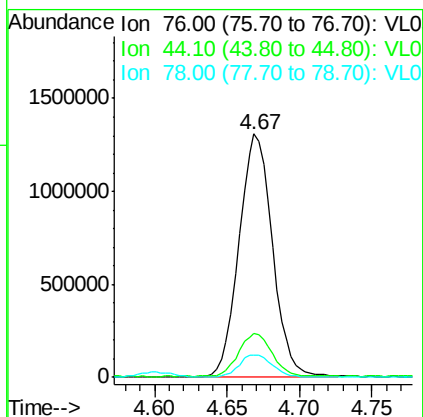
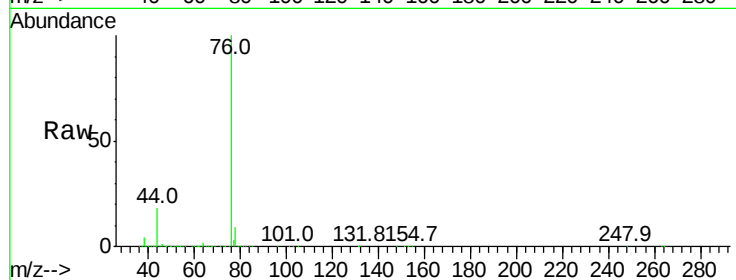
Tgt Ion: 76 Resp: 2104942

Ion Ratio Lower Upper

76 100

44 18.0 14.0 21.0

78 9.2 7.5 11.3



#28

Methyl tert-Butyl Ether

Concen: 10.270 ppbv

RT: 5.16 min Scan# 1268

Delta R.T. -0.02 min

Lab File: VL032348.D

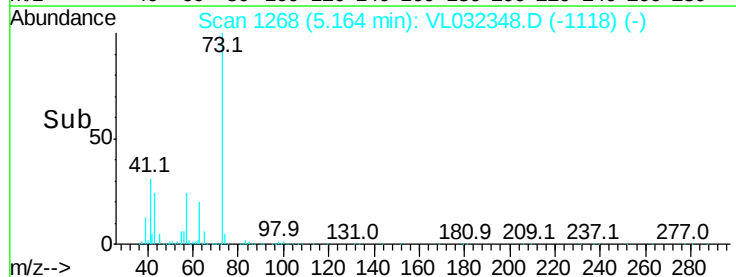
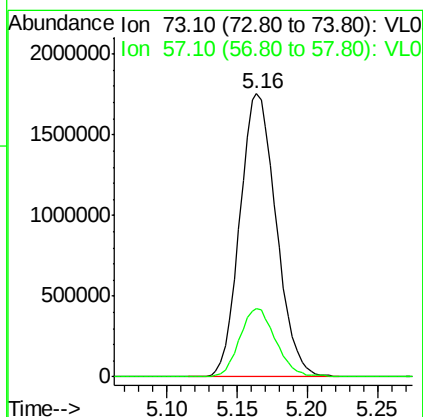
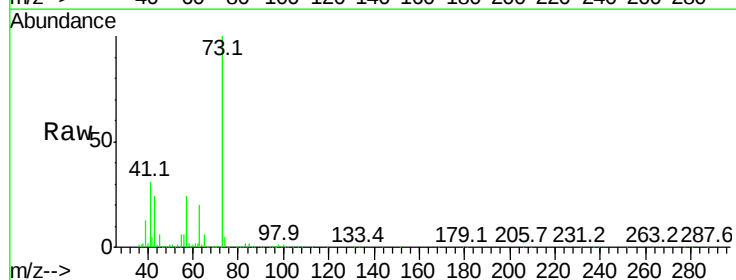
Acq: 15 Aug 2018 9:57

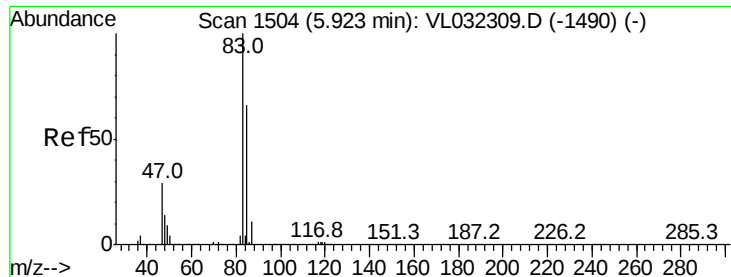
Tgt Ion: 73 Resp: 3168860

Ion Ratio Lower Upper

73 100

57 24.1 19.4 29.0





#29

Chloroform

Concen: 9.447 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

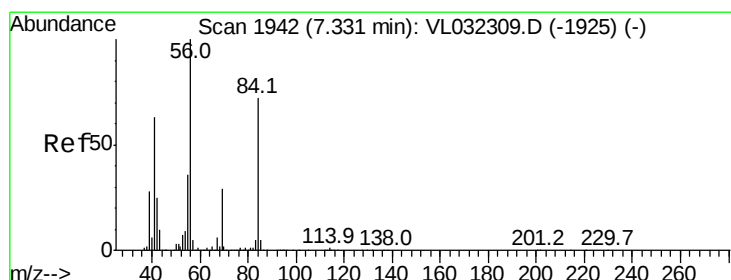
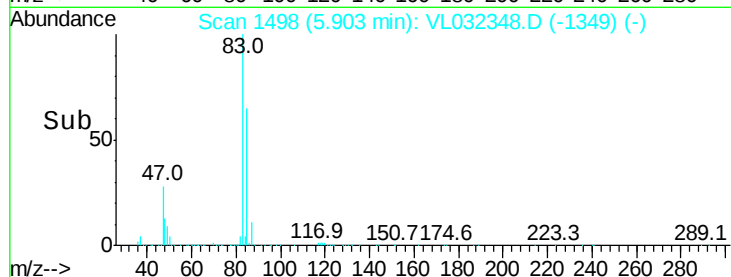
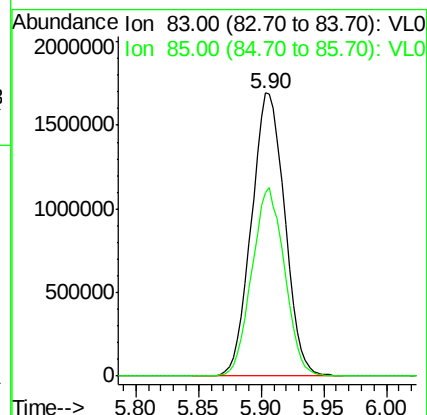
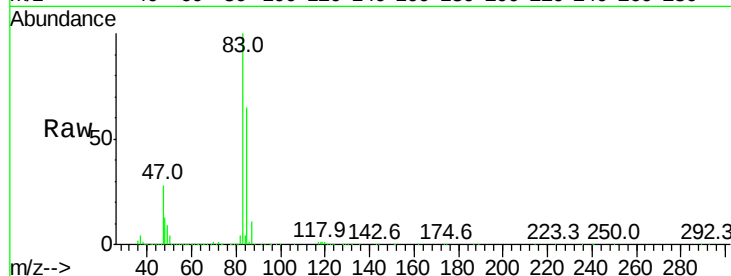
VSTDICCC010

Tgt Ion: 83 Resp: 3134853

Ion Ratio Lower Upper

83 100

85 64.5 52.9 79.3



#30

Cyclohexane

Concen: 9.615 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

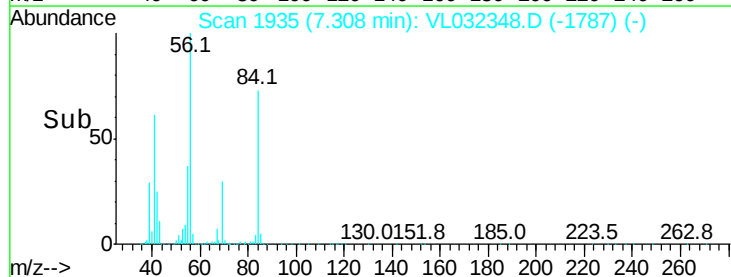
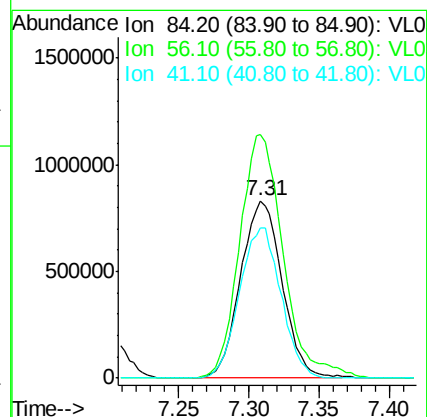
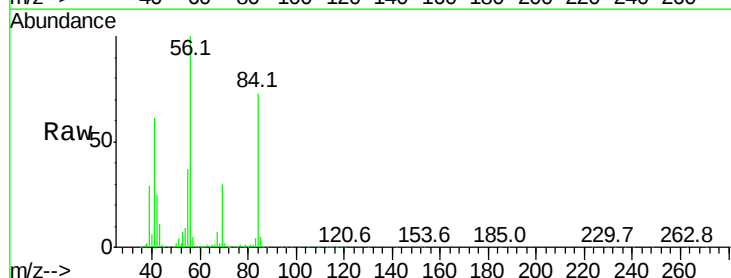
Tgt Ion: 84 Resp: 1711443

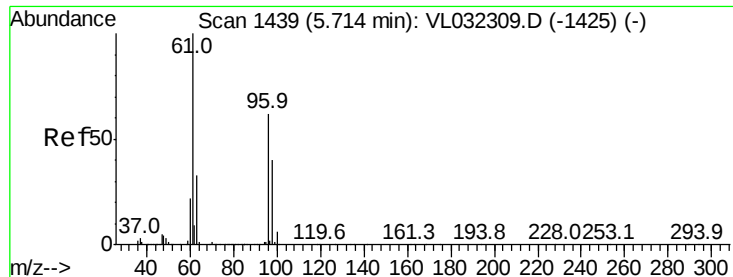
Ion Ratio Lower Upper

84 100

56 144.6 116.8 175.2

41 84.9 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 10.376 ppbv

RT: 5.70 min Scan# 1434

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

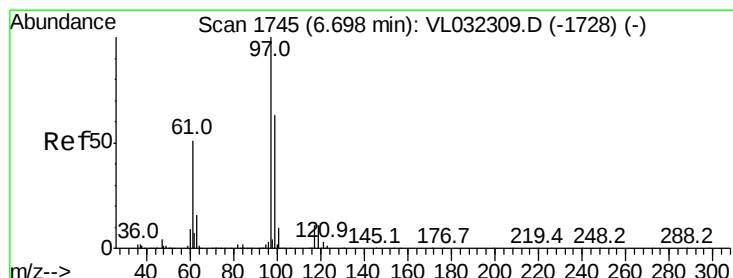
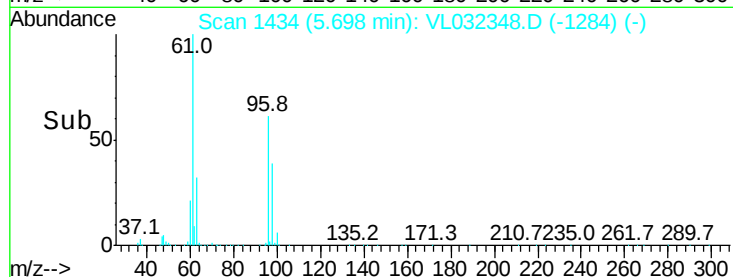
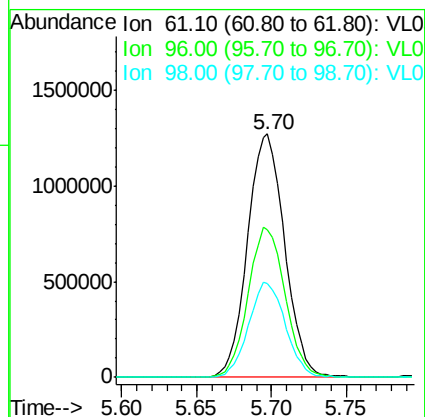
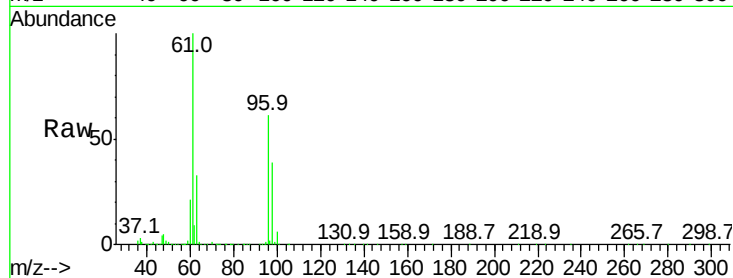
Tgt Ion: 61 Resp: 2194667

Ion	Ratio	Lower	Upper
61	100		
96	60.6	49.8	74.6
98	38.7	31.8	47.6

61 100

96 60.6 49.8 74.6

98 38.7 31.8 47.6



#32

1,1,1-Trichloroethane

Concen: 10.152 ppbv

RT: 6.68 min Scan# 1739

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

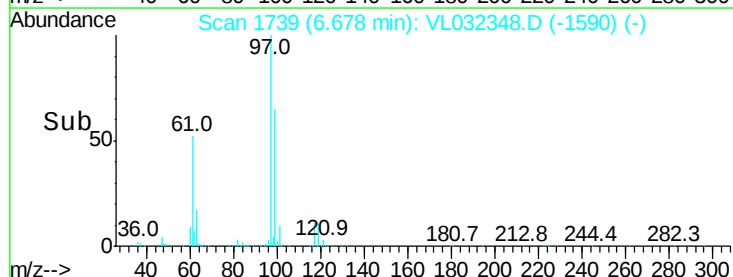
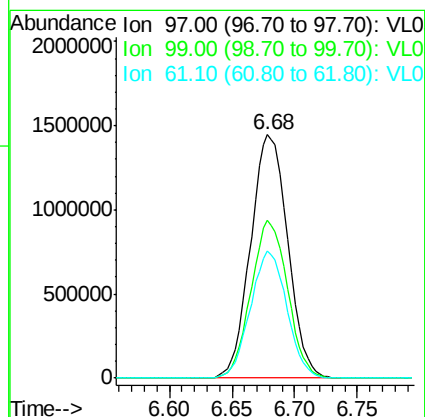
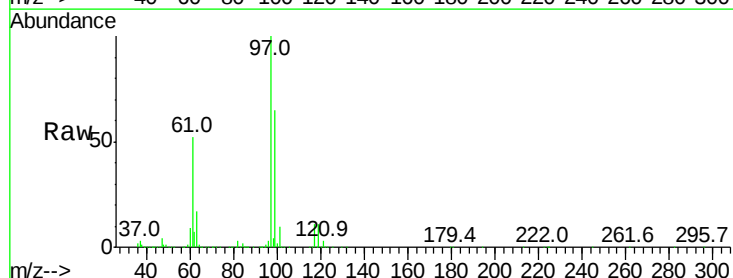
Tgt Ion: 97 Resp: 2981237

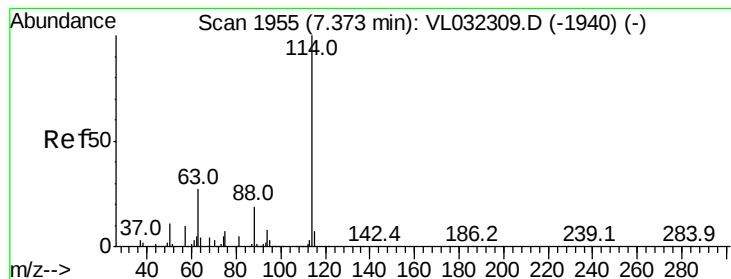
Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.9	76.3
61	51.4	41.8	62.6

97 100

99 63.9 50.9 76.3

61 51.4 41.8 62.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.35 min Scan# 1949

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

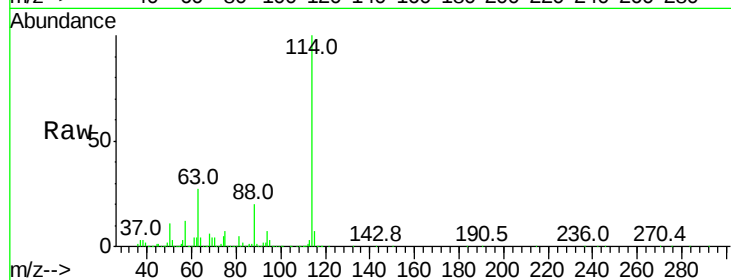
Tgt Ion:114 Resp: 4760938

Ion Ratio Lower Upper

114 100

63 27.5 22.4 33.6

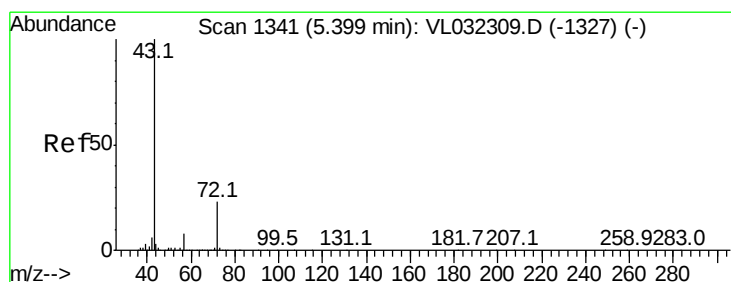
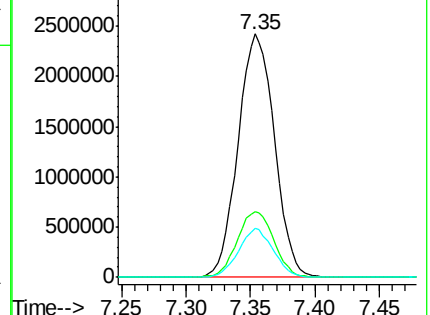
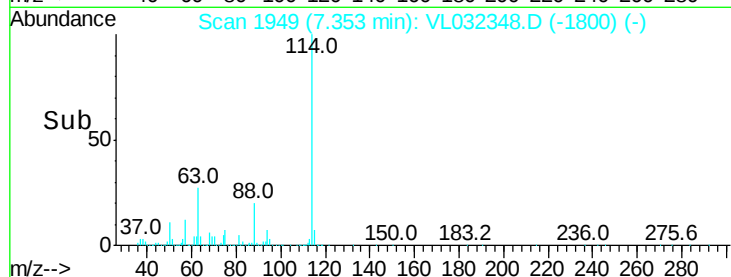
88 19.1 15.3 22.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.704 ppbv

RT: 5.38 min Scan# 1335

Delta R.T. -0.02 min

Lab File: VL032348.D

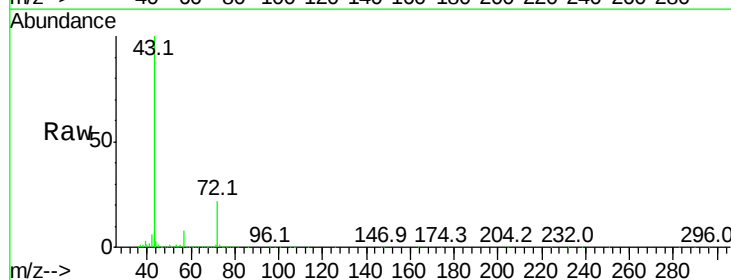
Acq: 15 Aug 2018 9:57

Tgt Ion: 43 Resp: 3298484

Ion Ratio Lower Upper

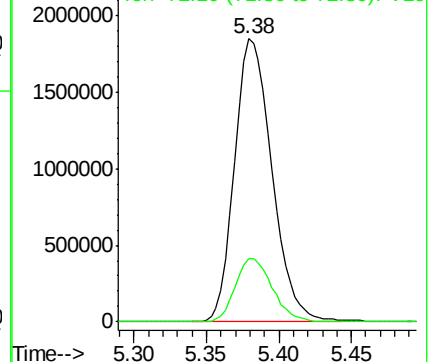
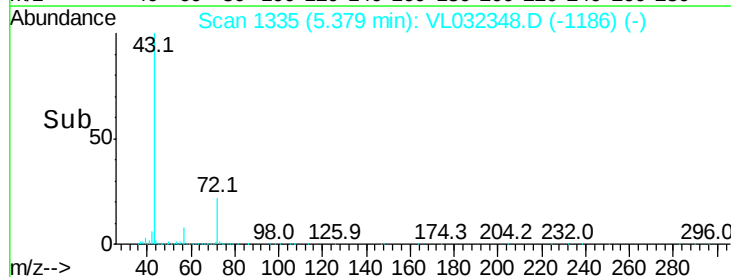
43 100

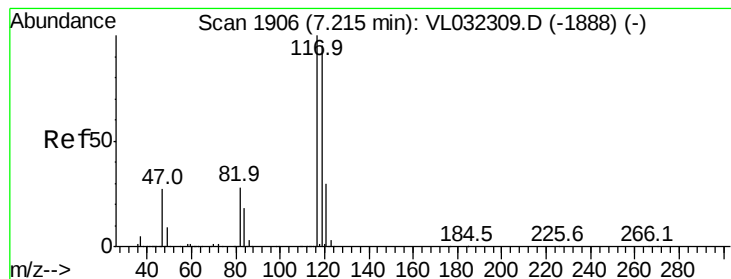
72 22.4 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 11.007 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

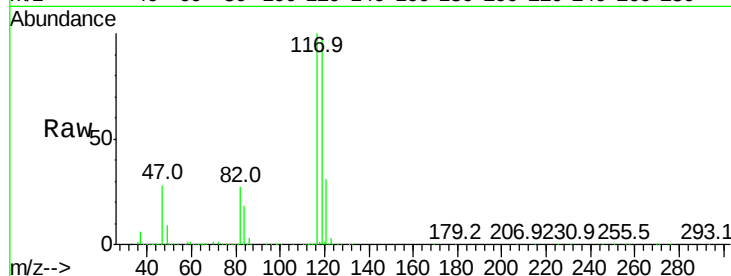
Tgt Ion:117 Resp: 2976599

Ion Ratio Lower Upper

117 100

119 96.5 76.1 114.1

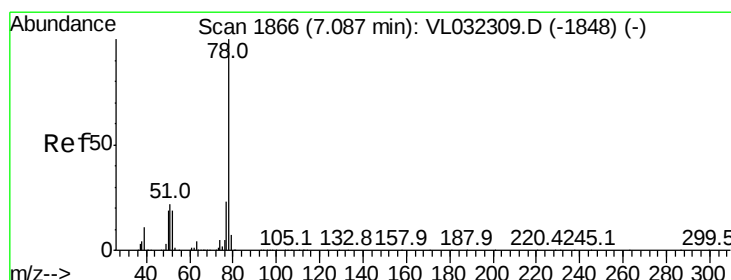
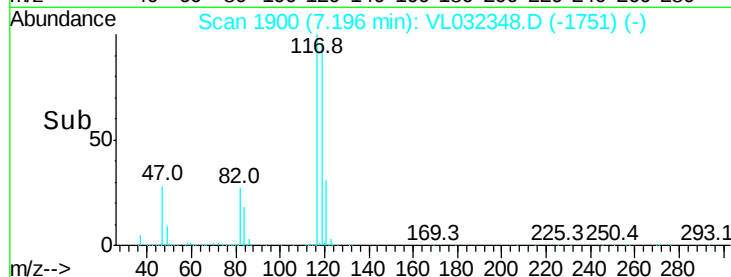
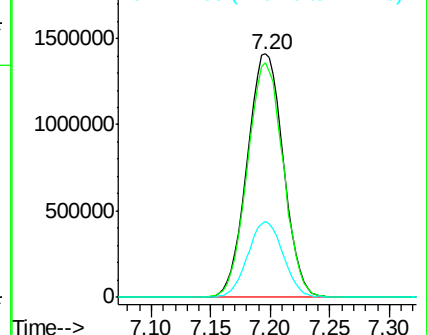
121 31.4 24.4 36.6



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: 10.257 ppbv

RT: 7.07 min Scan# 1860

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

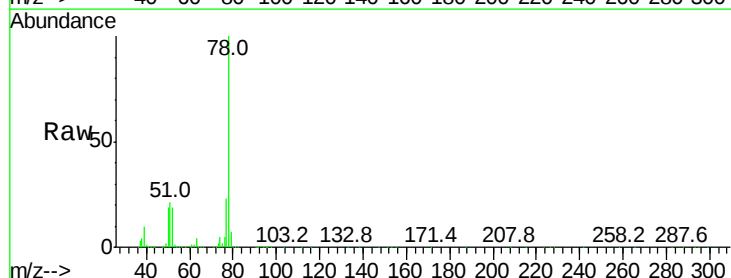
Tgt Ion: 78 Resp: 4304439

Ion Ratio Lower Upper

78 100

77 22.5 18.4 27.6

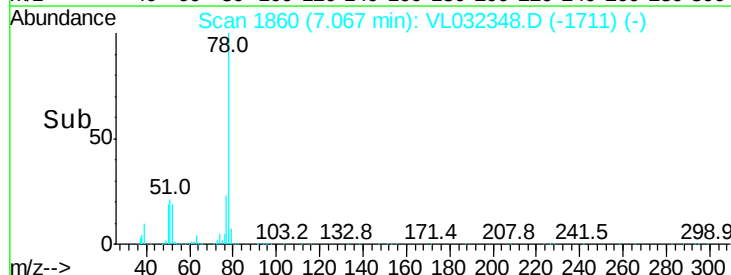
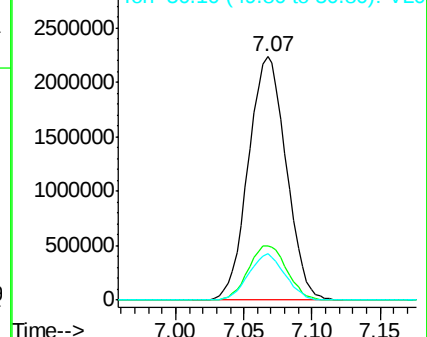
50 18.9 15.3 22.9

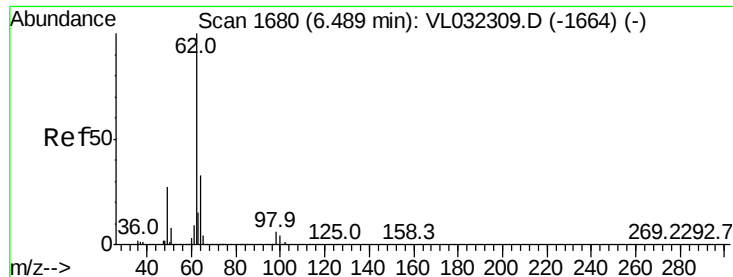


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.947 ppbv

RT: 6.47 min Scan# 1675

Delta R.T. -0.02 min

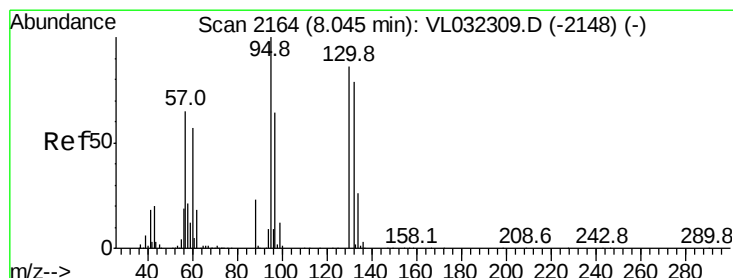
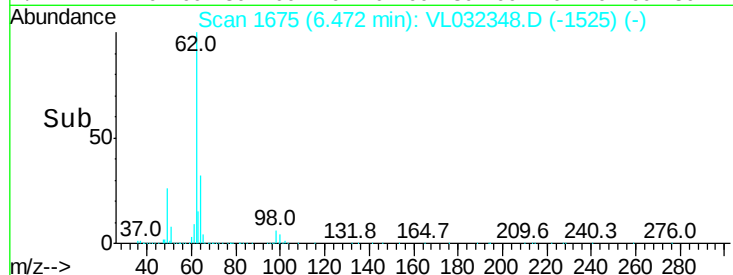
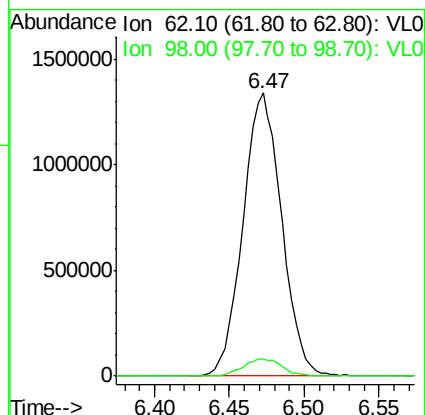
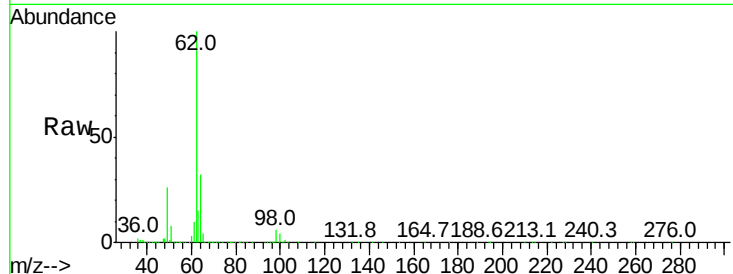
Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 2412002

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.1	7.7



#38

Trichloroethene

Concen: 8.933 ppbv

RT: 8.03 min Scan# 2158

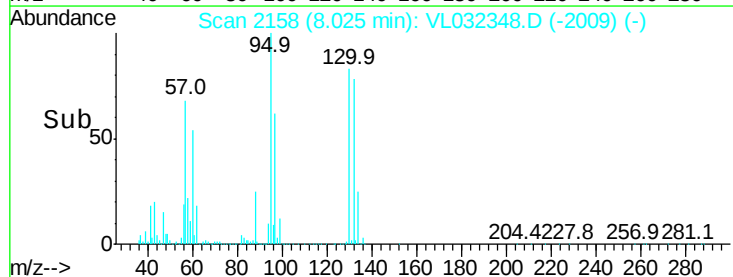
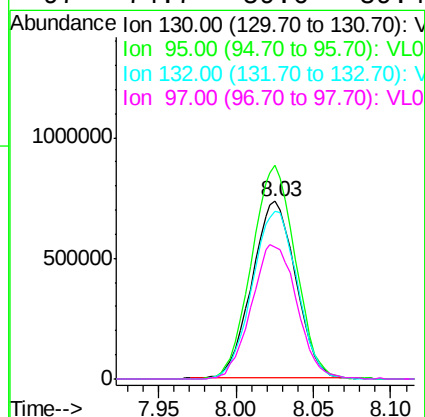
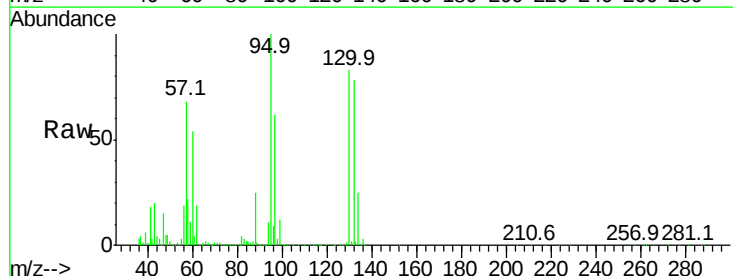
Delta R.T. -0.02 min

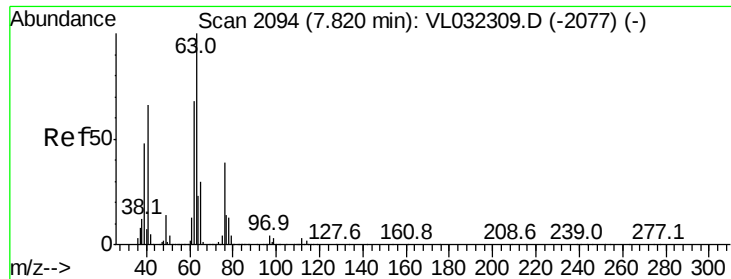
Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Tgt Ion: 130 Resp: 1448807

Ion	Ratio	Lower	Upper
130	100		
95	120.7	92.9	139.3
132	94.4	73.0	109.4
97	74.7	59.6	89.4





#39

1,2-Dichloropropane

Concen: 8.420 ppbv

RT: 7.80 min Scan# 2087

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

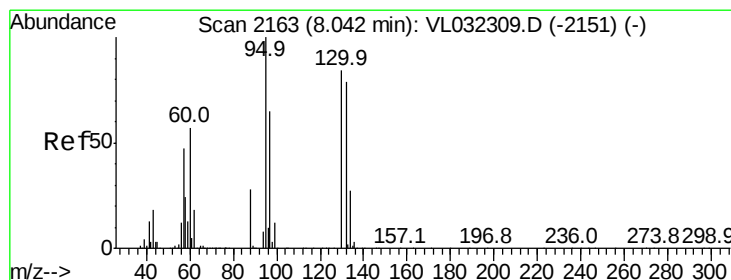
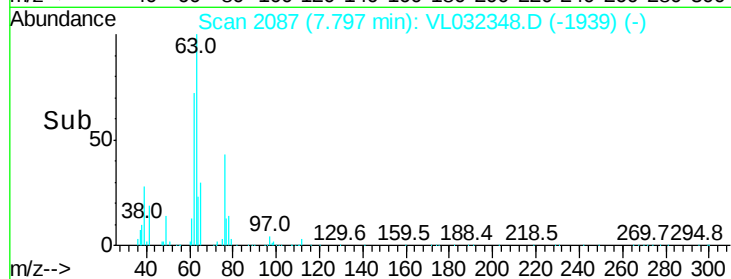
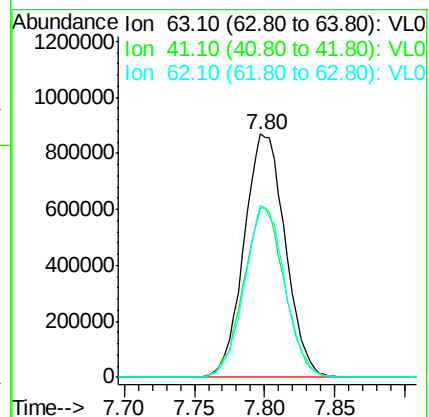
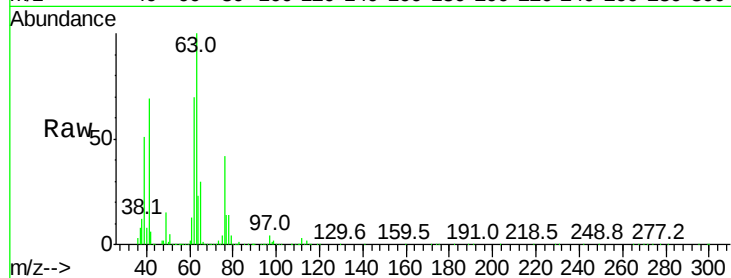
Tgt Ion: 63 Resp: 1777765

Ion Ratio Lower Upper

63 100

41 69.4 52.5 78.7

62 70.4 54.6 81.8



#40

1,4-Dioxane

Concen: 9.598 ppbv

RT: 8.02 min Scan# 2155

Delta R.T. -0.03 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Tgt Ion: 88 Resp: 595073

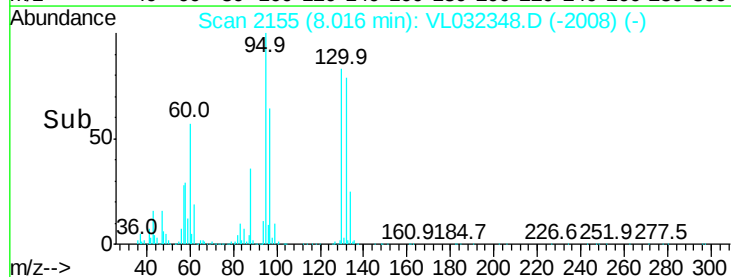
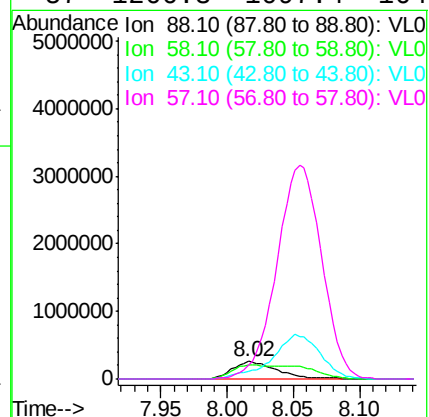
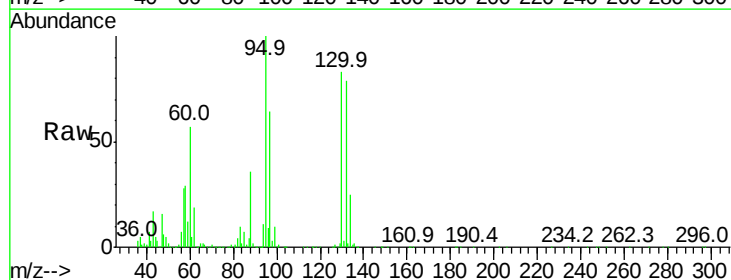
Ion Ratio Lower Upper

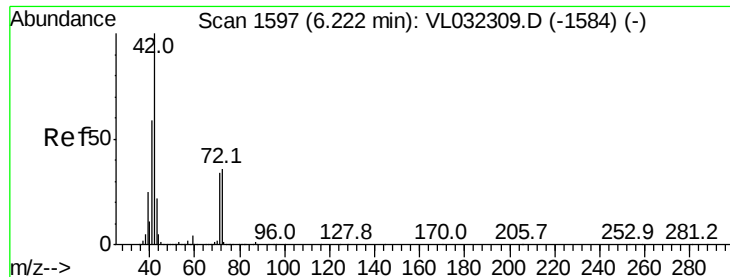
88 100

58 142.1 120.5 180.7

43 280.0 246.2 369.2

57 1266.3 1097.4 1646.2





#41

Tetrahydrofuran

Concen: 10.999 ppbv

RT: 6.20 min Scan# 1591

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

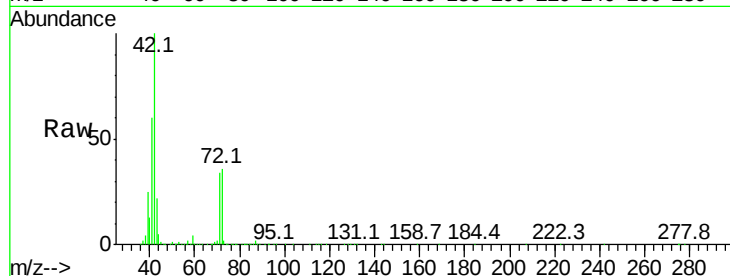
Tgt Ion: 42 Resp: 1917293

Ion Ratio Lower Upper

42 100

72 37.2 28.6 42.8

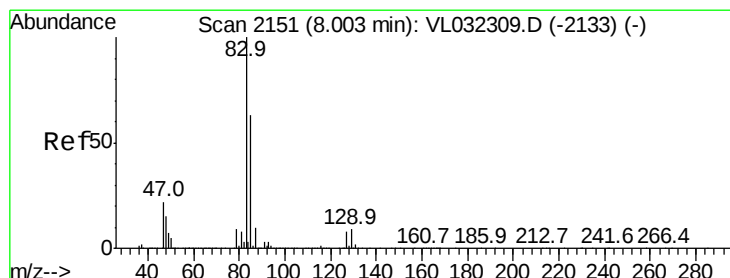
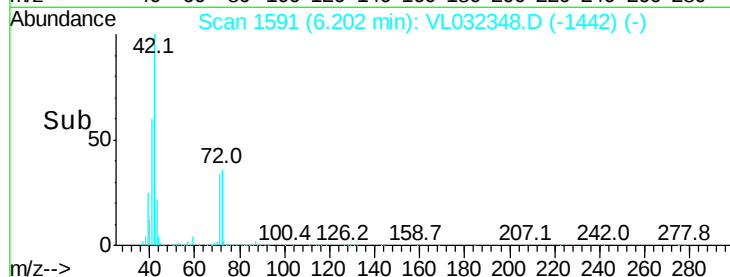
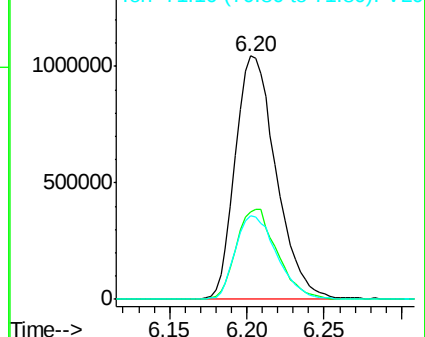
71 35.2 27.8 41.6



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: 8.567 ppbv

RT: 7.98 min Scan# 2144

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

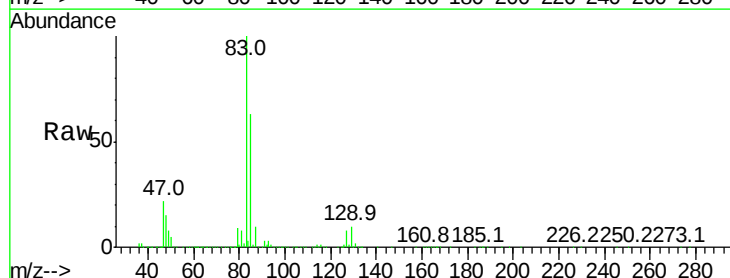
Tgt Ion: 83 Resp: 3363188

Ion Ratio Lower Upper

83 100

85 63.0 50.7 76.1

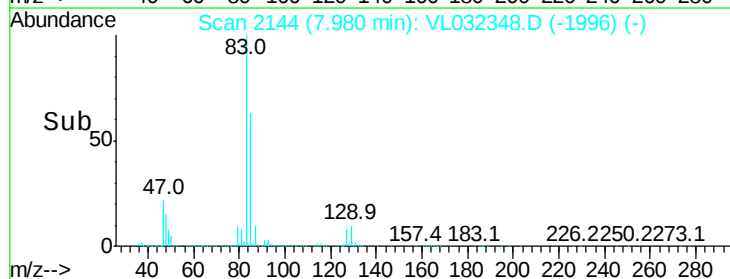
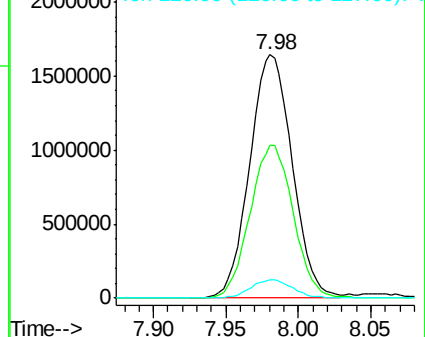
127 7.6 6.0 9.0

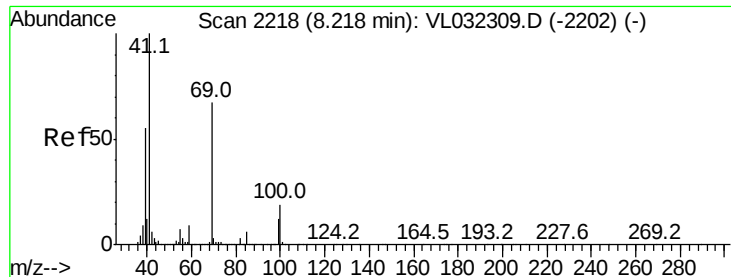


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

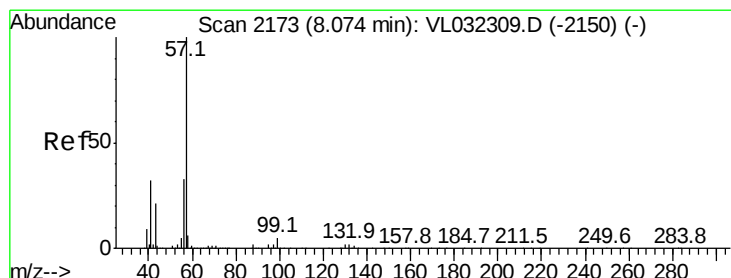
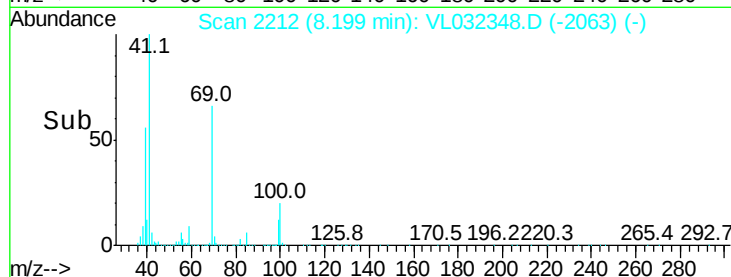
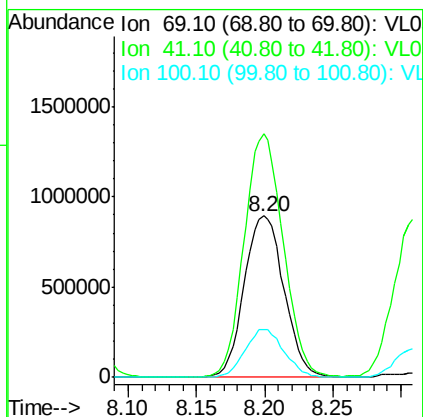
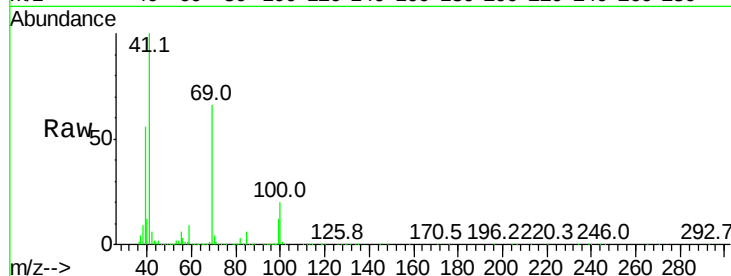




#43
Methyl Methacrylate
Concen: 8.989 ppbv
RT: 8.20 min Scan# 2212
Delta R.T. -0.02 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

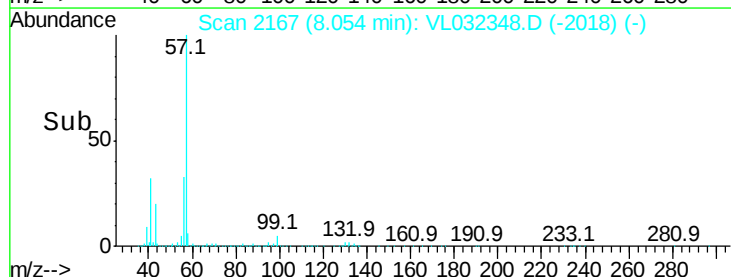
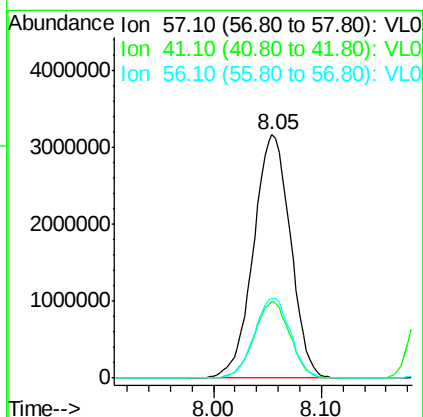
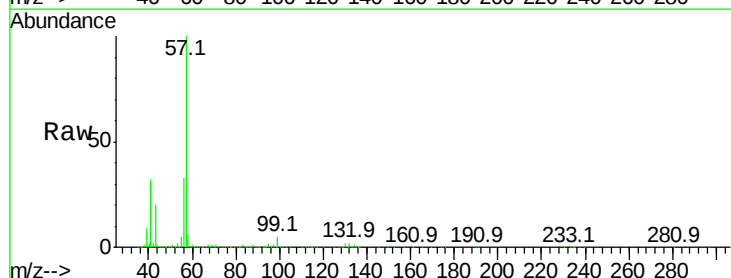
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

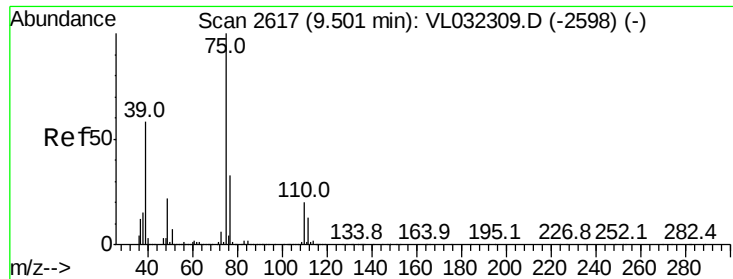
Tgt Ion: 69 Resp: 1810818
Ion Ratio Lower Upper
69 100
41 148.2 120.6 180.8
100 29.3 23.2 34.8



#44
2,2,4-Trimethylpentane
Concen: 8.264 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. -0.02 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

Tgt Ion: 57 Resp: 7520931
Ion Ratio Lower Upper
57 100
41 30.4 24.3 36.5
56 32.1 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 9.979 ppbv

RT: 9.48 min Scan# 2611

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

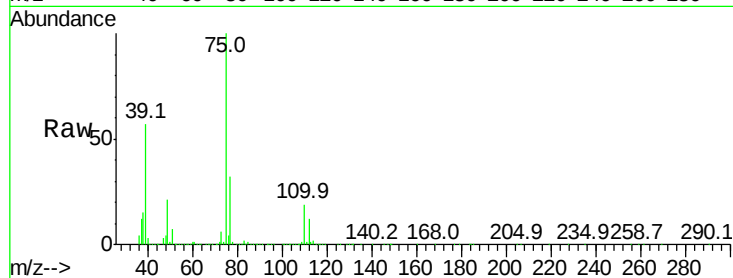
VSTDICCC010

Tgt Ion: 75 Resp: 2329326

Ion Ratio Lower Upper

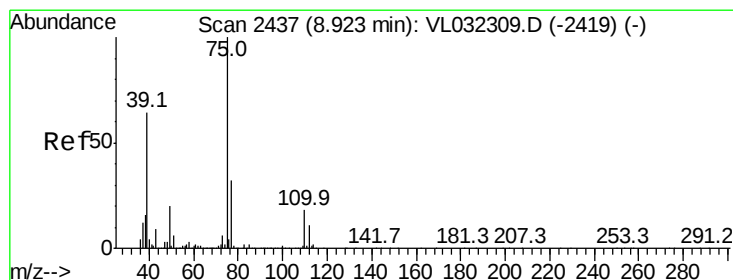
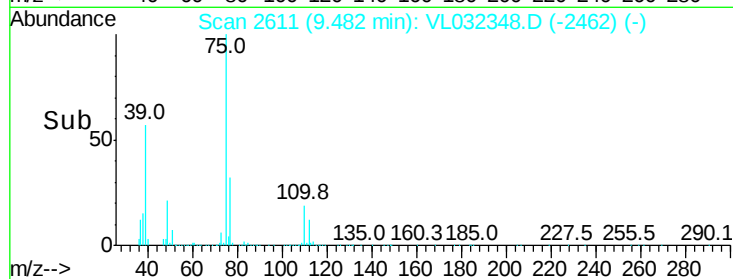
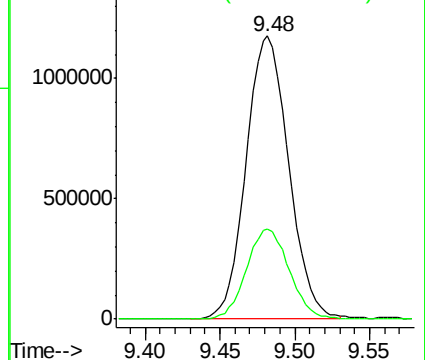
75 100

77 31.8 26.2 39.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.312 ppbv

RT: 8.90 min Scan# 2430

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

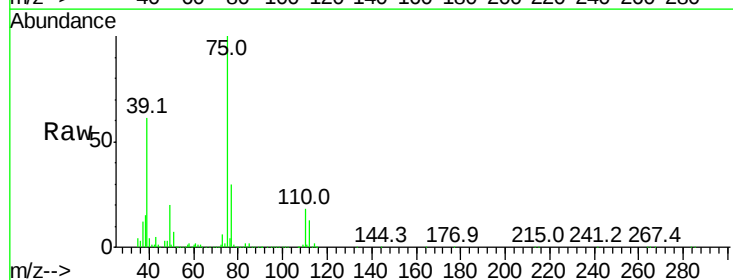
Tgt Ion: 75 Resp: 2663259

Ion Ratio Lower Upper

75 100

39 60.6 50.9 76.3

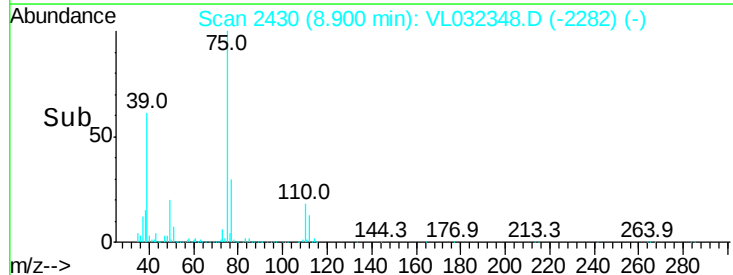
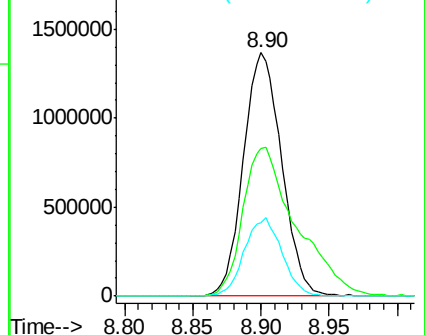
77 30.4 25.7 38.5

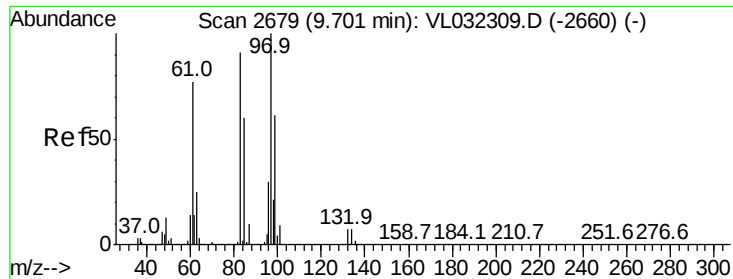


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



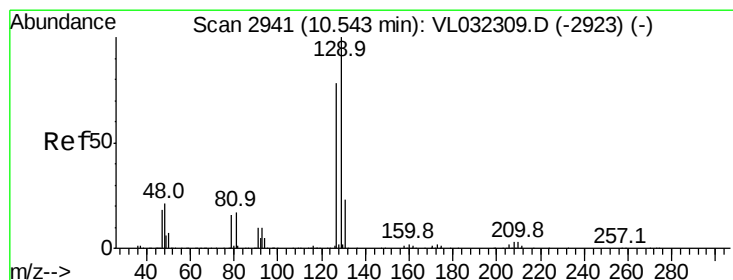
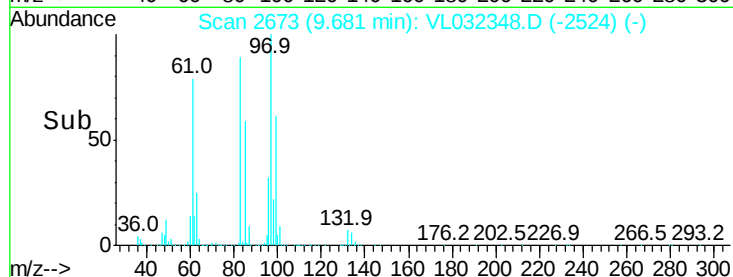
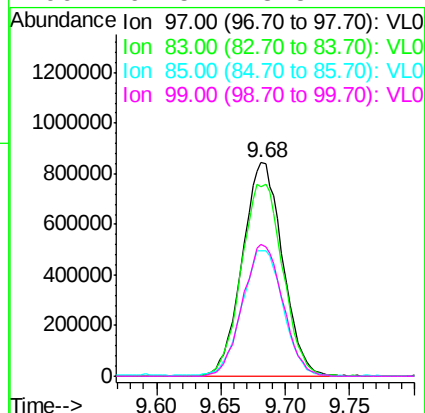
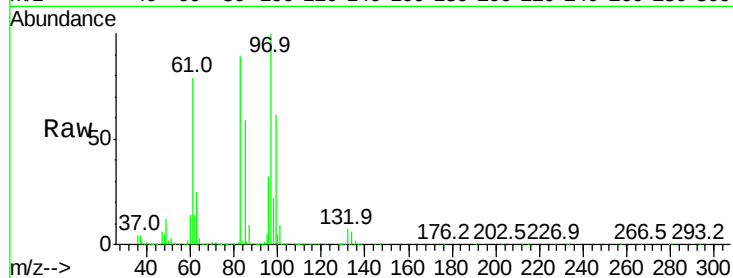


#47
 1,1,2-Trichloroethane
 Concen: 8.955 ppbv
 RT: 9.68 min Scan# 2673
 Delta R.T. -0.02 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 97 Resp: 1837905

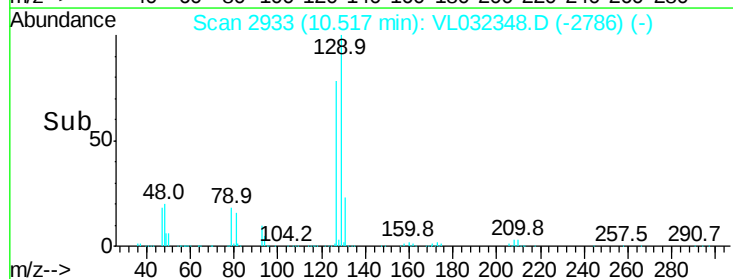
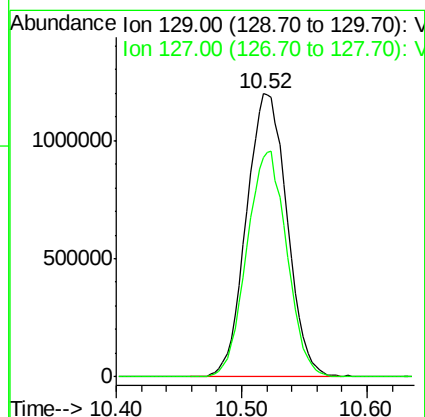
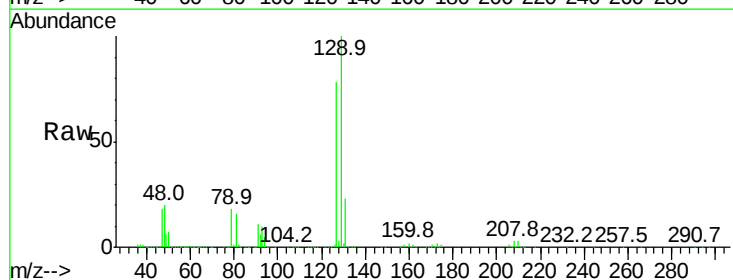
Ion	Ratio	Lower	Upper
97	100		
83	89.0	73.0	109.6
85	58.2	48.1	72.1
99	61.5	48.5	72.7

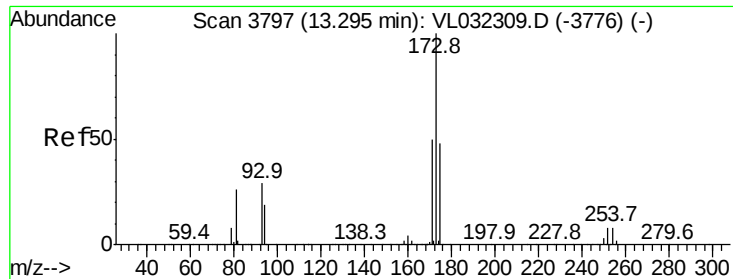


#48
 Dibromochloromethane
 Concen: 8.887 ppbv
 RT: 10.52 min Scan# 2933
 Delta R.T. -0.03 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

Tgt Ion: 129 Resp: 2688629

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.5	118.3





#49

Bromoform

Concen: 8.921 ppbv

RT: 13.28 min Scan# 3791

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

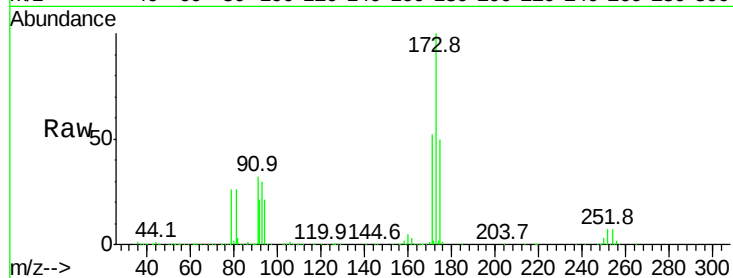
Tgt Ion:173 Resp: 2222243

Ion Ratio Lower Upper

173 100

175 49.1 38.9 58.3

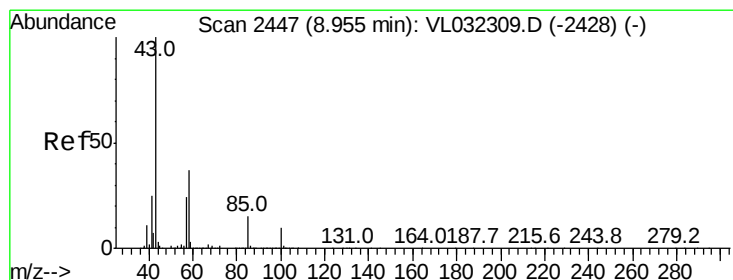
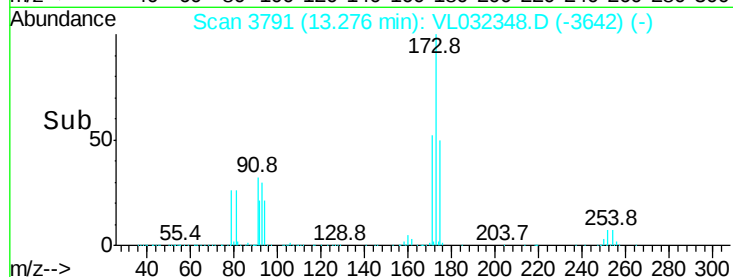
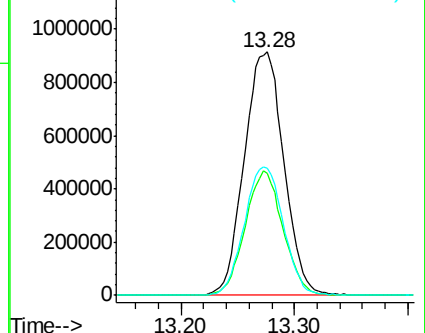
171 52.4 42.2 63.2



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: 8.498 ppbv

RT: 8.94 min Scan# 2441

Delta R.T. -0.02 min

Lab File: VL032348.D

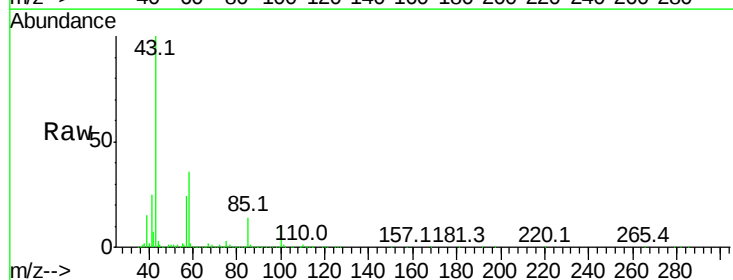
Acq: 15 Aug 2018 9:57

Tgt Ion: 43 Resp: 4620400

Ion Ratio Lower Upper

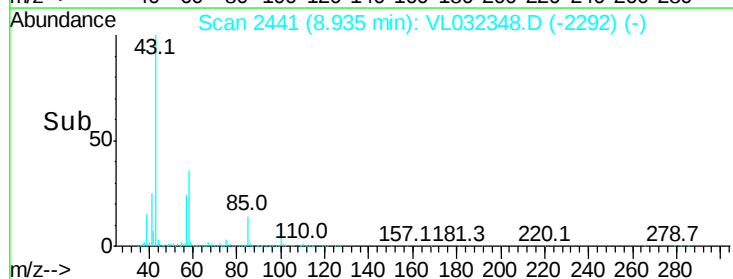
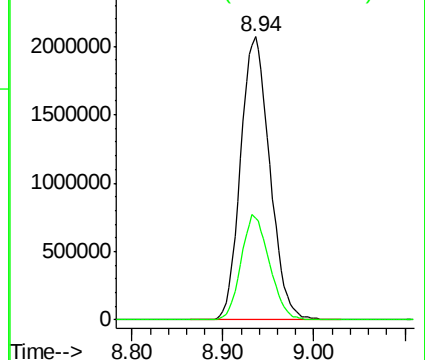
43 100

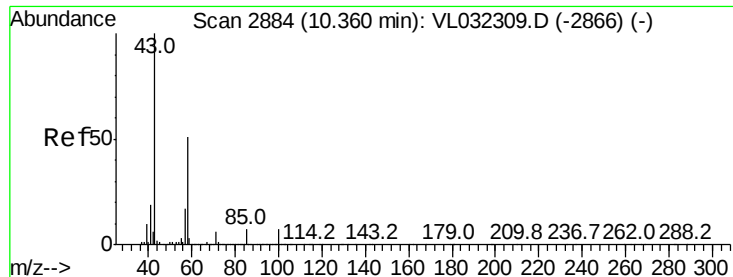
58 36.1 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.918 ppbv

RT: 10.34 min Scan# 2877

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

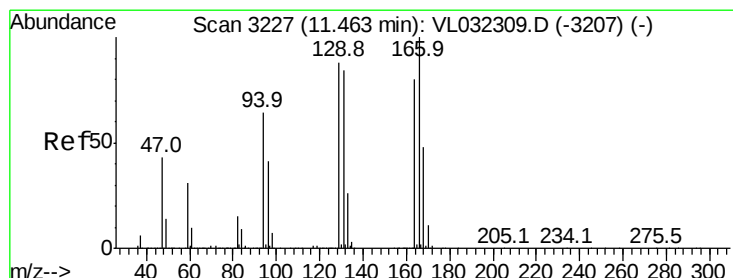
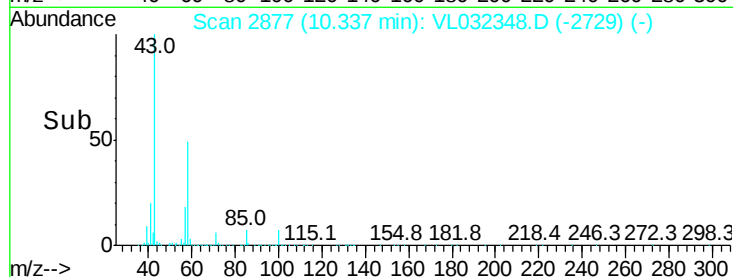
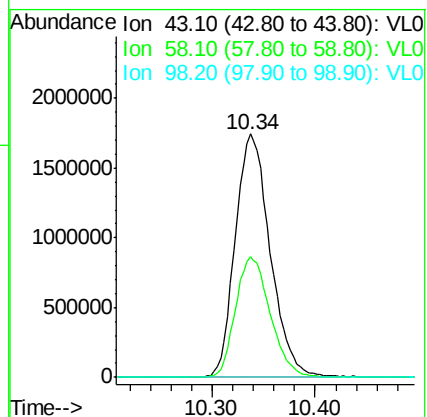
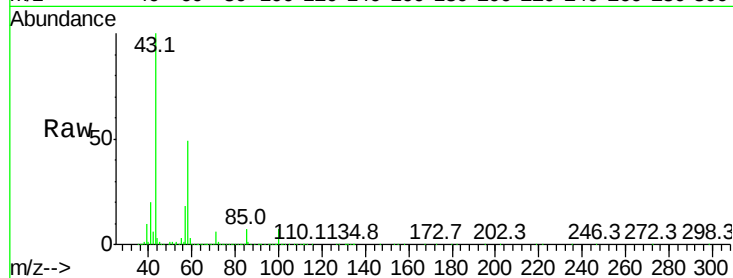
Tgt Ion: 43 Resp: 4109469

Ion Ratio Lower Upper

43 100

58 49.4 39.1 58.7

98 0.4 0.3 0.5



#52

Tetrachloroethene

Concen: 8.921 ppbv

RT: 11.44 min Scan# 3220

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Tgt Ion: 164 Resp: 1261575

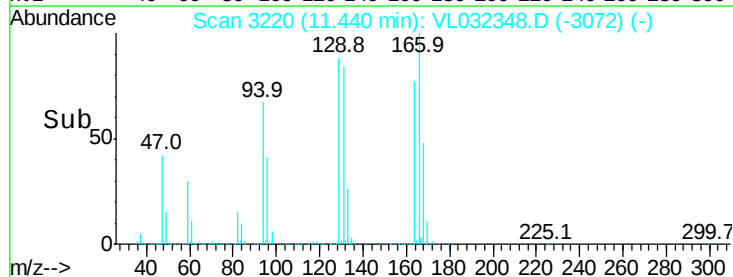
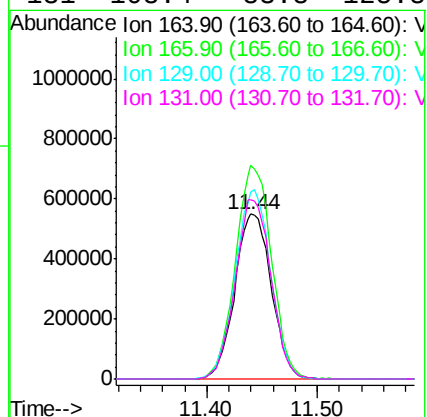
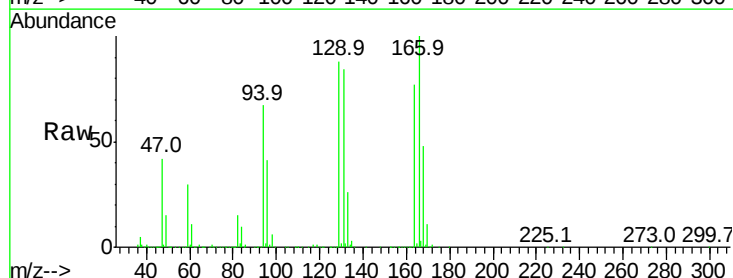
Ion Ratio Lower Upper

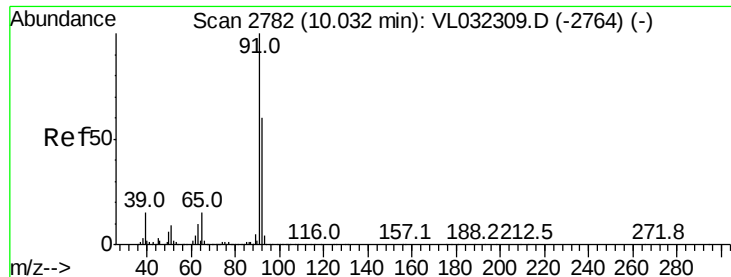
164 100

166 129.4 100.0 150.0

129 113.6 87.9 131.9

131 108.4 83.8 125.8





#53

Toluene

Concen: 10.300 ppbv

RT: 10.02 min Scan# 2777

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

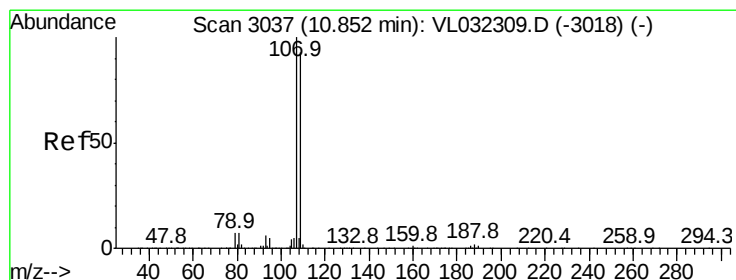
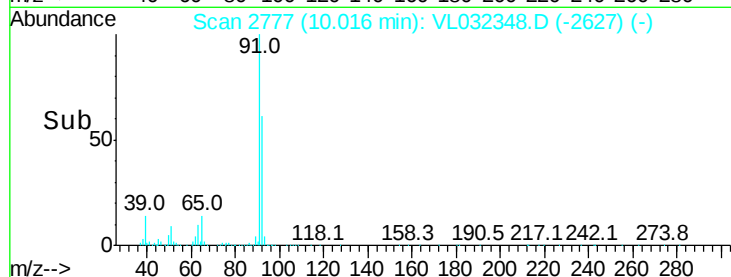
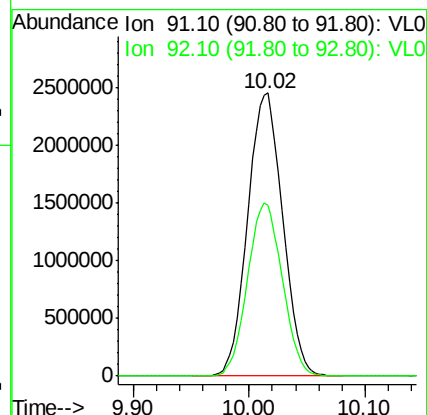
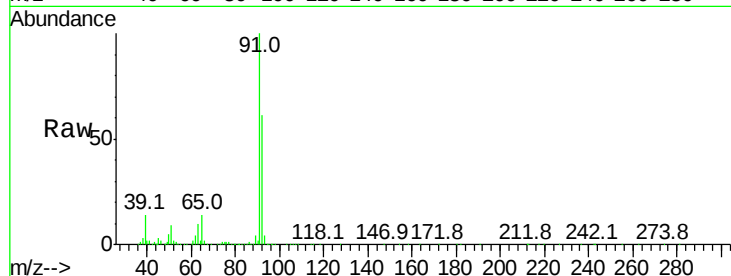
VSTDICCC010

Tgt Ion: 91 Resp: 5167519

Ion Ratio Lower Upper

91 100

92 60.9 48.6 72.8



#54

1,2-Dibromoethane

Concen: 8.610 ppbv

RT: 10.83 min Scan# 3030

Delta R.T. -0.02 min

Lab File: VL032348.D

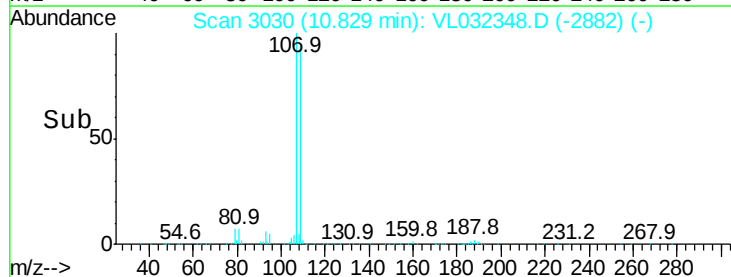
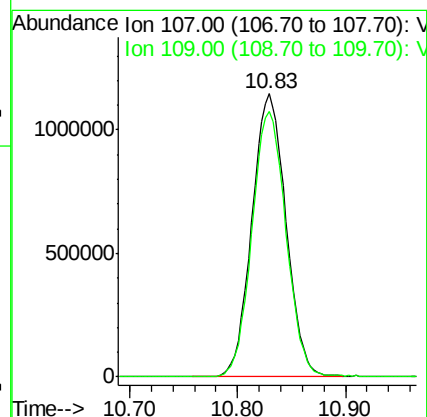
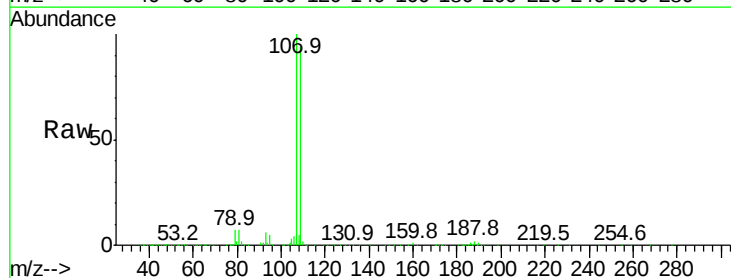
Acq: 15 Aug 2018 9:57

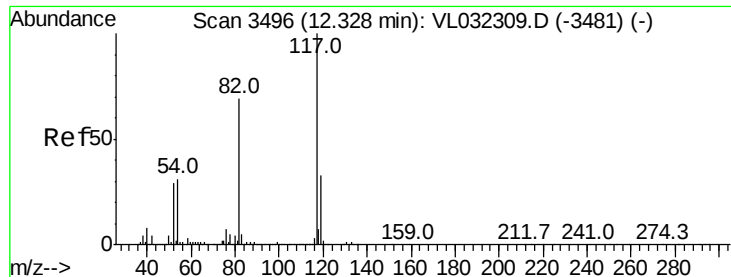
Tgt Ion: 107 Resp: 2511116

Ion Ratio Lower Upper

107 100

109 93.6 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.31 min Scan# 3490

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

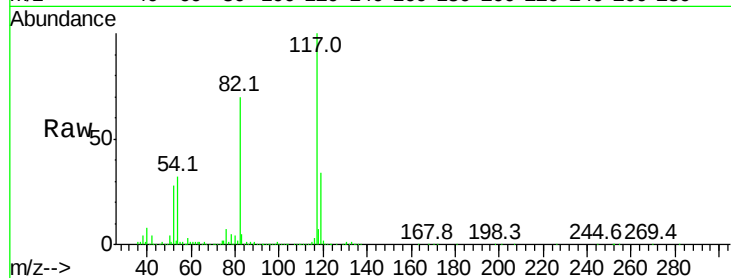
Tgt Ion:117 Resp: 5899992

Ion Ratio Lower Upper

117 100

82 55.9 52.6 78.8

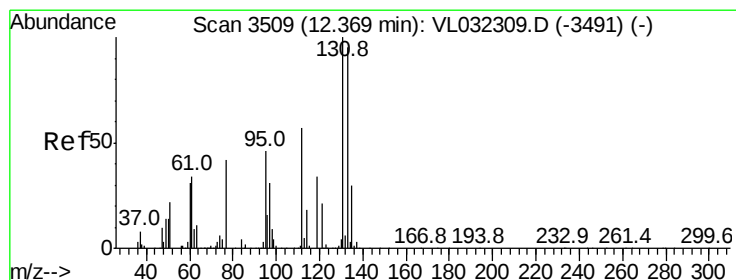
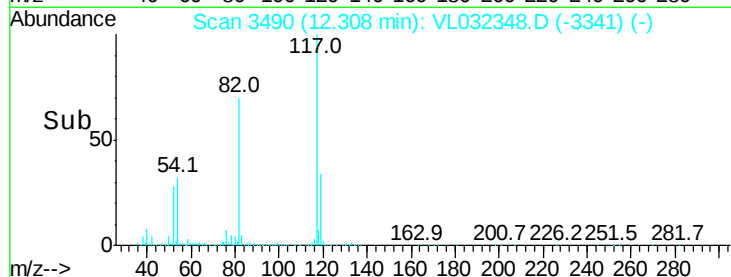
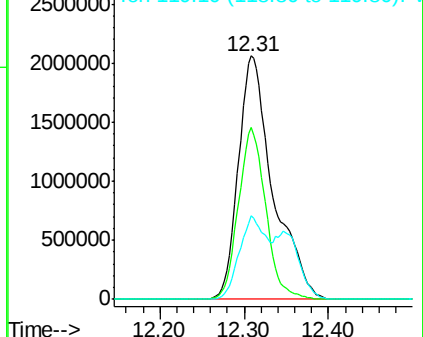
119 46.6 25.7 38.5#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 7.798 ppbv

RT: 12.35 min Scan# 3503

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

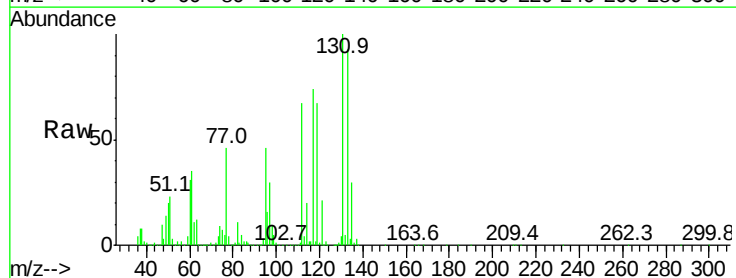
Tgt Ion:131 Resp: 1897183

Ion Ratio Lower Upper

131 100

133 94.6 75.8 113.6

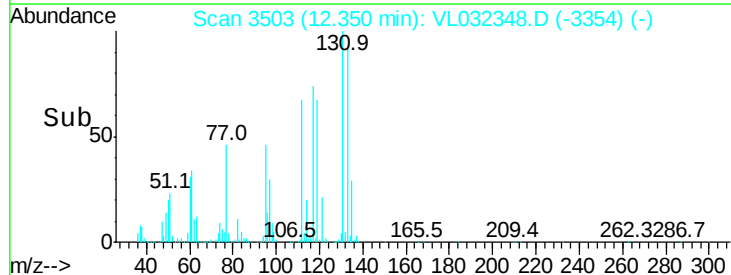
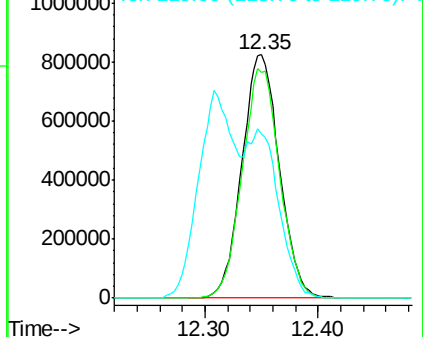
119 145.0 48.1 72.1#

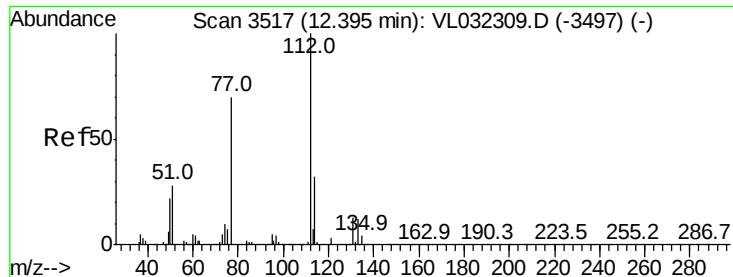


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.441 ppbv

RT: 12.37 min Scan# 3510

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

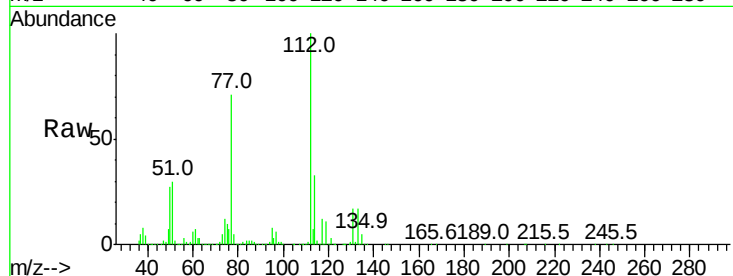
Tgt Ion: 112 Resp: 3414004

Ion Ratio Lower Upper

112 100

77 70.7 56.5 84.7

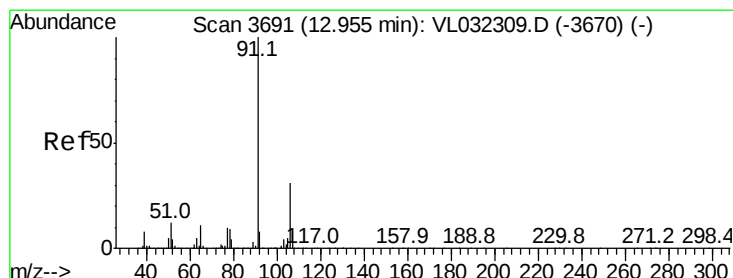
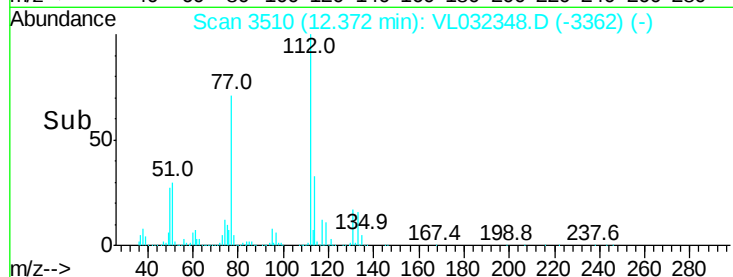
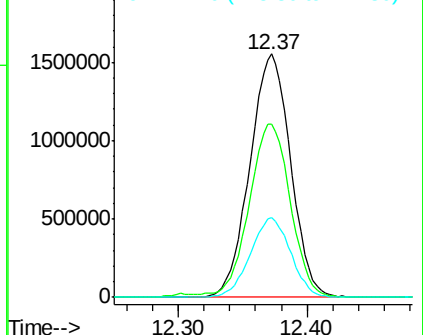
114 32.7 28.4 34.7



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: 8.441 ppbv

RT: 12.93 min Scan# 3684

Delta R.T. -0.02 min

Lab File: VL032348.D

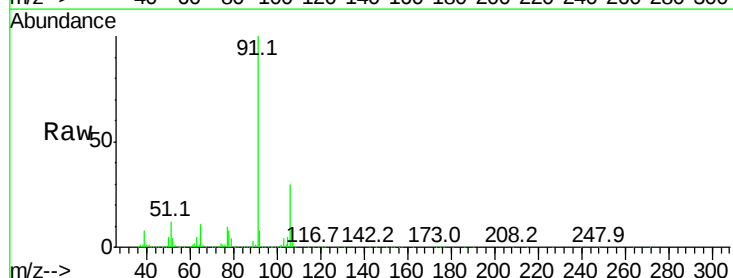
Acq: 15 Aug 2018 9:57

Tgt Ion: 91 Resp: 6243255

Ion Ratio Lower Upper

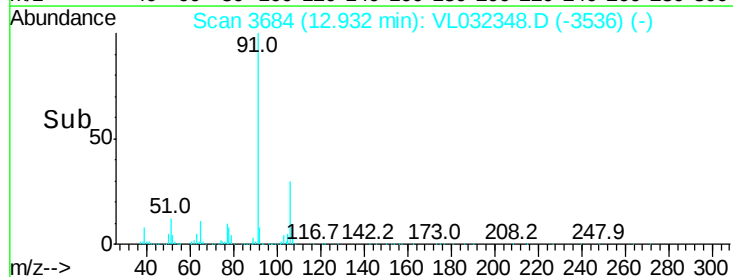
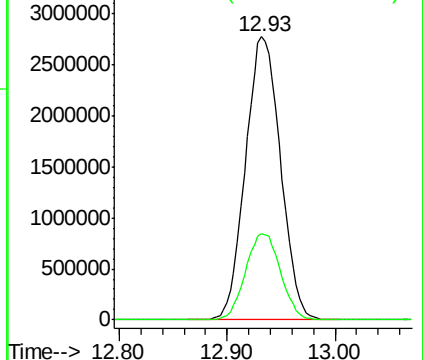
91 100

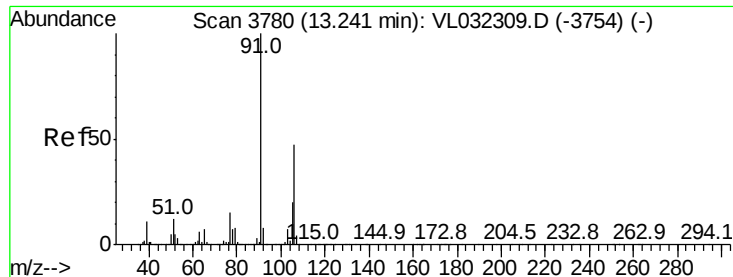
106 30.4 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

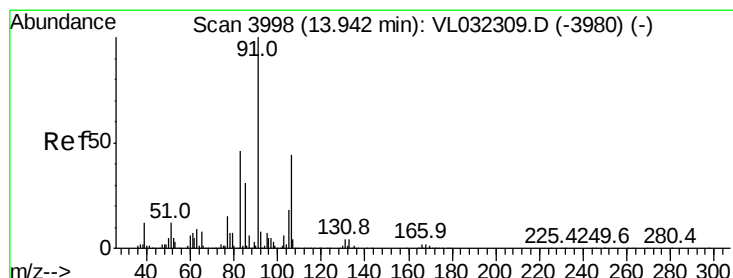
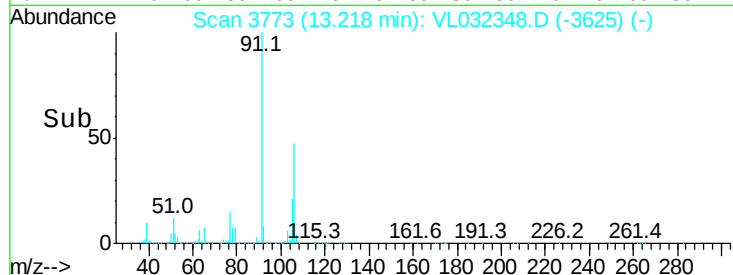
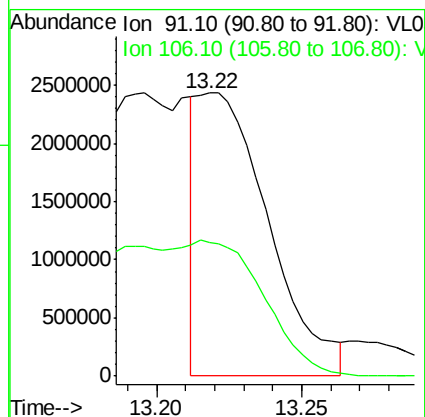
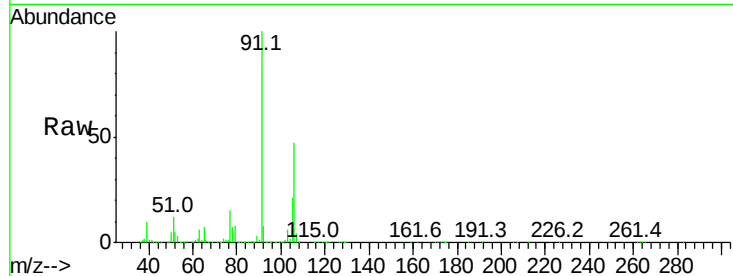




#59
m/p-Xylene
Concen: 6.508 ppbv
RT: 13.22 min Scan# 3773
Delta R.T. -0.02 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

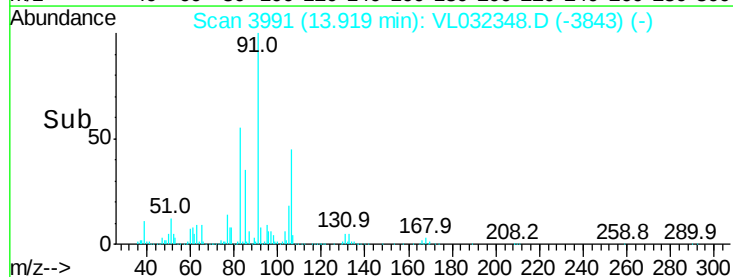
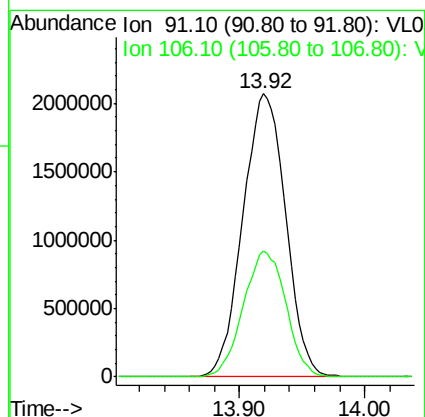
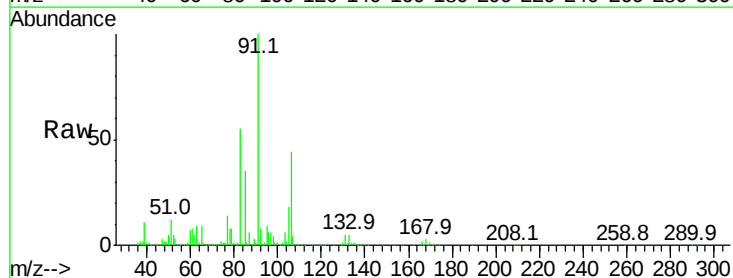
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

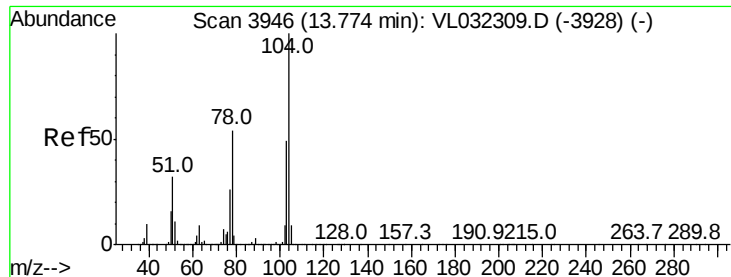
Tgt Ion: 91 Resp: 4098824
Ion Ratio Lower Upper
91 100
106 112.8 36.4 54.6#



#60
o-Xylene
Concen: 7.934 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. -0.02 min
Lab File: VL032348.D
Acq: 15 Aug 2018 9:57

Tgt Ion: 91 Resp: 4898501
Ion Ratio Lower Upper
91 100
106 44.5 22.4 67.0





#61

Styrene

Concen: 8.527 ppbv

RT: 13.76 min Scan# 3940

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

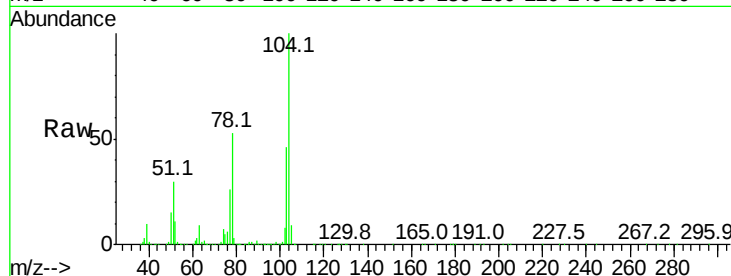
Tgt Ion:104 Resp: 3875061

Ion Ratio Lower Upper

104 100

78 53.3 42.6 63.8

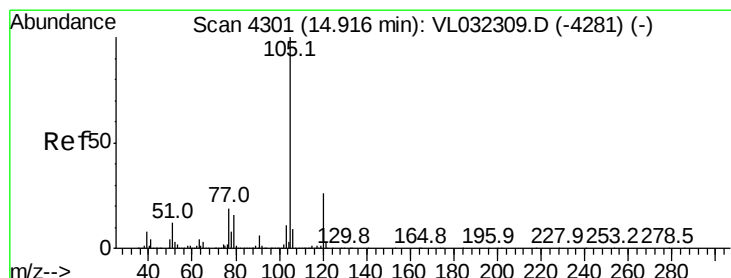
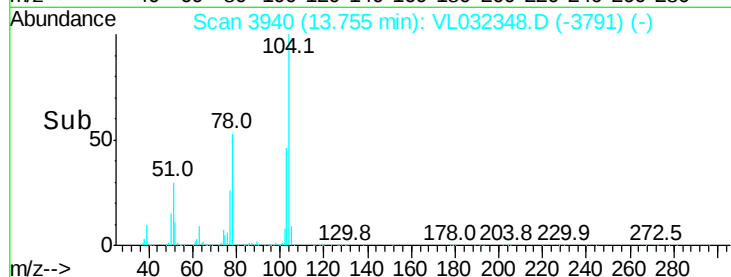
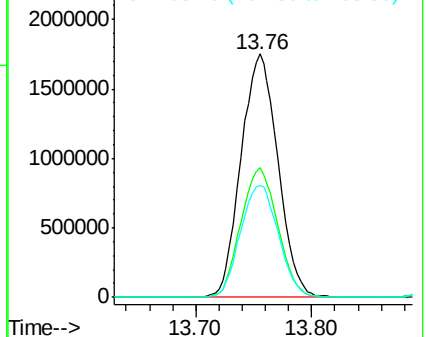
103 47.5 38.0 57.0



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: 7.912 ppbv

RT: 14.90 min Scan# 4295

Delta R.T. -0.02 min

Lab File: VL032348.D

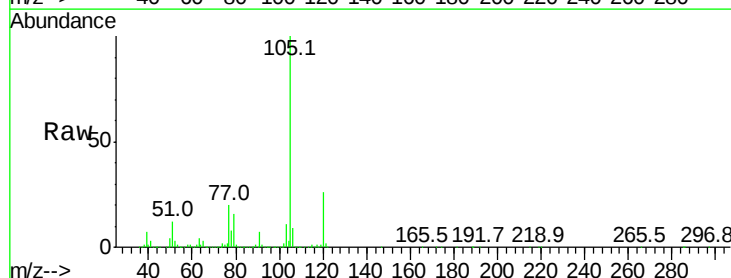
Acq: 15 Aug 2018 9:57

Tgt Ion:105 Resp: 6940731

Ion Ratio Lower Upper

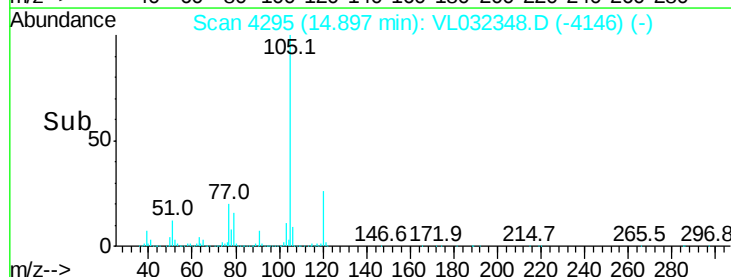
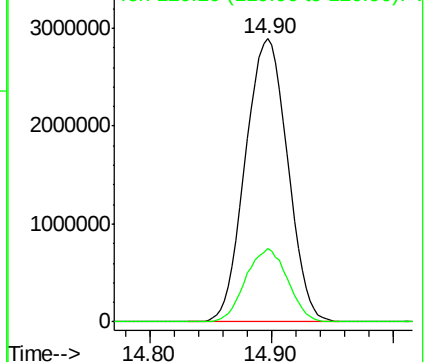
105 100

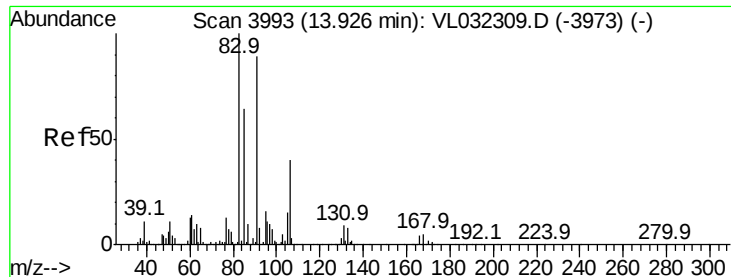
120 25.7 20.4 30.6



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: 7.334 ppbv

RT: 13.91 min Scan# 3987

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

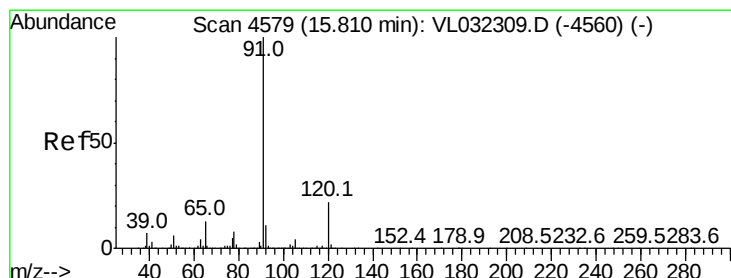
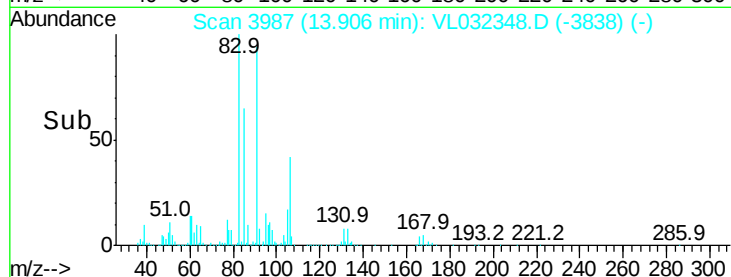
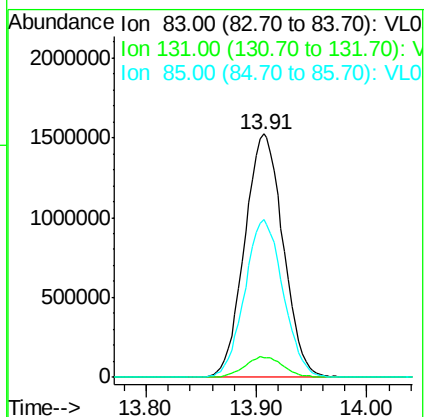
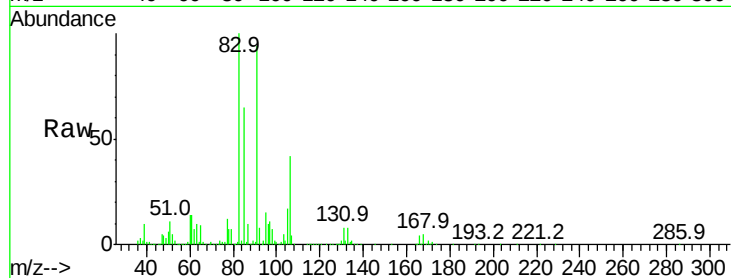
Tgt Ion: 83 Resp: 3684804

Ion Ratio Lower Upper

83 100

131 8.5 4.3 12.8

85 64.8 32.6 97.7



#64

n-propylbenzene

Concen: 8.056 ppbv

RT: 15.79 min Scan# 4574

Delta R.T. -0.02 min

Lab File: VL032348.D

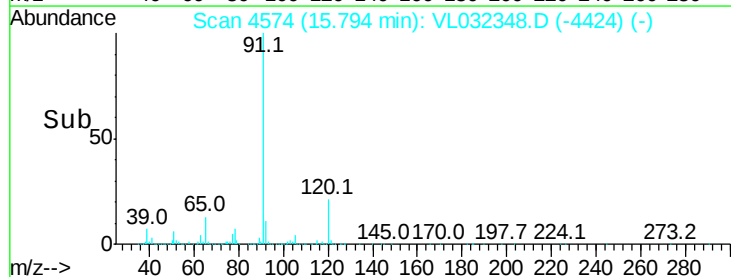
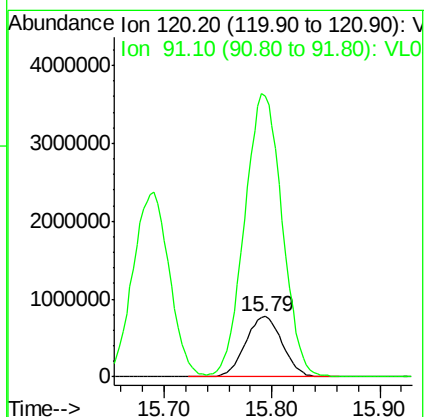
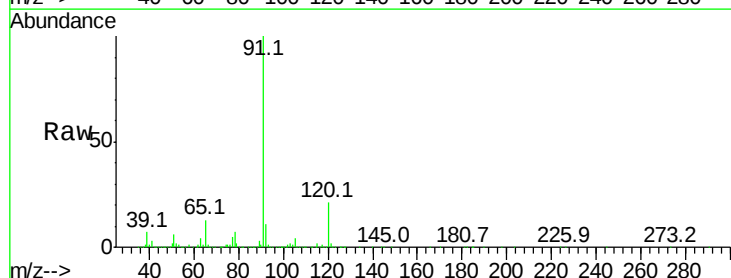
Acq: 15 Aug 2018 9:57

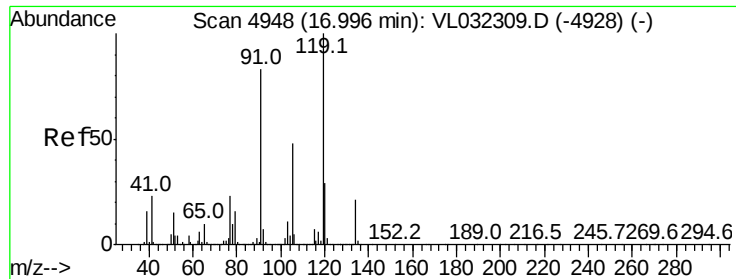
Tgt Ion: 120 Resp: 1839762

Ion Ratio Lower Upper

120 100

91 477.7 381.8 572.8

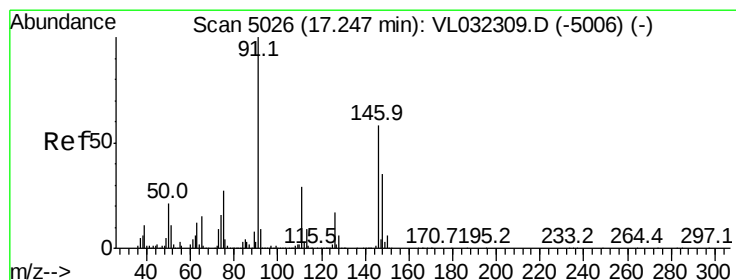
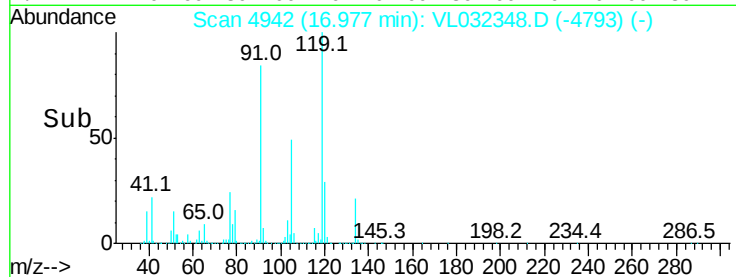
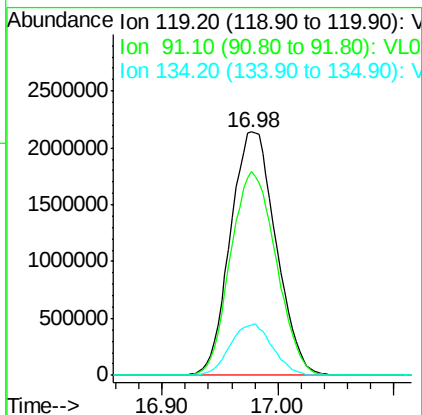
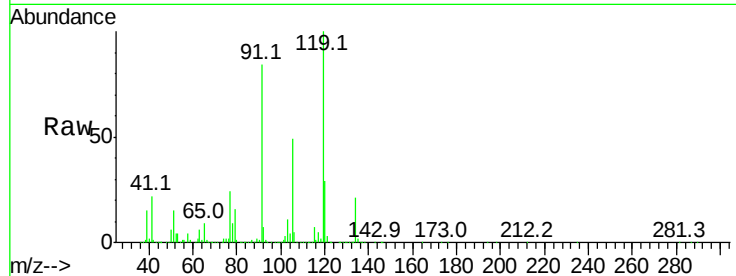




#65
 tert-Butylbenzene
 Concen: 7.862 ppbv
 RT: 16.98 min Scan# 4942
 Delta R.T. -0.02 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

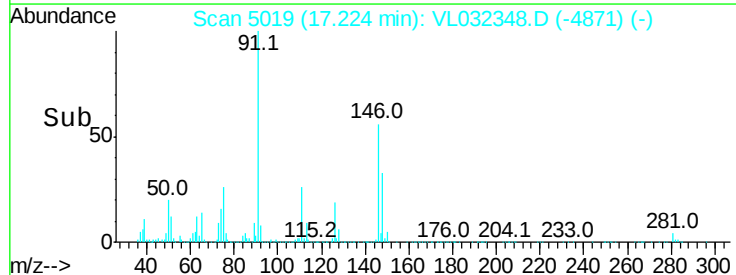
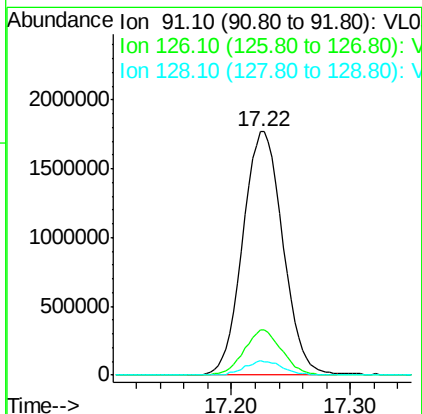
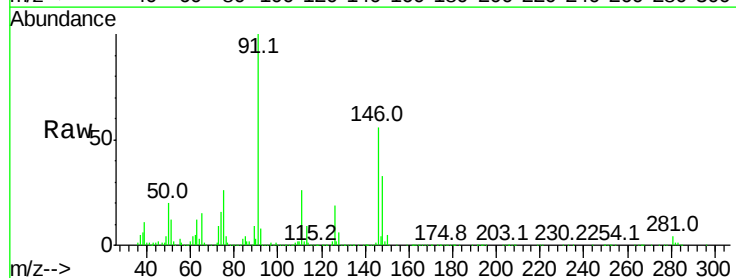
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

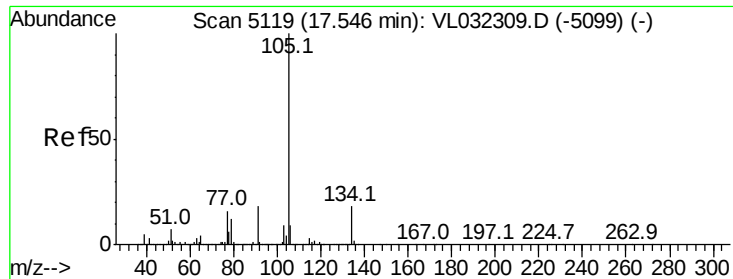
Tgt Ion: 119 Resp: 5826825
 Ion Ratio Lower Upper
 119 100
 91 84.2 67.5 101.3
 134 19.7 15.8 23.6



#66
 Benzyl Chloride
 Concen: 9.312 ppbv
 RT: 17.22 min Scan# 5019
 Delta R.T. -0.02 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

Tgt Ion: 91 Resp: 4113372
 Ion Ratio Lower Upper
 91 100
 126 17.8 13.7 20.5
 128 5.6 4.3 6.5

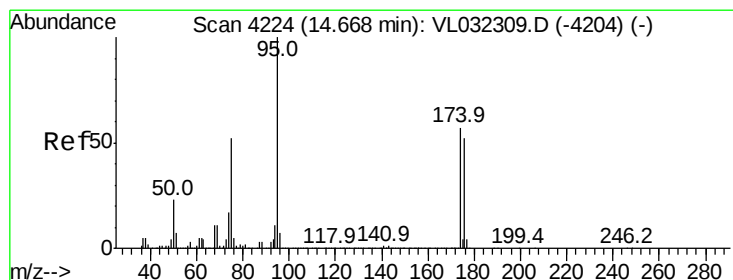
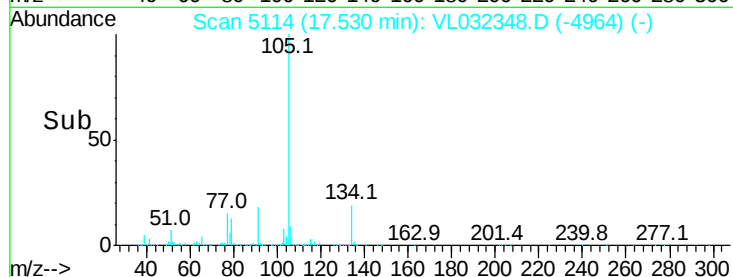
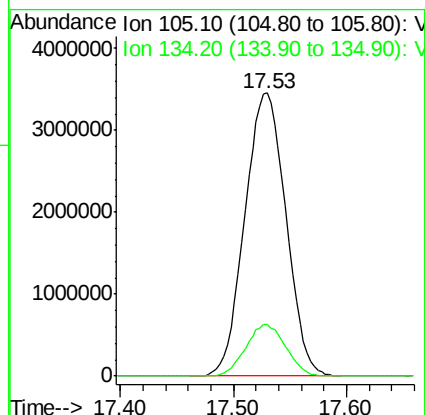
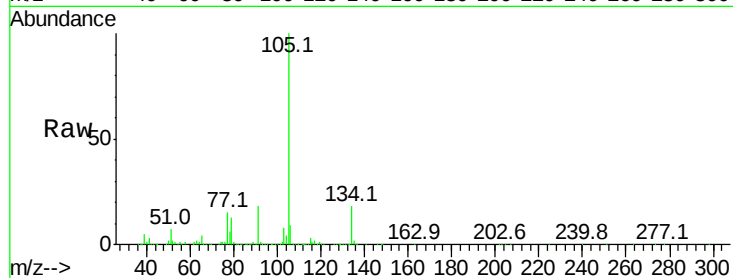




#67
 sec-Butylbenzene
 Concen: 7.864 ppbv
 RT: 17.53 min Scan# 5114
 Delta R.T. -0.02 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

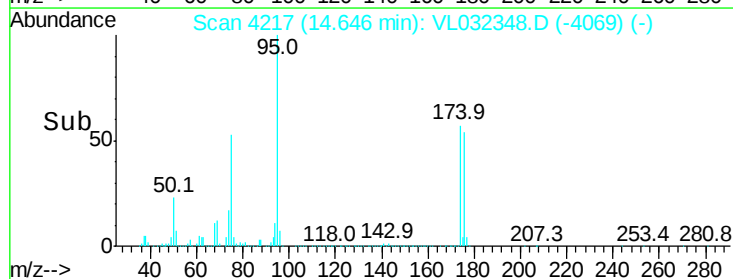
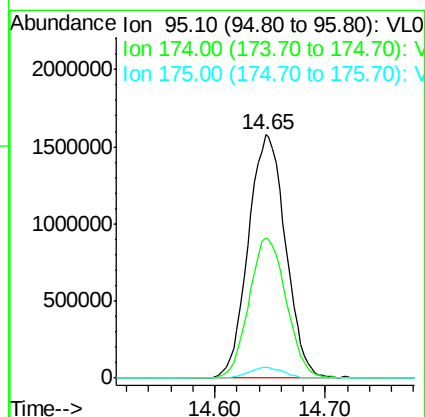
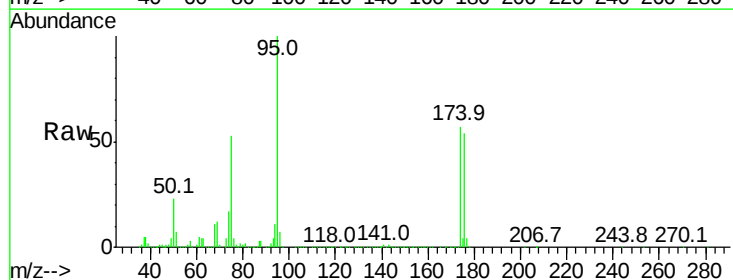
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

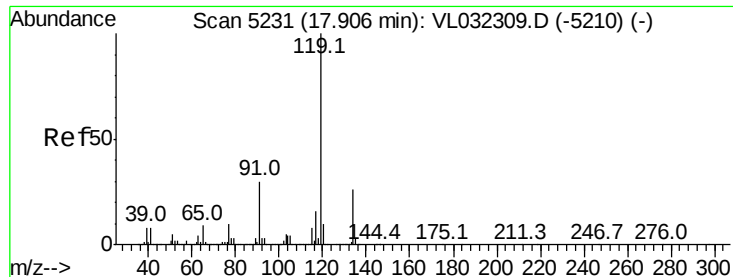
Tgt Ion: 105 Resp: 8727455
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.2 21.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.059 ppbv
 RT: 14.65 min Scan# 4217
 Delta R.T. -0.02 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

Tgt Ion: 95 Resp: 3690646
 Ion Ratio Lower Upper
 95 100
 174 57.8 45.5 68.3
 175 4.2 3.3 4.9

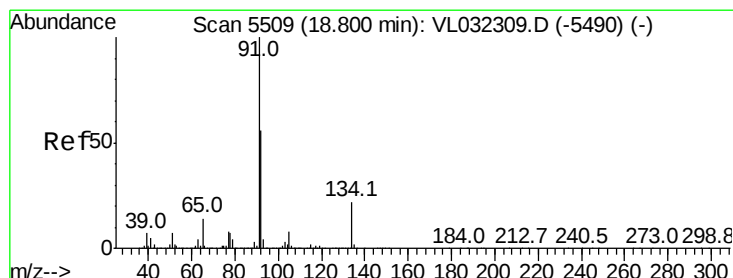
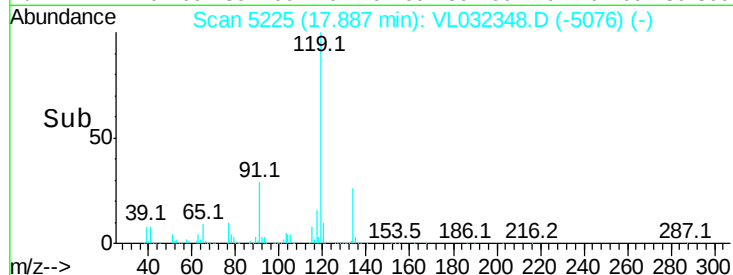
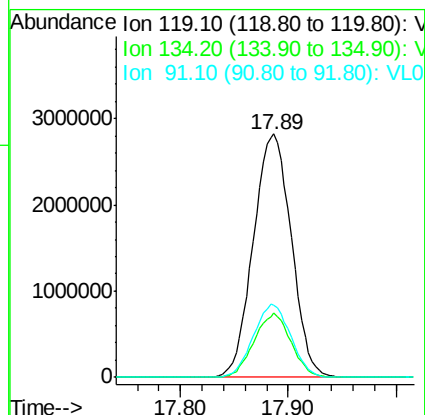
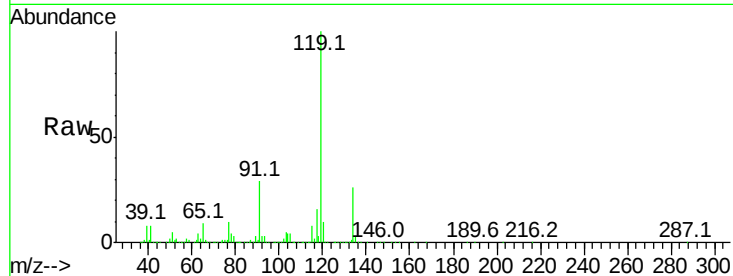




#69
 p-Isopropyltoluene
 Concen: 8.009 ppbv
 RT: 17.89 min Scan# 5225
 Delta R.T. -0.02 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

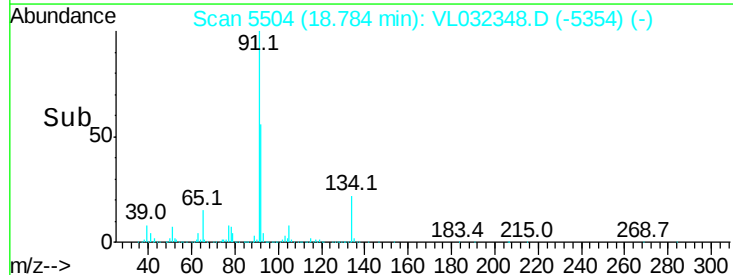
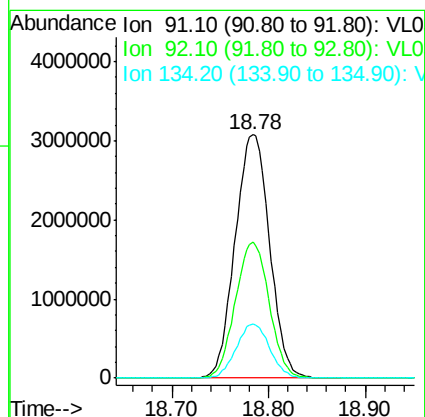
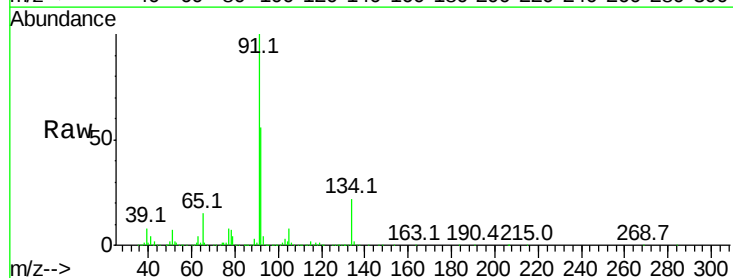
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

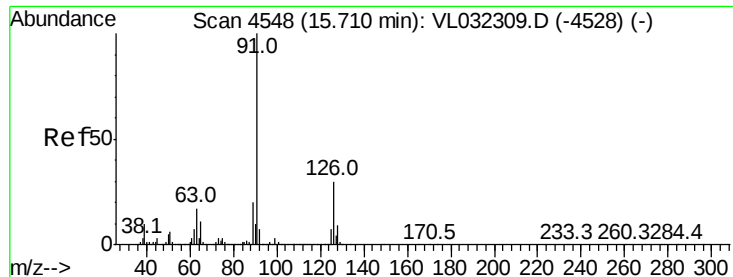
Tgt Ion: 119 Resp: 6886266
 Ion Ratio Lower Upper
 119 100
 134 25.5 20.3 30.5
 91 29.5 23.8 35.6



#70
 n-Butylbenzene
 Concen: 7.673 ppbv
 RT: 18.78 min Scan# 5504
 Delta R.T. -0.02 min
 Lab File: VL032348.D
 Acq: 15 Aug 2018 9:57

Tgt Ion: 91 Resp: 7616838
 Ion Ratio Lower Upper
 91 100
 92 54.9 44.2 66.4
 134 21.6 17.4 26.2





#71

2-Chlorotoluene

Concen: 8.116 ppbv

RT: 15.69 min Scan# 4542

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

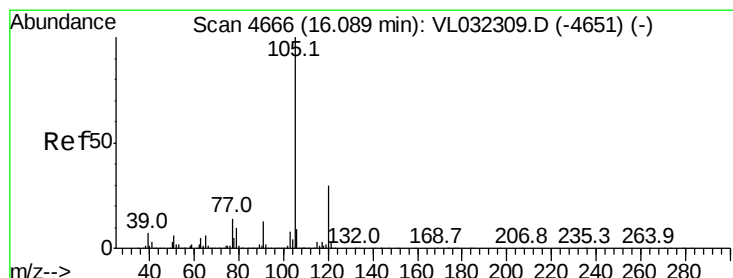
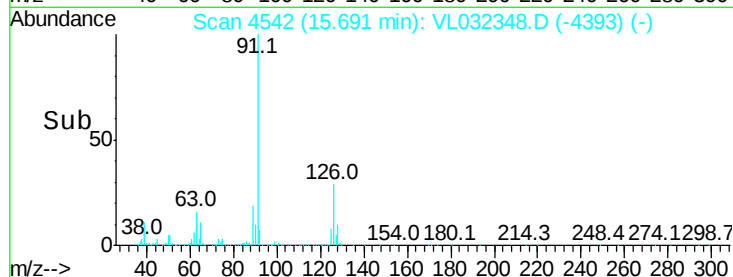
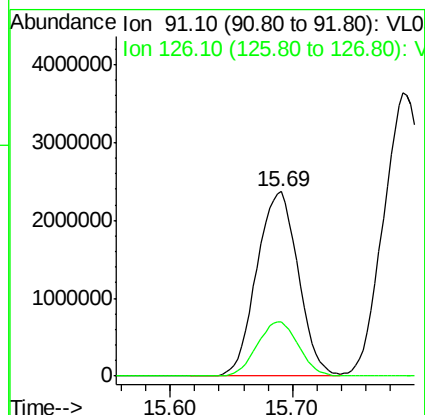
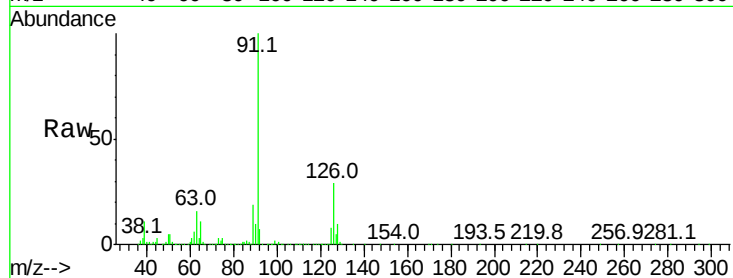
VSTDICCC010

Tgt Ion: 91 Resp: 5587008

Ion Ratio Lower Upper

91 100

126 29.5 11.8 47.0



#72

4-Ethyltoluene

Concen: 8.431 ppbv

RT: 16.07 min Scan# 4660

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Tgt Ion: 105 Resp: 5834038

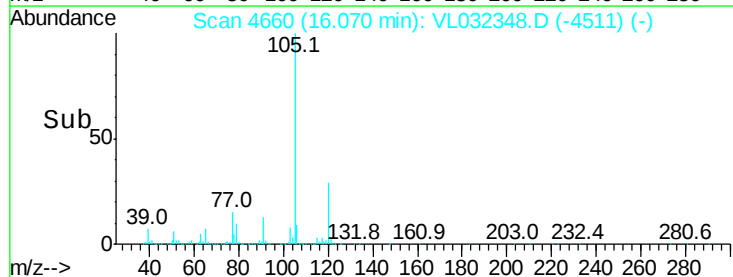
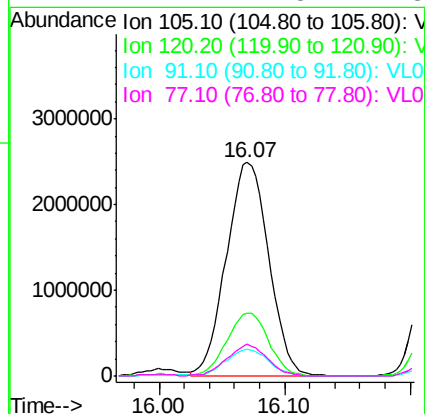
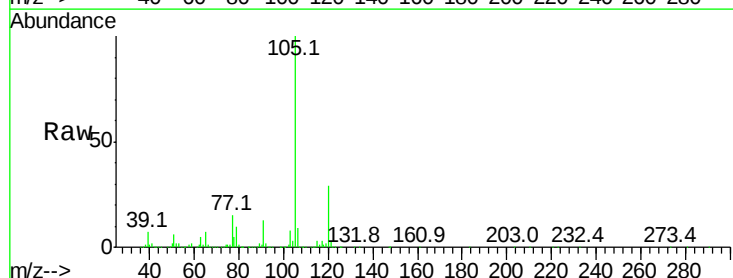
Ion Ratio Lower Upper

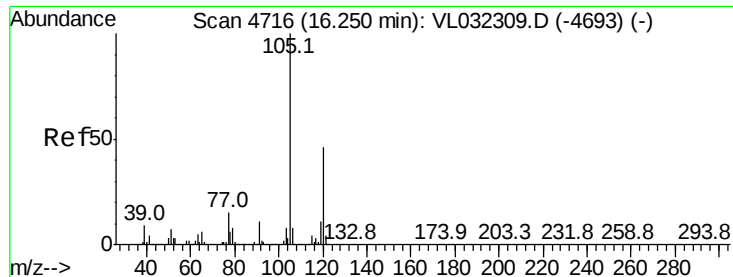
105 100

120 29.2 23.1 34.7

91 12.5 10.0 15.0

77 14.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 8.102 ppbv

RT: 16.23 min Scan# 4709

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

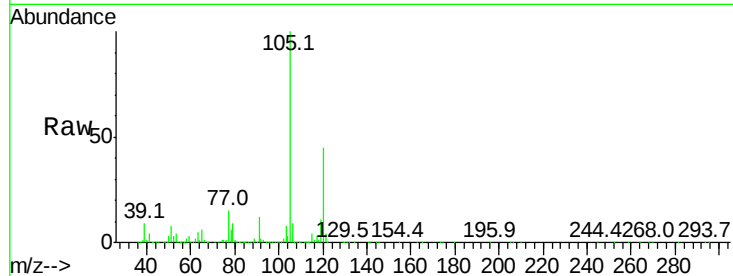
VSTDICCC010

Tgt Ion:105 Resp: 5518771

Ion Ratio Lower Upper

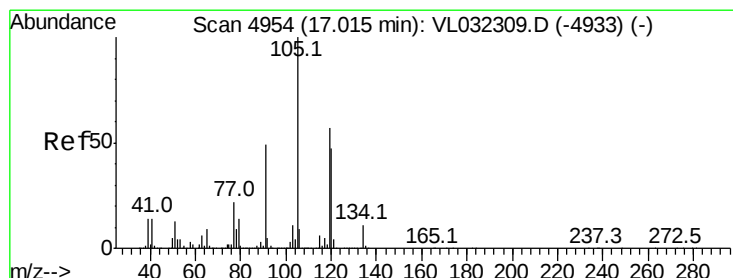
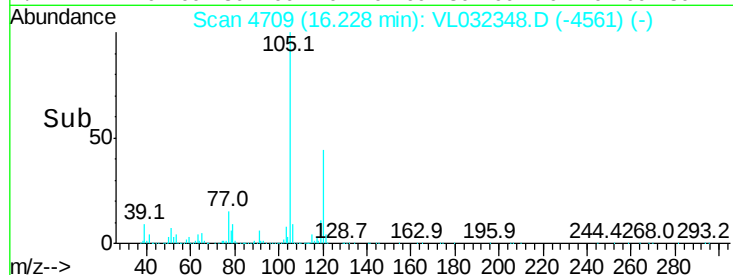
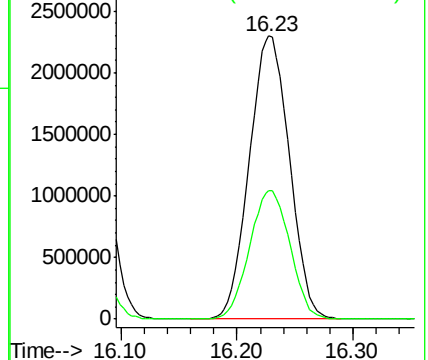
105 100

120 45.4 36.5 54.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.679 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Tgt Ion:105 Resp: 5514012

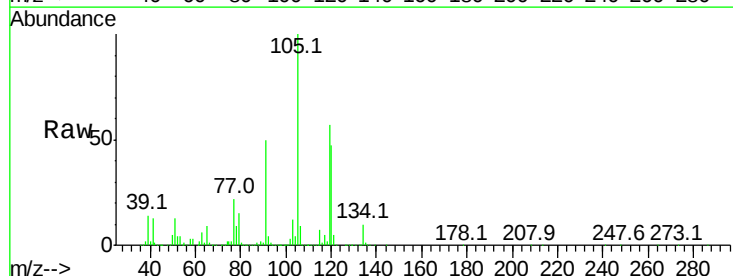
Ion Ratio Lower Upper

105 100

120 47.0 37.8 56.6

91 49.9 39.4 59.0

77 22.3 17.6 26.4

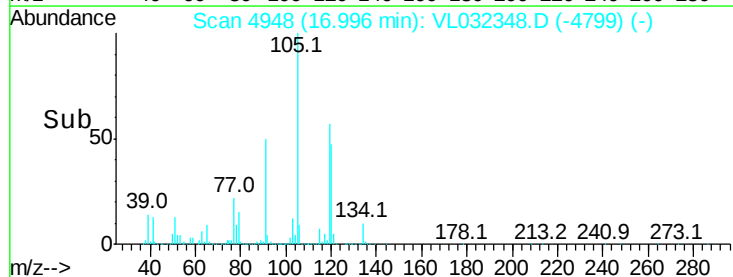
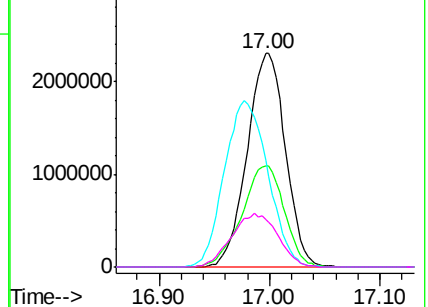


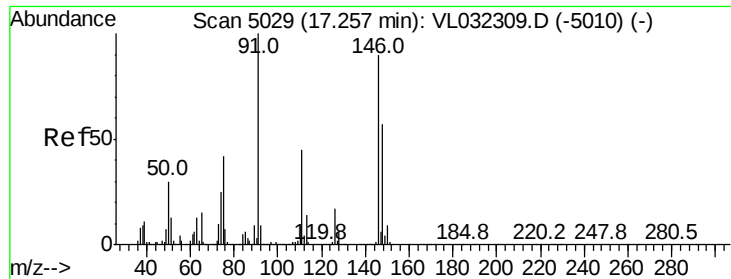
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.535 ppbv

RT: 17.24 min Scan# 5023

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

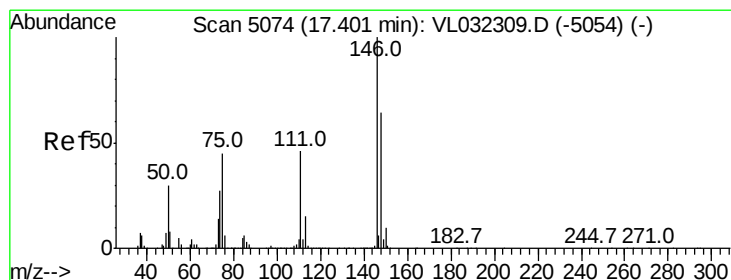
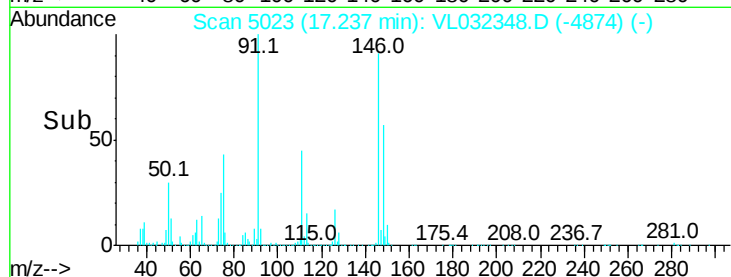
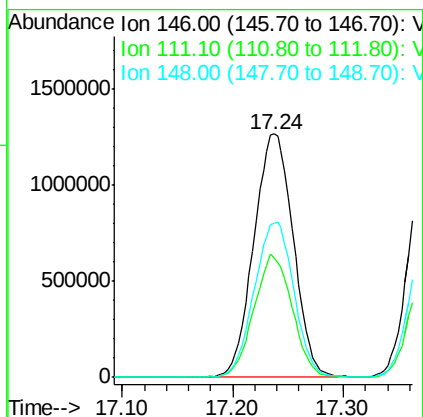
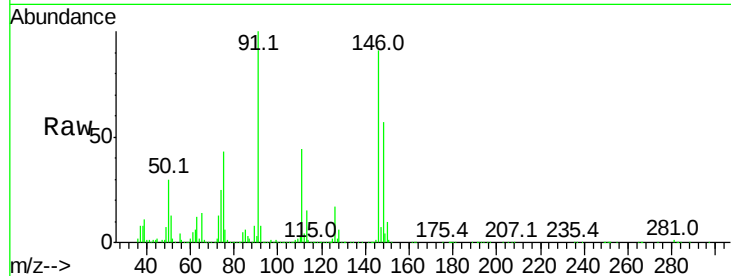
Tgt Ion:146 Resp: 3133175

Ion Ratio Lower Upper

146 100

111 49.2 24.6 73.8

148 64.0 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 7.980 ppbv

RT: 17.38 min Scan# 5067

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

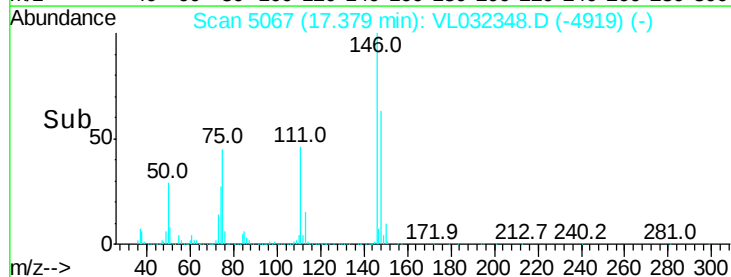
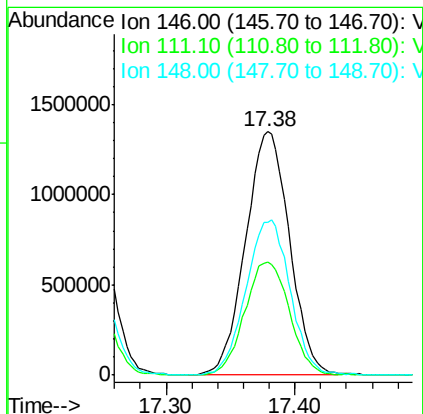
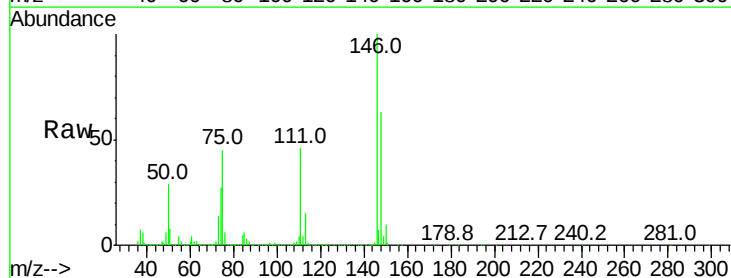
Tgt Ion:146 Resp: 3183870

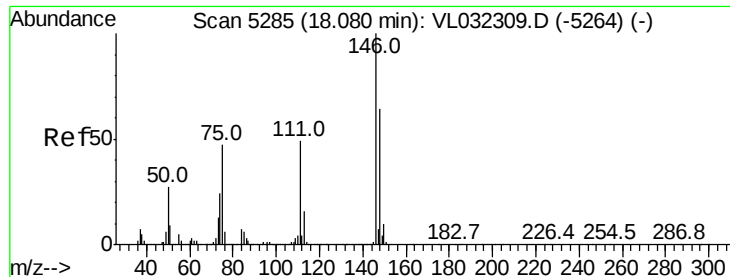
Ion Ratio Lower Upper

146 100

111 47.6 23.6 70.8

148 64.4 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 7.553 ppbv

RT: 18.06 min Scan# 5278

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

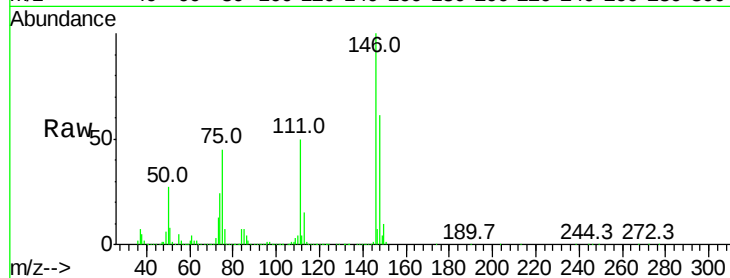
Tgt Ion:146 Resp: 3086162

Ion Ratio Lower Upper

146 100

111 50.4 25.1 75.3

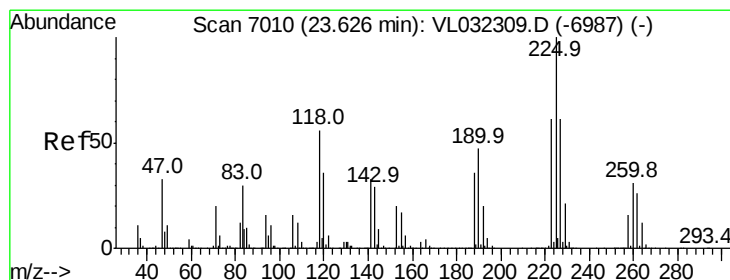
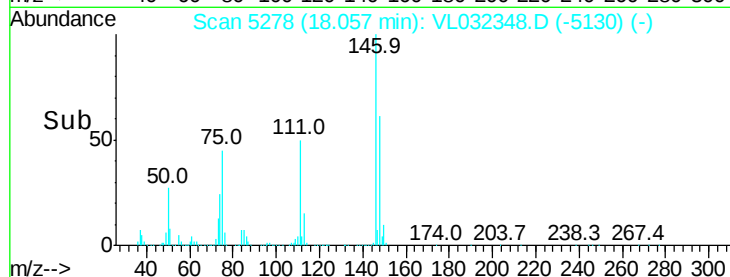
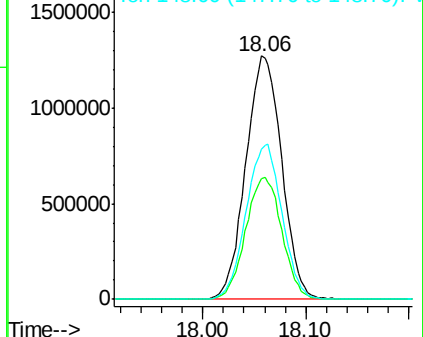
148 63.6 31.9 95.7



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: 6.535 ppbv

RT: 23.61 min Scan# 7004

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

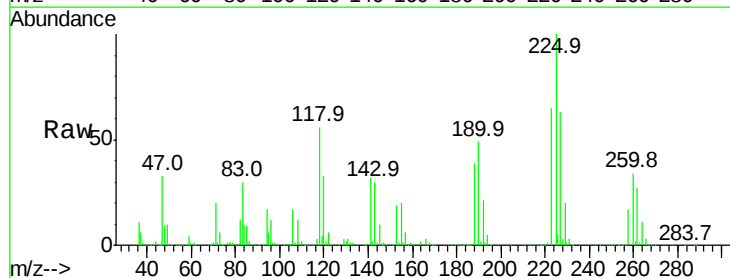
Tgt Ion:225 Resp: 938938

Ion Ratio Lower Upper

225 100

223 63.3 50.5 75.7

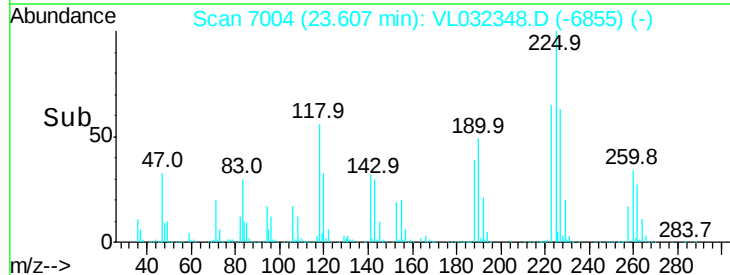
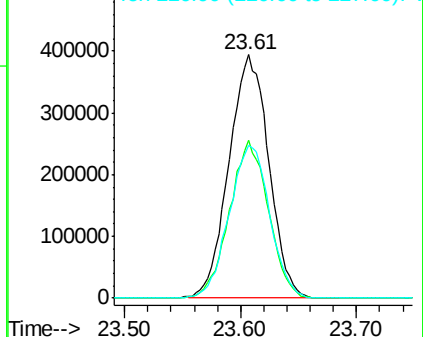
227 63.8 51.3 76.9

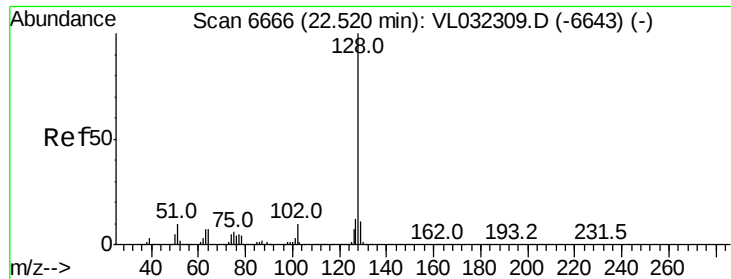


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.684 ppbv

RT: 22.49 min Scan# 6658

Delta R.T. -0.03 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

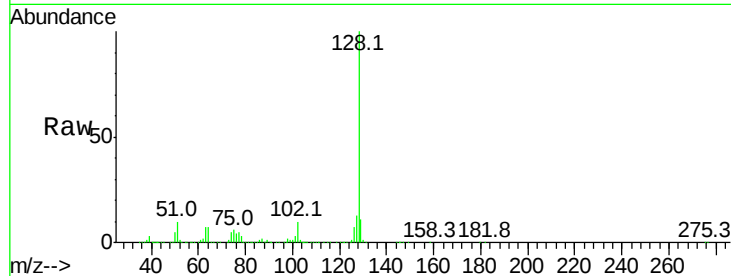
Tgt Ion:128 Resp: 5411394

Ion Ratio Lower Upper

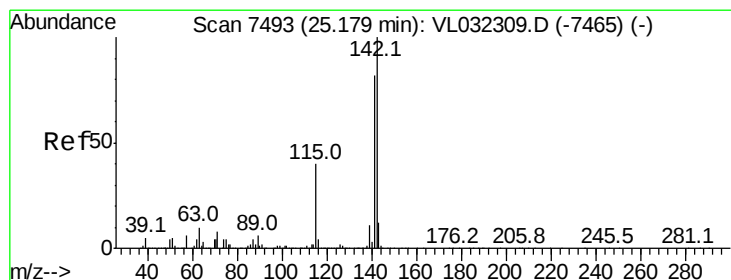
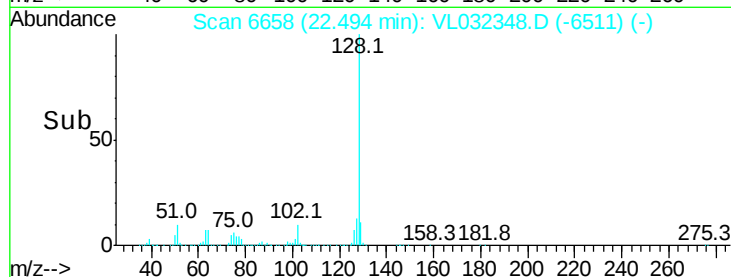
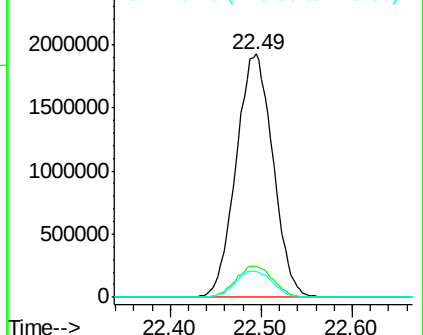
128 100

127 12.9 9.9 14.9

129 10.8 8.8 13.2



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: 9.519 ppbv

RT: 25.16 min Scan# 7488

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

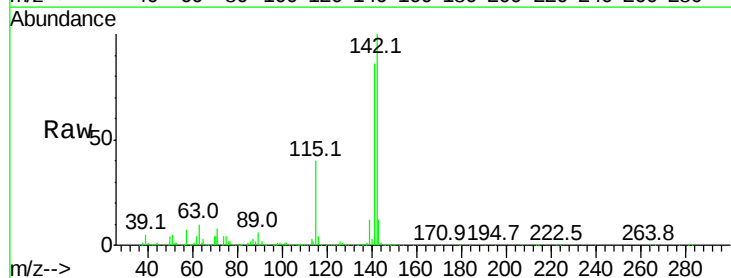
Tgt Ion:142 Resp: 2347355

Ion Ratio Lower Upper

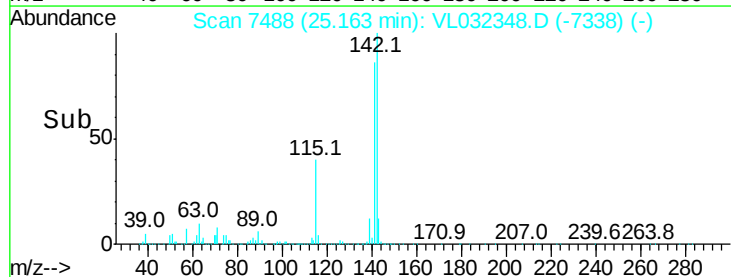
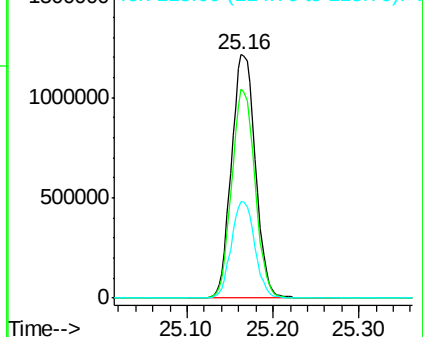
142 100

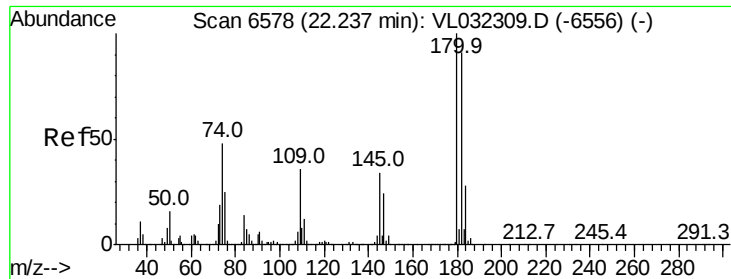
141 83.4 66.7 100.1

115 38.8 31.1 46.7



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





#81

1,2,4-Trichlorobenzene

Concen: 8.390 ppbv

RT: 22.22 min Scan# 6572

Delta R.T. -0.02 min

Lab File: VL032348.D

Acq: 15 Aug 2018 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

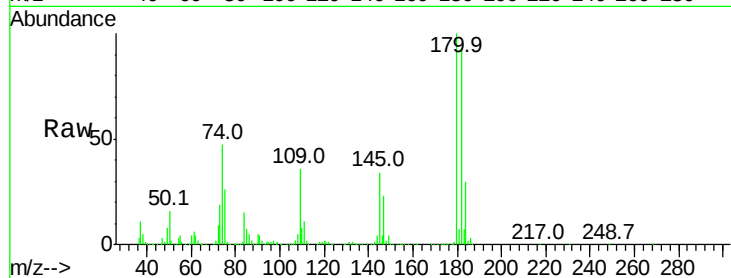
Tgt Ion:180 Resp: 2612628

Ion Ratio Lower Upper

180 100

182 95.1 76.2 114.2

184 30.2 24.3 36.5



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

