

Data File : VL033440.D
Acq On : 25 Mar 2019 14:28
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Mar 25 14:56:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	690465	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1607772	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1820648	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1363502	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1580738	13.019	ppbv	95
3) Chlorodifluoromethane	3.01	51	1164204	14.690	ppbv	98
4) Chloromethane	3.17	50	616429	14.364	ppbv	96
5) Vinyl Chloride	3.29	62	613649	13.861	ppbv	98
6) Bromomethane	3.51	94	394046	14.974	ppbv	98
7) Chloroethane	3.60	64	236411	15.282	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1550139	14.996	ppbv	99
9) Propene	3.04	41	491389	13.890	ppbv	100
10) Heptane	8.25	43	1447626	16.498	ppbv	100
11) Trichlorofluoromethane	4.00	101	1881079	15.558	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1276301	15.910	ppbv	99
13) Ethanol	3.65	45	108854	6.454	ppbv	94
14) Bromoethene	3.79	108	517545	15.478	ppbv	99
15) Acetone	3.90	43	1152327	10.736	ppbv	98
16) 1,3-Butadiene	3.36	39	506377	14.525	ppbv	98
17) tert-Butyl alcohol	4.36	59	184132	12.190	ppbv	98
18) 1,1-Dichloroethene	4.35	96	562219	15.327	ppbv	99
19) Isopropyl Alcohol	4.02	45	598107	11.715	ppbv	99
20) Methylene Chloride	4.41	84	475382	13.581	ppbv	99
21) Allyl Chloride	4.48	41	850668	16.338	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	584282	16.437	ppbv	97
23) Vinyl Acetate	5.16	43	1916836	15.435	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1326631	14.791	ppbv	99
25) Ethyl Acetate	5.77	43	2341874	15.010	ppbv	100
26) Hexane	5.78	57	1032727	14.806	ppbv	99
27) Carbon Disulfide	4.62	76	1447458	18.026	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1539394	14.859	ppbv	99
29) Chloroform	5.85	83	1786032	15.638	ppbv	100
30) Cyclohexane	7.25	84	876049	15.665	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1100924	15.786	ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	1790846	15.970	ppbv	99
34) 2-Butanone	5.33	43	1543220	14.615	ppbv	99
35) Carbon Tetrachloride	7.14	117	1909733	16.848	ppbv	98
36) Benzene	7.01	78	2163147	15.034	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1390295	15.281	ppbv	99
38) Trichloroethene	7.97	130	889795	16.342	ppbv	95
39) 1,2-Dichloropropane	7.74	63	829223	15.389	ppbv	98
40) 1,4-Dioxane	7.96	88	254576	13.417	ppbv	# 1
41) Tetrahydrofuran	6.15	42	886169	15.727	ppbv	99
42) Bromodichloromethane	7.92	83	2051588	16.819	ppbv	100
43) Methyl Methacrylate	8.14	69	956846	17.079	ppbv	98

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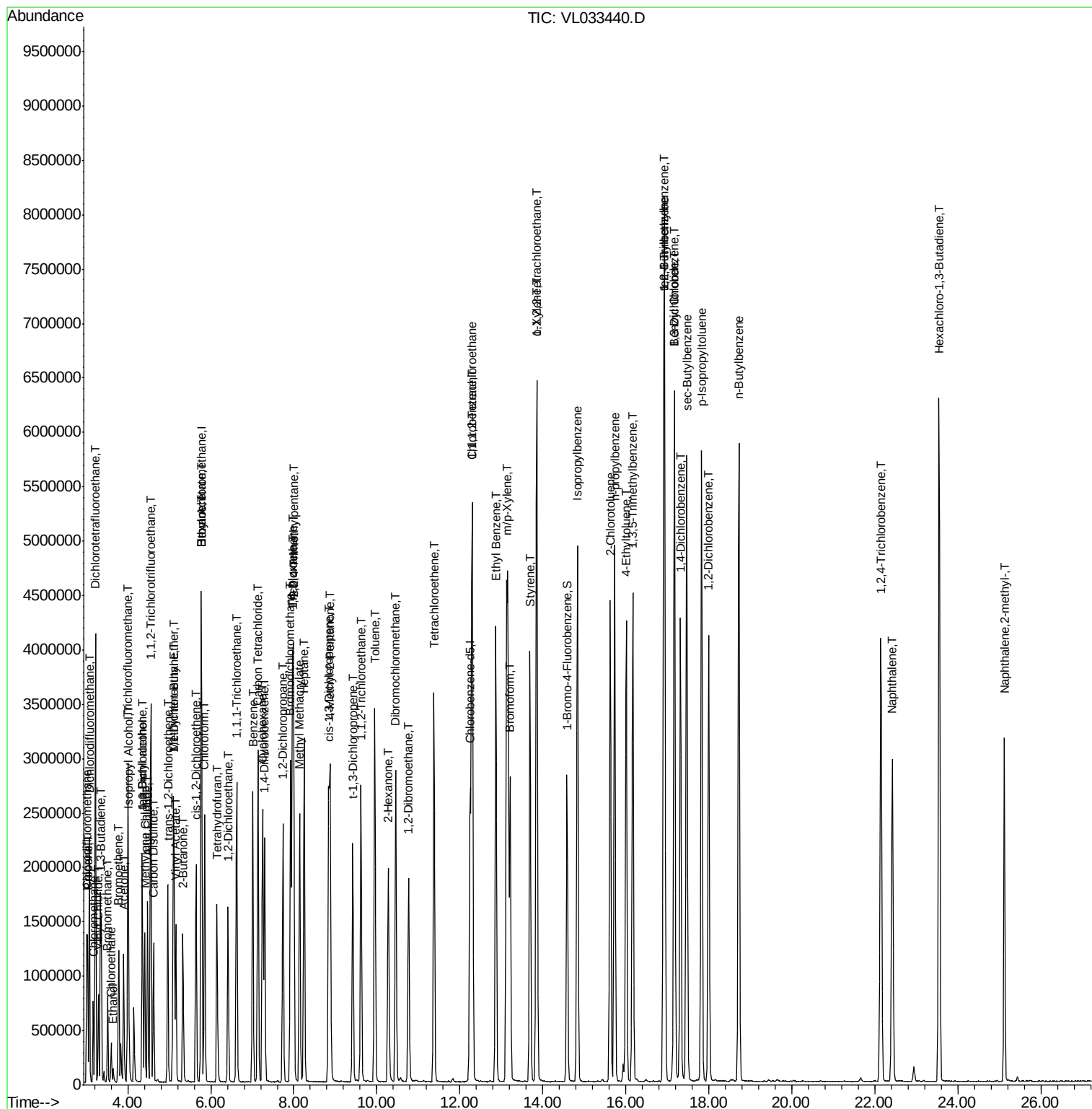
Quant Time: Mar 25 14:56:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
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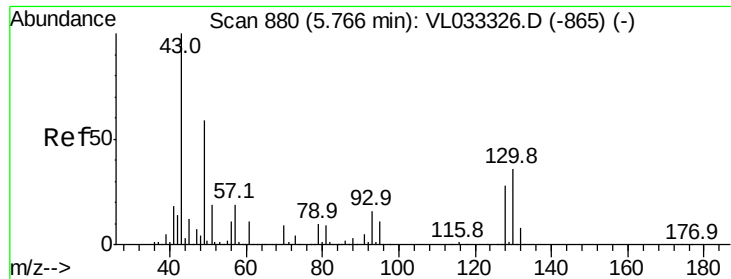
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3747886	15.726	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1347704	19.484	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1483381	18.213	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	972805	16.340	ppbv	94
48) Dibromochloromethane	10.46	129	1814817	18.176	ppbv	100
49) Bromoform	13.21	173	1675272	17.687	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2388920	16.018	ppbv	100
51) 2-Hexanone	10.27	43	1918107	16.670	ppbv #	100
52) Tetrachloroethene	11.38	164	894365	14.920	ppbv	98
53) Toluene	9.95	91	2777257	16.987	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1596699	15.865	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1253780	15.394	ppbv #	73
57) Chlorobenzene	12.31	112	2098630	14.554	ppbv	99
58) Ethyl Benzene	12.87	91	3916340	15.206	ppbv	98
59) m/p-Xylene	13.13	91	3263306	14.743	ppbv #	100
60) o-Xylene	13.86	91	3224006	14.930	ppbv	99
61) Styrene	13.69	104	2441729	16.150	ppbv	100
62) Isopropylbenzene	14.83	105	4560623	15.192	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2242225	14.364	ppbv	100
64) n-propylbenzene	15.73	120	1188254	15.642	ppbv	96
65) tert-Butylbenzene	16.92	119	4111595	15.213	ppbv	98
66) Benzyl Chloride	17.16	91	2482201	22.224	ppbv	99
67) sec-Butylbenzene	17.47	105	5863044	15.309	ppbv	99
69) p-Isopropyltoluene	17.82	119	4855149	15.517	ppbv	99
70) n-Butylbenzene	18.72	91	5136557	15.396	ppbv	100
71) 2-Chlorotoluene	15.62	91	3580246	15.321	ppbv	99
72) 4-Ethyltoluene	16.01	105	3825977	15.602	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3659073	15.317	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3783889	14.956	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2243789	15.047	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2267585	15.706	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2218744	15.710	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1679115	19.831	ppbv	100
79) Naphthalene	22.42	128	3923764	16.094	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	1770271	15.313	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1980769	15.932	ppbv	99

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration

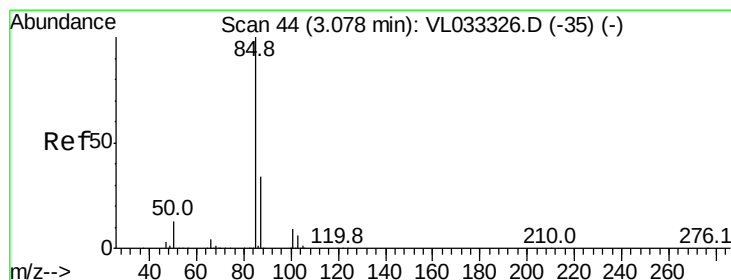
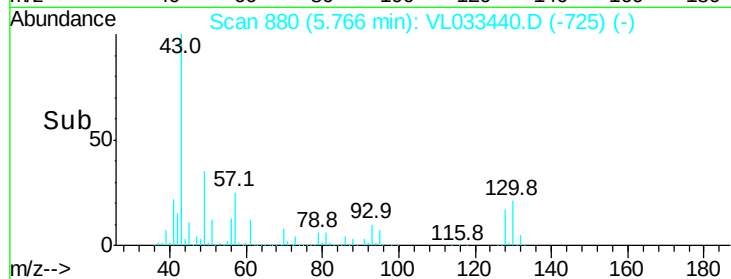
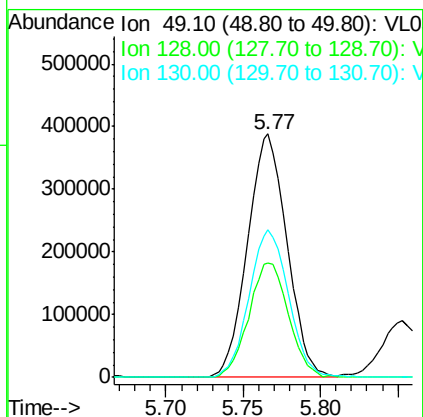
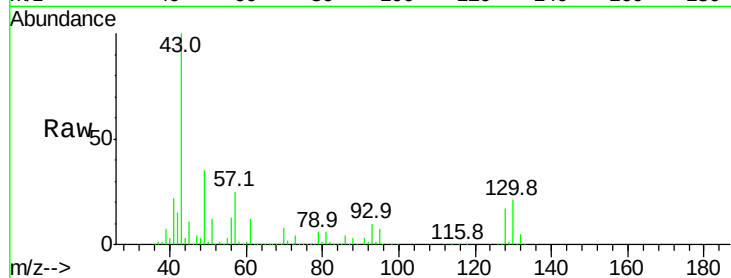




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.77 min Scan# 880
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

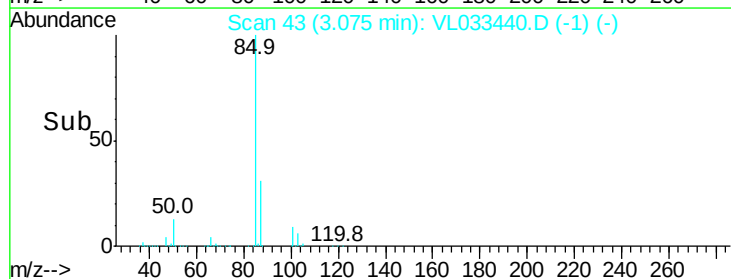
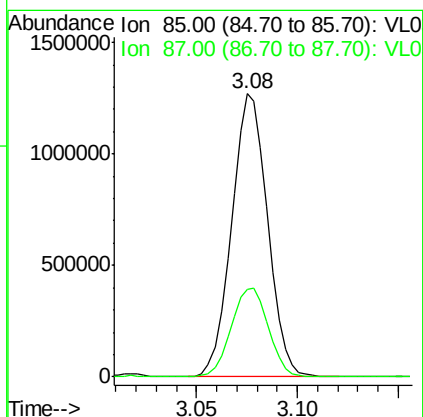
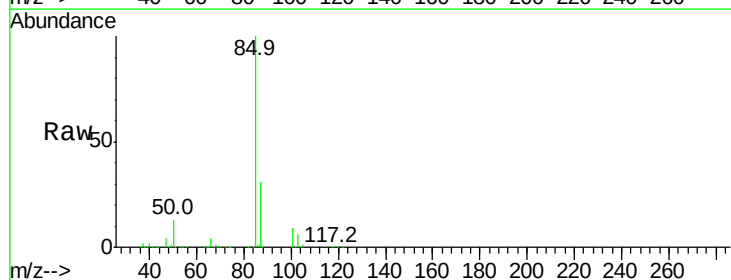
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

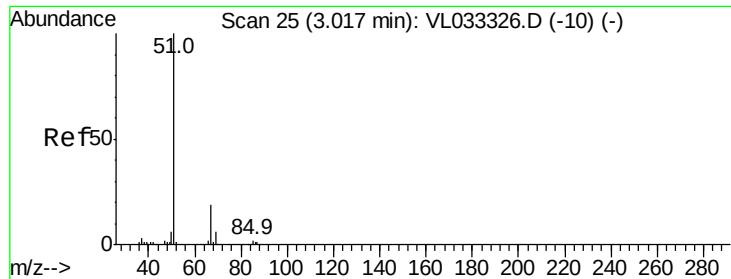
Tgt Ion: 49 Resp: 690465
 Ion Ratio Lower Upper
 49 100
 128 47.3 23.5 70.6
 130 60.9 30.1 90.3



#2
 Dichlorodifluoromethane
 Concen: 13.019 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion: 85 Resp: 1580738
 Ion Ratio Lower Upper
 85 100
 87 30.8 26.9 40.3





#3

Chlorodifluoromethane

Concen: 14.690 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

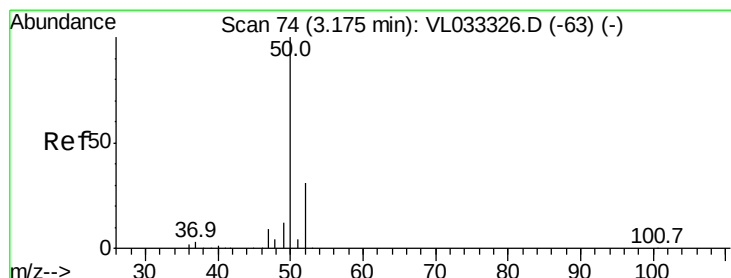
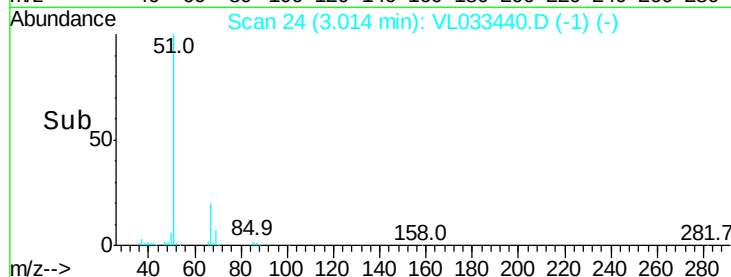
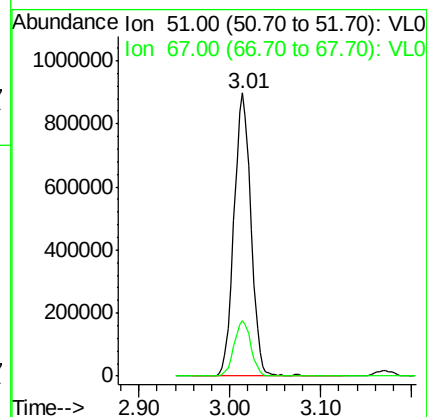
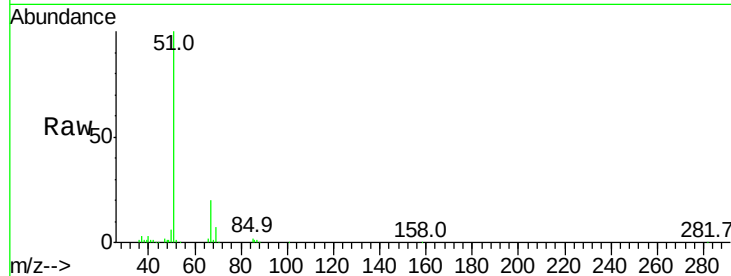
VSTDIC015

Tgt Ion: 51 Resp: 1164204

Ion Ratio Lower Upper

51 100

67 19.5 14.9 22.3



#4

Chloromethane

Concen: 14.364 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033440.D

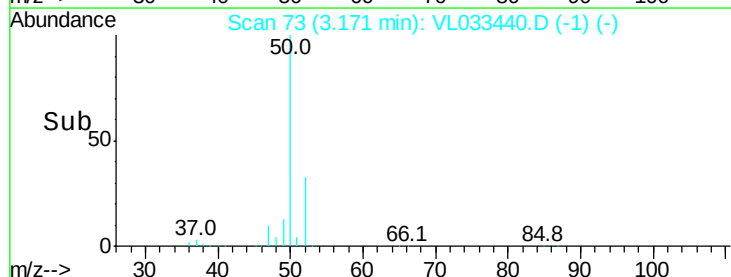
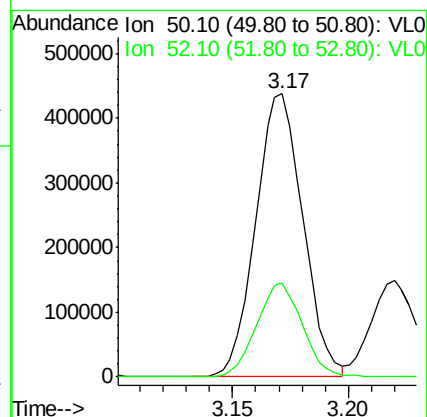
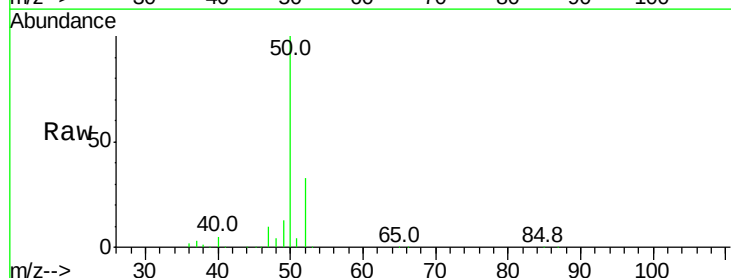
Acq: 25 Mar 2019 14:28

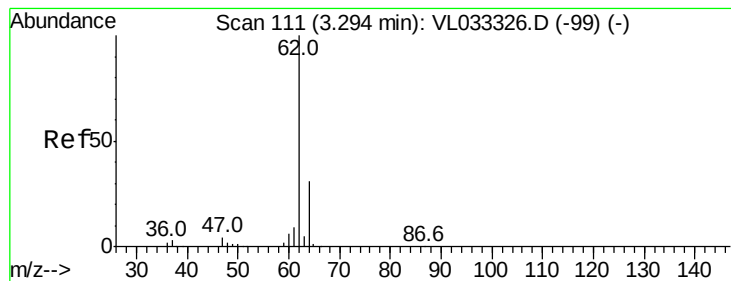
Tgt Ion: 50 Resp: 616429

Ion Ratio Lower Upper

50 100

52 33.4 25.0 37.6





#5

Vinyl Chloride

Concen: 13.861 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

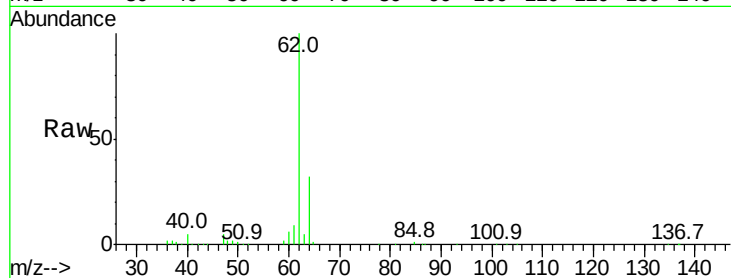
VSTDIC015

Tgt Ion: 62 Resp: 613649

Ion Ratio Lower Upper

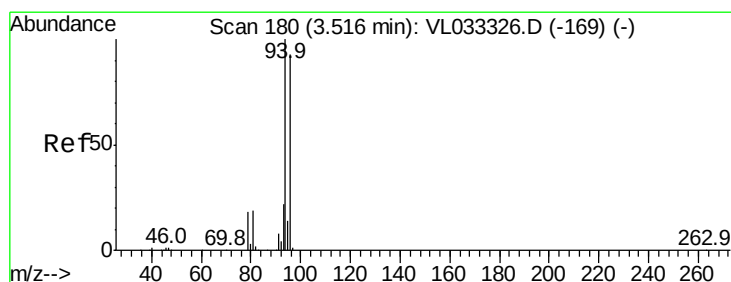
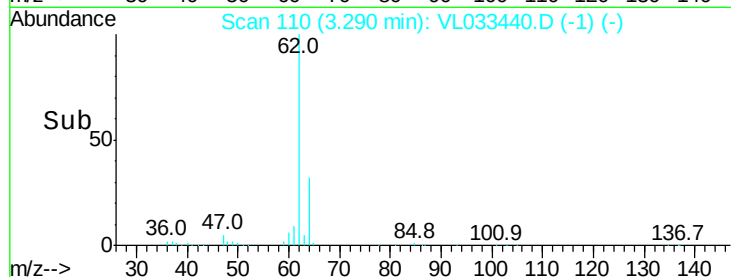
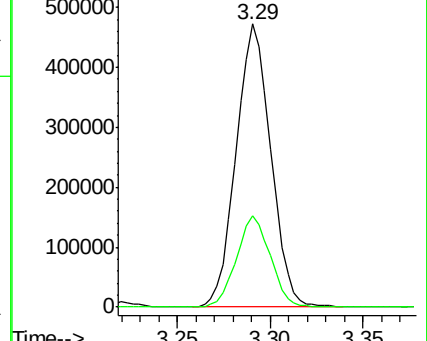
62 100

64 32.5 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 14.974 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033440.D

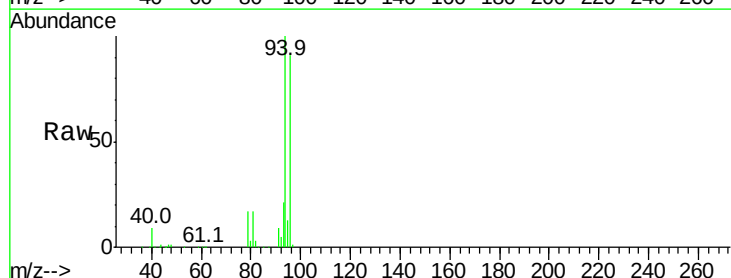
Acq: 25 Mar 2019 14:28

Tgt Ion: 94 Resp: 394046

Ion Ratio Lower Upper

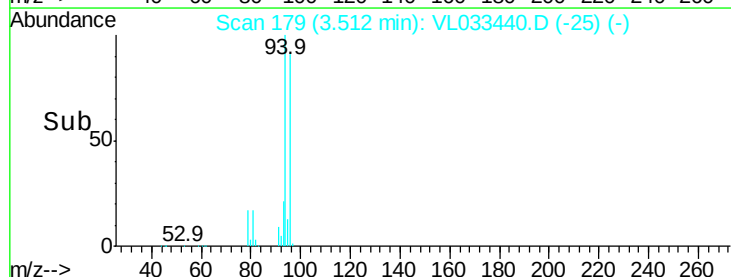
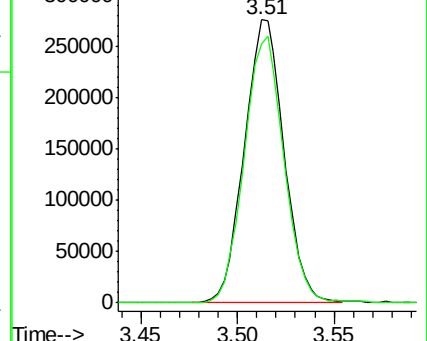
94 100

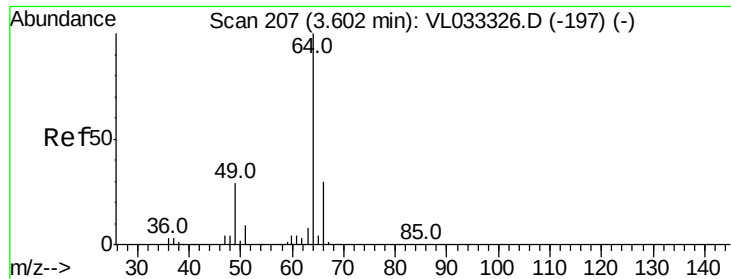
96 91.4 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 15.282 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

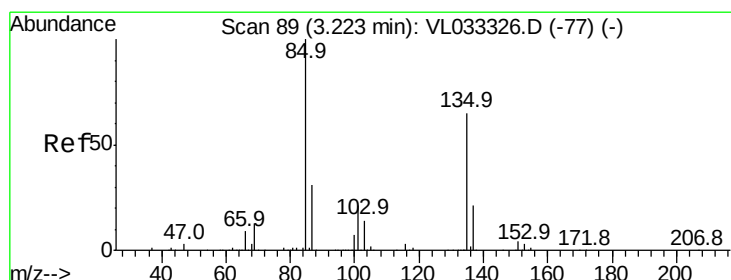
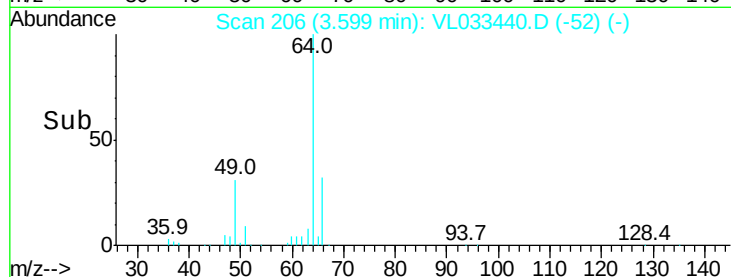
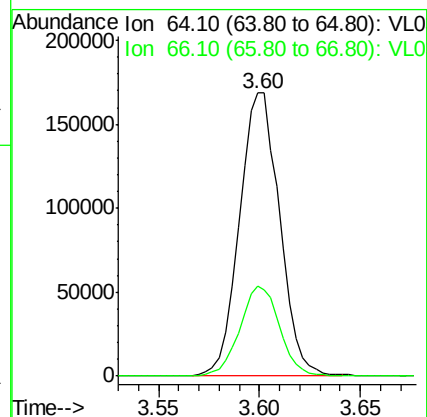
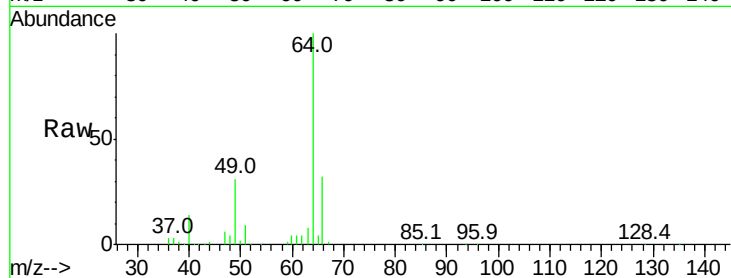
VSTDIC015

Tgt Ion: 64 Resp: 236411

Ion Ratio Lower Upper

64 100

66 31.9 24.0 36.0



#8

Dichlorotetrafluoroethane

Concen: 14.996 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033440.D

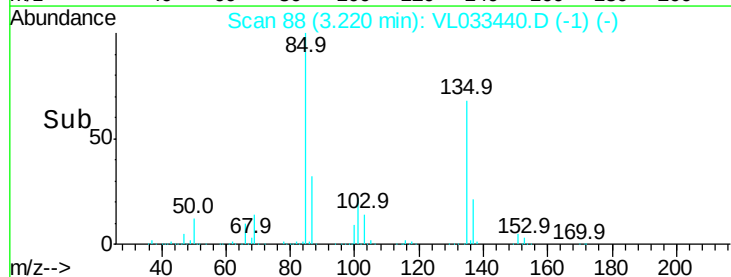
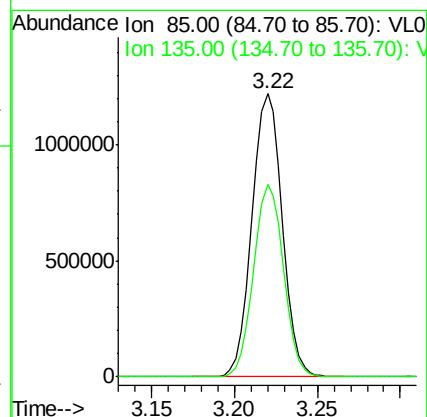
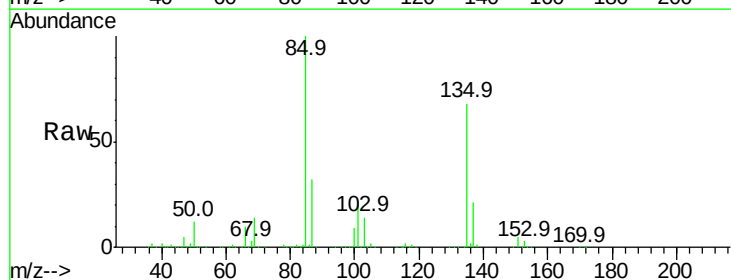
Acq: 25 Mar 2019 14:28

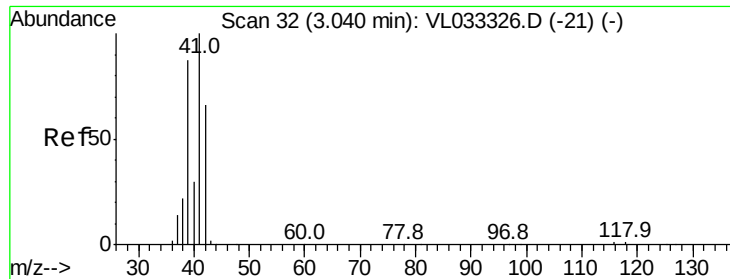
Tgt Ion: 85 Resp: 1550139

Ion Ratio Lower Upper

85 100

135 67.5 53.4 80.2





#9

Propene

Concen: 13.890 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033440.D

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ClientSampleId :

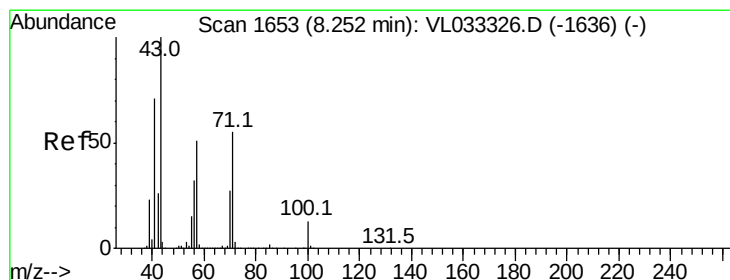
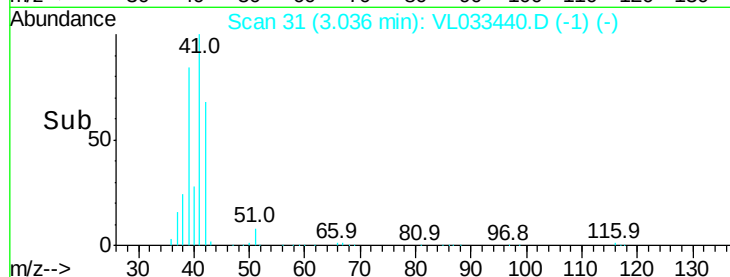
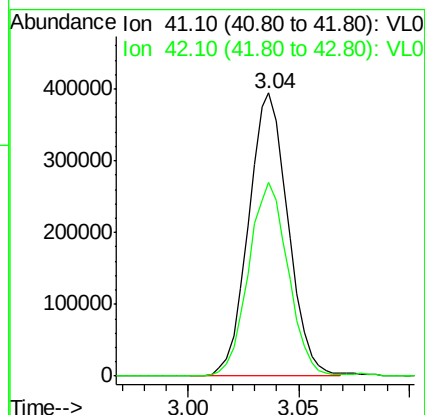
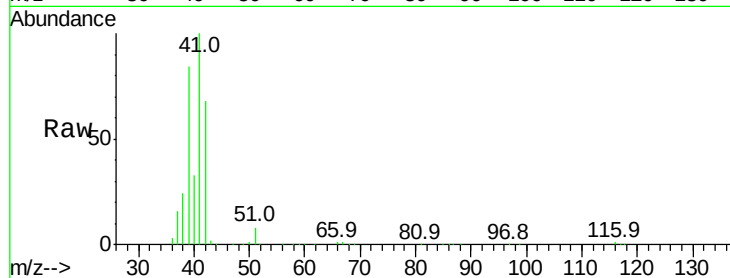
VSTDIC015

Tgt Ion: 41 Resp: 491389

Ion Ratio Lower Upper

41 100

42 69.3 55.2 82.8



#10

Heptane

Concen: 16.498 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033440.D

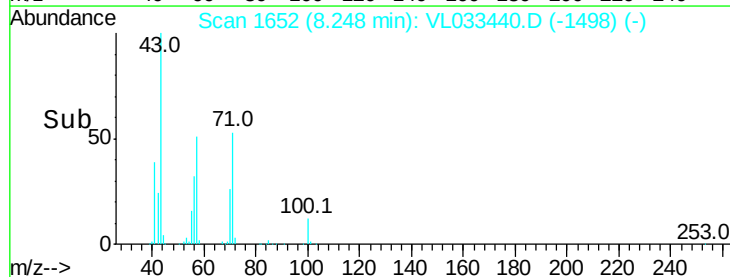
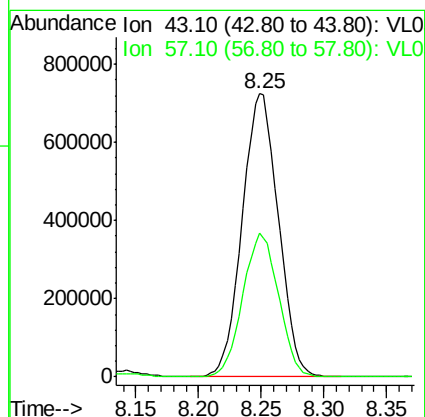
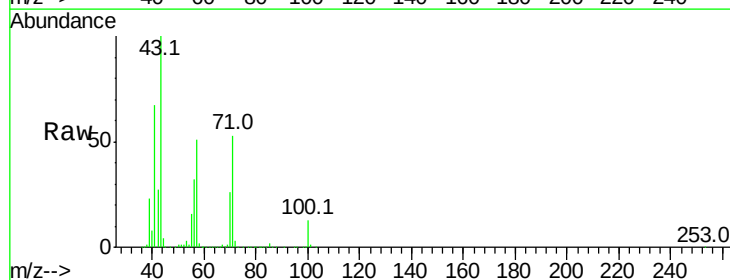
Acq: 25 Mar 2019 14:28

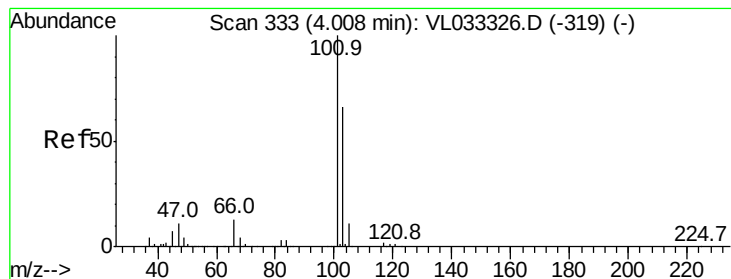
Tgt Ion: 43 Resp: 1447626

Ion Ratio Lower Upper

43 100

57 50.6 40.4 60.6





#11

Trichlorofluoromethane

Concen: 15.558 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

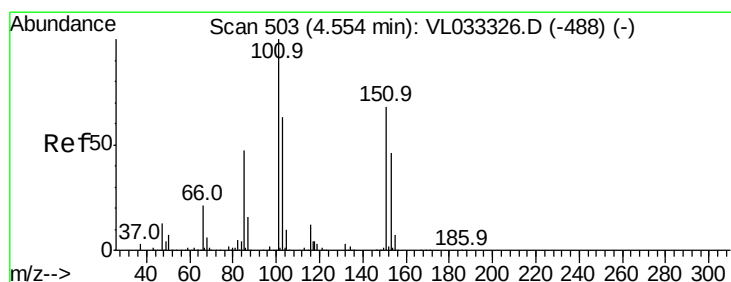
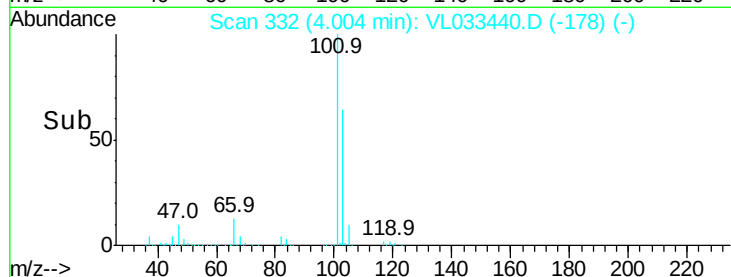
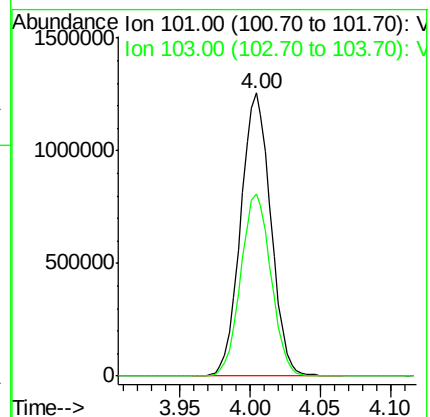
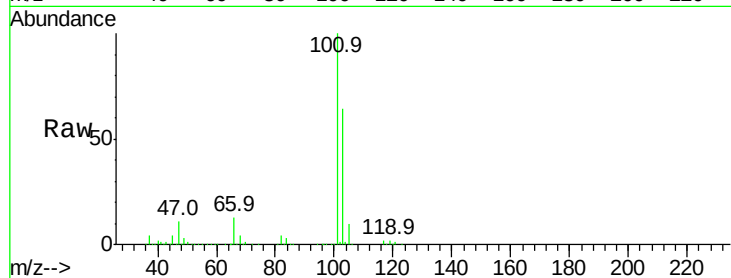
VSTDIC015

Tgt Ion:101 Resp: 1881079

Ion Ratio Lower Upper

101 100

103 64.4 52.9 79.3



#12

1,1,2-Trichlorotrifluoroethane

Concen: 15.910 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033440.D

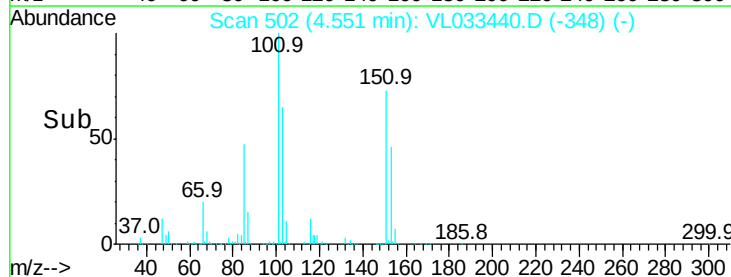
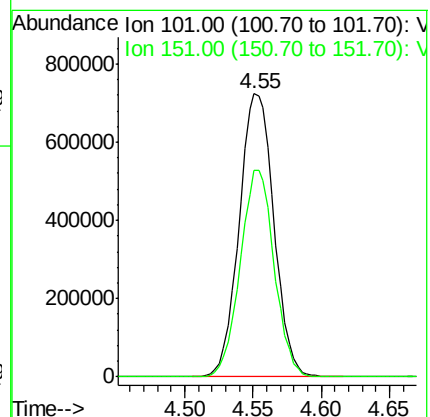
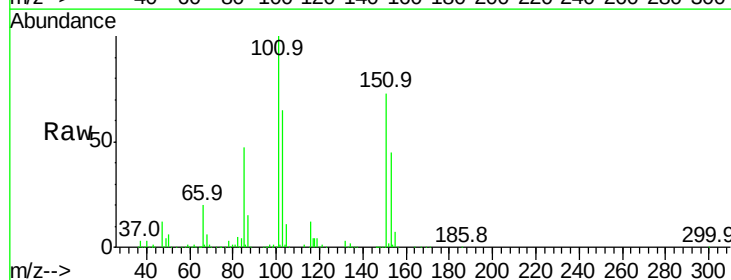
Acq: 25 Mar 2019 14:28

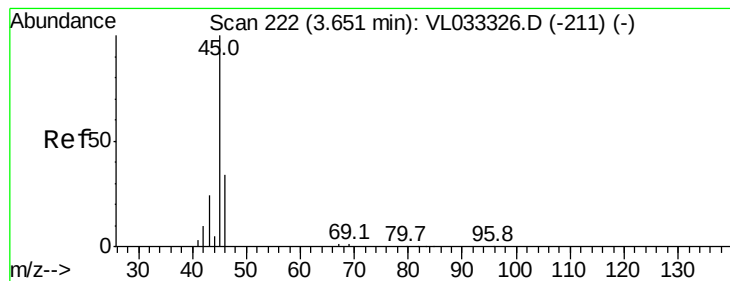
Tgt Ion:101 Resp: 1276301

Ion Ratio Lower Upper

101 100

151 71.5 56.3 84.5





#13

Ethanol

Concen: 6.454 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

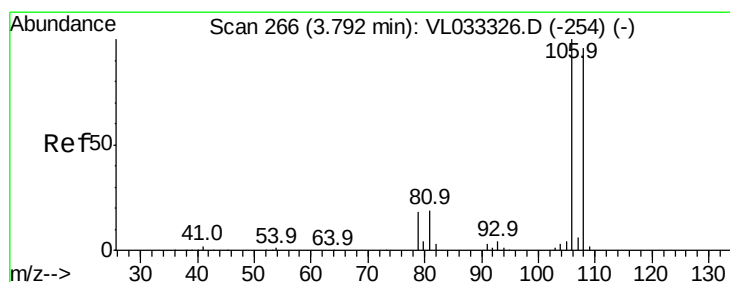
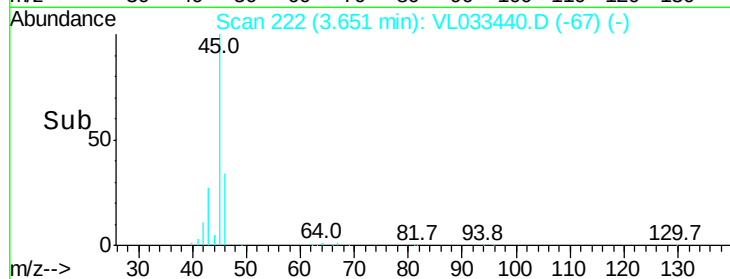
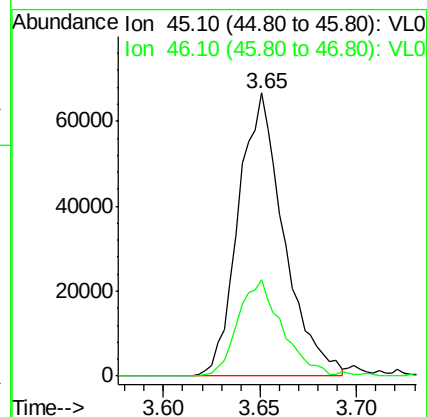
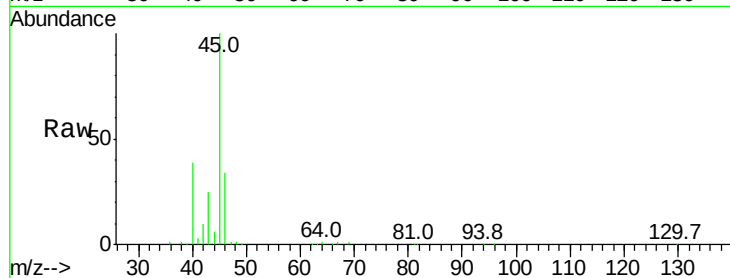
VSTDIC015

Tgt Ion: 45 Resp: 108854

Ion Ratio Lower Upper

45 100

46 33.9 14.9 59.7



#14

Bromoethene

Concen: 15.478 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

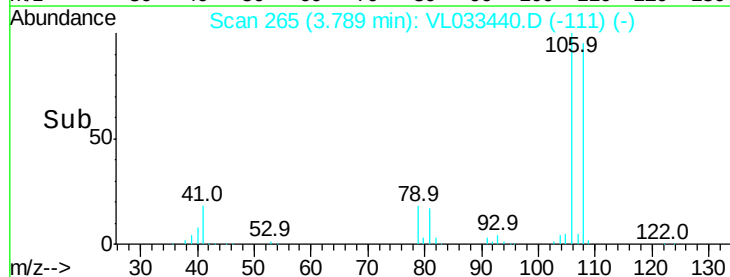
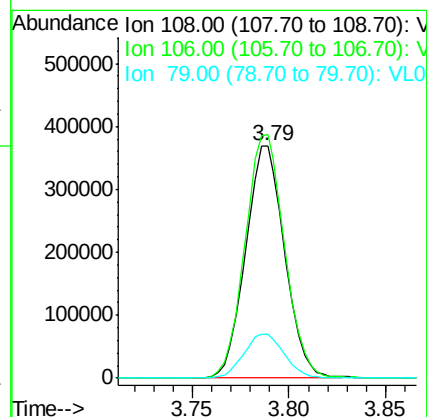
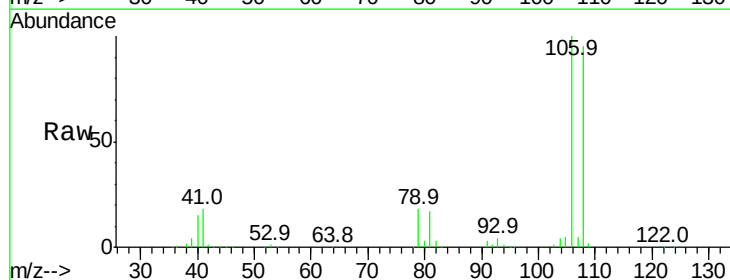
Tgt Ion: 108 Resp: 517545

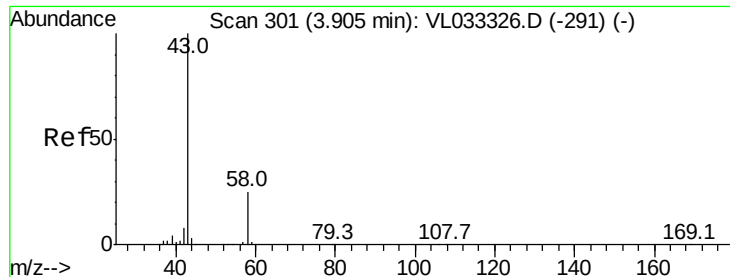
Ion Ratio Lower Upper

108 100

106 106.8 86.2 129.2

79 19.8 15.4 23.2





#15

Acetone

Concen: 10.736 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

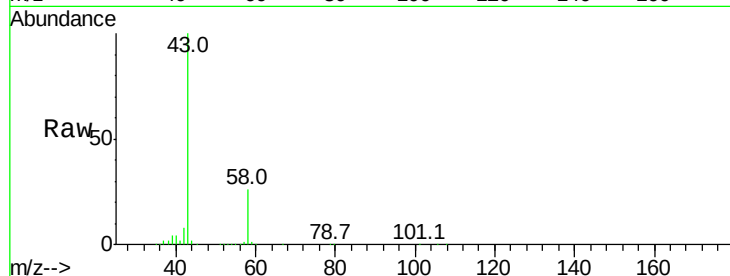
VSTDIC015

Tgt Ion: 43 Resp: 1152327

Ion Ratio Lower Upper

43 100

58 26.3 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

600000

400000

200000

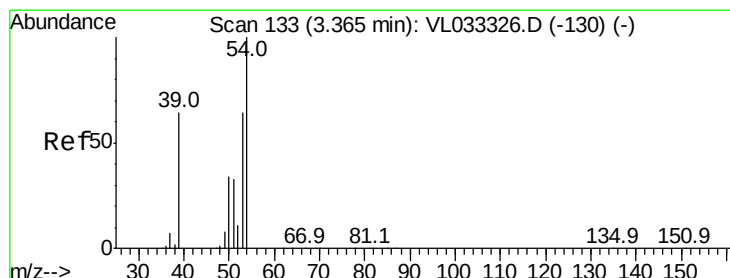
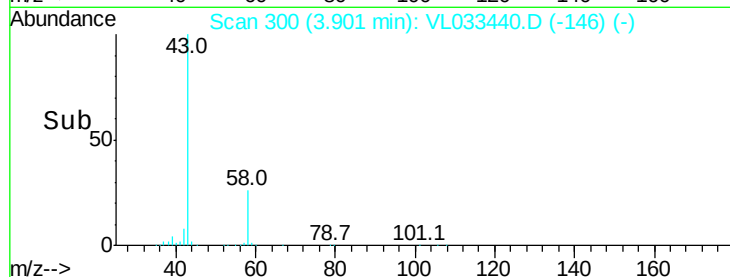
0

Time-->

3.85

3.90

3.95



#16

1,3-Butadiene

Concen: 14.525 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL033440.D

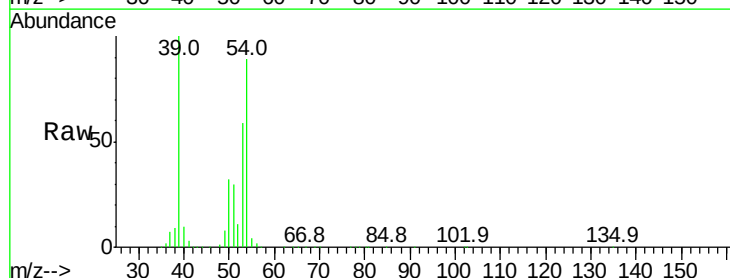
Acq: 25 Mar 2019 14:28

Tgt Ion: 39 Resp: 506377

Ion Ratio Lower Upper

39 100

54 97.9 76.8 115.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

300000

200000

100000

0

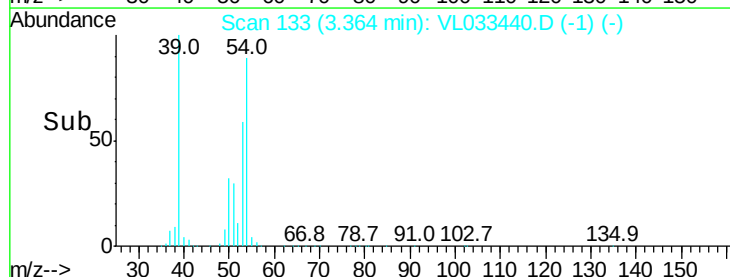
Time-->

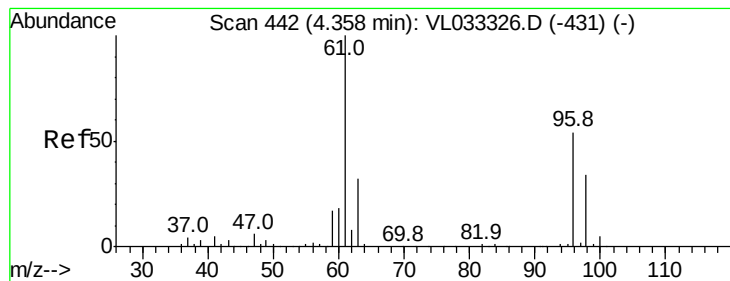
3.34

3.36

3.38

3.40





#17

tert-Butyl alcohol

Concen: 12.190 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

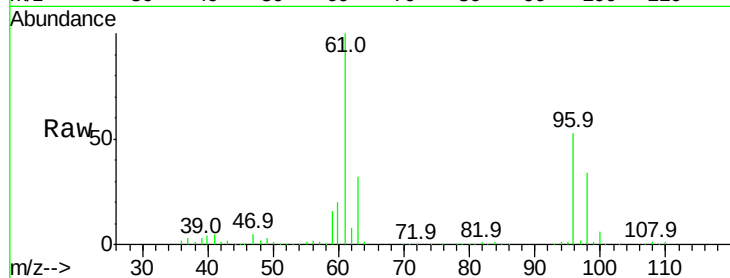
VSTDIC015

Tgt Ion: 59 Resp: 184132

Ion Ratio Lower Upper

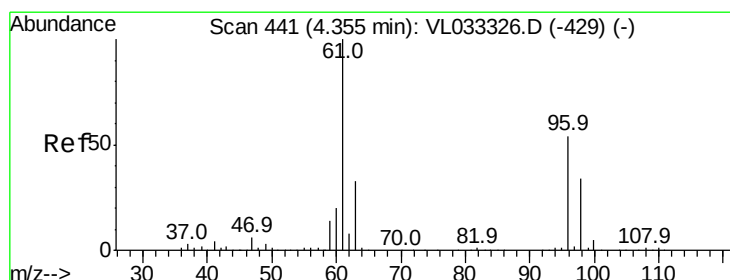
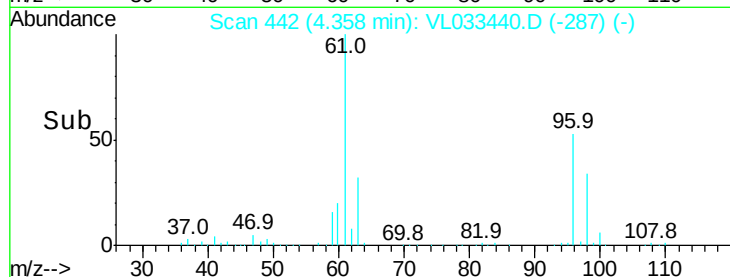
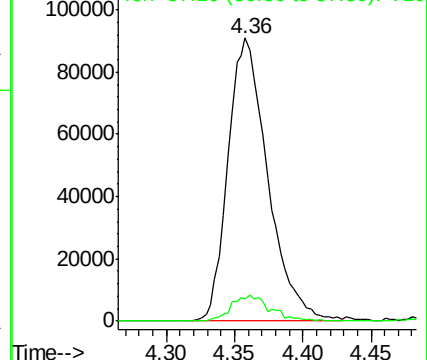
59 100

57 8.9 7.7 11.5



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 15.327 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

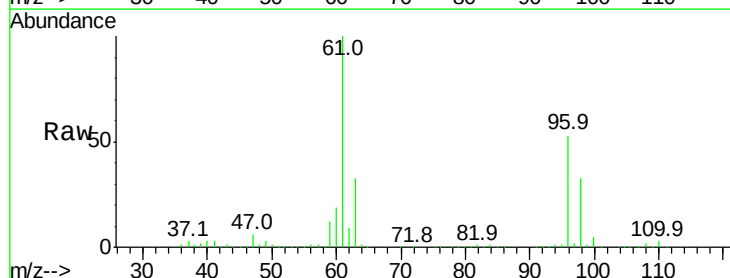
Tgt Ion: 96 Resp: 562219

Ion Ratio Lower Upper

96 100

61 187.7 148.6 222.8

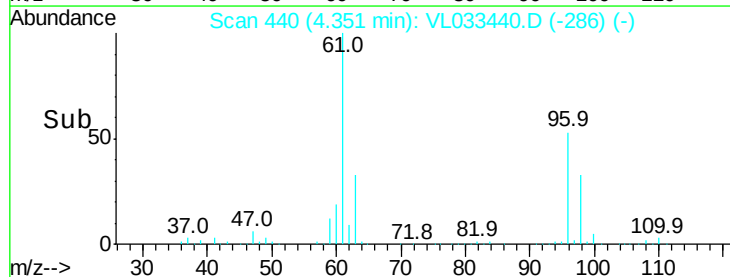
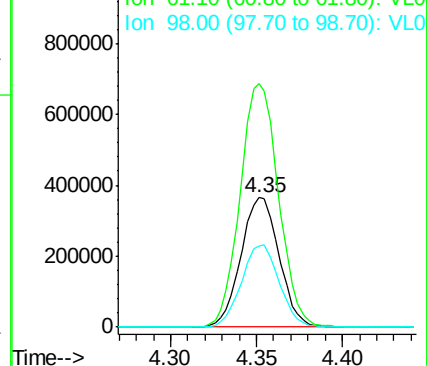
98 62.2 50.3 75.5

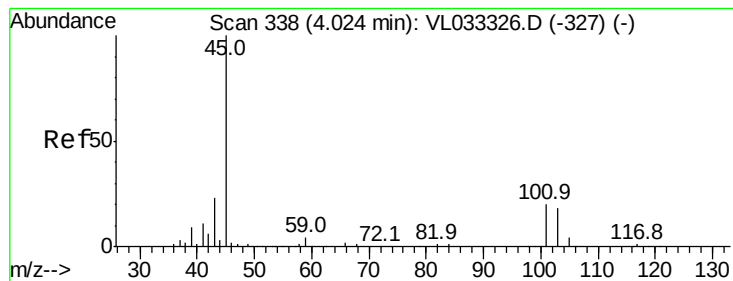


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 11.715 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

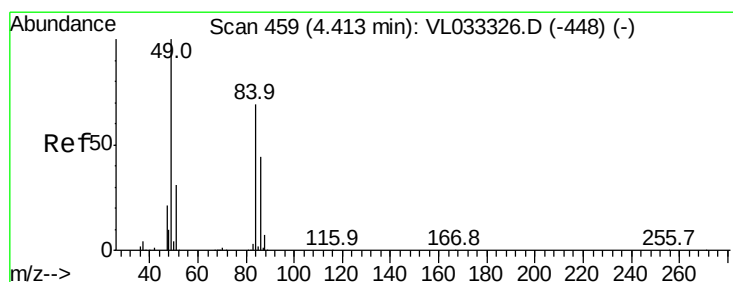
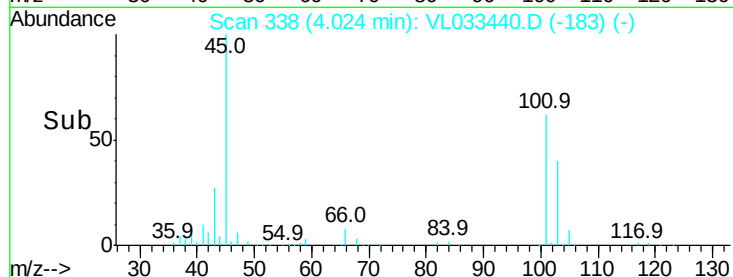
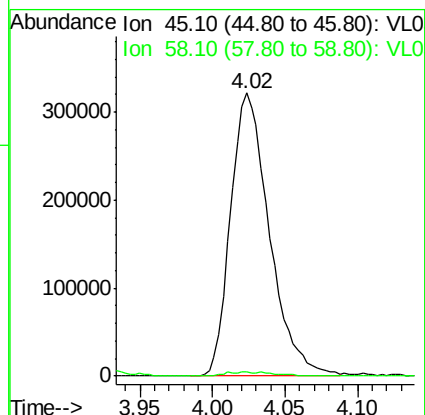
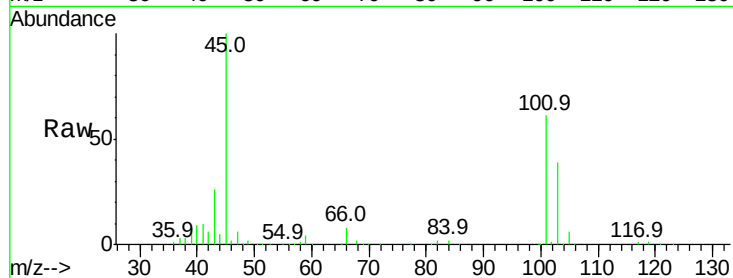
VSTDIC015

Tgt Ion: 45 Resp: 598107

Ion Ratio Lower Upper

45 100

58 2.2 1.5 2.3



#20

Methylene Chloride

Concen: 13.581 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion: 84 Resp: 475382

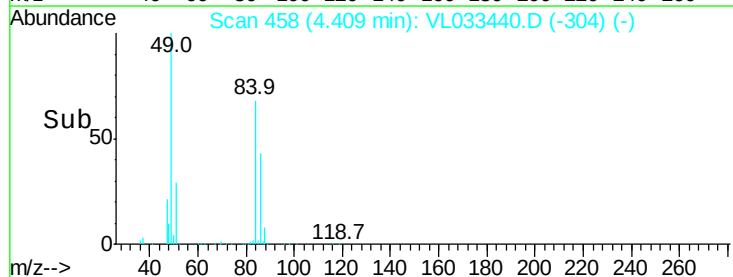
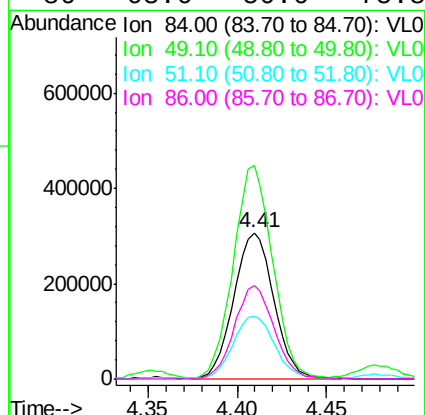
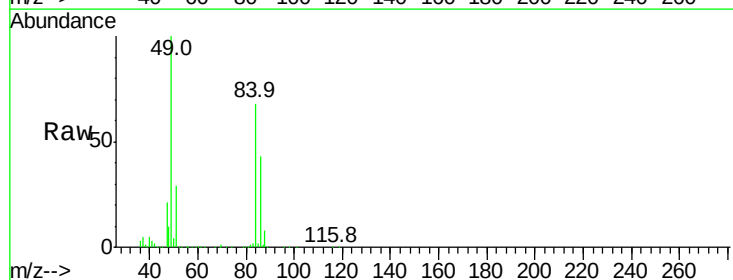
Ion Ratio Lower Upper

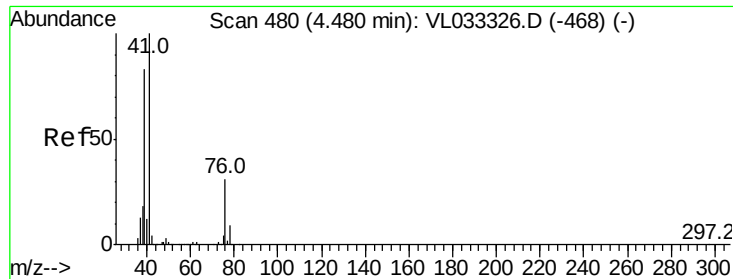
84 100

49 145.6 115.4 173.0

51 42.7 35.8 53.6

86 63.6 50.6 75.8

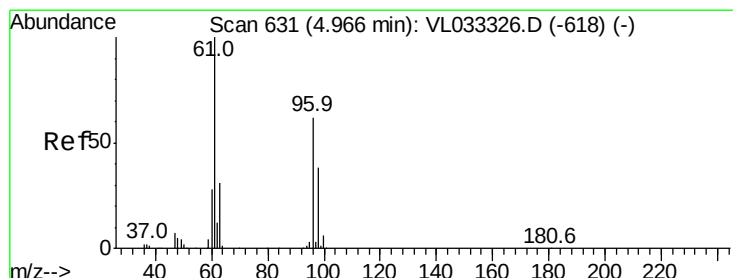
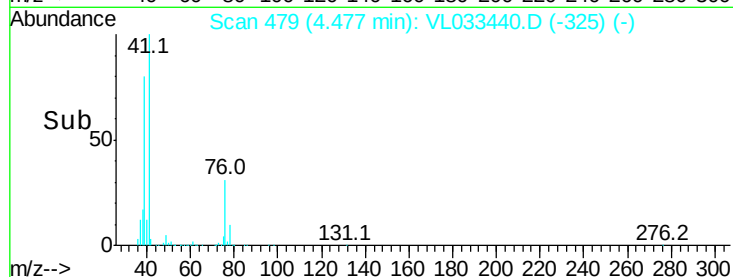
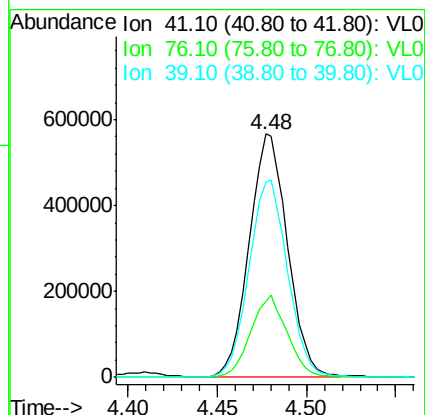
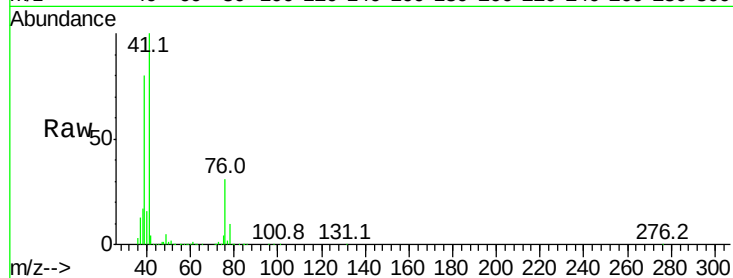




#21
 Allyl Chloride
 Concen: 16.338 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

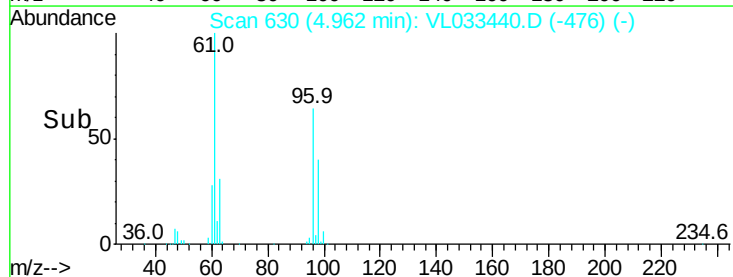
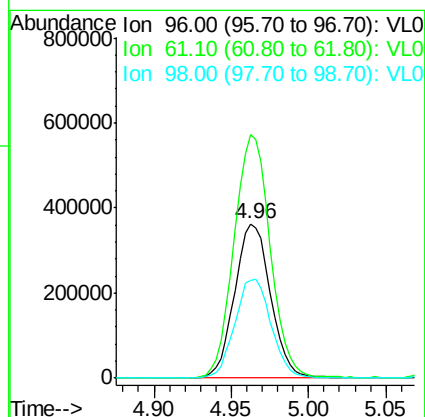
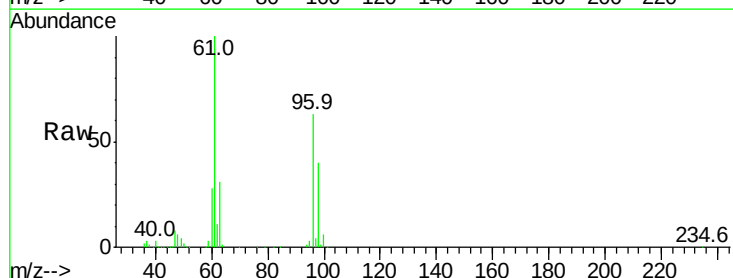
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

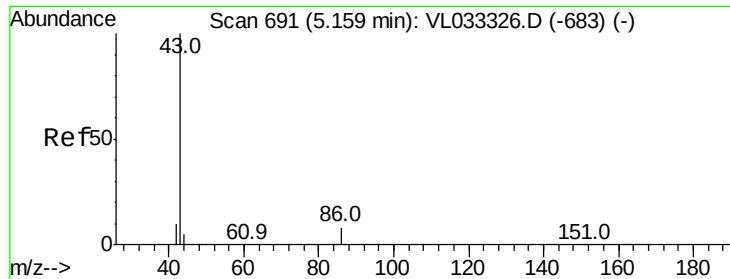
Tgt Ion: 41 Resp: 850668
 Ion Ratio Lower Upper
 41 100
 76 32.2 25.0 37.4
 39 82.2 65.9 98.9



#22
 trans-1,2-Dichloroethene
 Concen: 16.437 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion: 96 Resp: 584282
 Ion Ratio Lower Upper
 96 100
 61 158.0 130.0 195.0
 98 63.3 50.0 75.0





#23

Vinyl Acetate

Concen: 15.435 ppbv

RT: 5.16 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 1916836

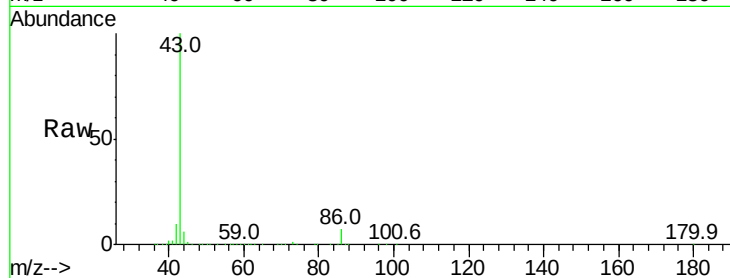
Ion Ratio Lower Upper

43 100

86 7.4 6.2 9.2

42 9.9 8.1 12.1

44 5.5 4.1 6.1

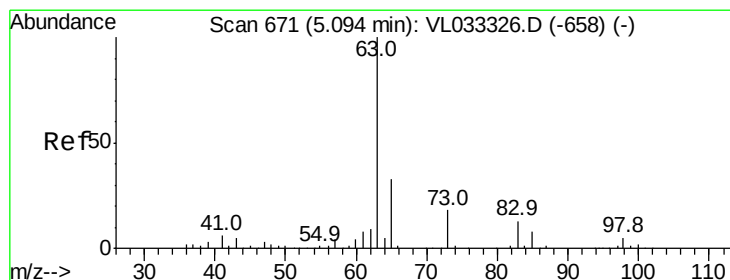
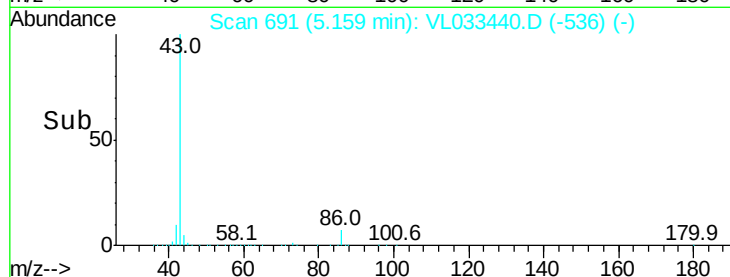
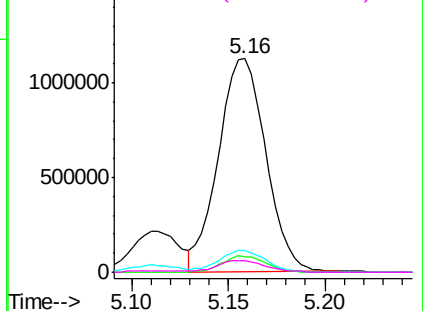


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 14.791 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

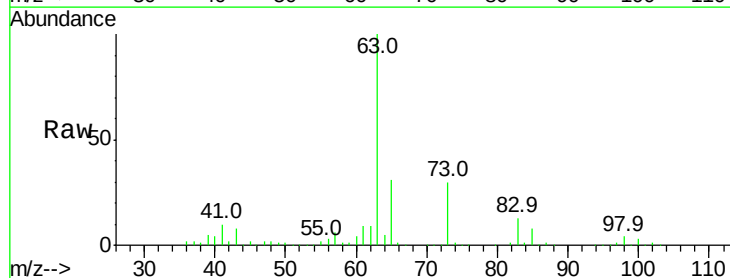
Tgt Ion: 63 Resp: 1326631

Ion Ratio Lower Upper

63 100

98 4.2 2.4 7.1

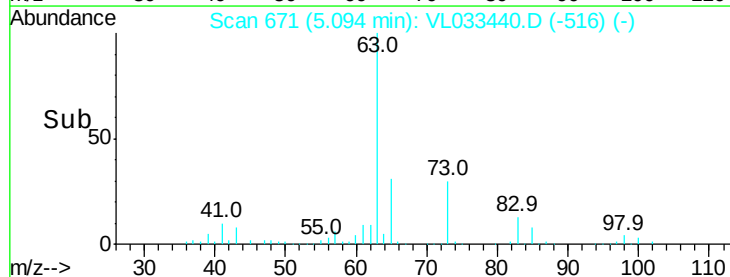
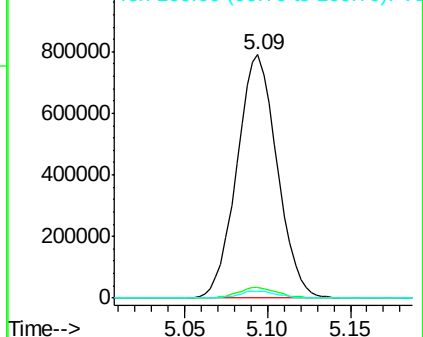
100 2.7 1.3 3.8

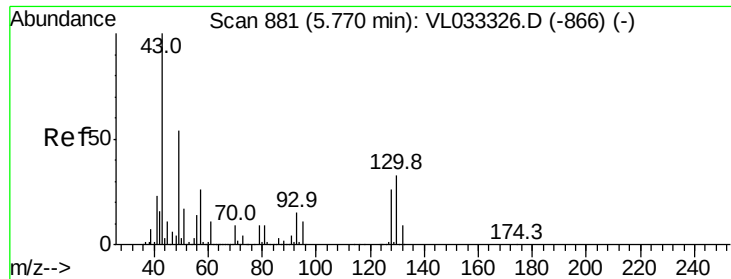


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



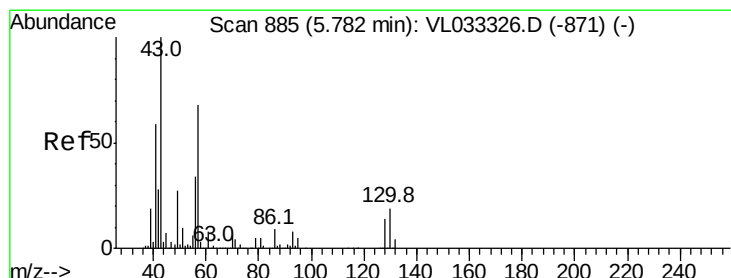
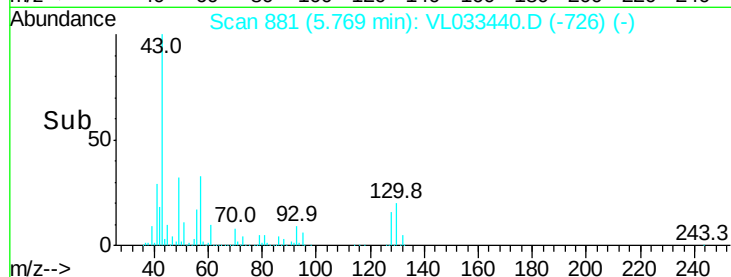
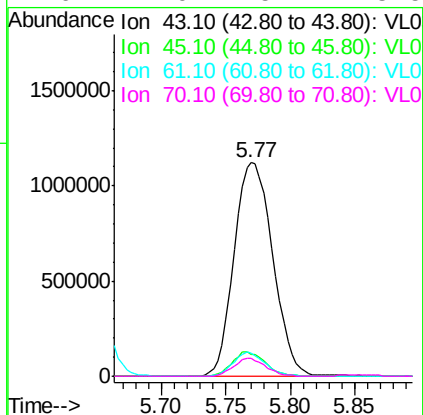
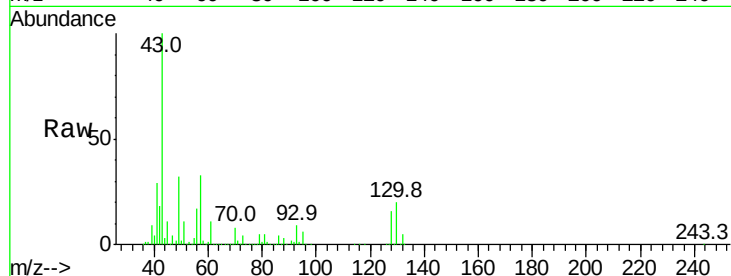


#25
Ethyl Acetate
Concen: 15.010 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 2341874

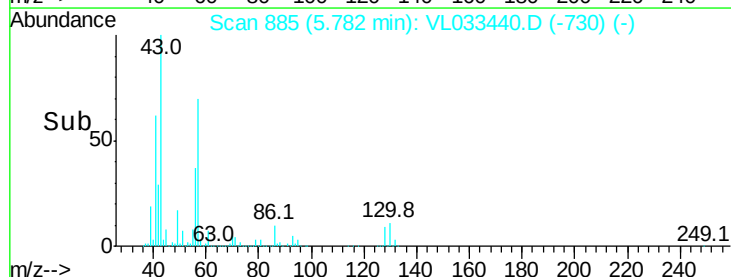
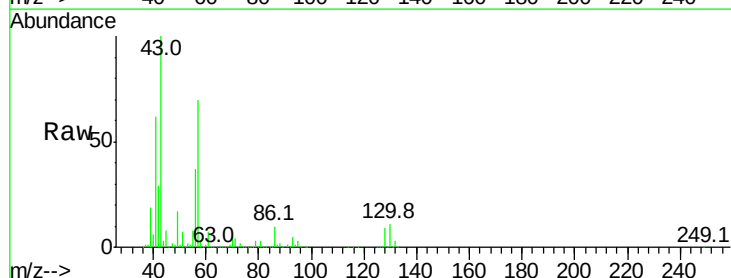
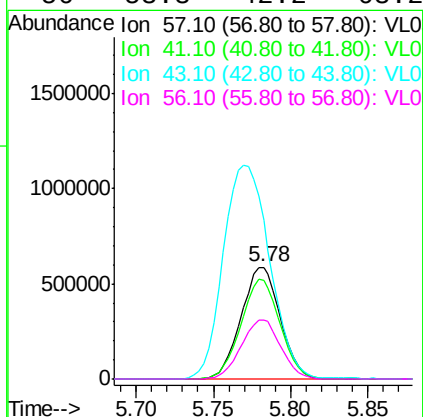
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.3	7.4	11.2
70	7.0	5.7	8.5

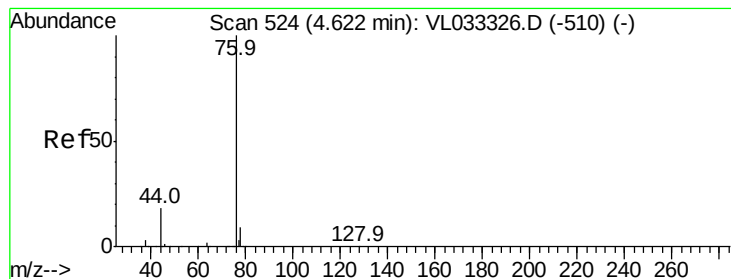


#26
Hexane
Concen: 14.806 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 57 Resp: 1032727

Ion	Ratio	Lower	Upper
57	100		
41	89.6	70.5	105.7
43	227.3	181.8	272.8
56	53.3	42.2	63.2





#27

Carbon Disulfide

Concen: 18.026 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

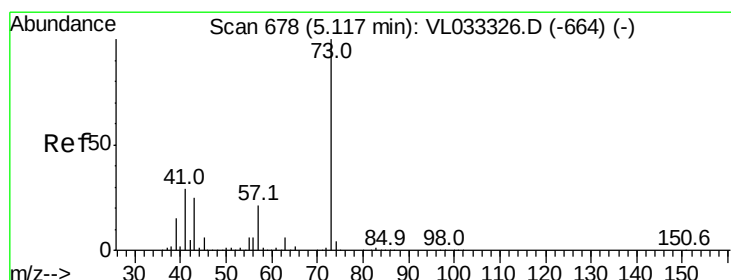
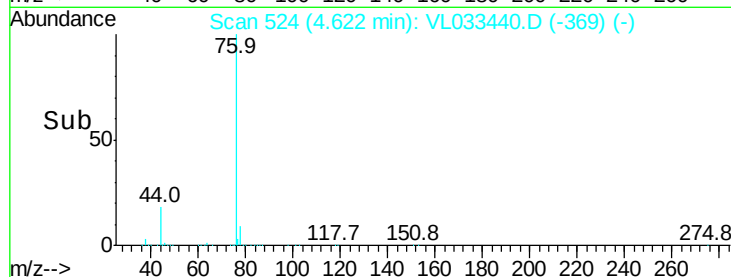
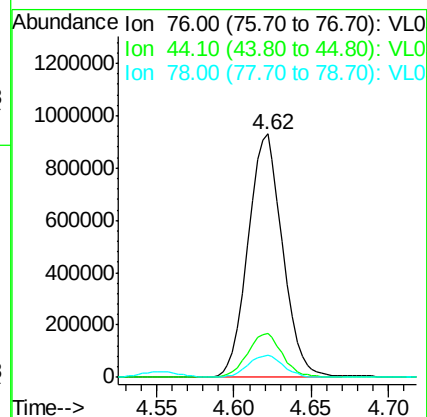
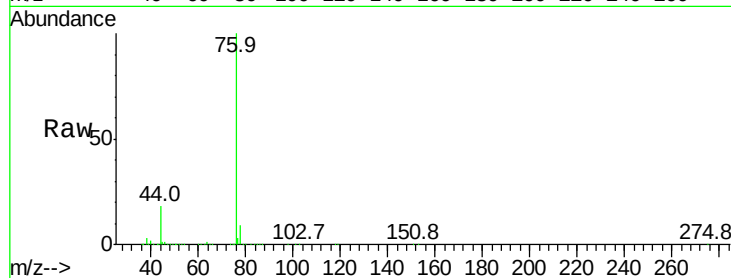
Tgt Ion: 76 Resp: 1447458

Ion Ratio Lower Upper

76 100

44 18.2 15.2 22.8

78 9.4 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 14.859 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL033440.D

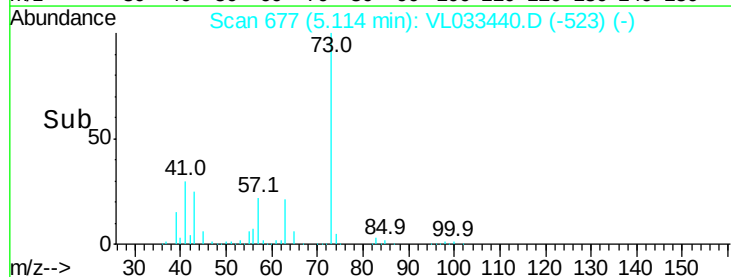
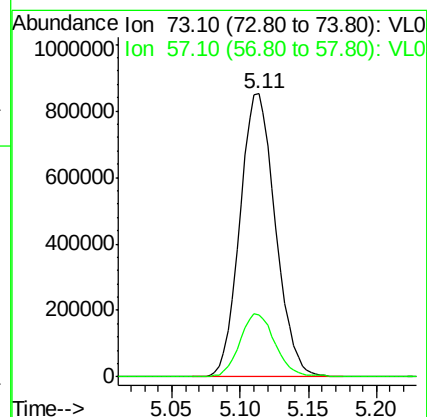
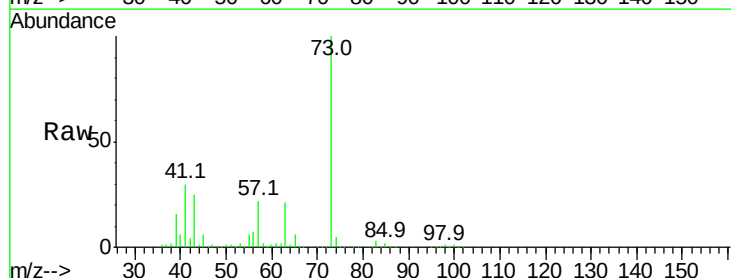
Acq: 25 Mar 2019 14:28

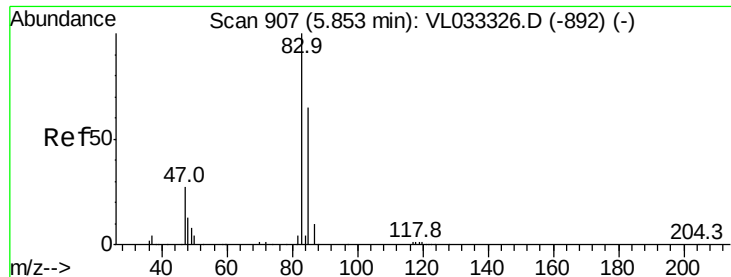
Tgt Ion: 73 Resp: 1539394

Ion Ratio Lower Upper

73 100

57 22.3 17.4 26.0

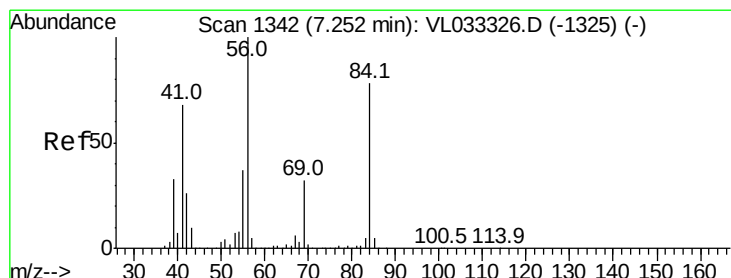
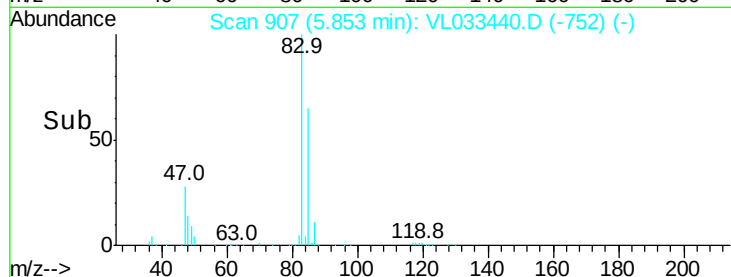
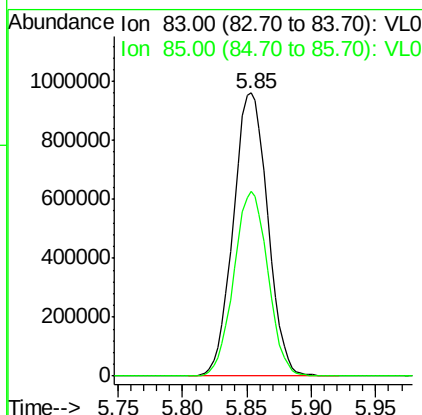
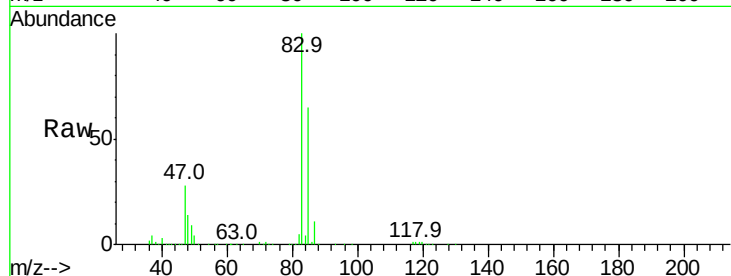




#29
Chloroform
Concen: 15.638 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

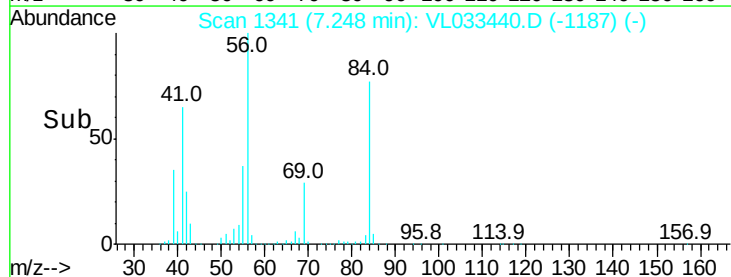
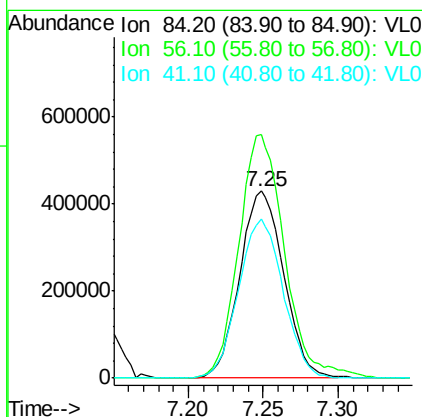
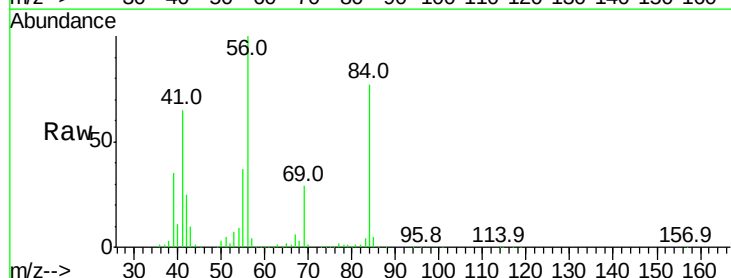
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

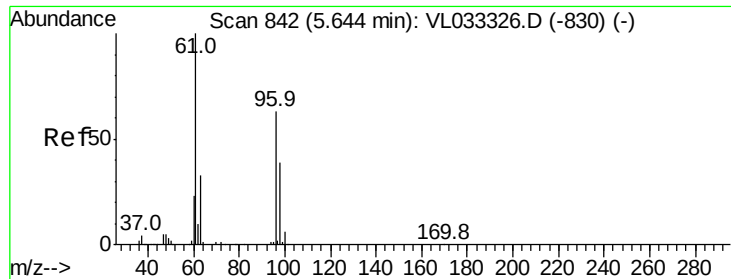
Tgt Ion: 83 Resp: 1786032
Ion Ratio Lower Upper
83 100
85 65.3 52.0 78.0



#30
Cyclohexane
Concen: 15.665 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 84 Resp: 876049
Ion Ratio Lower Upper
84 100
56 136.0 111.3 166.9
41 86.7 69.6 104.4



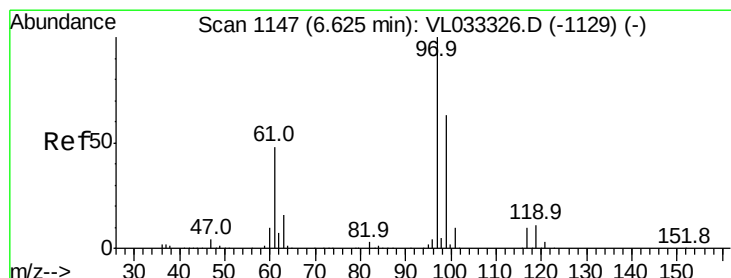
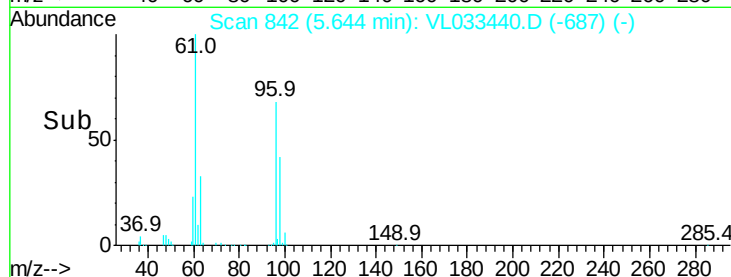
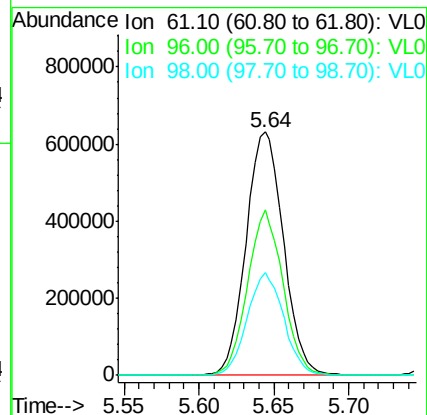
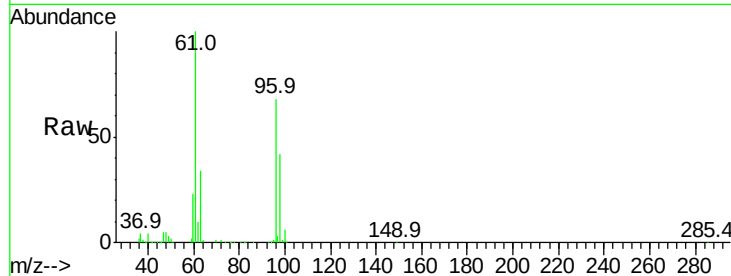


#31

cis-1,2-Dichloroethene
 Concen: 15.786 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

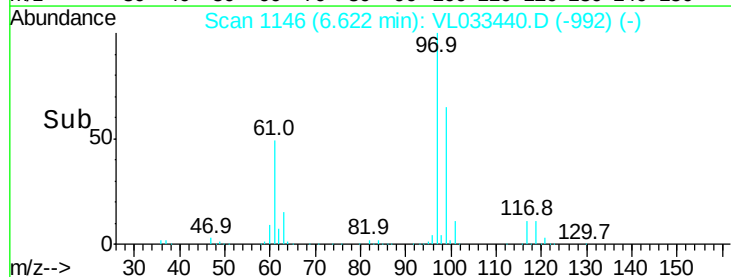
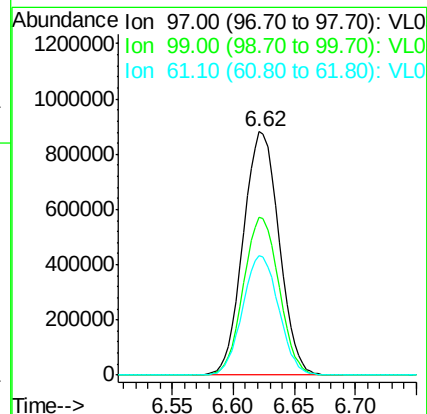
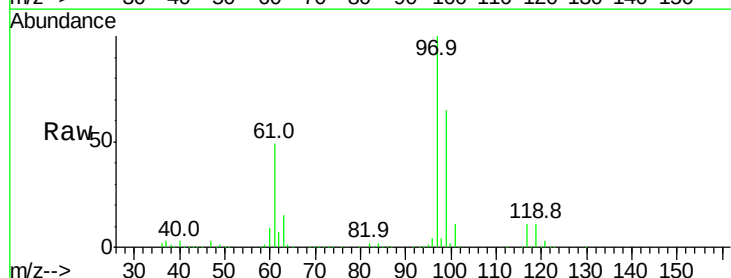
Tgt Ion: 61 Resp: 1100924
 Ion Ratio Lower Upper
 61 100
 96 68.1 50.3 75.5
 98 42.4 31.5 47.3

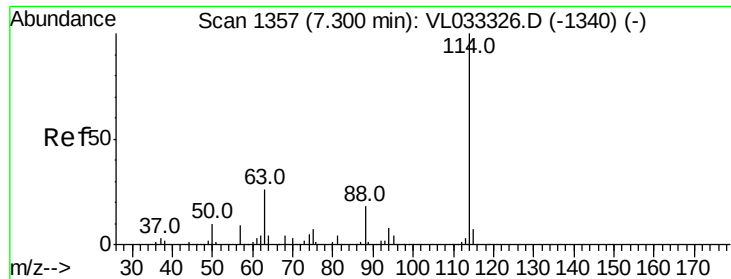


#32

1,1,1-Trichloroethane
 Concen: 15.970 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion: 97 Resp: 1790846
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.0 76.6
 61 49.4 39.3 58.9

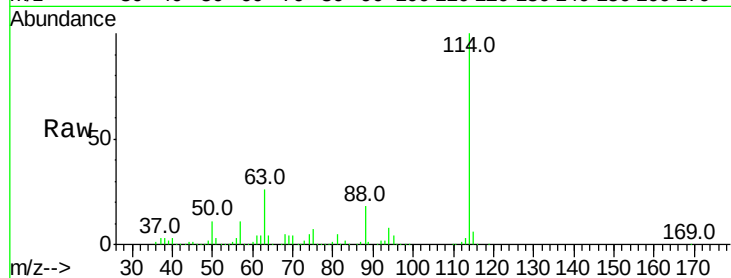




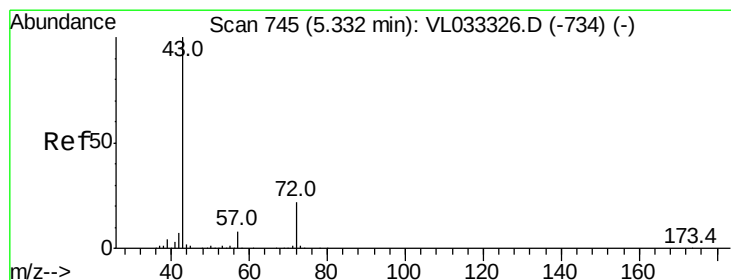
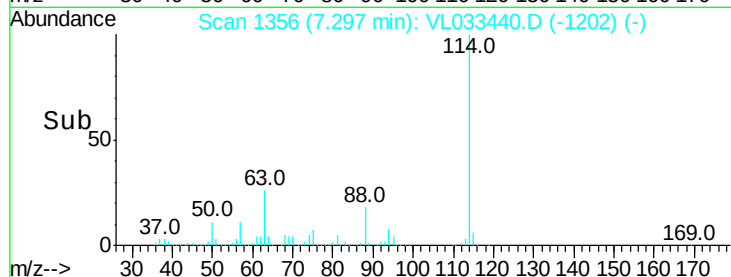
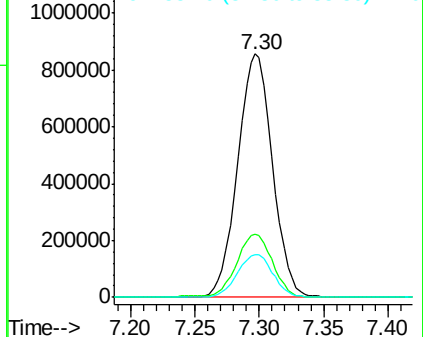
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:114 Resp: 1607772
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.4 32.2
 88 18.0 14.5 21.7

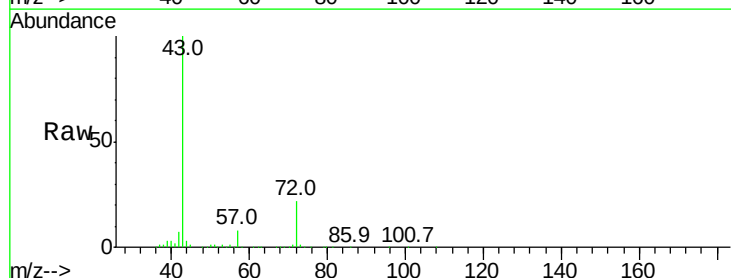


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

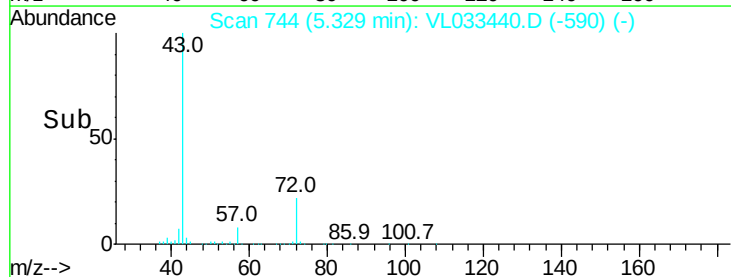
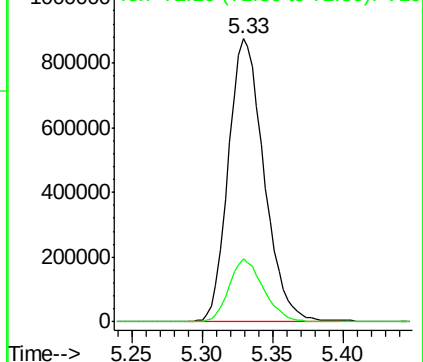


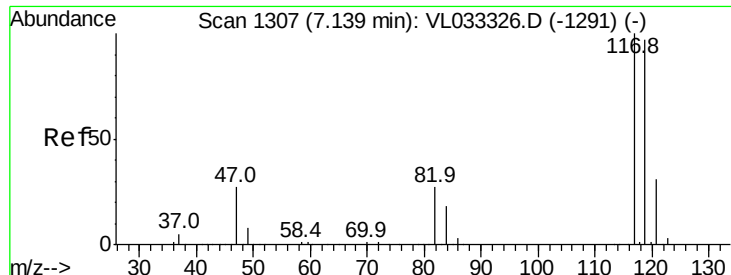
#34
 2-Butanone
 Concen: 14.615 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion: 43 Resp: 1543220
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 16.848 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

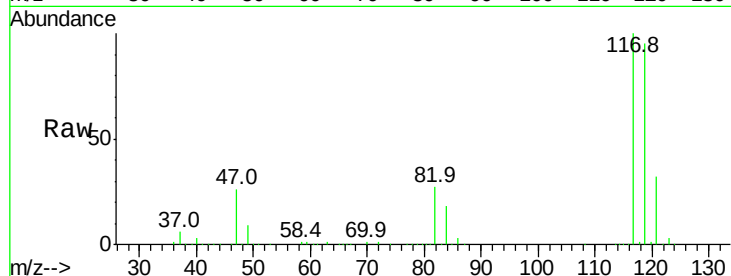
Tgt Ion:117 Resp: 1909733

Ion Ratio Lower Upper

117 100

119 94.5 77.4 116.0

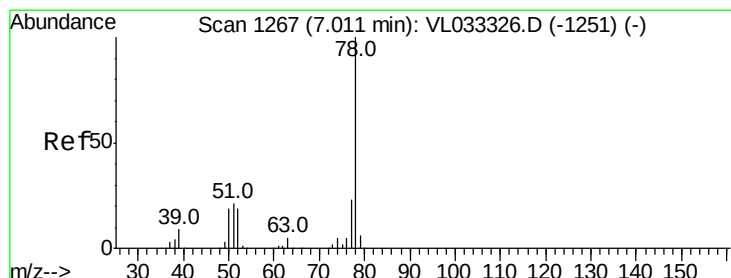
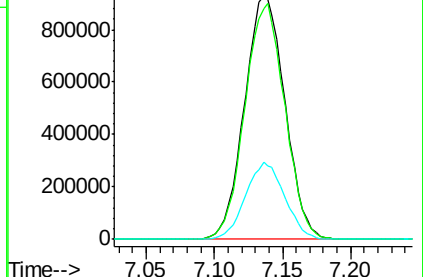
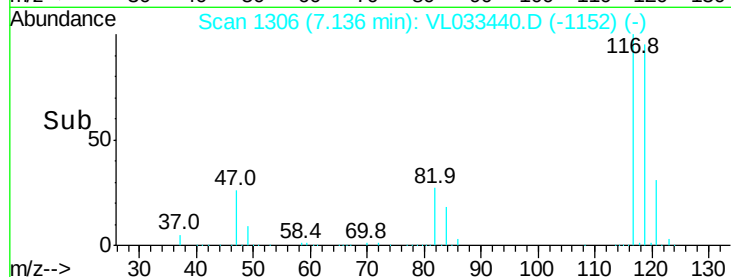
121 31.5 24.9 37.3



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: 15.034 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

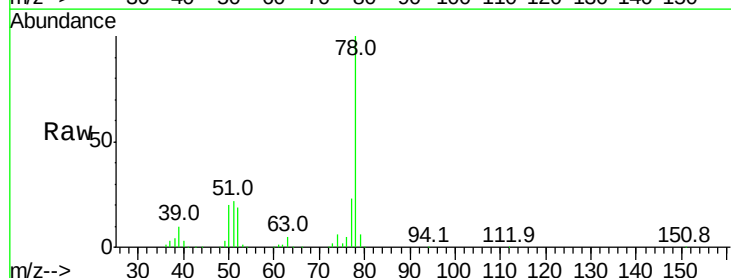
Tgt Ion: 78 Resp: 2163147

Ion Ratio Lower Upper

78 100

77 22.8 18.1 27.1

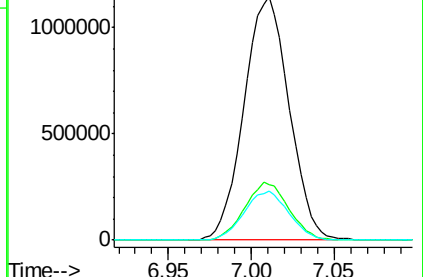
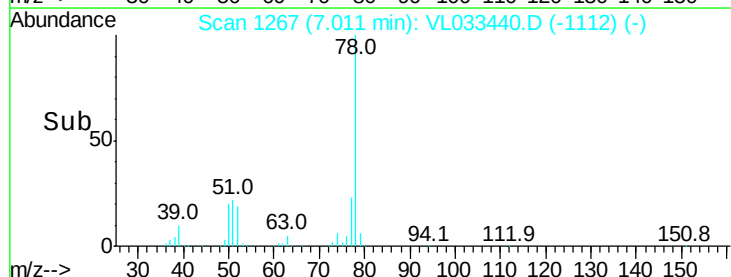
50 20.0 15.2 22.8

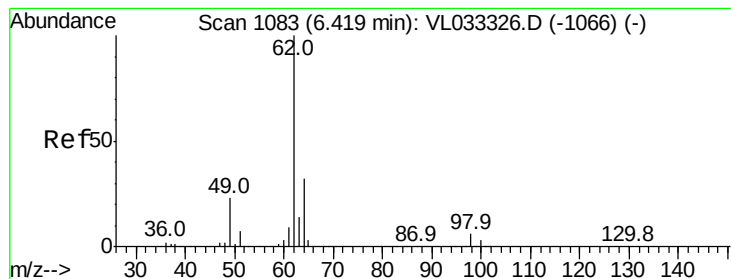


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 15.281 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

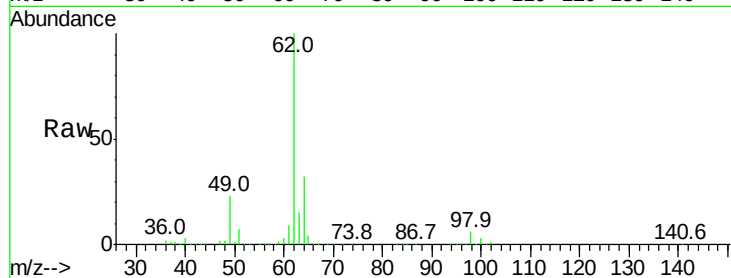
VSTDIC015

Tgt Ion: 62 Resp: 1390295

Ion Ratio Lower Upper

62 100

98 5.4 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.42

800000

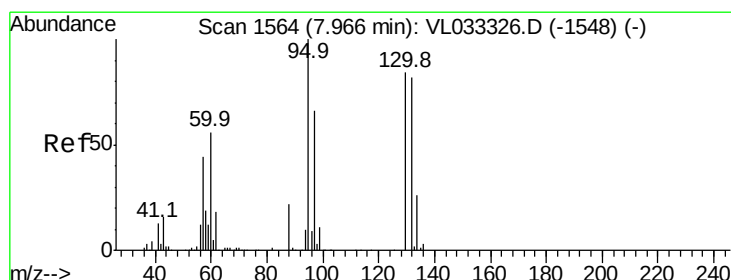
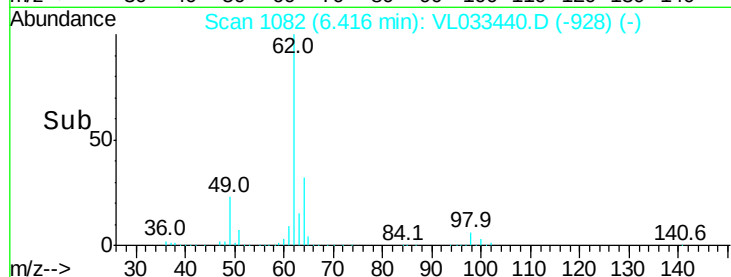
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 16.342 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion:130 Resp: 889795

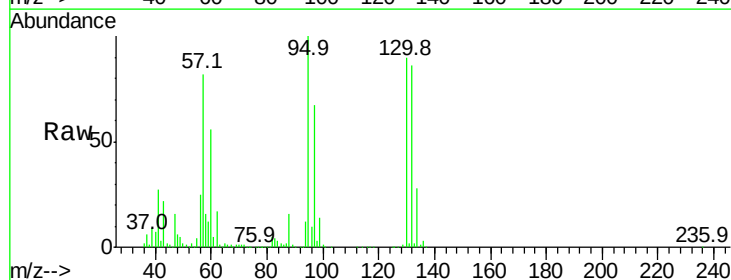
Ion Ratio Lower Upper

130 100

95 110.7 95.2 142.8

132 95.0 77.7 116.5

97 74.2 62.8 94.2



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

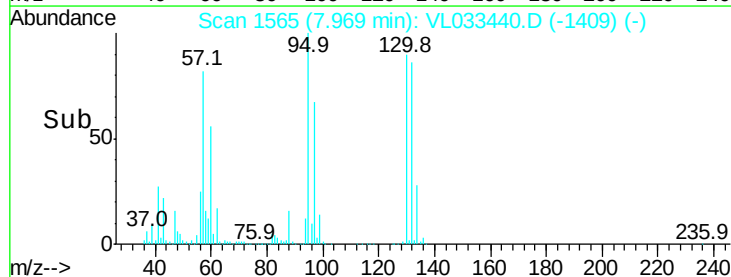
600000

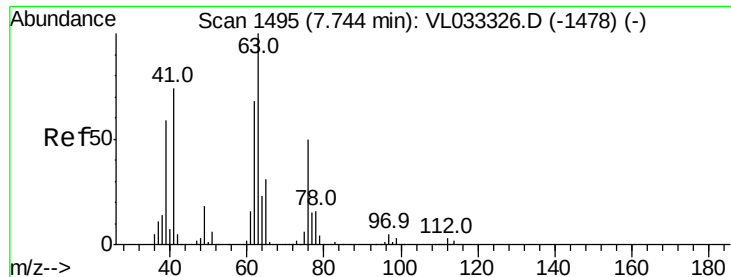
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 15.389 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

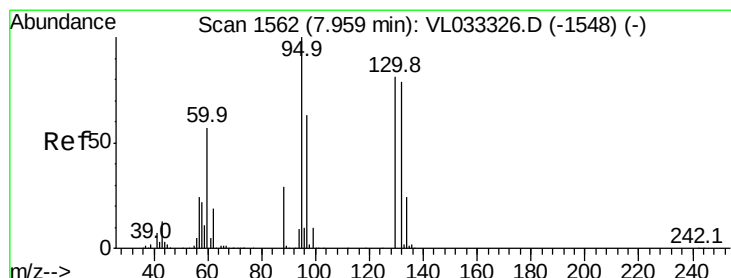
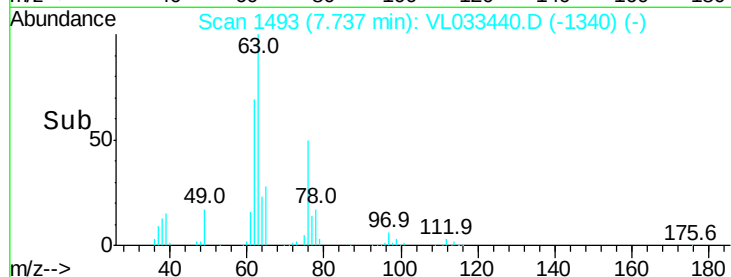
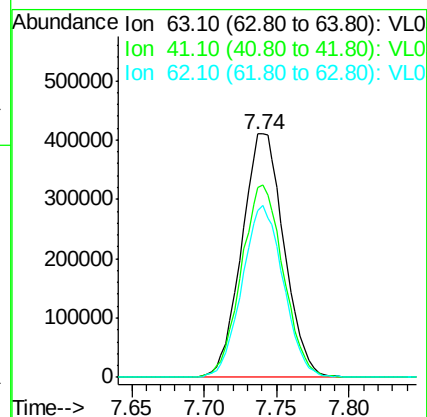
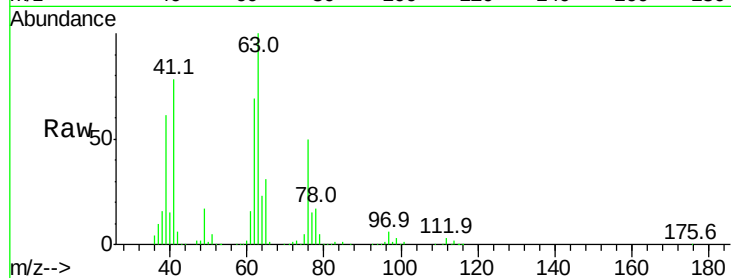
Tgt Ion: 63 Resp: 829223

Ion Ratio Lower Upper

63 100

41 77.9 59.5 89.3

62 68.6 54.7 82.1



#40

1,4-Dioxane

Concen: 13.417 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion: 88 Resp: 254576

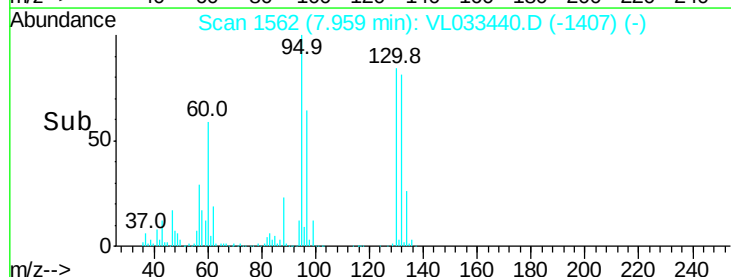
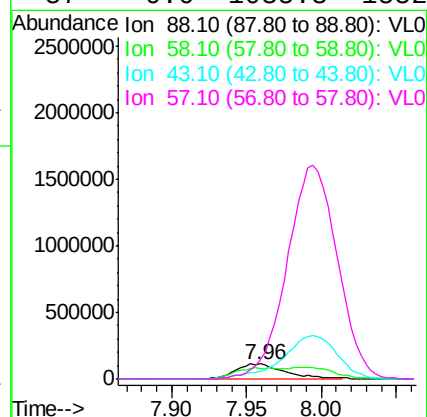
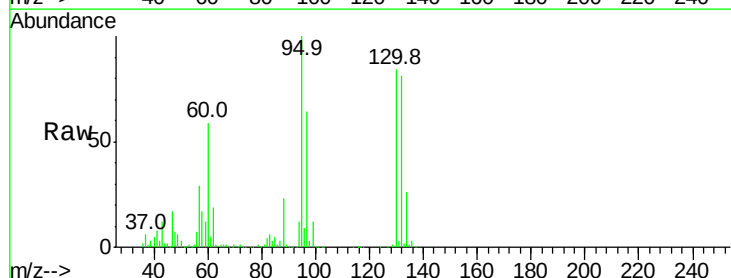
Ion Ratio Lower Upper

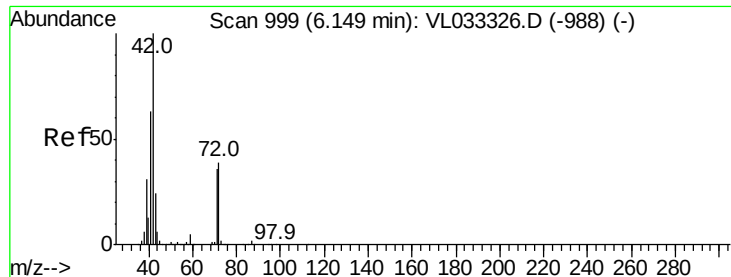
88 100

58 71.8 107.9 161.9#

43 0.0 230.8 346.2#

57 0.0 1035.3 1552.9#





#41

Tetrahydrofuran

Concen: 15.727 ppbv

RT: 6.15 min Scan# 999

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

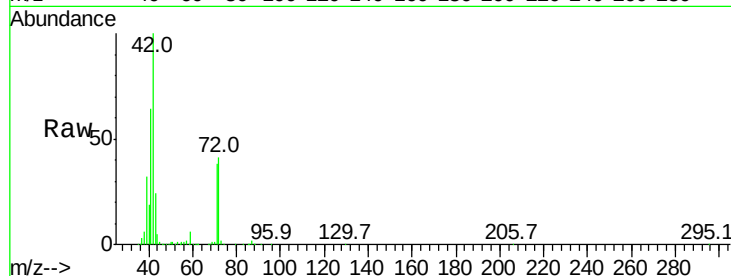
Tgt Ion: 42 Resp: 886169

Ion Ratio Lower Upper

42 100

72 39.1 31.6 47.4

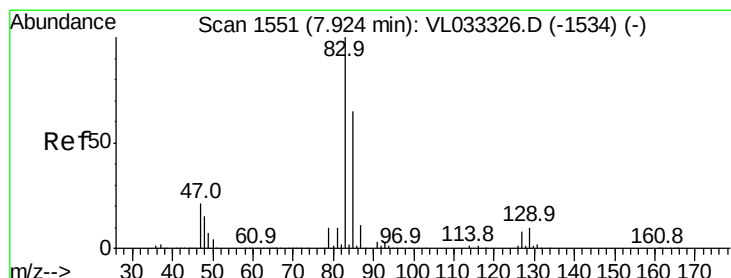
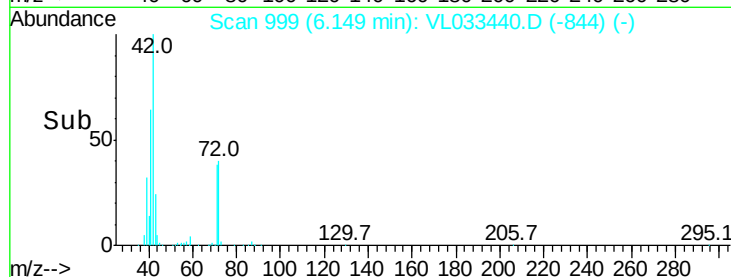
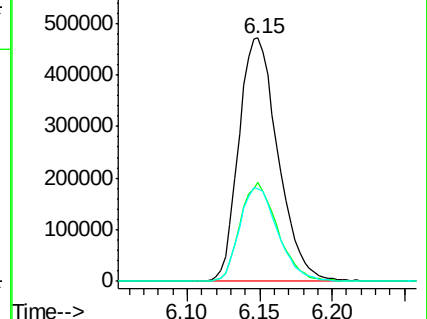
71 37.7 29.9 44.9



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: 16.819 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

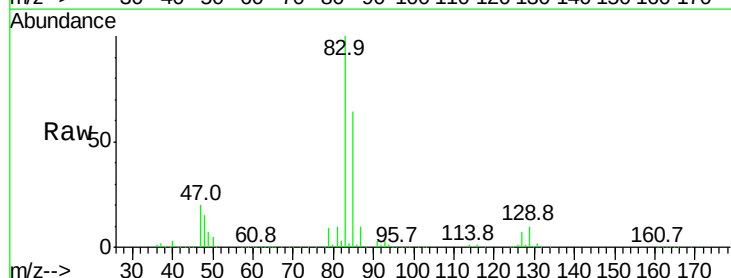
Tgt Ion: 83 Resp: 2051588

Ion Ratio Lower Upper

83 100

85 64.4 51.8 77.6

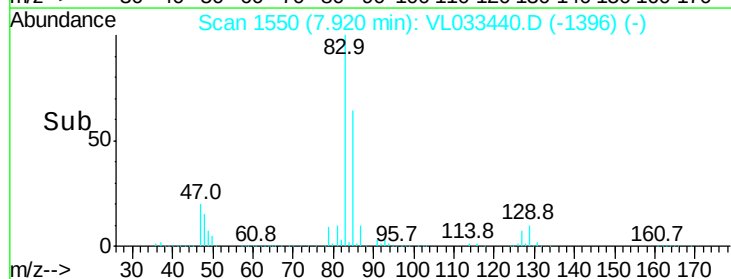
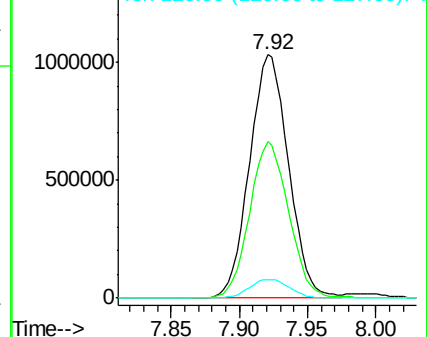
127 7.5 6.2 9.2

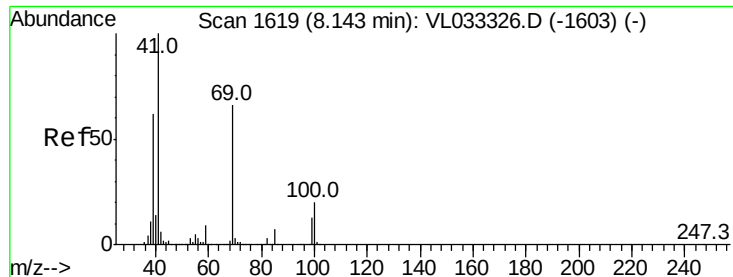


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 17.079 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

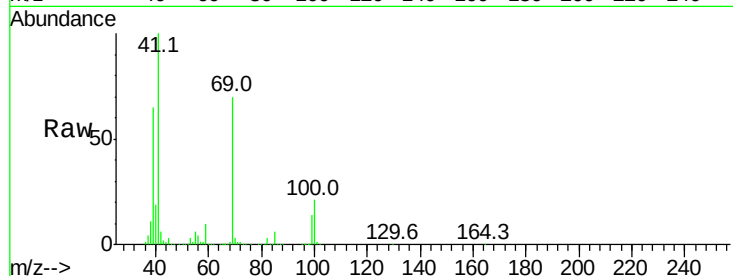
Tgt Ion: 69 Resp: 956846

Ion Ratio Lower Upper

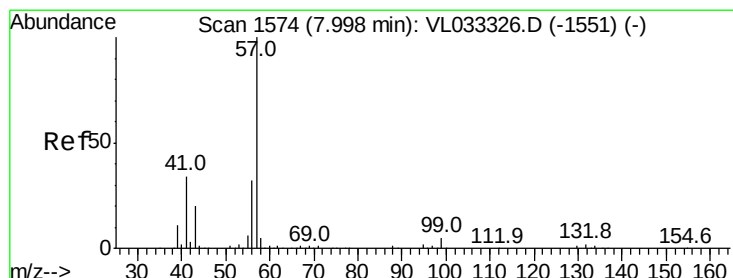
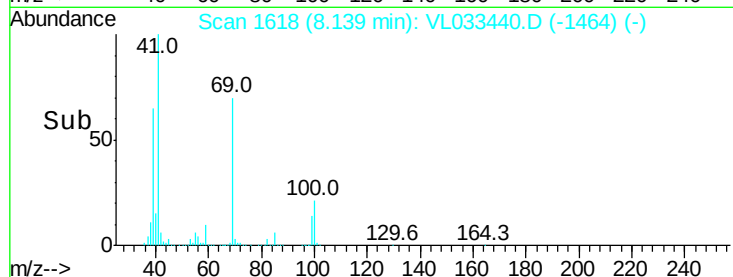
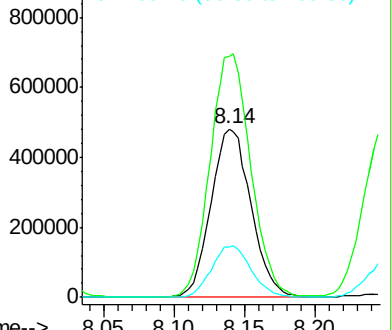
69 100

41 147.0 119.5 179.3

100 30.5 24.4 36.6



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 15.726 ppbv

RT: 7.99 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

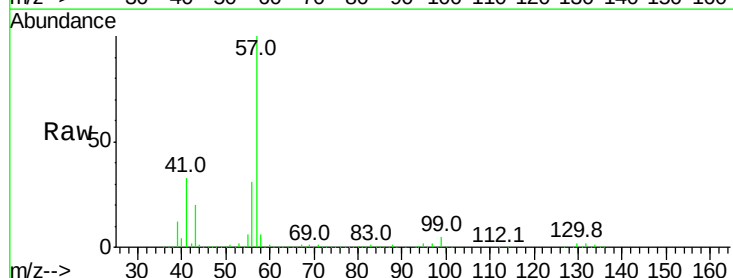
Tgt Ion: 57 Resp: 3747886

Ion Ratio Lower Upper

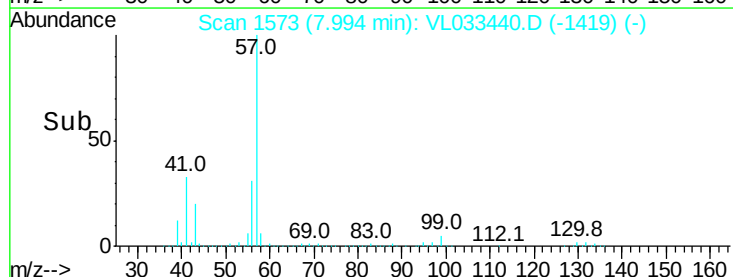
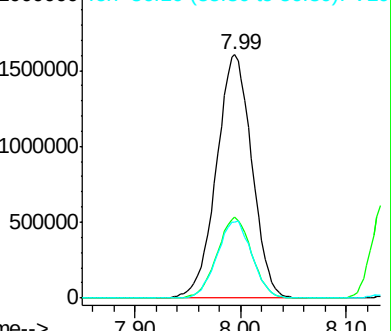
57 100

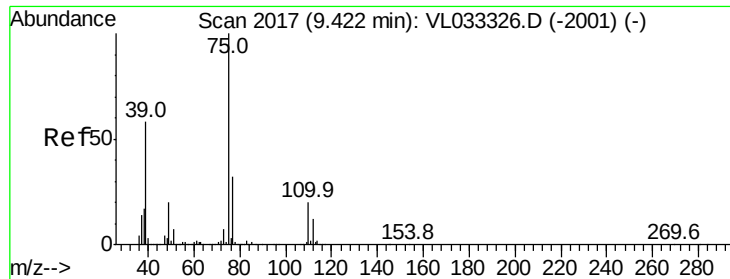
41 32.5 26.0 39.0

56 31.3 24.6 36.8



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 19.484 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

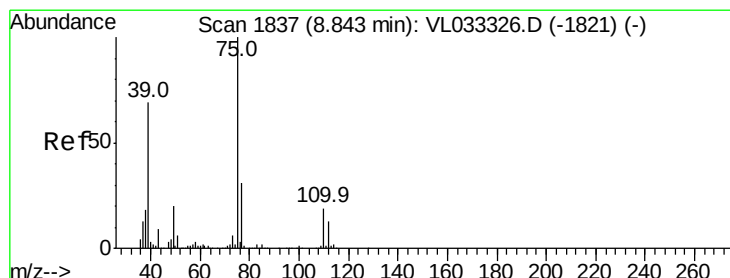
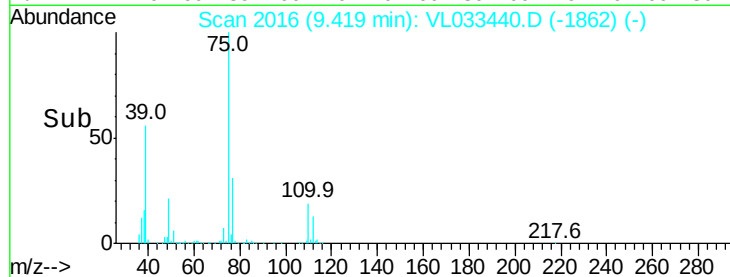
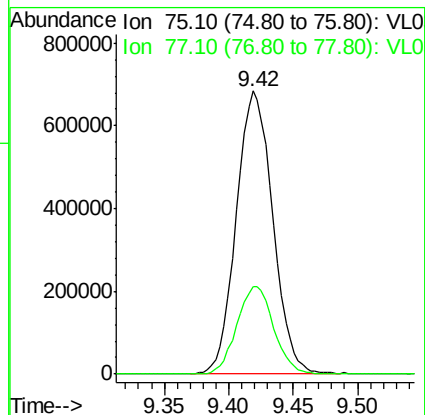
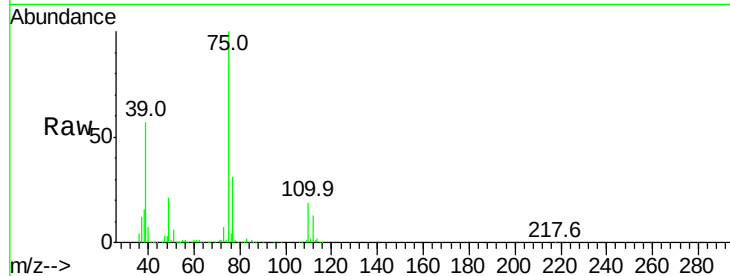
VSTDIC015

Tgt Ion: 75 Resp: 1347704

Ion Ratio Lower Upper

75 100

77 31.0 25.5 38.3



#46

cis-1,3-Dichloropropene

Concen: 18.213 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

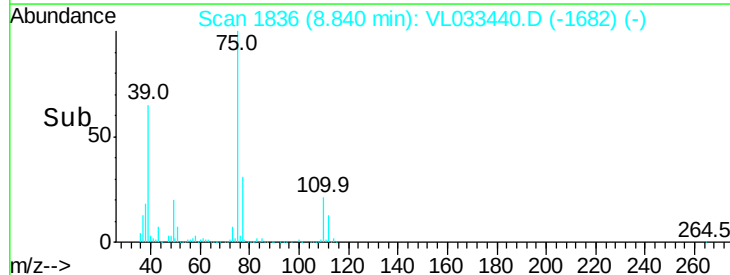
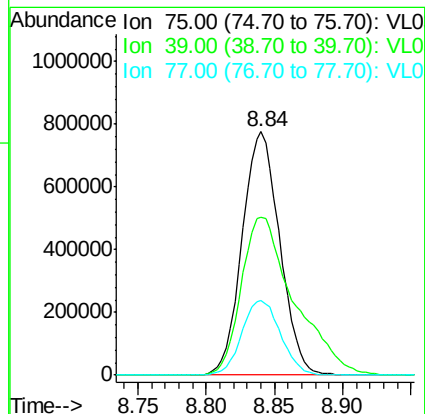
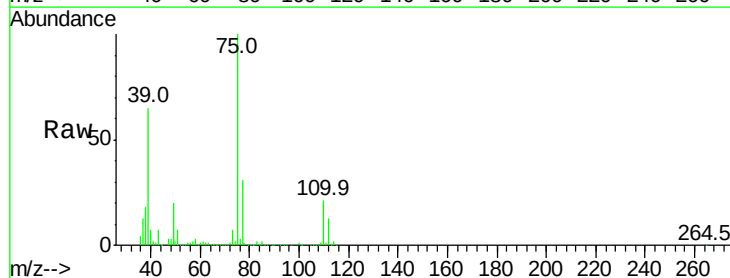
Tgt Ion: 75 Resp: 1483381

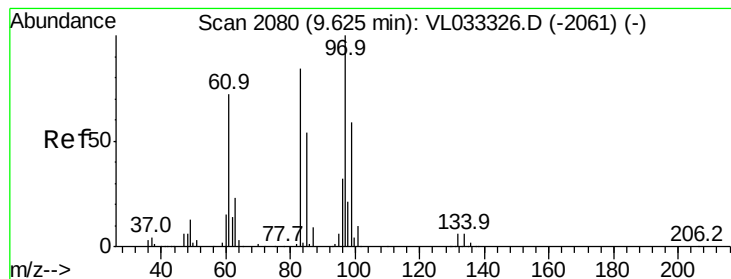
Ion Ratio Lower Upper

75 100

39 64.7 55.0 82.6

77 30.8 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 16.340 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. -0.01 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 972805

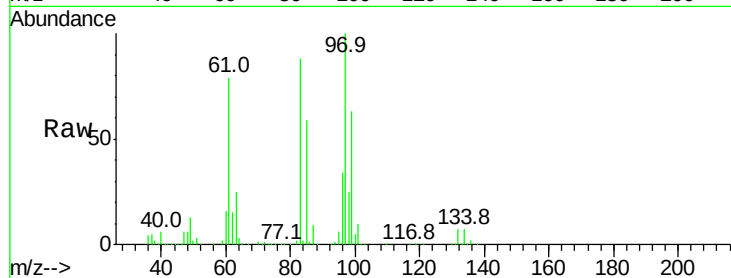
Ion Ratio Lower Upper

97 100

83 88.1 67.4 101.0

85 59.4 43.0 64.4

99 62.8 47.0 70.6

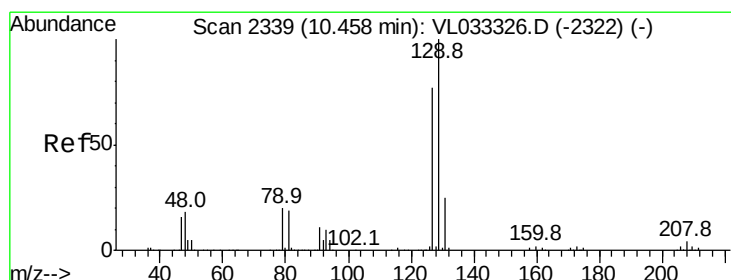
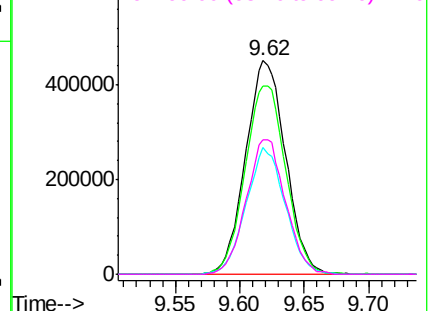
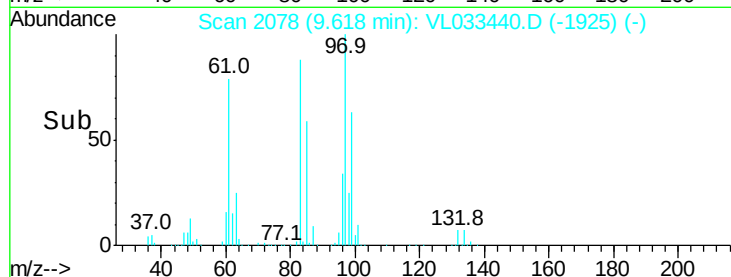


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 18.176 ppbv

RT: 10.46 min Scan# 2339

Delta R.T. -0.00 min

Lab File: VL033440.D

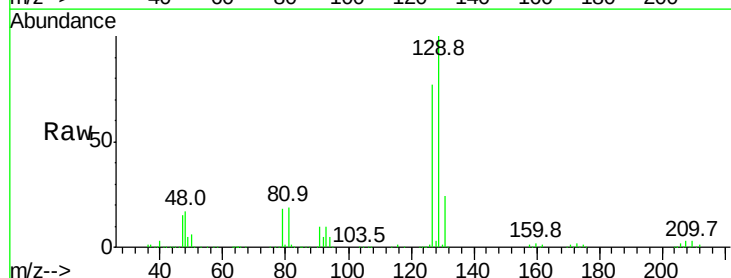
Acq: 25 Mar 2019 14:28

Tgt Ion: 129 Resp: 1814817

Ion Ratio Lower Upper

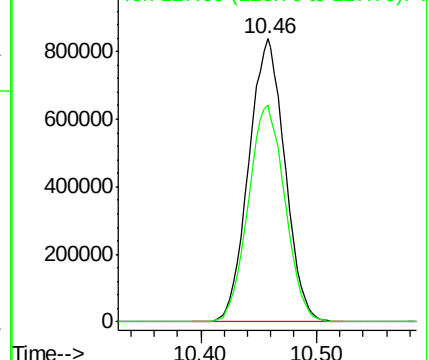
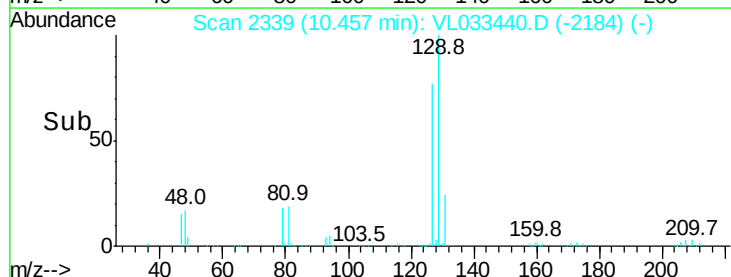
129 100

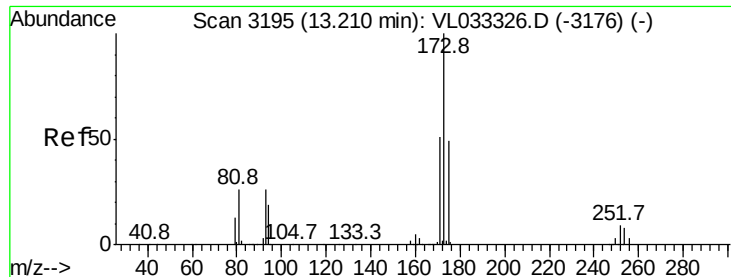
127 77.6 38.9 116.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 17.687 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

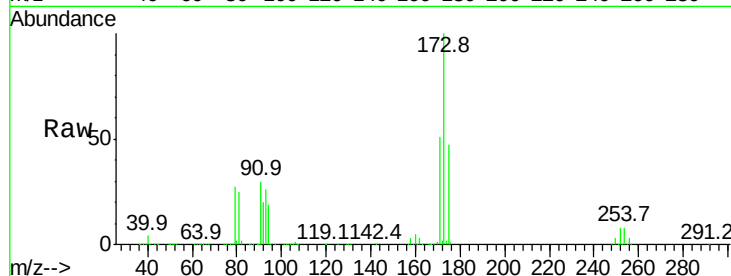
Tgt Ion:173 Resp: 1675272

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.6

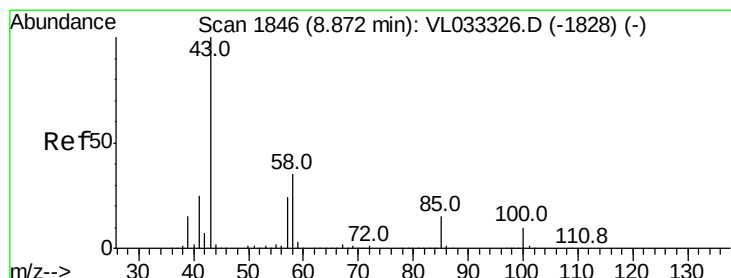
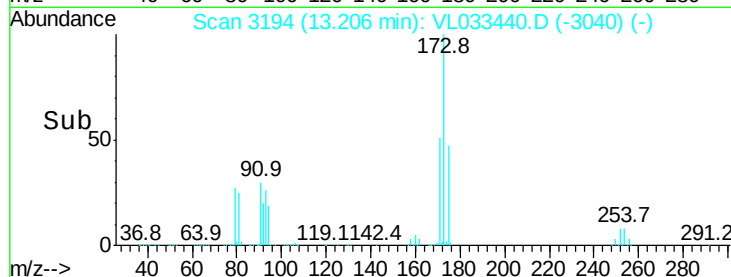
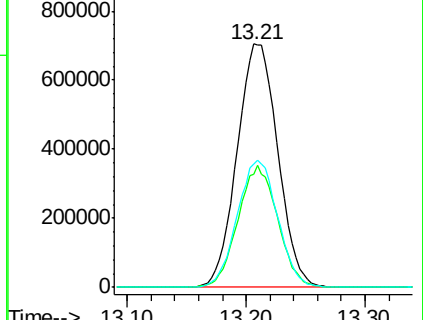
171 51.7 41.7 62.5



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: 16.018 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL033440.D

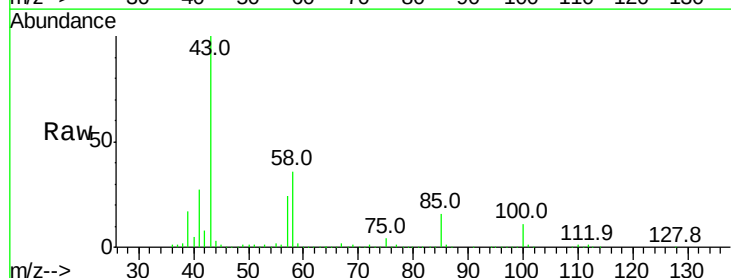
Acq: 25 Mar 2019 14:28

Tgt Ion: 43 Resp: 2388920

Ion Ratio Lower Upper

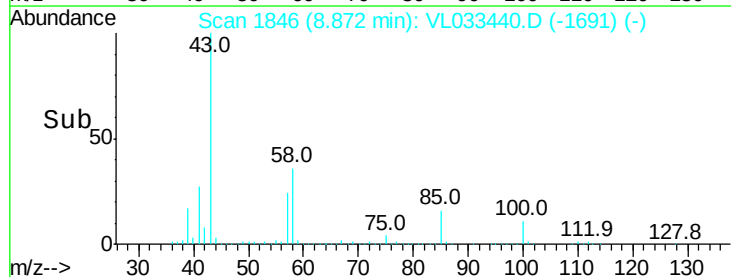
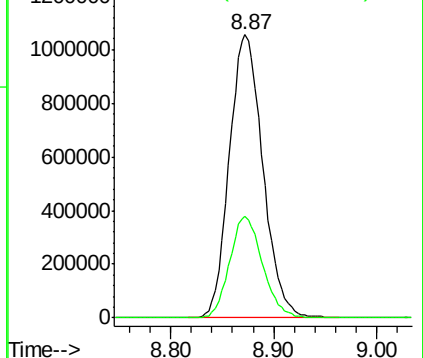
43 100

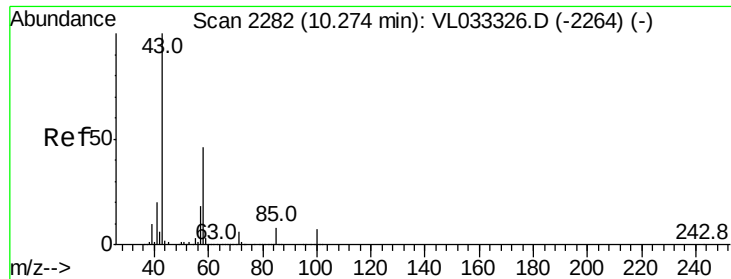
58 35.3 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.670 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

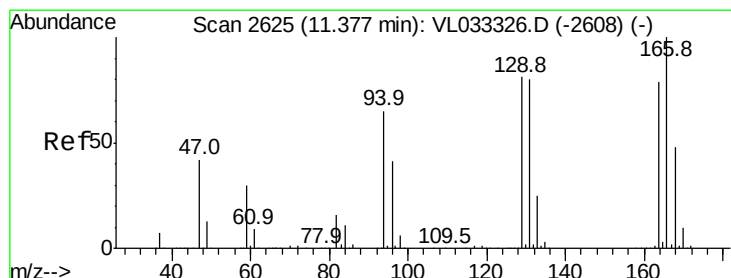
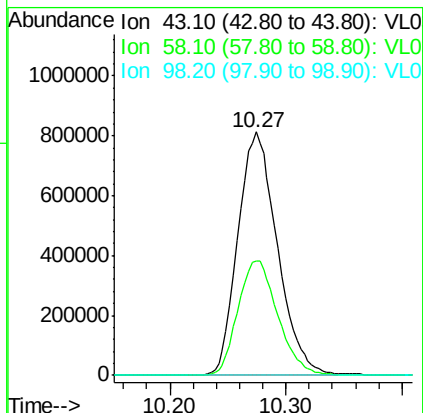
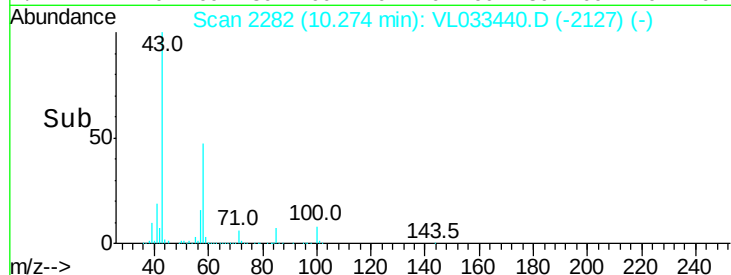
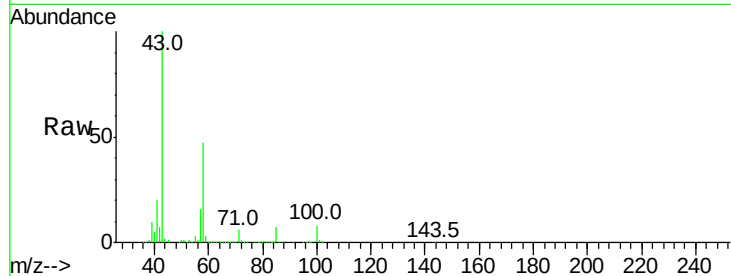
Tgt Ion: 43 Resp: 1918107

Ion Ratio Lower Upper

43 100

58 47.7 38.0 57.0

98 0.2 0.1 0.1#



#52

Tetrachloroethene

Concen: 14.920 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion:164 Resp: 894365

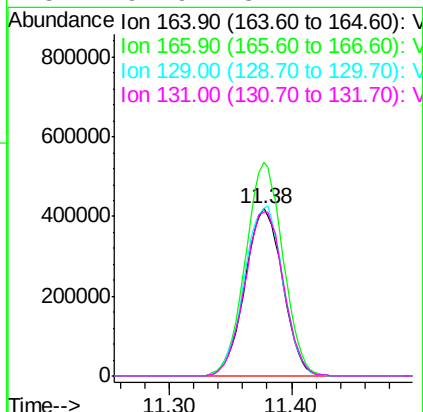
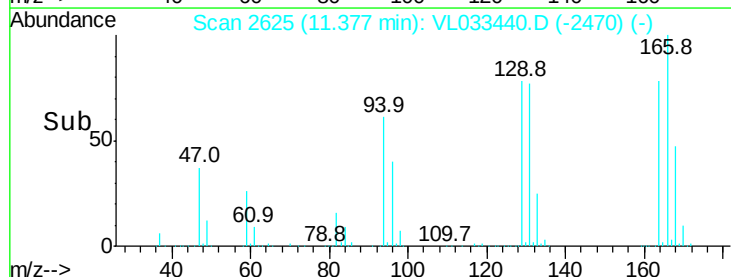
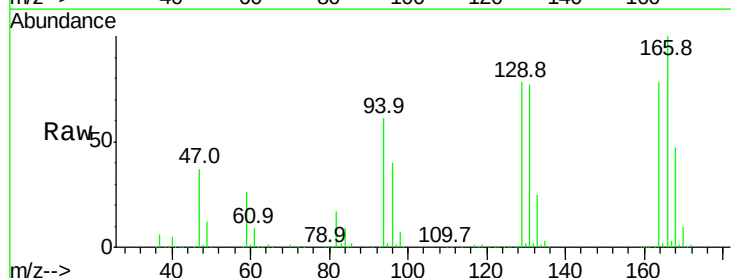
Ion Ratio Lower Upper

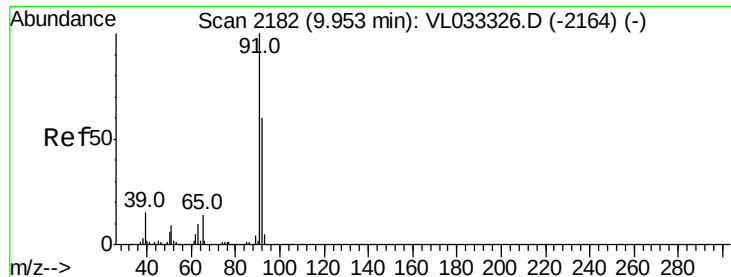
164 100

166 127.7 101.5 152.3

129 100.2 82.2 123.2

131 97.9 81.1 121.7





#53

Toluene

Concen: 16.987 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

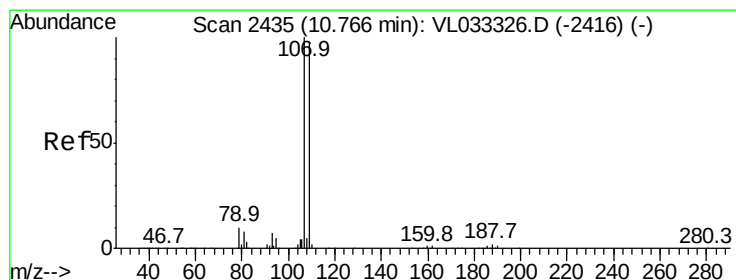
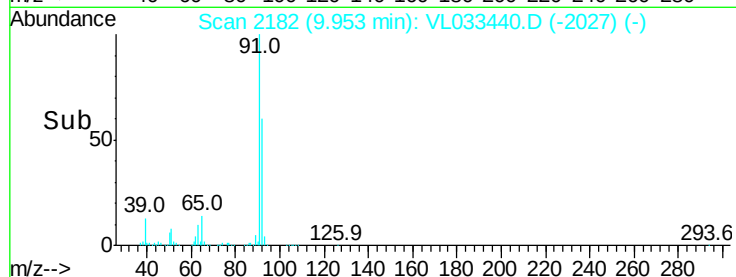
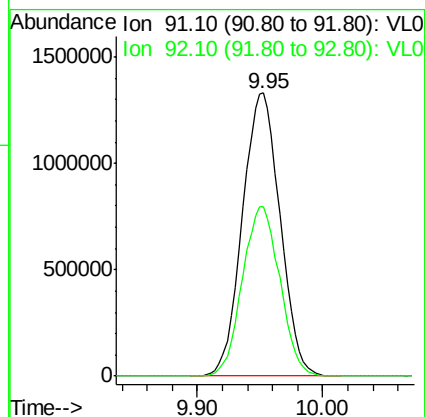
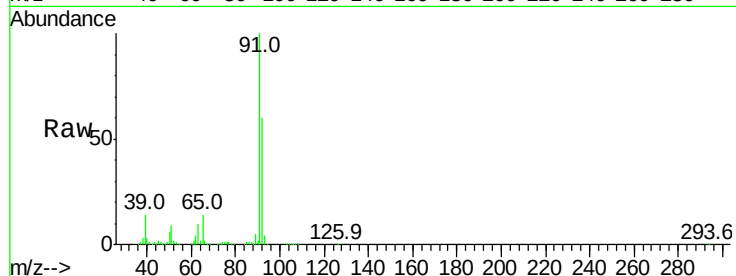
VSTDIC015

Tgt Ion: 91 Resp: 2777257

Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.0



#54

1,2-Dibromoethane

Concen: 15.865 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL033440.D

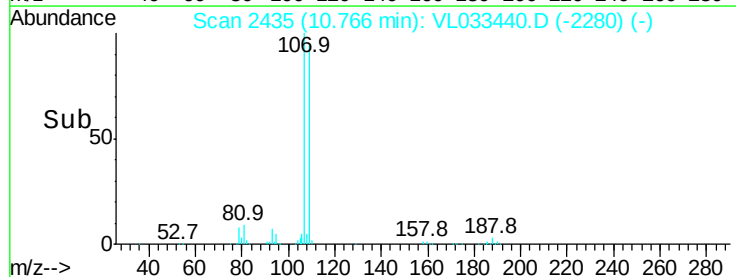
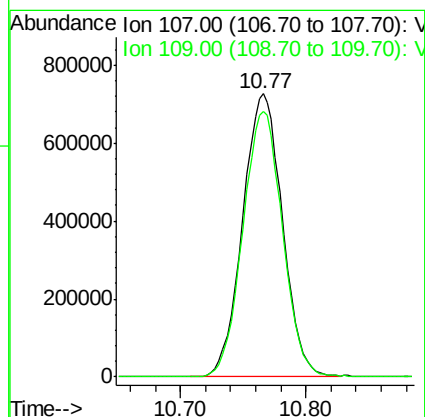
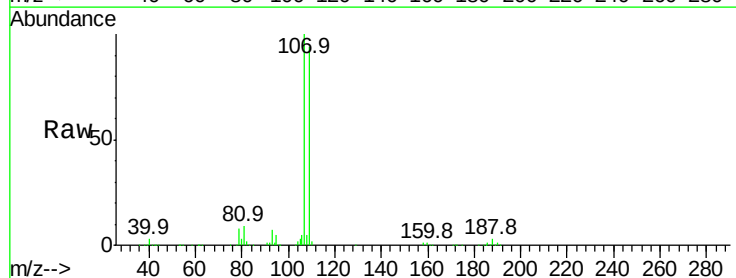
Acq: 25 Mar 2019 14:28

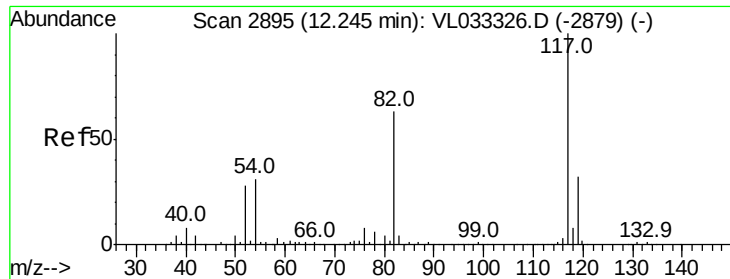
Tgt Ion: 107 Resp: 1596699

Ion Ratio Lower Upper

107 100

109 93.8 77.2 115.8

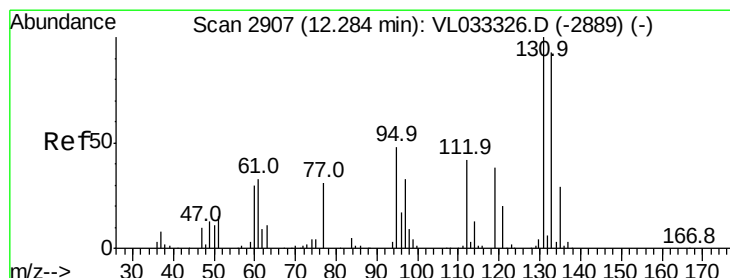
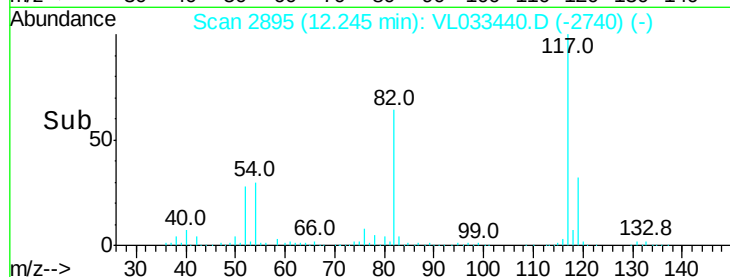
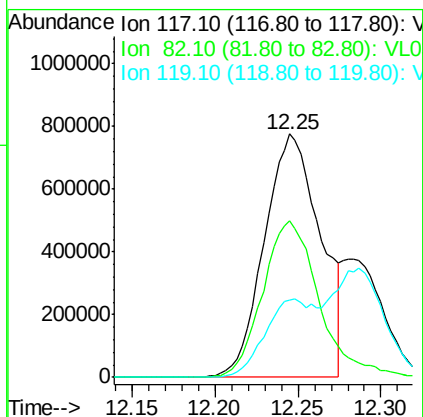
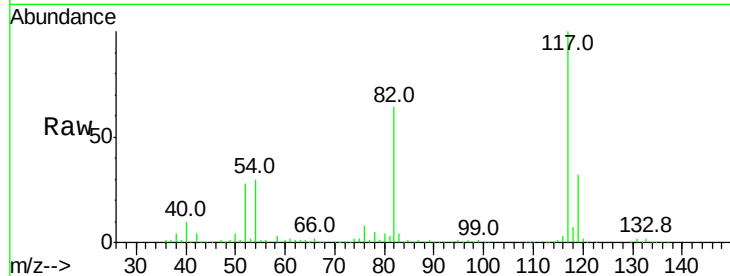




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

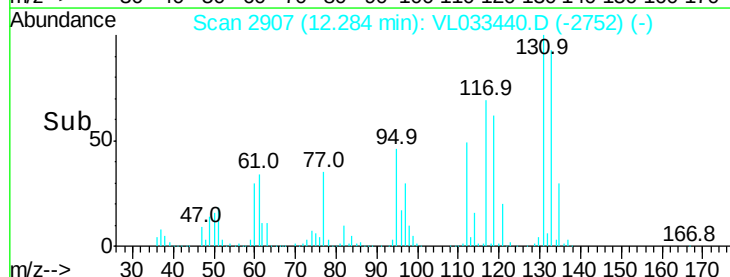
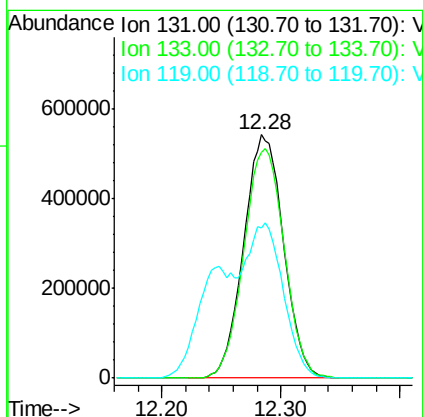
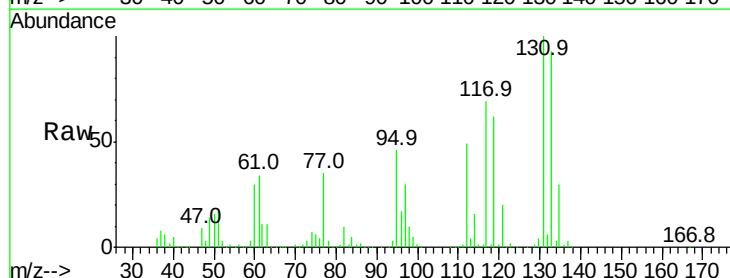
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

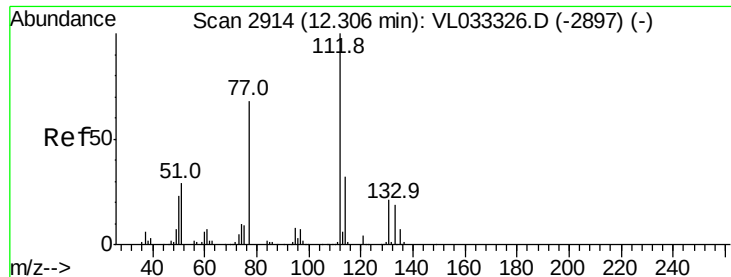
Tgt Ion:117 Resp: 1820648
Ion Ratio Lower Upper
117 100
82 65.3 53.4 80.2
119 0.0 27.3 40.9#



#56
1,1,1,2-Tetrachloroethane
Concen: 15.394 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion:131 Resp: 1253780
Ion Ratio Lower Upper
131 100
133 96.0 76.7 115.1
119 104.3 40.3 60.5#





#57

Chlorobenzene

Concen: 14.554 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

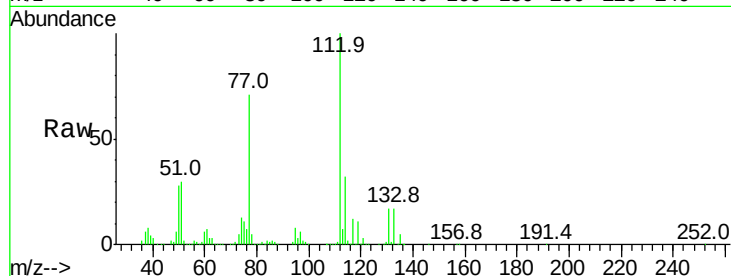
Tgt Ion:112 Resp: 2098630

Ion Ratio Lower Upper

112 100

77 70.7 55.8 83.6

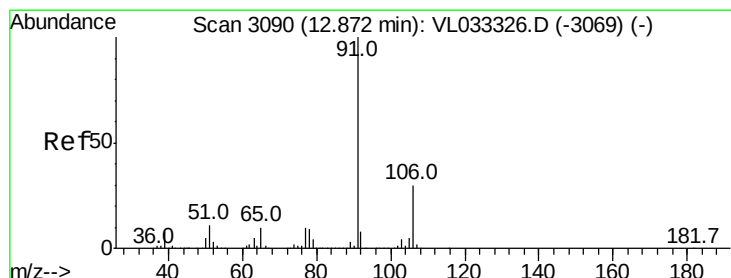
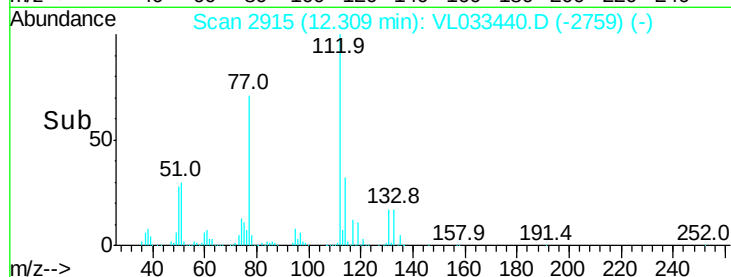
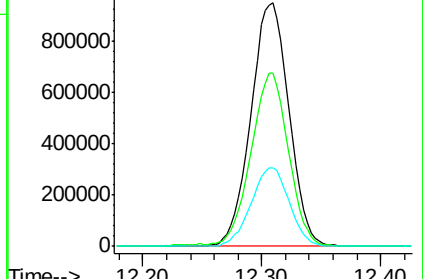
114 32.1 28.6 35.0



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: 15.206 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033440.D

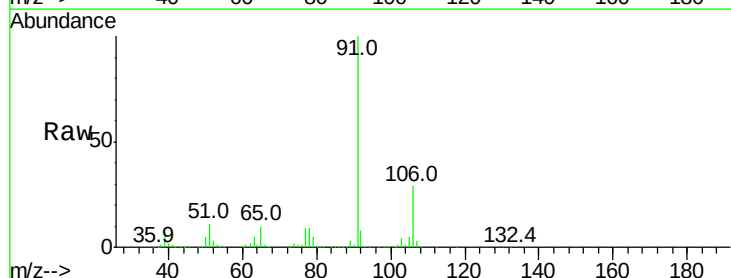
Acq: 25 Mar 2019 14:28

Tgt Ion: 91 Resp: 3916340

Ion Ratio Lower Upper

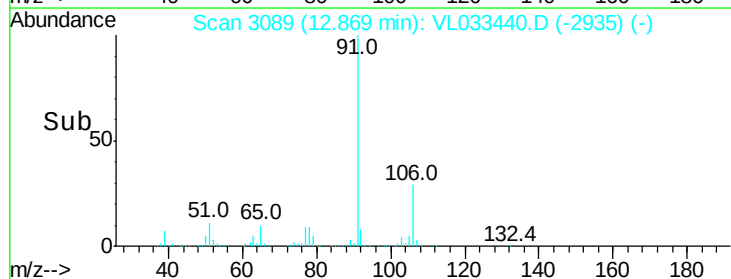
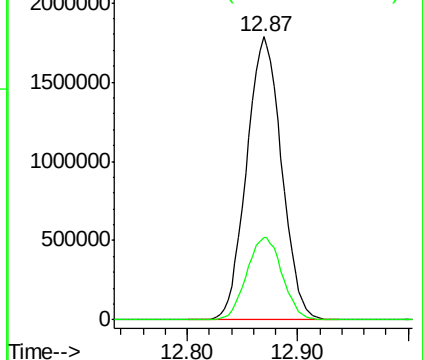
91 100

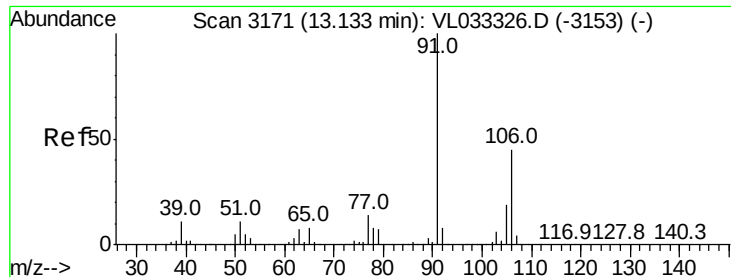
106 28.9 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

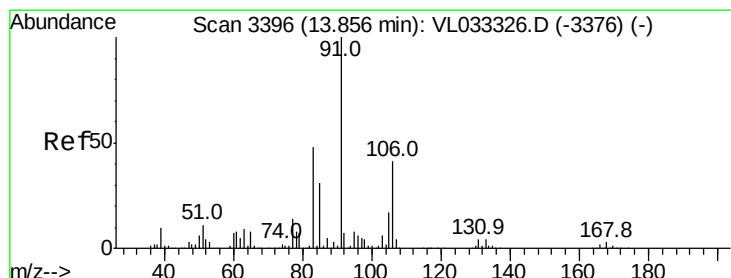
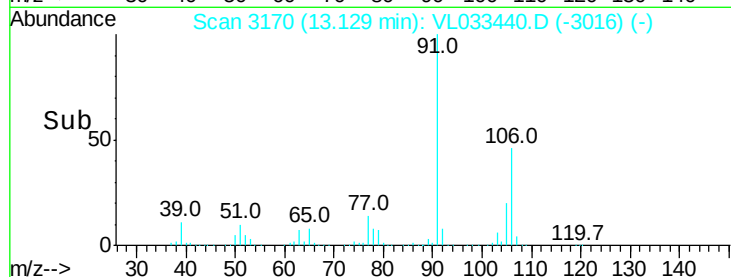
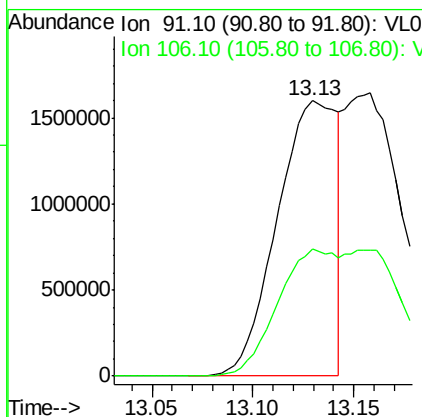
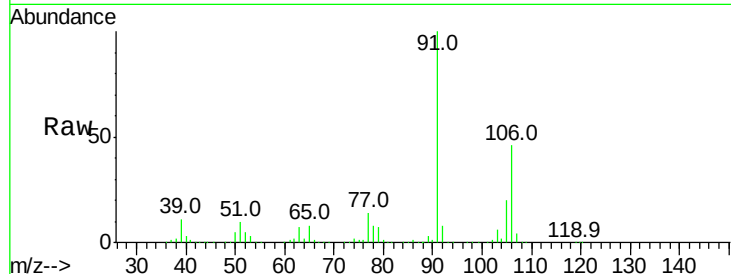




#59
m/p-Xylene
Concen: 14.743 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

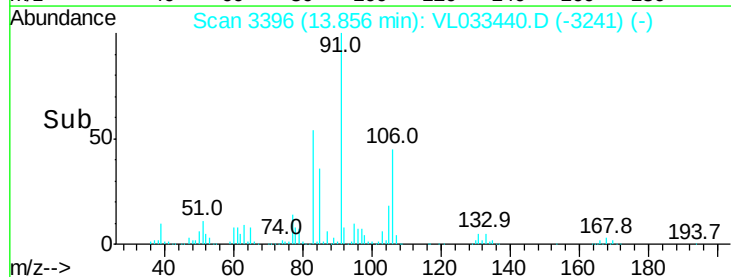
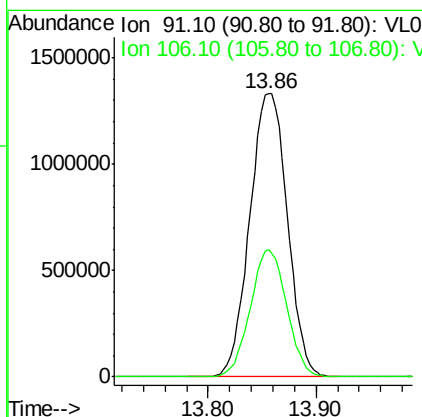
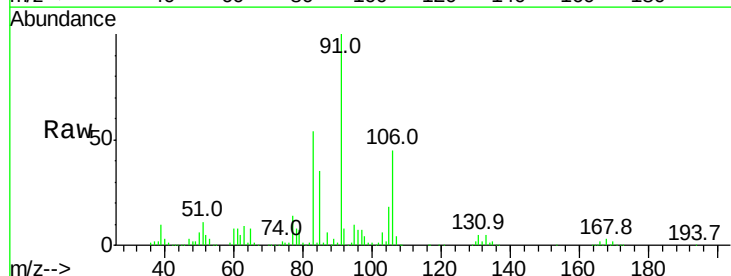
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

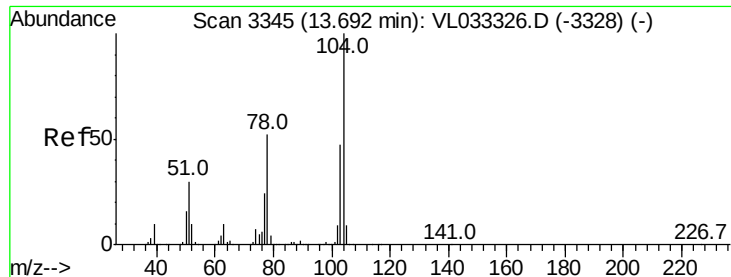
Tgt Ion: 91 Resp: 3263306
Ion Ratio Lower Upper
91 100
106 90.7 0.0 0.0#



#60
o-Xylene
Concen: 14.930 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL033440.D
Acq: 25 Mar 2019 14:28

Tgt Ion: 91 Resp: 3224006
Ion Ratio Lower Upper
91 100
106 43.4 21.3 63.9





#61

Styrene

Concen: 16.150 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

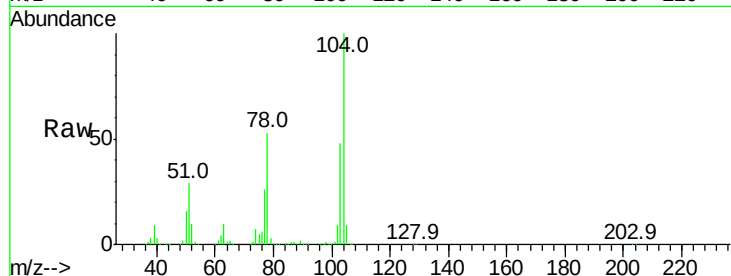
Tgt Ion:104 Resp: 2441729

Ion Ratio Lower Upper

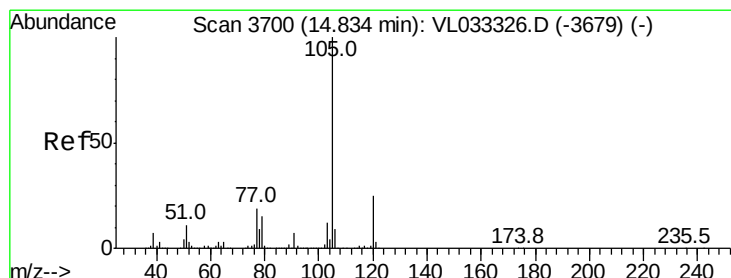
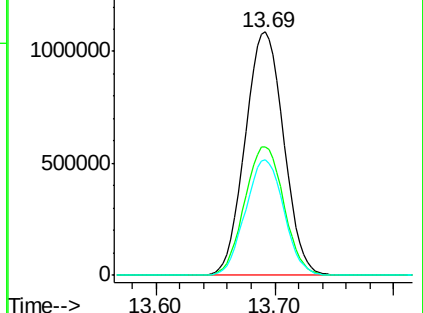
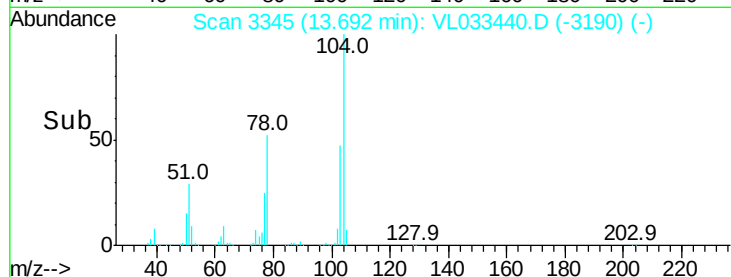
104 100

78 53.7 42.7 64.1

103 47.4 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: 15.192 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.00 min

Lab File: VL033440.D

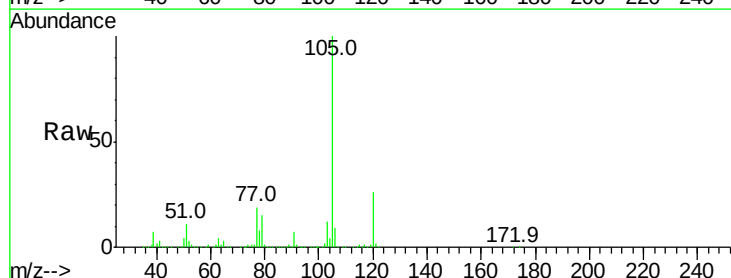
Acq: 25 Mar 2019 14:28

Tgt Ion:105 Resp: 4560623

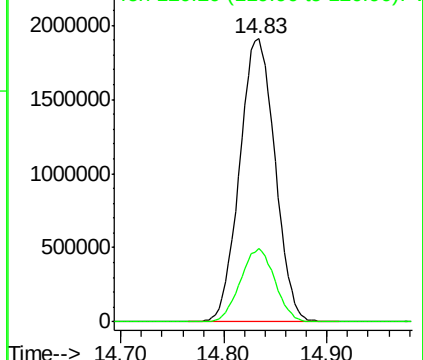
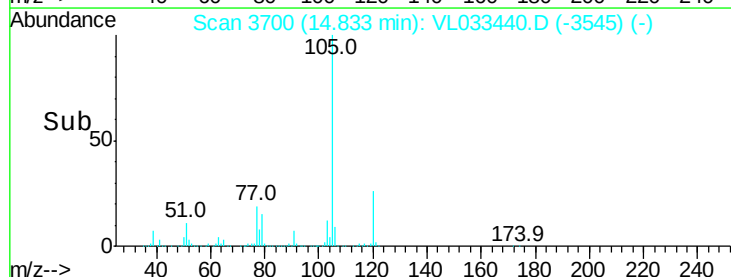
Ion Ratio Lower Upper

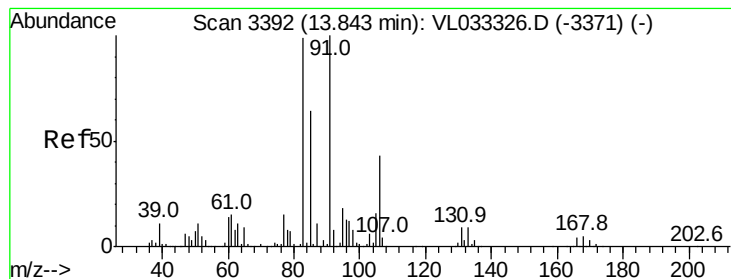
105 100

120 25.2 19.9 29.9



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: 14.364 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

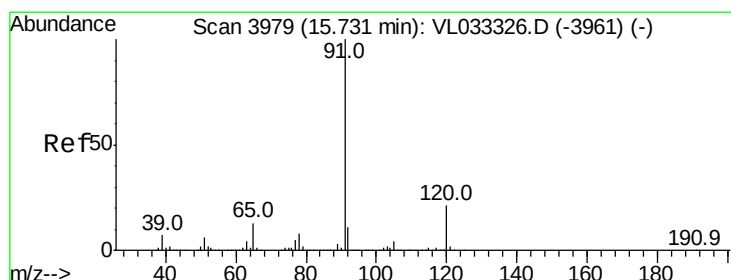
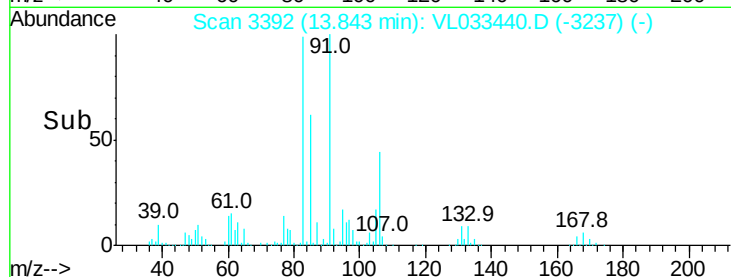
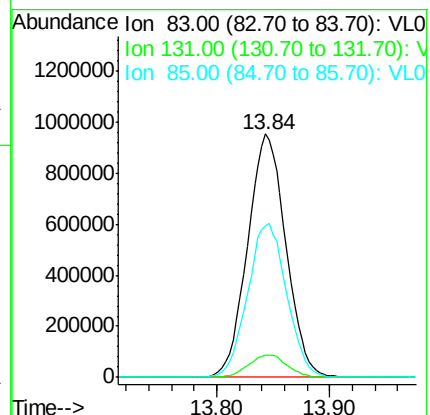
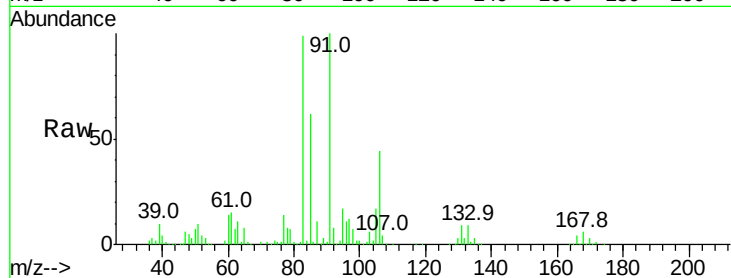
Tgt Ion: 83 Resp: 2242225

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	64.7	32.5	97.4

83 100

131 9.4 4.7 14.0

85 64.7 32.5 97.4



#64

n-propylbenzene

Concen: 15.642 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. -0.00 min

Lab File: VL033440.D

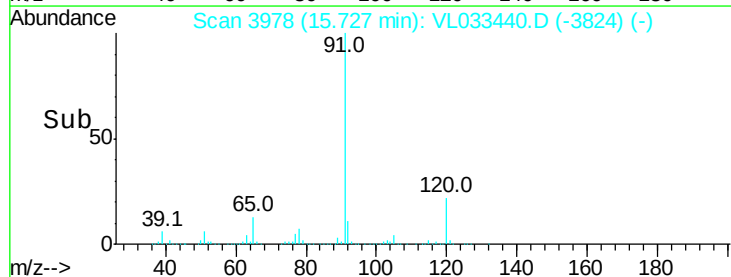
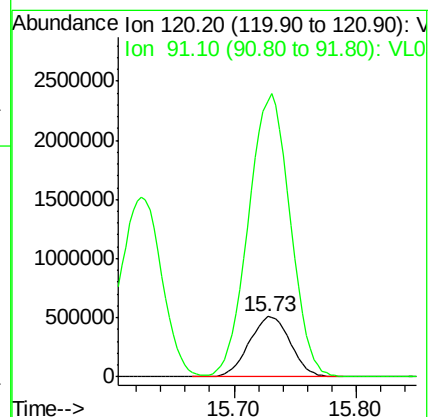
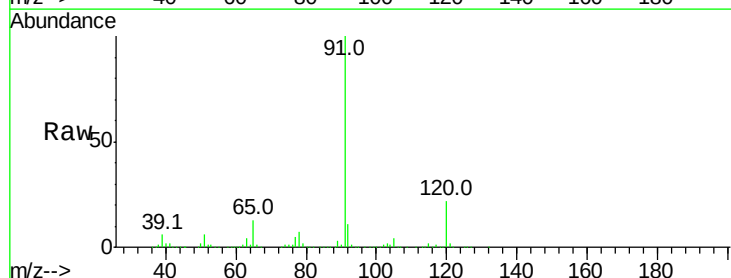
Acq: 25 Mar 2019 14:28

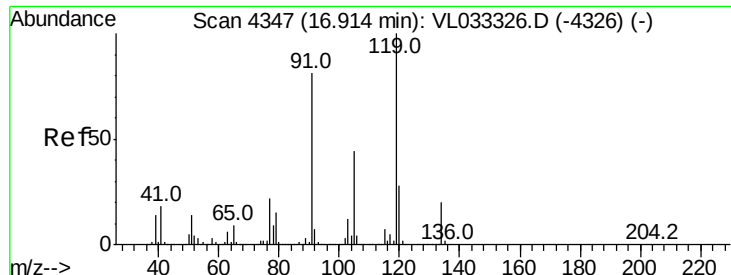
Tgt Ion: 120 Resp: 1188254

Ion	Ratio	Lower	Upper
120	100		
91	476.9	389.8	584.6

120 100

91 476.9 389.8 584.6





#65

tert-Butylbenzene

Concen: 15.213 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. 0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

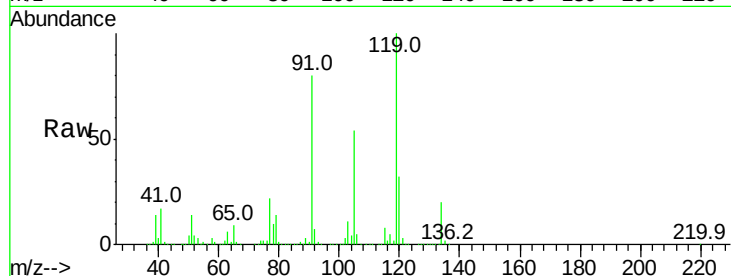
Tgt Ion:119 Resp: 4111595

Ion Ratio Lower Upper

119 100

91 82.2 67.2 100.8

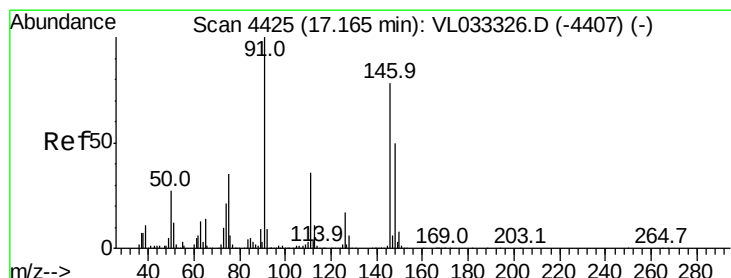
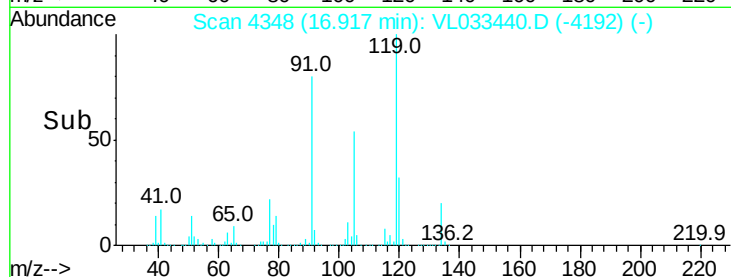
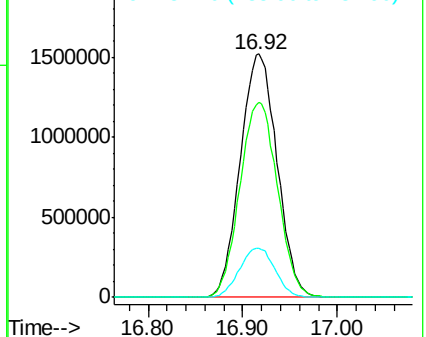
134 19.5 15.4 23.2



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: 22.224 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

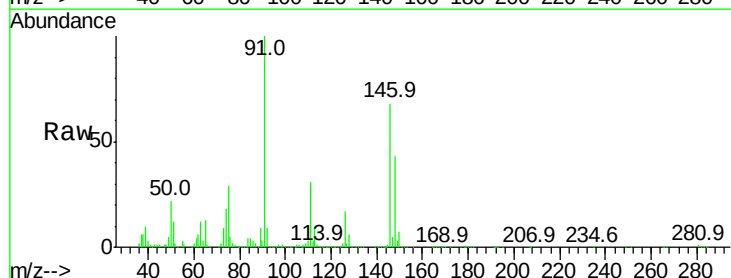
Tgt Ion: 91 Resp: 2482201

Ion Ratio Lower Upper

91 100

126 16.9 13.2 19.8

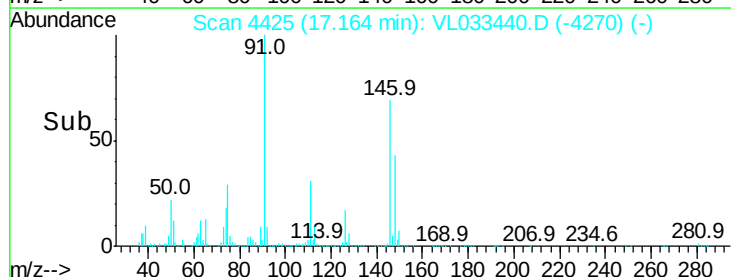
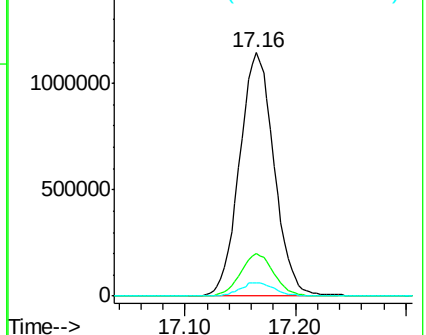
128 5.5 4.2 6.4

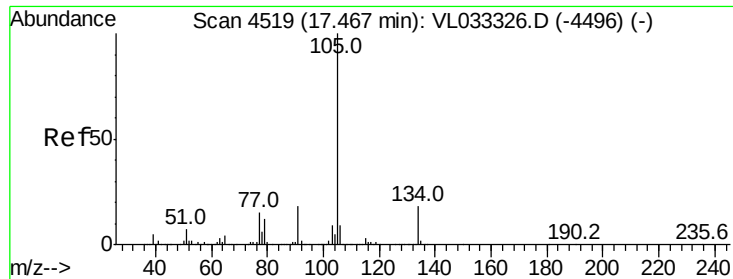


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 15.309 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

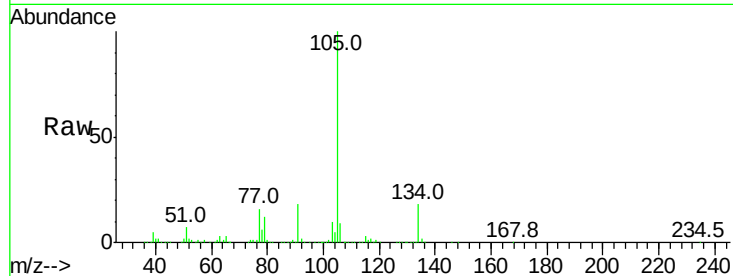
VSTDIC015

Tgt Ion: 105 Resp: 5863044

Ion Ratio Lower Upper

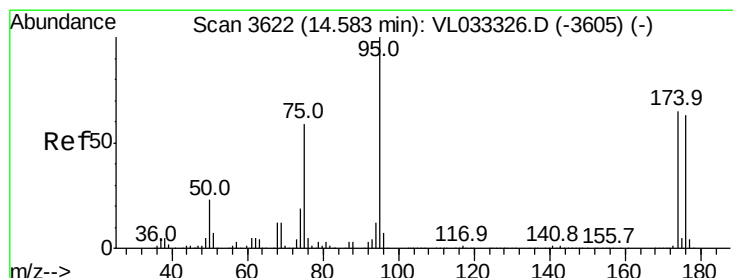
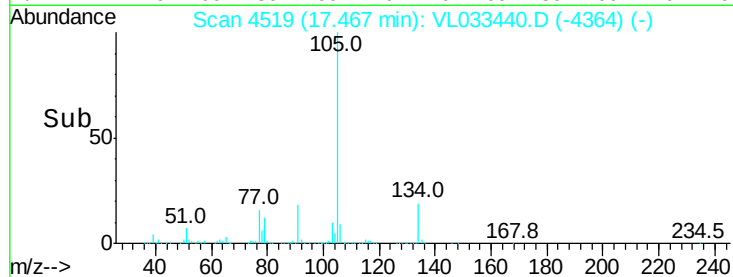
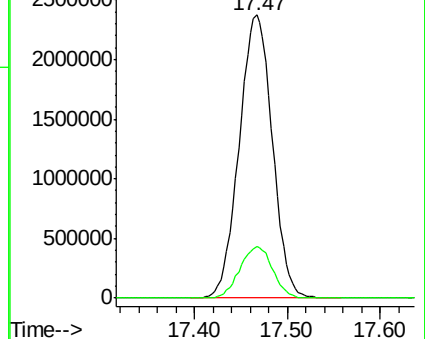
105 100

134 18.1 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.107 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

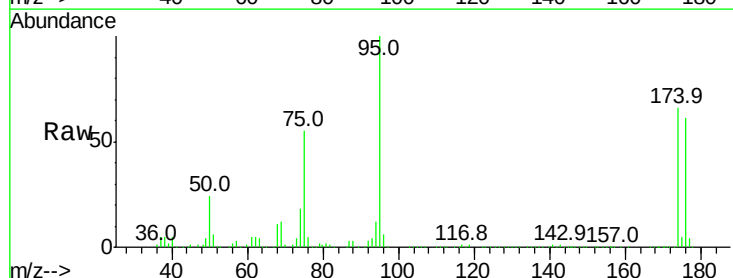
Tgt Ion: 95 Resp: 1363502

Ion Ratio Lower Upper

95 100

174 65.7 51.5 77.3

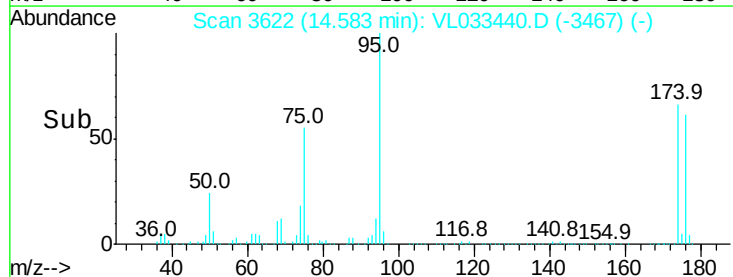
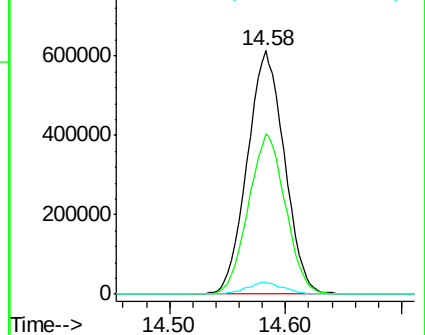
175 4.7 3.8 5.6

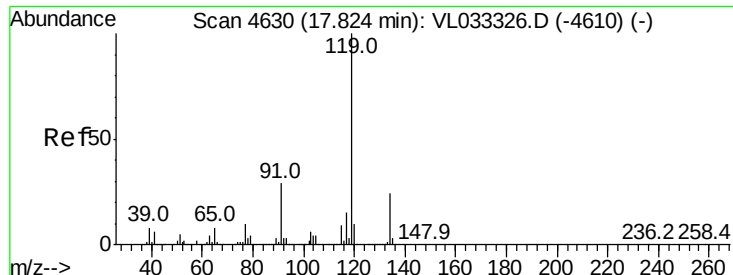


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

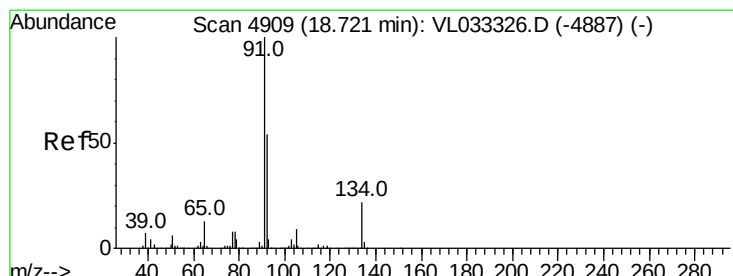
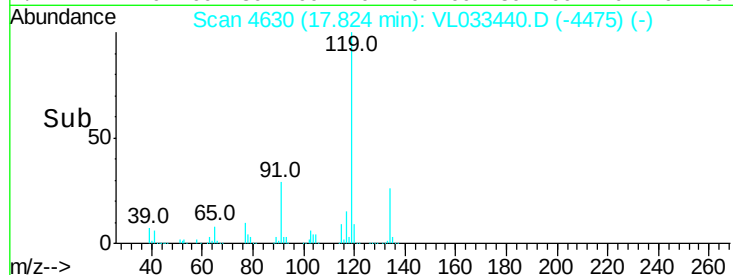
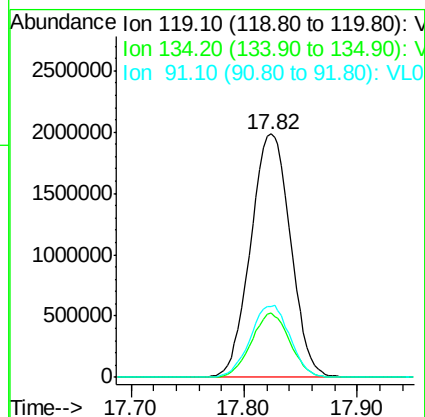
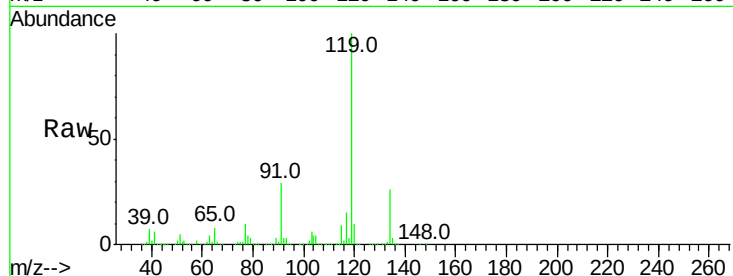




#69
 p-Isopropyltoluene
 Concen: 15.517 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

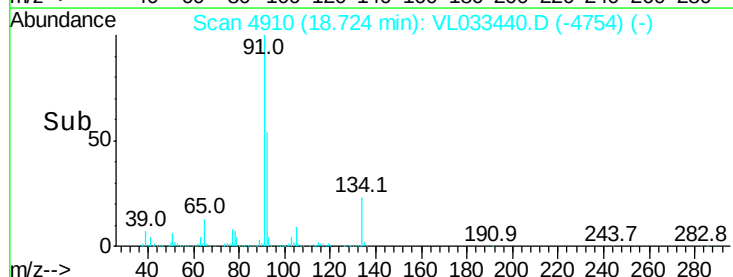
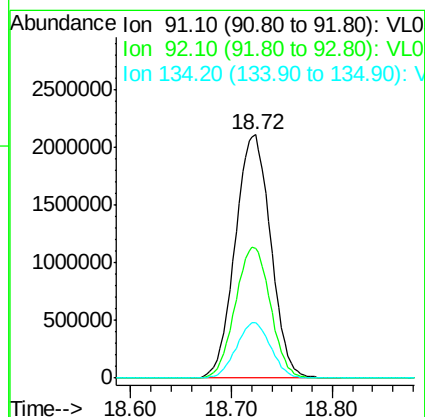
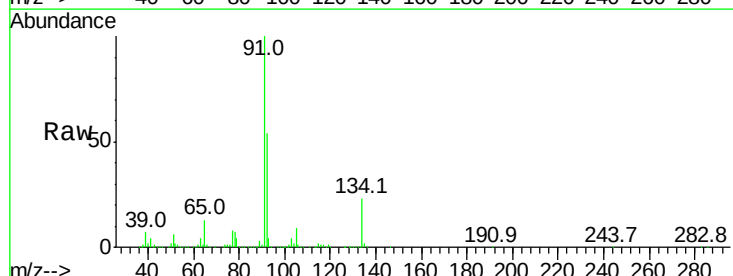
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

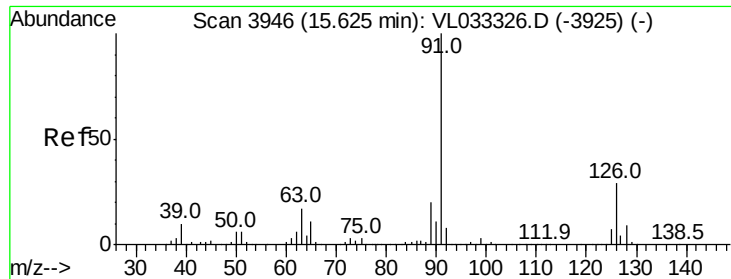
Tgt Ion: 119 Resp: 4855149
 Ion Ratio Lower Upper
 119 100
 134 25.4 19.8 29.6
 91 29.4 23.4 35.2



#70
 n-Butylbenzene
 Concen: 15.396 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion: 91 Resp: 5136557
 Ion Ratio Lower Upper
 91 100
 92 53.5 42.8 64.2
 134 22.2 17.4 26.0

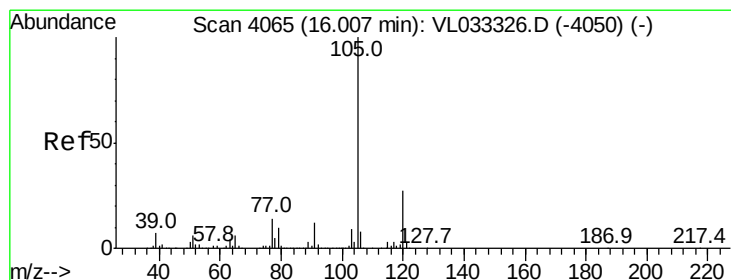
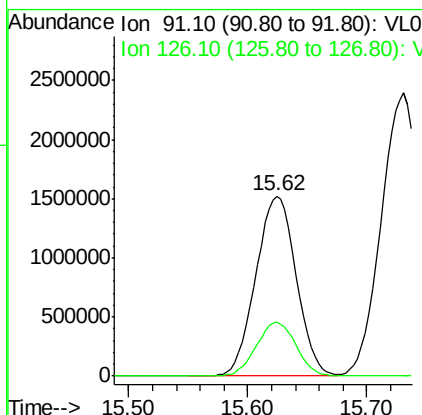
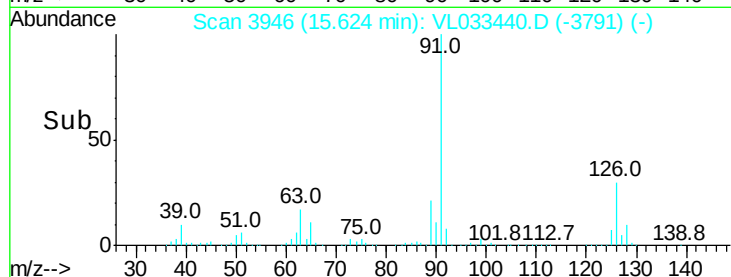
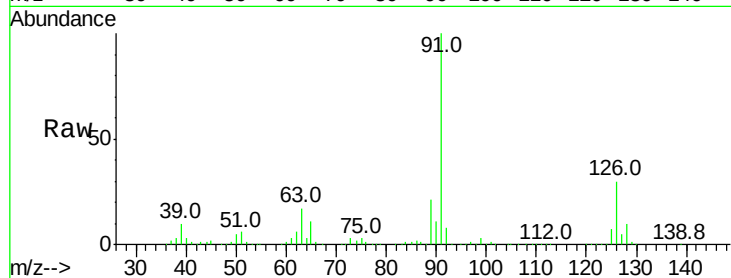




#71
 2-Chlorotoluene
 Concen: 15.321 ppbv
 RT: 15.62 min Scan# 3946
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

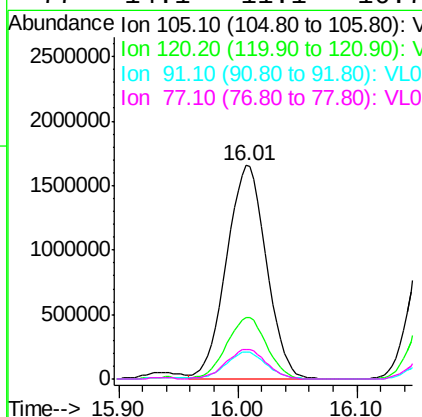
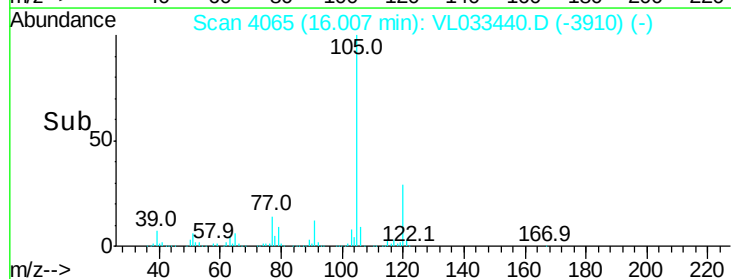
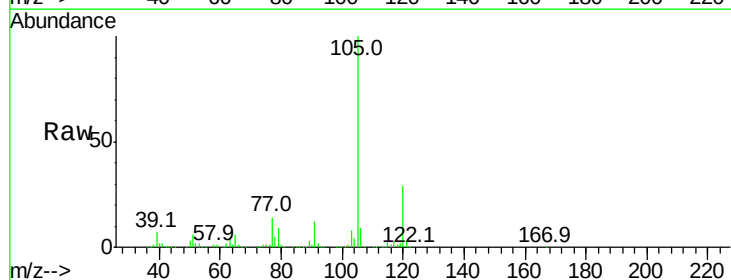
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

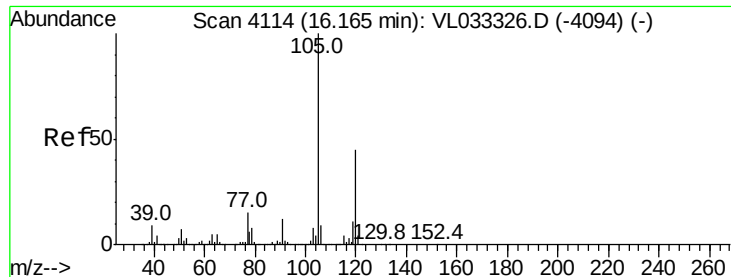
Tgt Ion: 91 Resp: 3580246
 Ion Ratio Lower Upper
 91 100
 126 29.6 11.6 46.6



#72
 4-Ethyltoluene
 Concen: 15.602 ppbv
 RT: 16.01 min Scan# 4065
 Delta R.T. -0.00 min
 Lab File: VL033440.D
 Acq: 25 Mar 2019 14:28

Tgt Ion: 105 Resp: 3825977
 Ion Ratio Lower Upper
 105 100
 120 29.0 22.9 34.3
 91 12.8 10.2 15.2
 77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 15.317 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

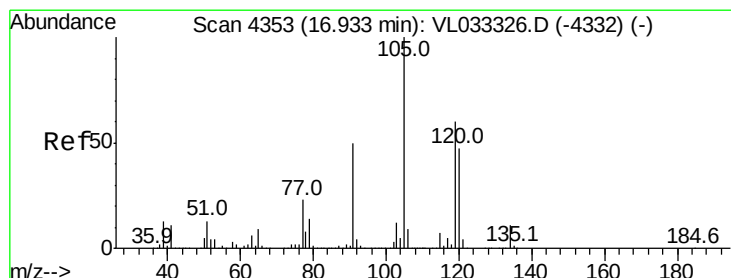
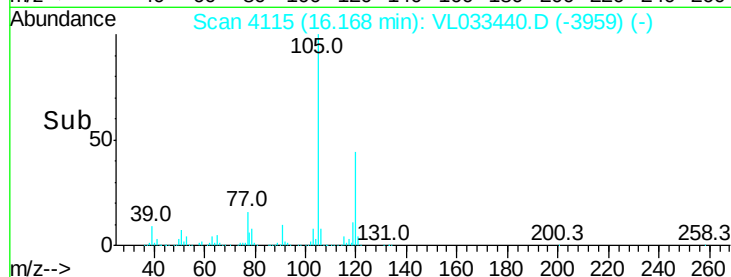
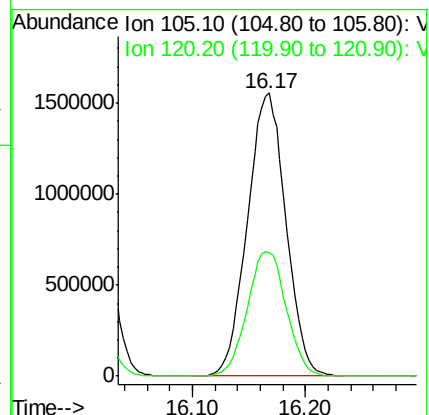
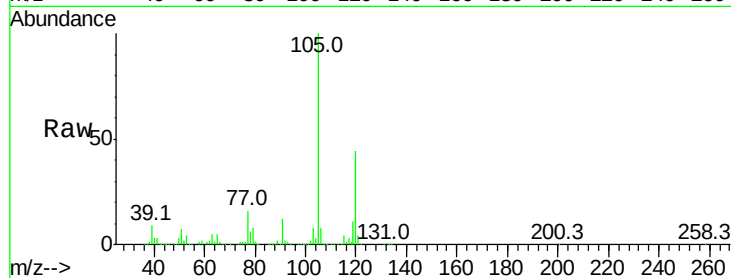
VSTDIC015

Tgt Ion:105 Resp: 3659073

Ion Ratio Lower Upper

105 100

120 43.6 36.2 54.4



#74

1,2,4-Trimethylbenzene

Concen: 14.956 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Tgt Ion:105 Resp: 3783889

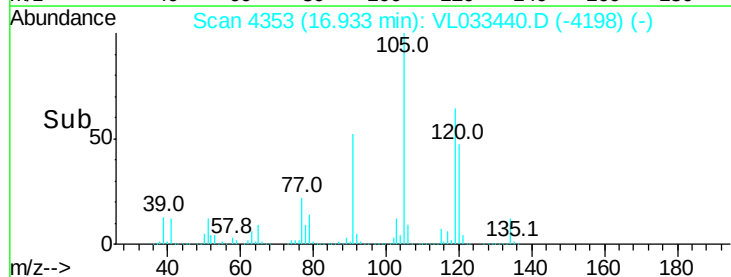
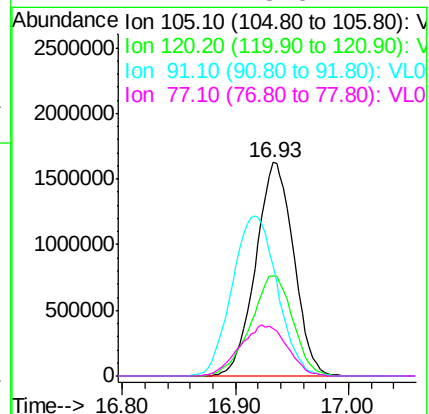
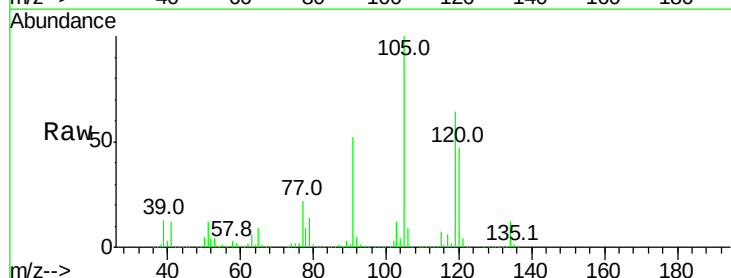
Ion Ratio Lower Upper

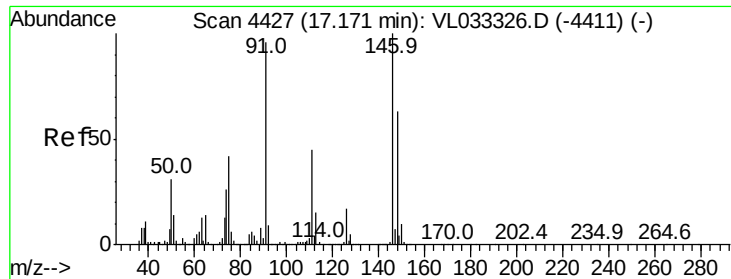
105 100

120 46.8 37.4 56.2

91 51.5 41.0 61.4

77 22.4 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 15.047 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

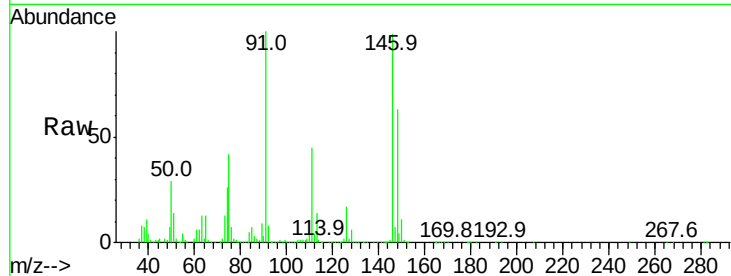
Tgt Ion:146 Resp: 2243789

Ion Ratio Lower Upper

146 100

111 45.3 22.8 68.3

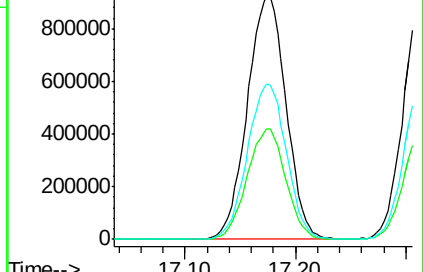
148 64.3 31.9 95.7



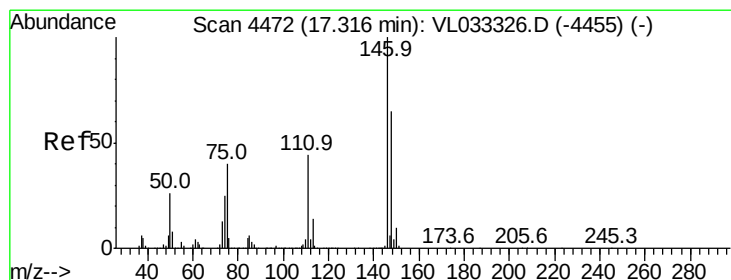
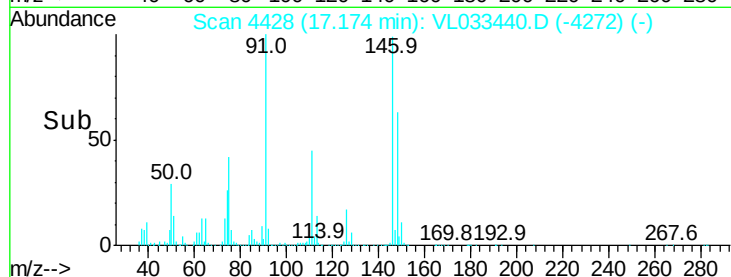
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



Time-->



#76

1,4-Dichlorobenzene

Concen: 15.706 ppbv

RT: 17.32 min Scan# 4473

Delta R.T. 0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

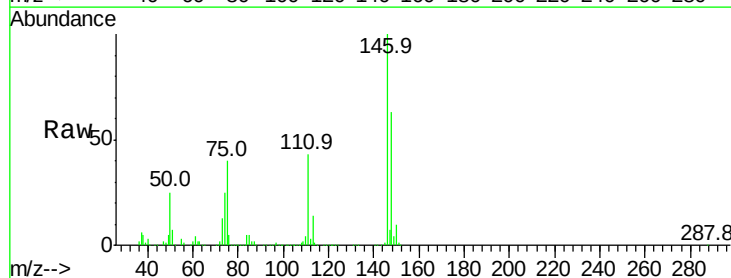
Tgt Ion:146 Resp: 2267585

Ion Ratio Lower Upper

146 100

111 43.9 21.9 65.7

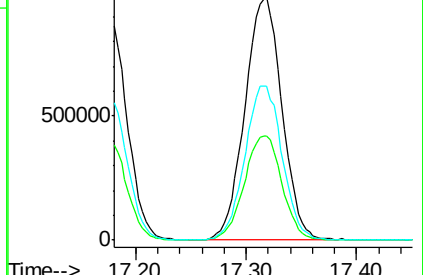
148 64.3 32.1 96.5



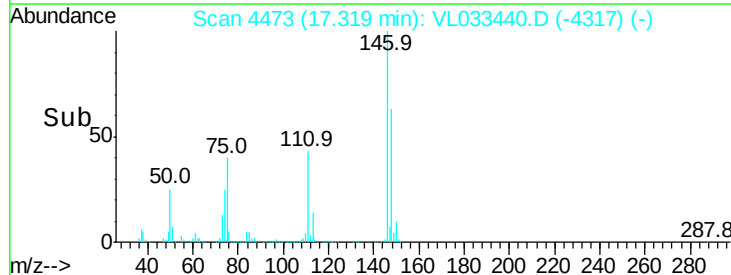
Abundance Ion 146.00 (145.70 to 146.70): V

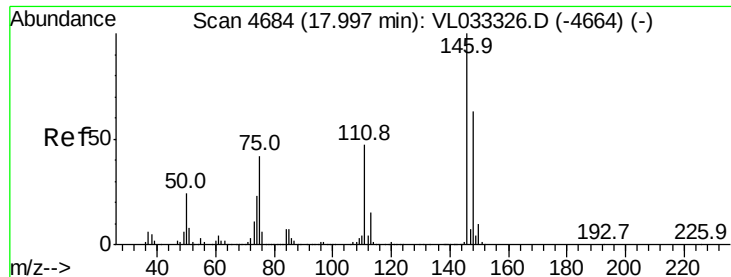
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



Time-->





#77

1,2-Dichlorobenzene

Concen: 15.710 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

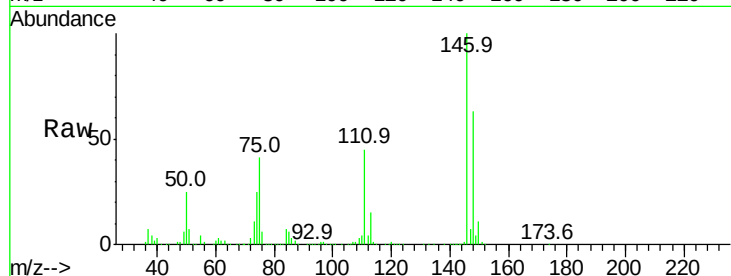
Tgt Ion:146 Resp: 2218744

Ion Ratio Lower Upper

146 100

111 46.3 23.5 70.6

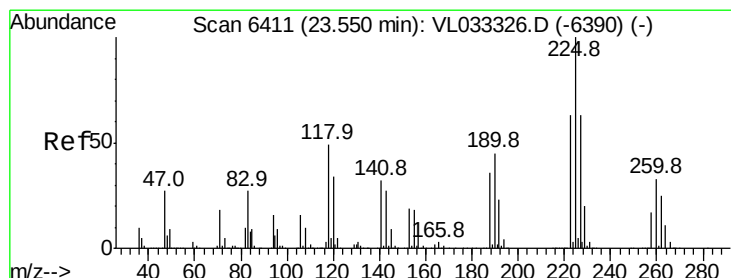
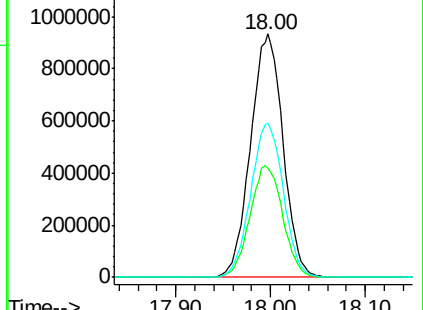
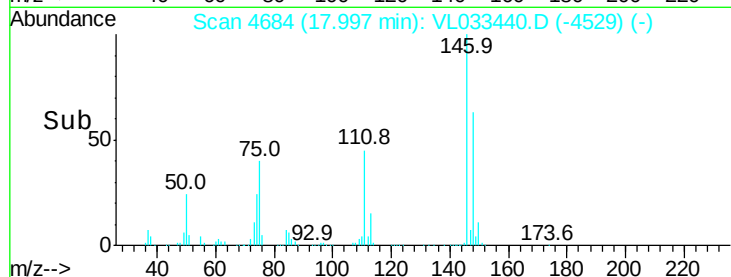
148 63.8 31.9 95.9



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: 19.831 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

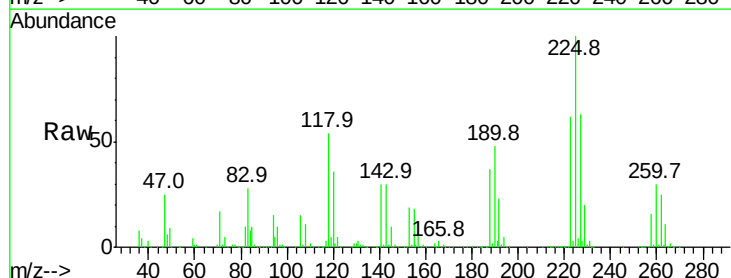
Tgt Ion:225 Resp: 1679115

Ion Ratio Lower Upper

225 100

223 63.1 50.4 75.6

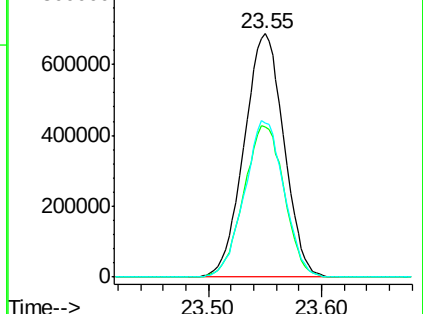
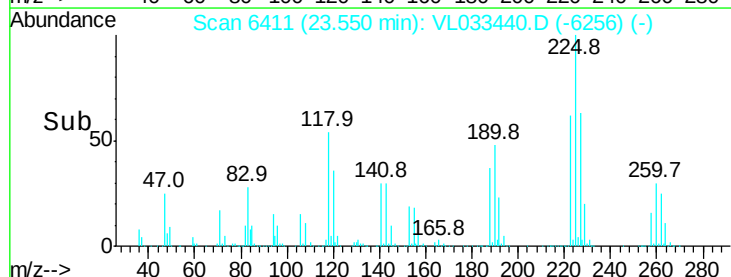
227 63.7 50.5 75.7

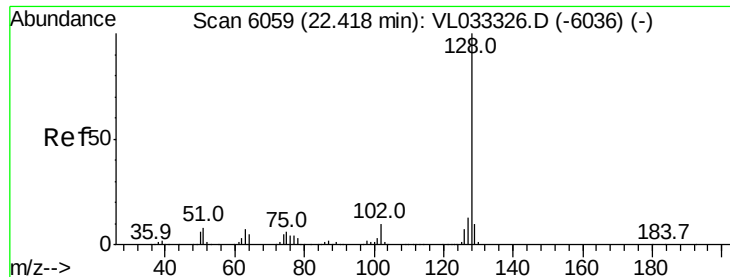


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 16.094 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

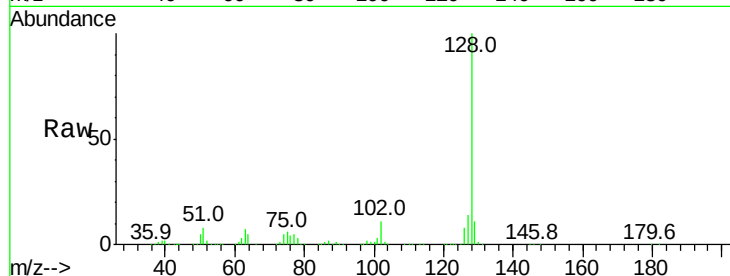
Tgt Ion:128 Resp: 3923764

Ion Ratio Lower Upper

128 100

127 13.5 10.1 15.1

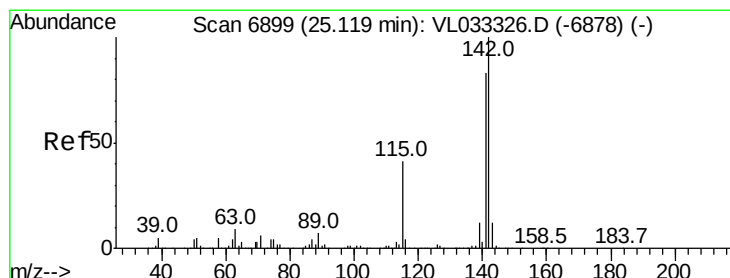
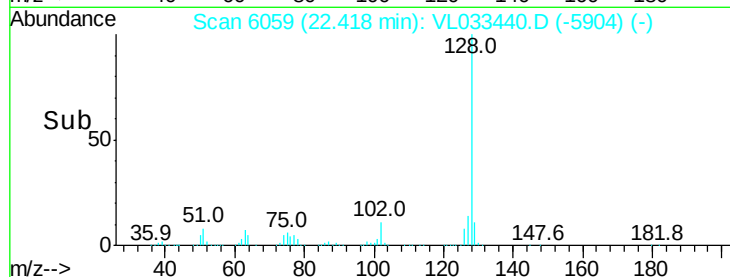
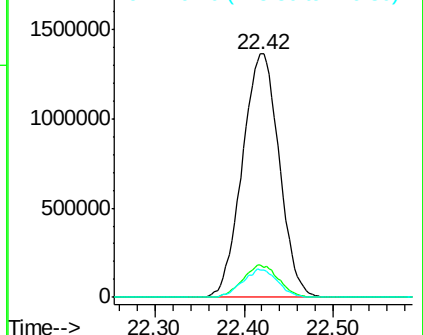
129 11.3 8.2 12.2



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: 15.313 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

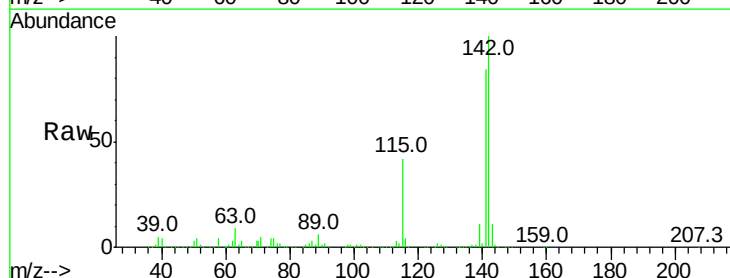
Tgt Ion:142 Resp: 1770271

Ion Ratio Lower Upper

142 100

141 84.5 67.1 100.7

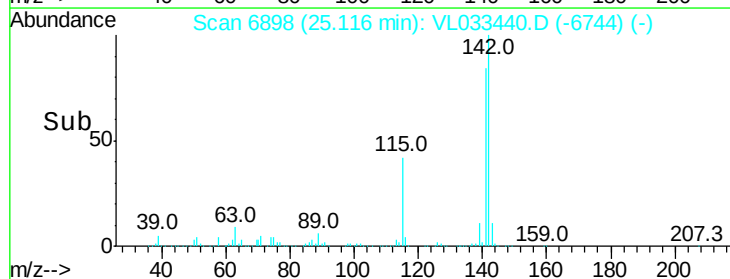
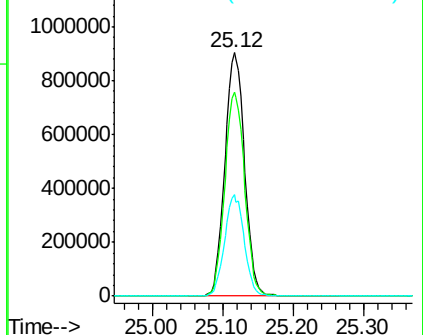
115 41.5 33.8 50.6

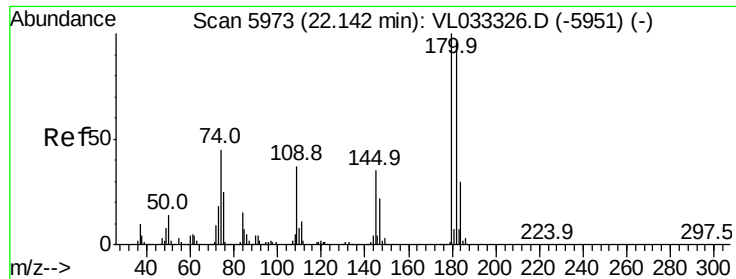


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 15.932 ppbv

RT: 22.14 min Scan# 5973

Delta R.T. -0.00 min

Lab File: VL033440.D

Acq: 25 Mar 2019 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

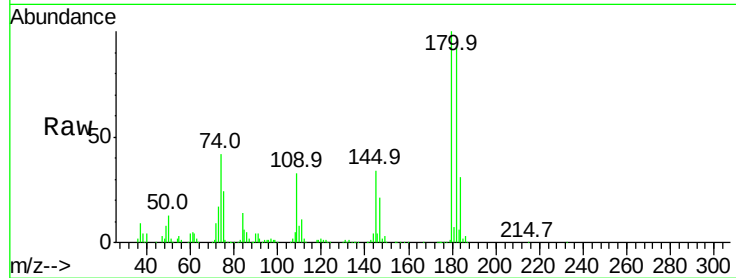
Tgt Ion:180 Resp: 1980769

Ion Ratio Lower Upper

180 100

182 94.6 76.1 114.1

184 30.5 24.6 37.0



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

