

Data Path : W:\HPCHEM1\MSVOA_L\Data\VL072715\
 Data File : VL025781.D
 Acq On : 28 Jul 2015 9:59
 Operator : SY/MD
 Sample : VSTDCCV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010

Quant Time: Jul 28 10:35:04 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	597357	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.33	114	1660473	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.75	117	2681633	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.29	95	1900138	8.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.00%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.64	85	804053	5.20	ppbv	98
3) Chlorodifluoromethane	3.57	51	650197	7.72	ppbv	99
4) Chloromethane	3.75	50	310617	8.09	ppbv	99
5) Vinyl Chloride	3.89	62	337356	8.14	ppbv	100
6) Bromomethane	4.14	94	290457	8.63	ppbv	98
7) Chloroethane	4.24	64	155508	8.06	ppbv	98
8) Dichlorotetrafluoroethane	3.80	85	1100448	8.11	ppbv	99
9) Propene	3.59	41	215134	7.69	ppbv	100
10) Heptane	9.35	43	933763	8.58	ppbv	98
11) Trichlorofluoromethane	4.69	101	1698698	8.46	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.30	101	947567	8.23	ppbv	100
13) Ethanol	4.32	45	27327	6.28	ppbv	94
14) Bromoethene	4.45	108	307081	8.13	ppbv	99
15) Acetone	4.59	43	1247802	11.82	ppbv	97
16) 1,3-Butadiene	3.96	39	347526	8.27	ppbv	97
17) tert-Butyl alcohol	5.12	59	743718	8.40	ppbv	100
18) 1,1-Dichloroethene	5.08	96	363037	8.24	ppbv	99
19) Isopropyl Alcohol	4.75	45	287809	6.83	ppbv #	96
20) Methylene Chloride	5.15	84	325409	7.59	ppbv	91
21) Allyl Chloride	5.23	41	512619	7.76	ppbv	94
22) trans-1,2-Dichloroethene	5.76	96	365091	8.11	ppbv	95
23) Vinyl Acetate	5.98	43	1522882	9.52	ppbv	99
24) 1,1-Dichloroethane	5.91	63	862114	8.04	ppbv	99
25) Ethyl Acetate	6.67	43	1309608	8.20	ppbv	99
26) Hexane	6.66	57	609164	8.10	ppbv	98
27) Carbon Disulfide	5.39	76	1013207	8.32	ppbv	99
28) Methyl tert-Butyl Ether	5.95	73	1269124	8.49	ppbv	100
29) Chloroform	6.75	83	1212327	8.16	ppbv	99
30) Cyclohexane	8.29	84	613040	8.53	ppbv	99
31) cis-1,2-Dichloroethene	6.52	61	644655	8.63	ppbv	98
32) 1,1,1-Trichloroethane	7.60	97	1377024	8.53	ppbv	99
34) 2-Butanone	6.20	43	808014	8.58	ppbv	99
35) Carbon Tetrachloride	8.17	117	1492413	8.44	ppbv	99
36) Benzene	8.02	78	1342384	8.44	ppbv	99
37) 1,2-Dichloroethane	7.37	62	1113094	8.20	ppbv	100
38) Trichloroethene	9.07	130	629881	8.52	ppbv	98
39) 1,2-Dichloropropane	8.83	63	476692	8.12	ppbv	96
40) 1,4-Dioxane	9.13	88	62332	6.77	ppbv #	1
41) Tetrahydrofuran	7.12	42	397855	8.46	ppbv	99
42) Bromodichloromethane	9.02	83	1405322	8.58	ppbv	99
43) Methyl Methacrylate	9.26	69	566620	9.28	ppbv	99

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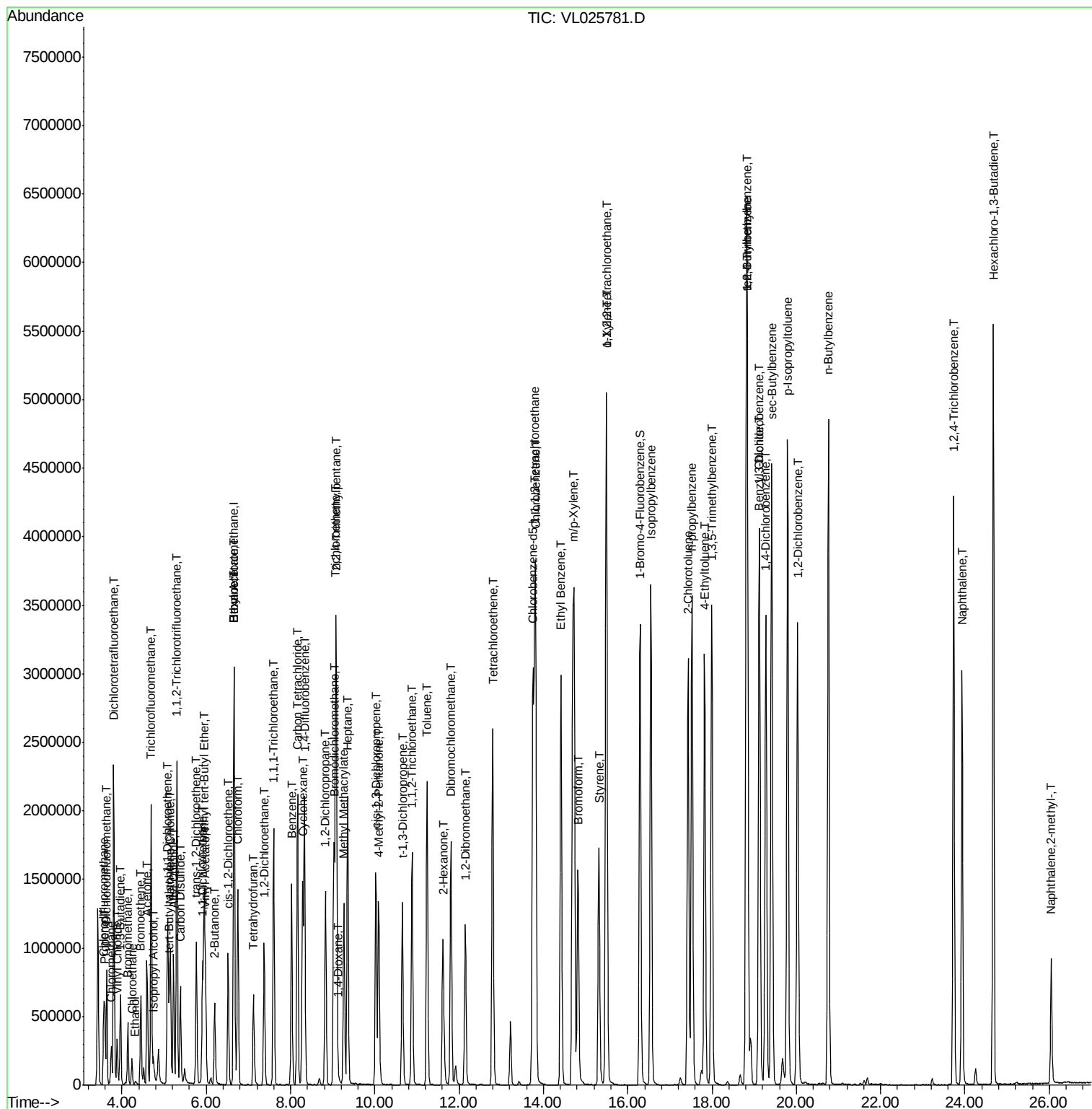
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44) 2,2,4-Trimethylpentane	9.09	57	2300797	8.43	ppbv	98
45) t-1,3-Dichloropropene	10.65	75	932530	9.08	ppbv	100
46) cis-1,3-Dichloropropene	10.02	75	1026000	9.04	ppbv	100
47) 1,1,2-Trichloroethane	10.88	97	687624	8.41	ppbv	98
48) Dibromochloromethane	11.80	129	1282603	8.77	ppbv	99
49) Bromoform	14.82	173	1055352	8.75	ppbv	99
50) 4-Methyl-2-Pentanone	10.09	43	1224808	9.02	ppbv	100
51) 2-Hexanone	11.62	43	1180852	9.70	ppbv #	100
52) Tetrachloroethene	12.80	164	712400	8.93	ppbv	99
53) Toluene	11.24	91	2020517	9.04	ppbv	99
54) 1,2-Dibromoethane	12.15	107	1118858	8.46	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.79	131	978094	6.75	ppbv	97
57) Chlorobenzene	13.82	112	1844791	6.47	ppbv	99
58) Ethyl Benzene	14.41	91	3250568	7.34	ppbv	99
59) m/p-Xylene	14.72	91	2874322	7.38	ppbv #	40
60) o-Xylene	15.49	91	2862971	6.83	ppbv	100
61) Styrene	15.31	104	1204197	8.20	ppbv	98
62) Isopropylbenzene	16.55	105	3844833	7.02	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.49	83	1778297	6.27	ppbv	100
64) n-propylbenzene	17.52	120	1042856	7.04	ppbv	98
65) tert-Butylbenzene	18.82	119	3657096	6.80	ppbv	99
66) Benzyl Chloride	19.11	91	1130500	5.73	ppbv	100
67) sec-Butylbenzene	19.41	105	5179527	6.87	ppbv	100
69) p-Isopropyltoluene	19.80	119	4470721	7.20	ppbv	99
70) n-Butylbenzene	20.76	91	4497092	7.14	ppbv	99
71) 2-Chlorotoluene	17.43	91	2921171	7.27	ppbv	100
72) 4-Ethyltoluene	17.82	105	3386268	7.31	ppbv	99
73) 1,3,5-Trimethylbenzene	17.99	105	3250065	7.14	ppbv	99
74) 1,2,4-Trimethylbenzene	18.83	105	3438275	6.74	ppbv	97
75) 1,3-Dichlorobenzene	19.13	146	2152820	6.48	ppbv	100
76) 1,4-Dichlorobenzene	19.28	146	2205199	6.63	ppbv	100
77) 1,2-Dichlorobenzene	20.03	146	2149092	6.52	ppbv	99
78) Hexachloro-1,3-Butadiene	24.67	225	1210538	5.97	ppbv	99
79) Naphthalene	23.93	128	3134251	6.36	ppbv	99
80) Naphthalene,2-methyl-	26.05	142	618004	4.32	ppbv	97
81) 1,2,4-Trichlorobenzene	23.74	180	1616284	6.84	ppbv	99

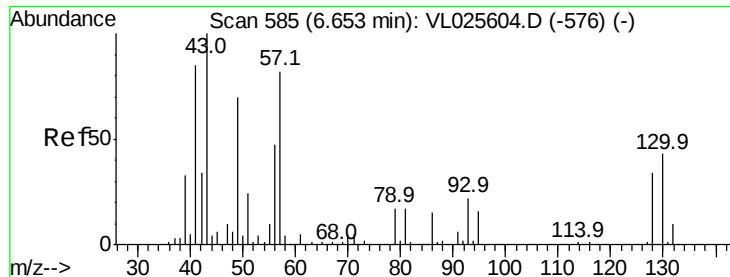
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial  : 1    Sample Multiplier: 1
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ClientSampleId :
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

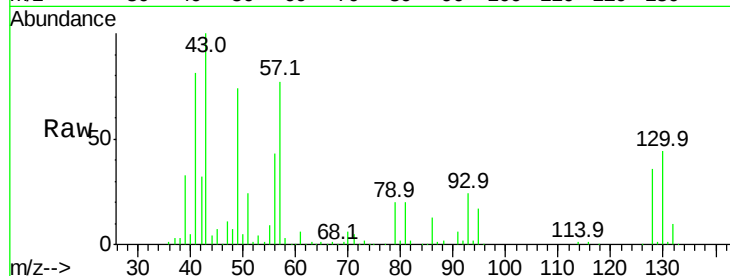
Tgt Ion: 49 Resp: 597357

Ion Ratio Lower Upper

49 100

128 50.8 25.4 76.0

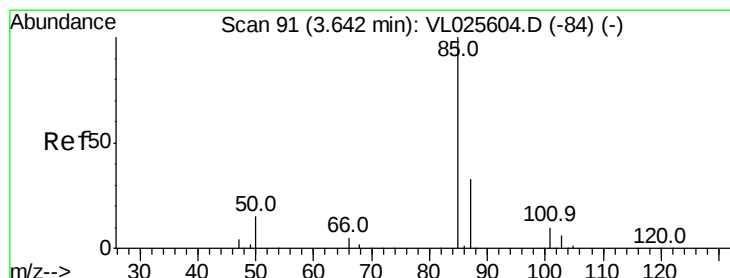
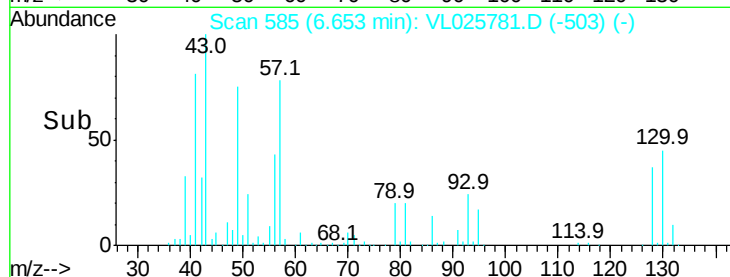
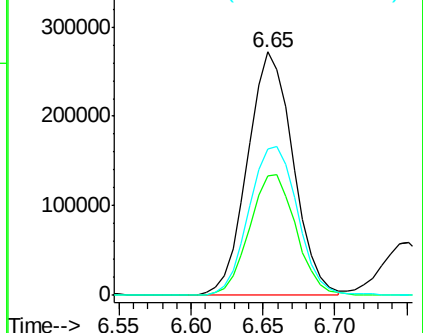
130 65.7 31.9 95.9



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: 5.20 ppbv

RT: 3.64 min Scan# 90

Delta R.T. -0.01 min

Lab File: VL025781.D

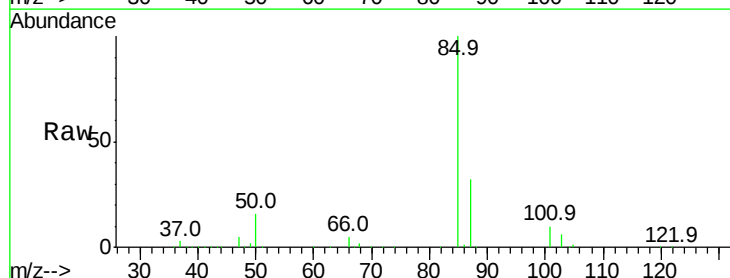
Acq: 28 Jul 2015 9:59

Tgt Ion: 85 Resp: 804053

Ion Ratio Lower Upper

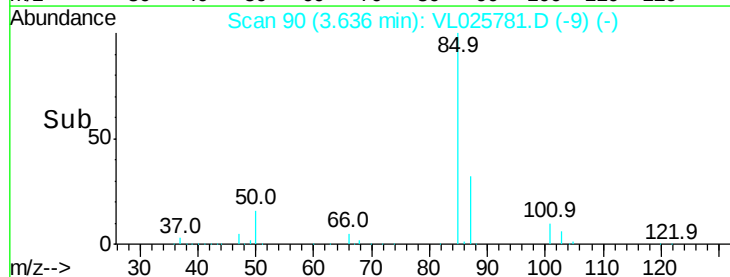
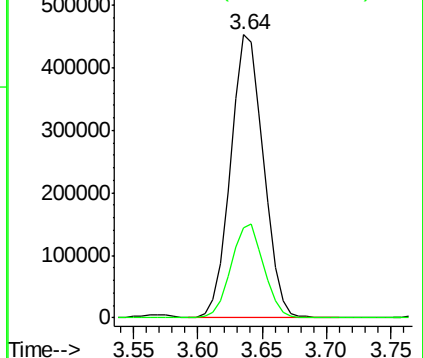
85 100

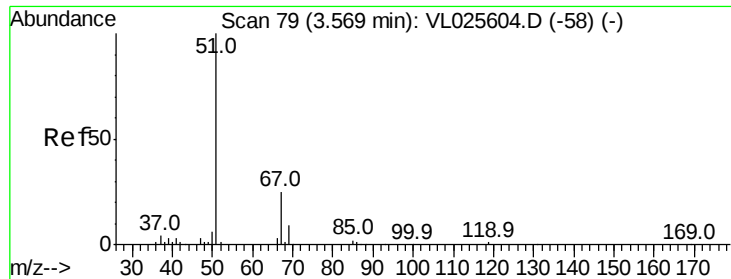
87 31.9 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

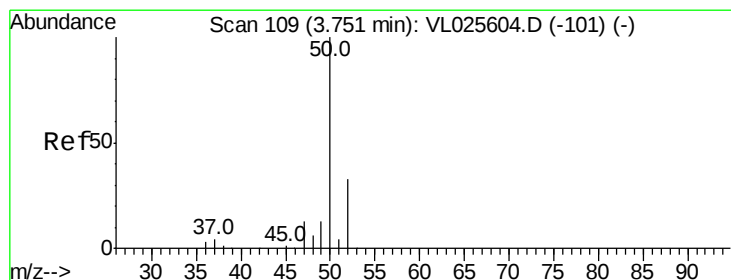
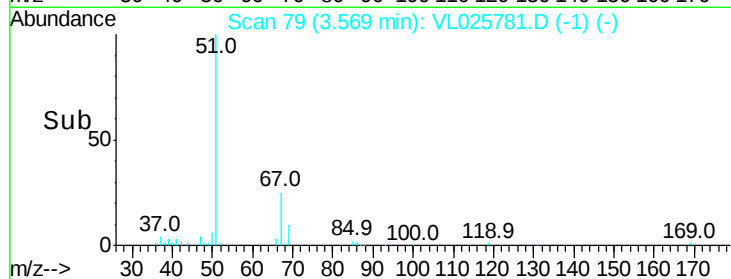
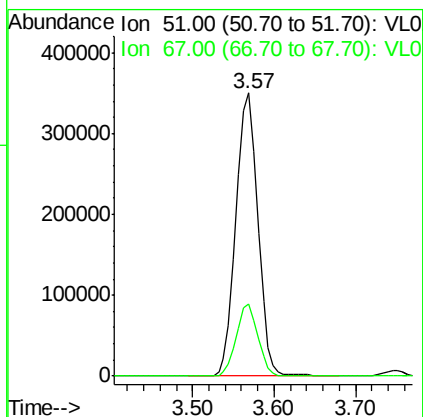
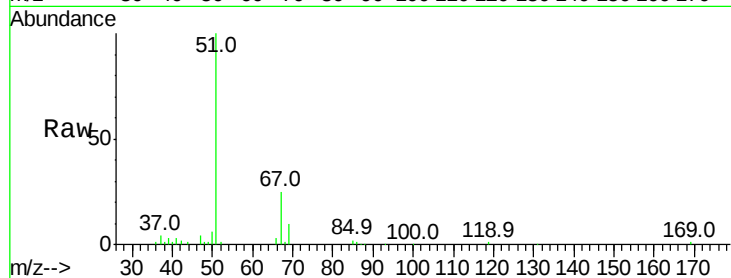




#3
Chlorodifluoromethane
Concen: 7.72 ppbv
RT: 3.57 min Scan# 79
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

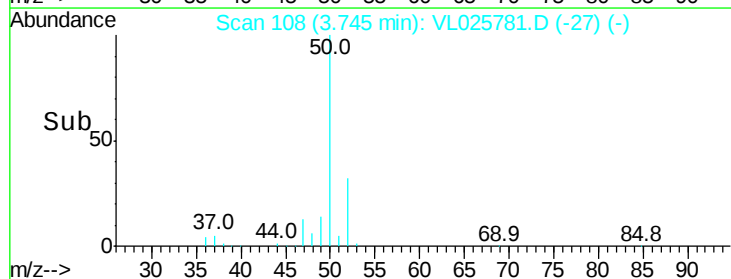
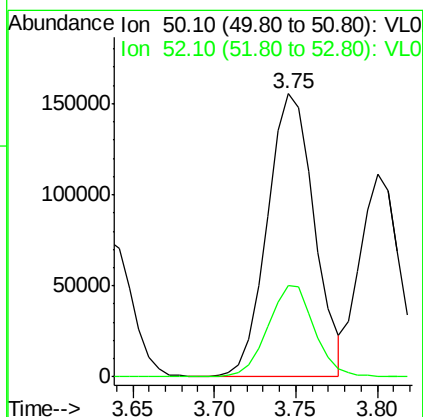
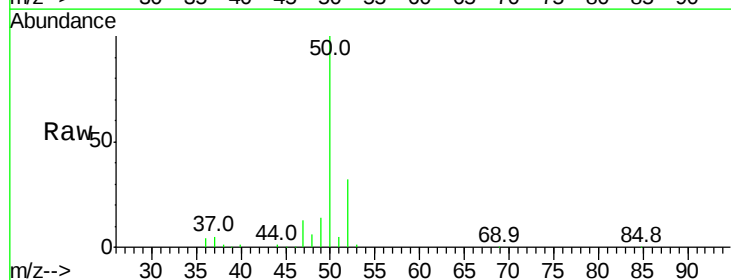
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

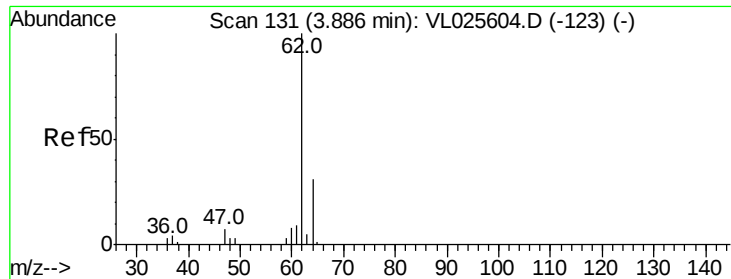
Tgt Ion: 51 Resp: 650197
Ion Ratio Lower Upper
51 100
67 25.0 19.5 29.3



#4
Chloromethane
Concen: 8.09 ppbv
RT: 3.75 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 50 Resp: 310617
Ion Ratio Lower Upper
50 100
52 32.2 26.2 39.2





#5

Vinyl Chloride

Concen: 8.14 ppbv

RT: 3.89 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

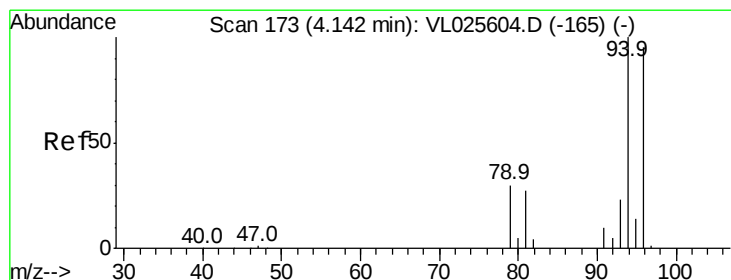
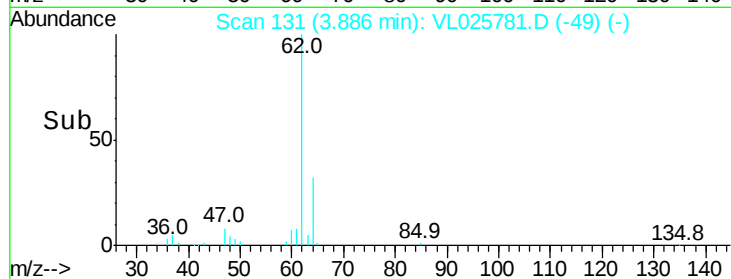
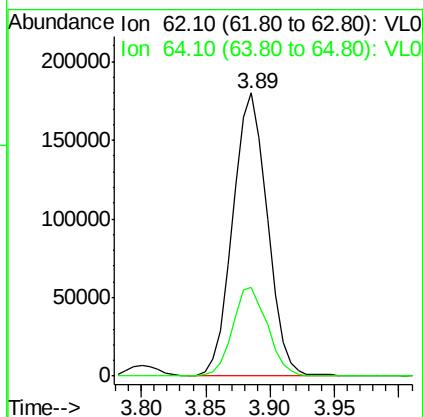
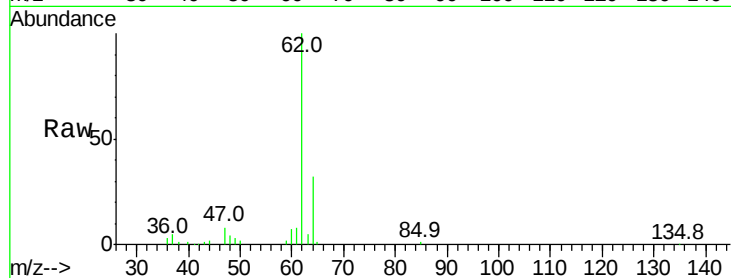
VSTDCCV010

Tgt Ion: 62 Resp: 337356

Ion Ratio Lower Upper

62 100

64 31.5 25.0 37.6



#6

Bromomethane

Concen: 8.63 ppbv

RT: 4.14 min Scan# 173

Delta R.T. 0.00 min

Lab File: VL025781.D

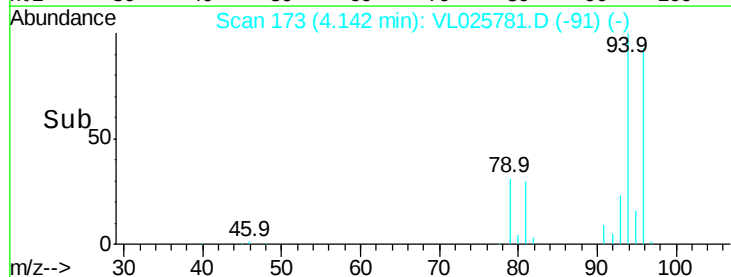
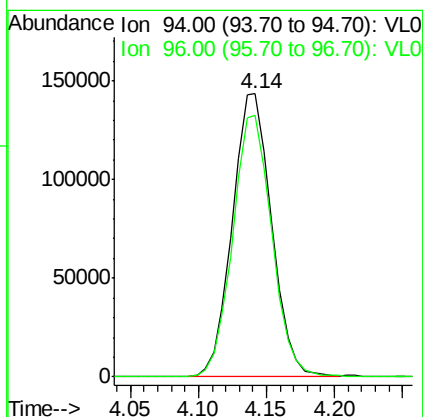
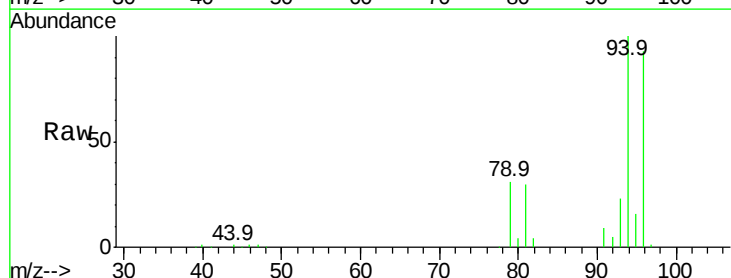
Acq: 28 Jul 2015 9:59

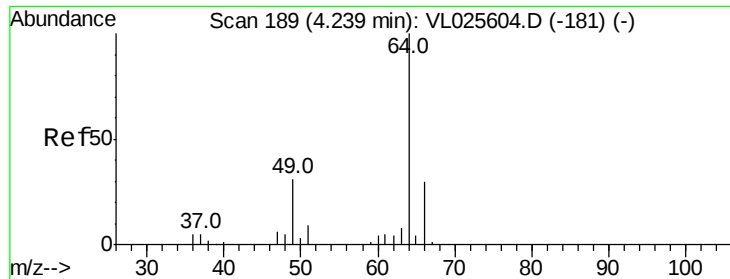
Tgt Ion: 94 Resp: 290457

Ion Ratio Lower Upper

94 100

96 92.6 75.9 113.9





#7

Chloroethane

Concen: 8.06 ppbv

RT: 4.24 min Scan# 189

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

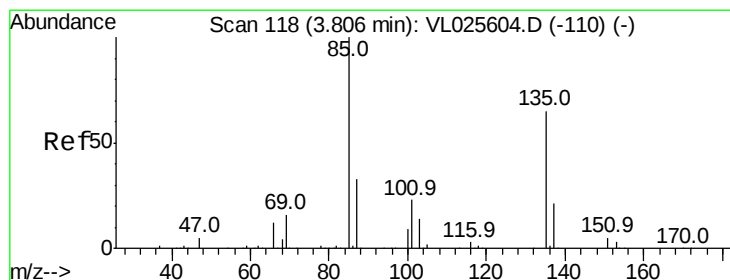
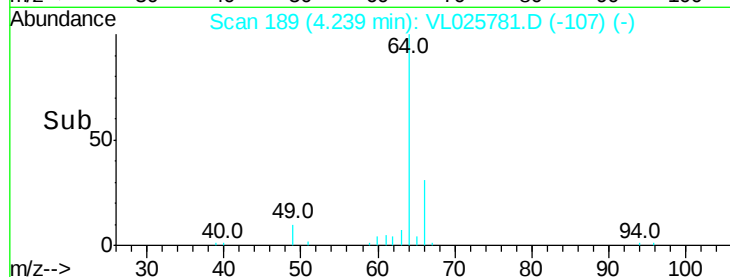
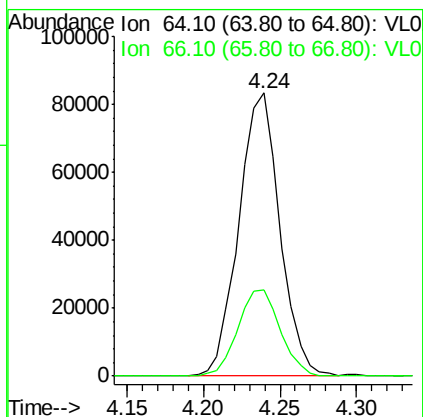
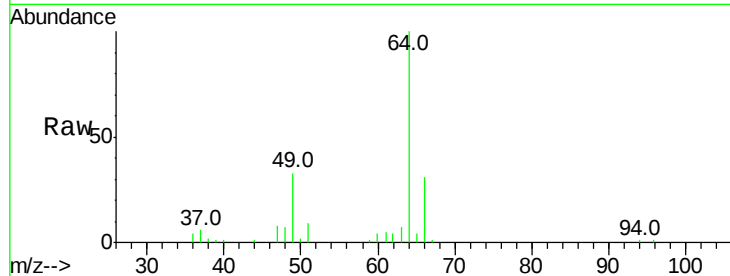
VSTDCCV010

Tgt Ion: 64 Resp: 155508

Ion Ratio Lower Upper

64 100

66 30.7 23.8 35.8



#8

Dichlorotetrafluoroethane

Concen: 8.11 ppbv

RT: 3.80 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL025781.D

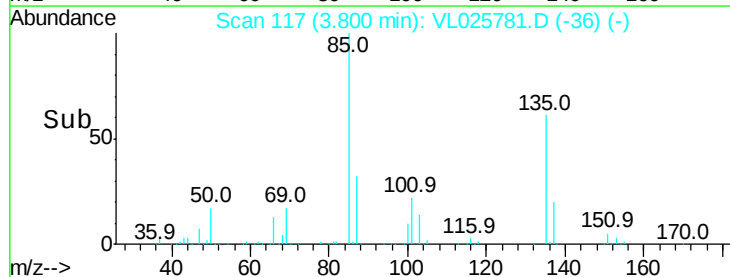
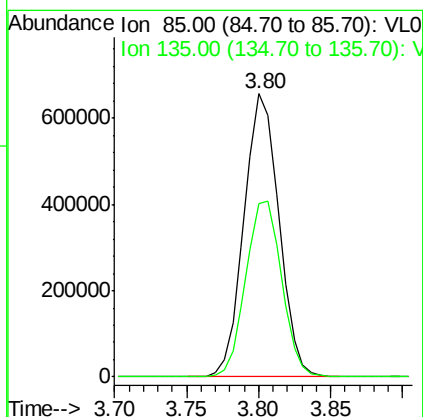
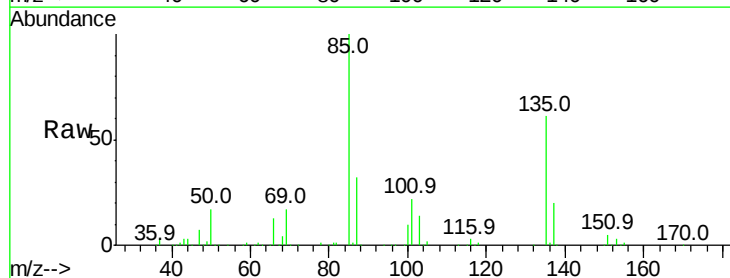
Acq: 28 Jul 2015 9:59

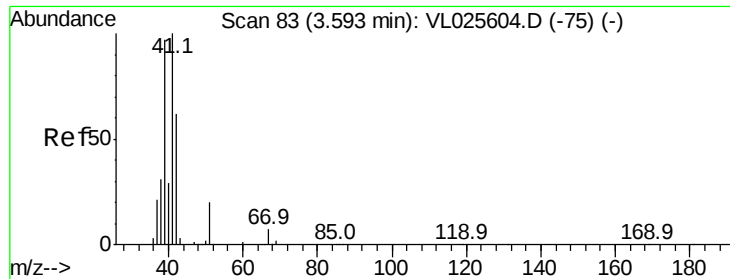
Tgt Ion: 85 Resp: 1100448

Ion Ratio Lower Upper

85 100

135 64.2 52.2 78.4





#9

Propene

Concen: 7.69 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

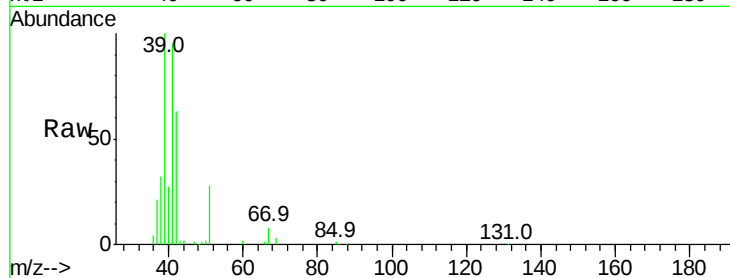
VSTDCCV010

Tgt Ion: 41 Resp: 215134

Ion Ratio Lower Upper

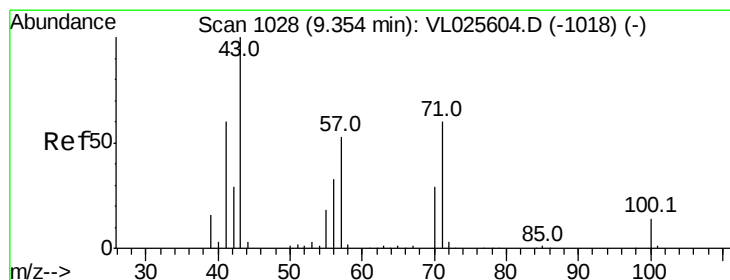
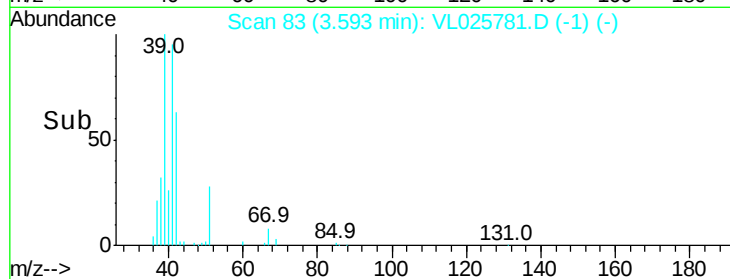
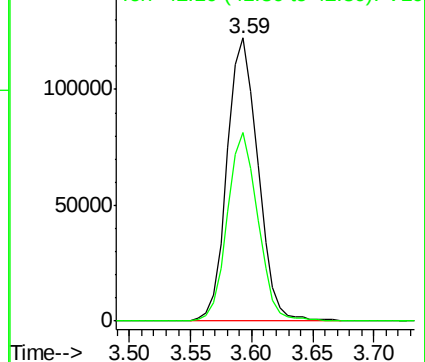
41 100

42 65.5 52.4 78.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.58 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. 0.00 min

Lab File: VL025781.D

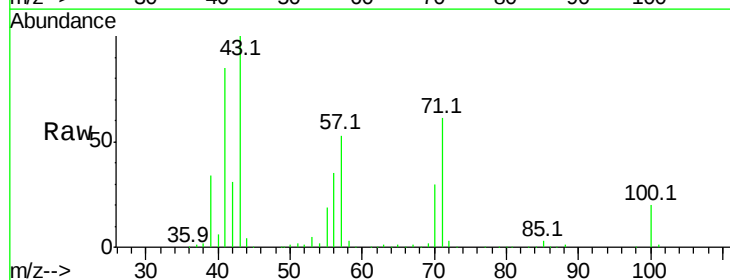
Acq: 28 Jul 2015 9:59

Tgt Ion: 43 Resp: 933763

Ion Ratio Lower Upper

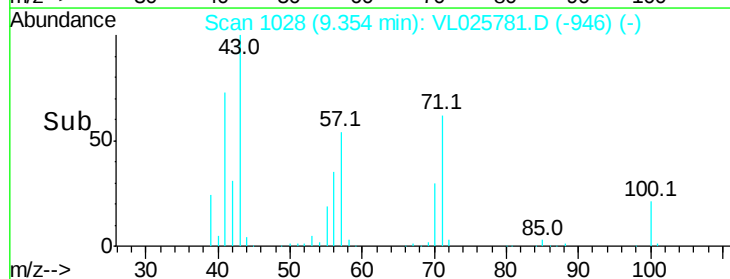
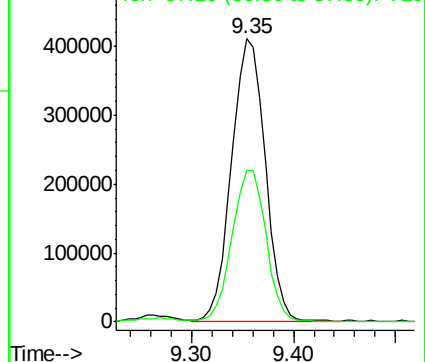
43 100

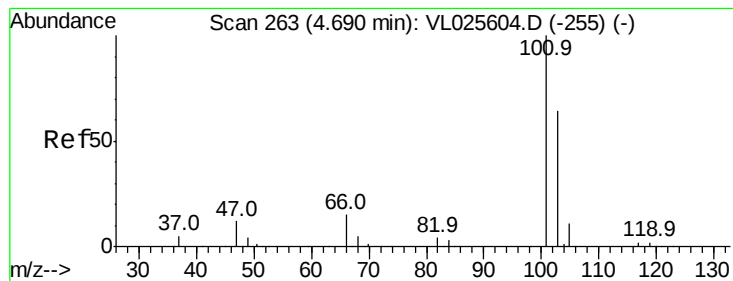
57 54.5 42.6 64.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 8.46 ppbv

RT: 4.69 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

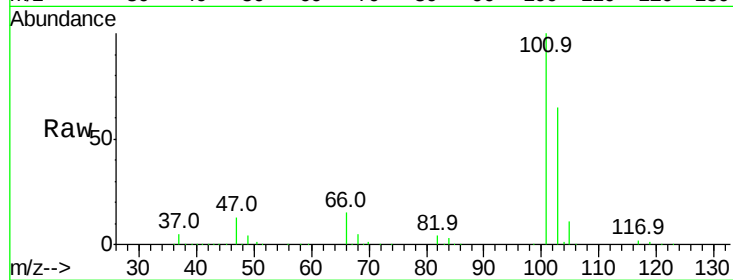
VSTDCCV010

Tgt Ion:101 Resp: 1698698

Ion Ratio Lower Upper

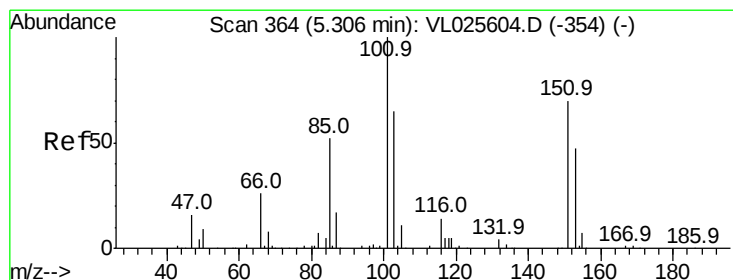
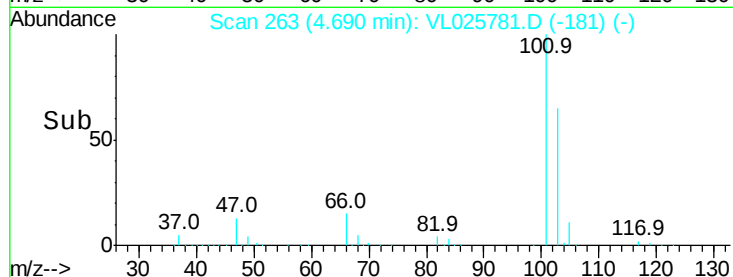
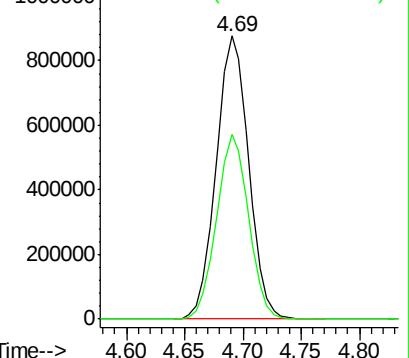
101 100

103 65.1 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.23 ppbv

RT: 5.30 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL025781.D

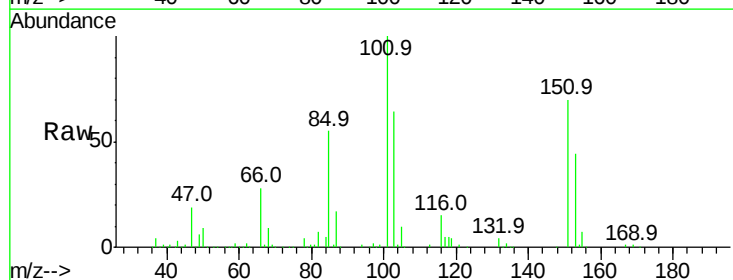
Acq: 28 Jul 2015 9:59

Tgt Ion:101 Resp: 947567

Ion Ratio Lower Upper

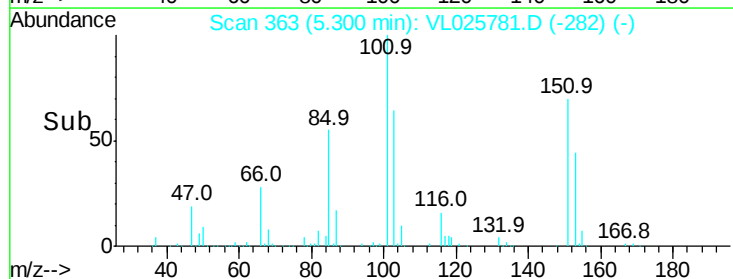
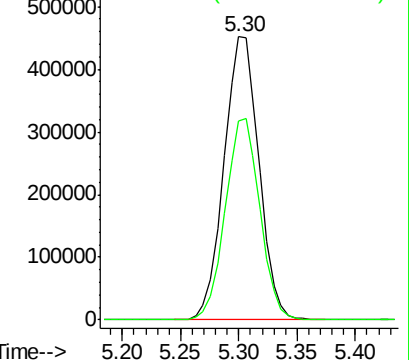
101 100

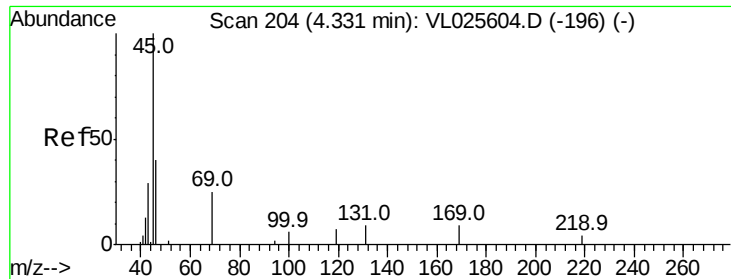
151 70.4 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 6.28 ppbv

RT: 4.32 min Scan# 203

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

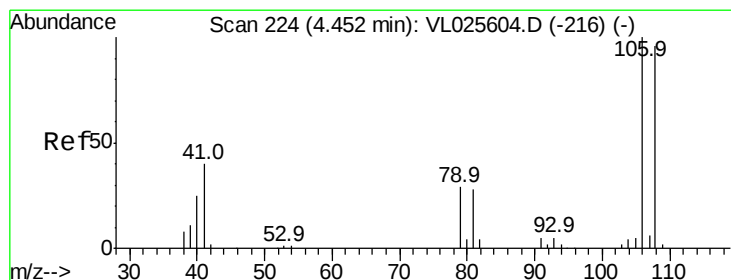
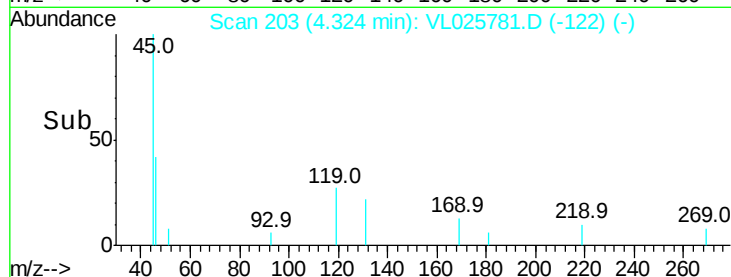
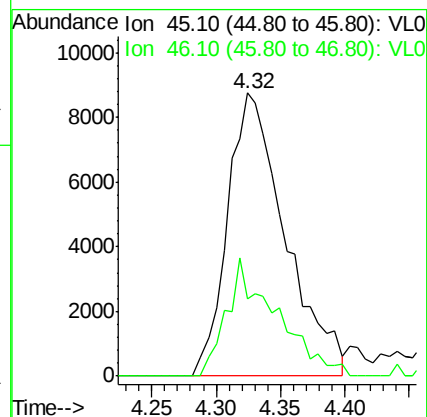
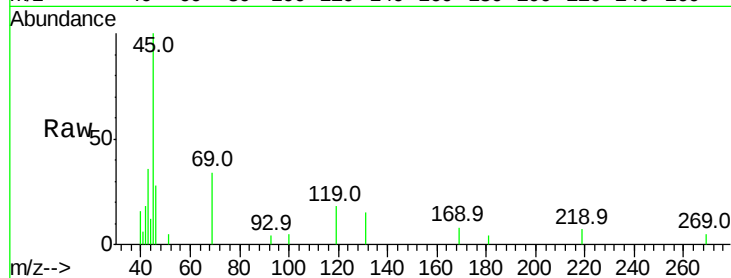
VSTDCCV010

Tgt Ion: 45 Resp: 27327

Ion Ratio Lower Upper

45 100

46 36.1 16.0 64.0



#14

Bromoethene

Concen: 8.13 ppbv

RT: 4.45 min Scan# 223

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

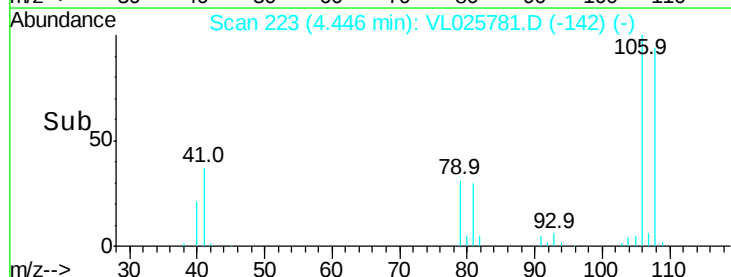
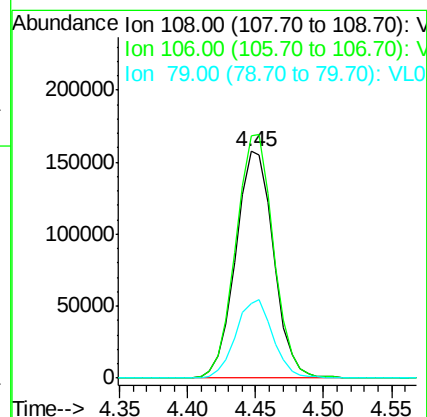
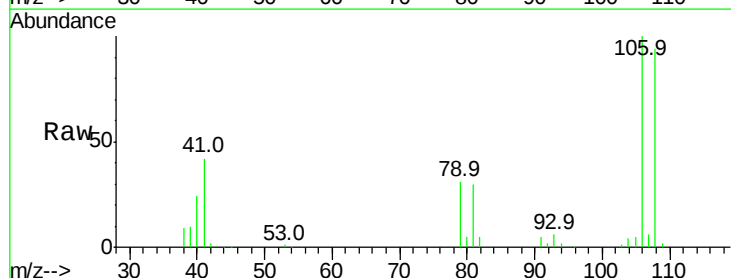
Tgt Ion: 108 Resp: 307081

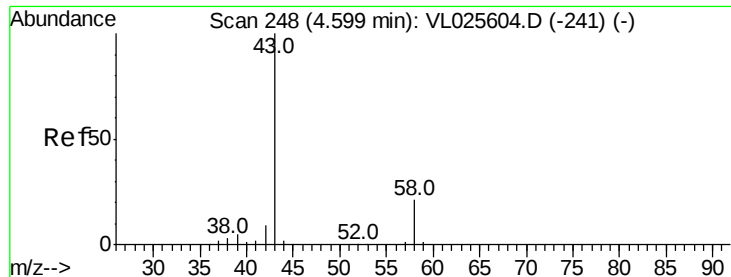
Ion Ratio Lower Upper

108 100

106 107.0 85.7 128.5

79 34.1 24.6 36.8





#15

Acetone

Concen: 11.82 ppbv

RT: 4.59 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

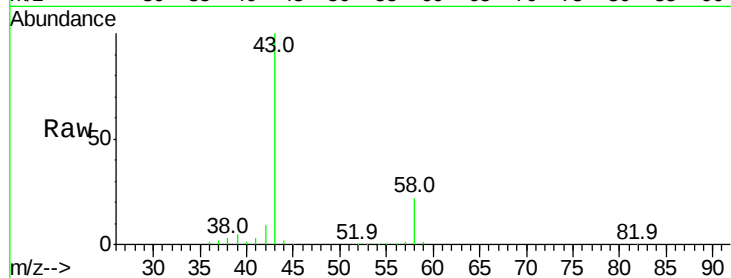
VSTDCCV010

Tgt Ion: 43 Resp: 1247802

Ion Ratio Lower Upper

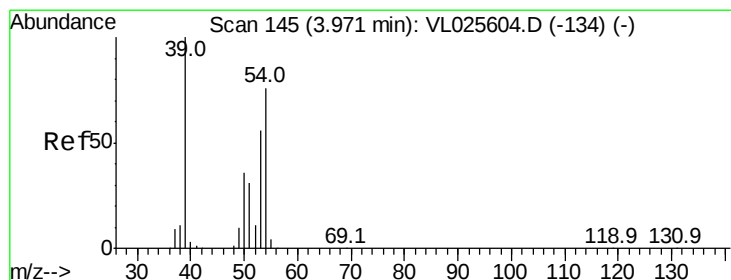
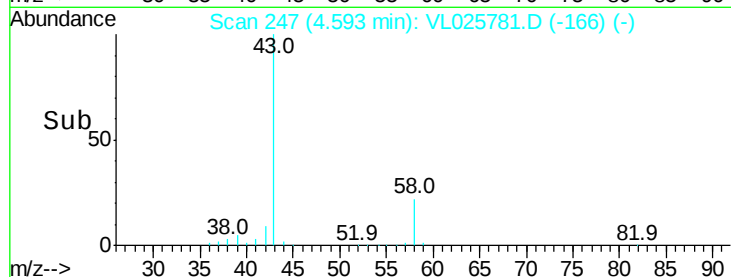
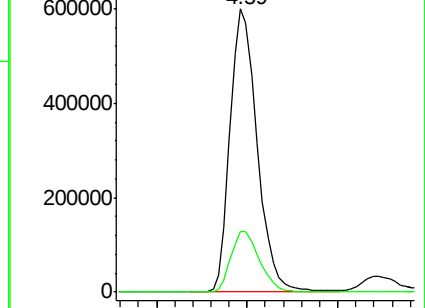
43 100

58 22.8 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 8.27 ppbv

RT: 3.96 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL025781.D

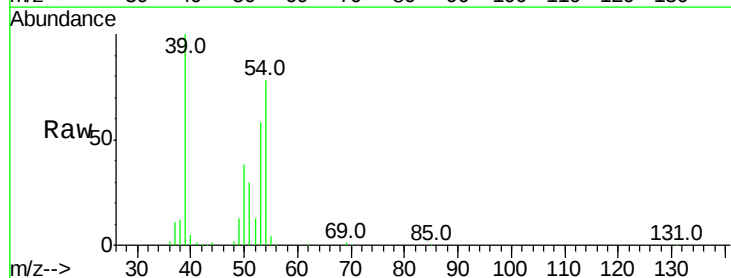
Acq: 28 Jul 2015 9:59

Tgt Ion: 39 Resp: 347526

Ion Ratio Lower Upper

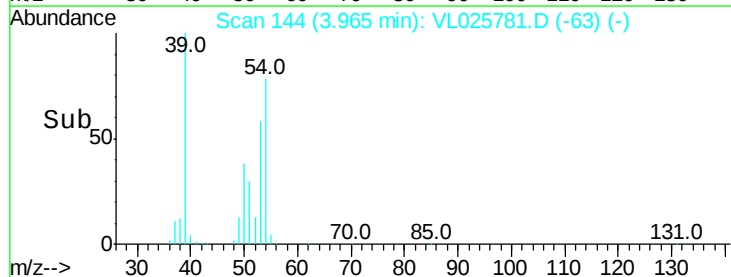
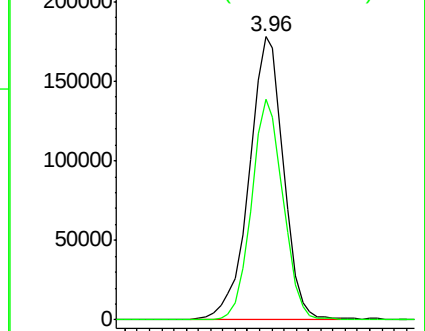
39 100

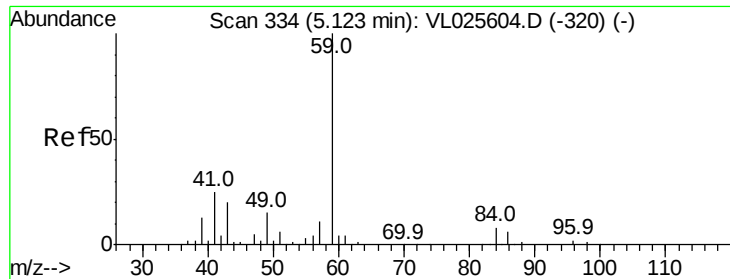
54 72.0 59.3 88.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 8.40 ppbv

RT: 5.12 min Scan# 333

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

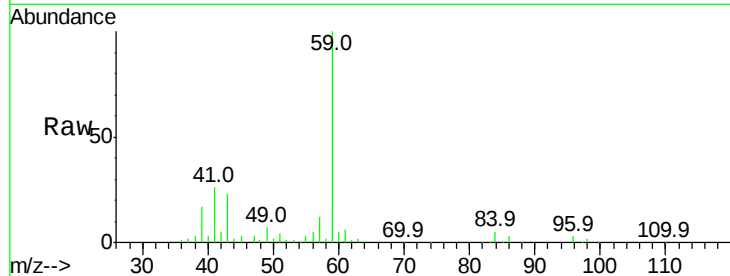
VSTDCCV010

Tgt Ion: 59 Resp: 743718

Ion Ratio Lower Upper

59 100

57 12.0 9.4 14.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

250000

200000

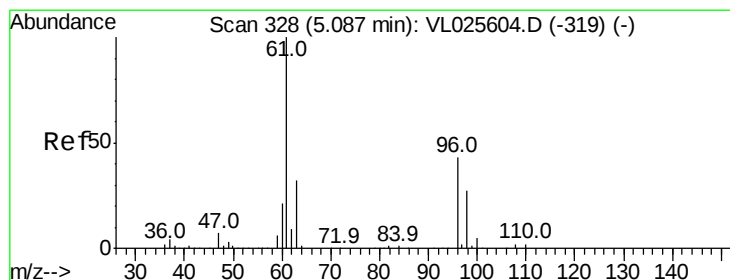
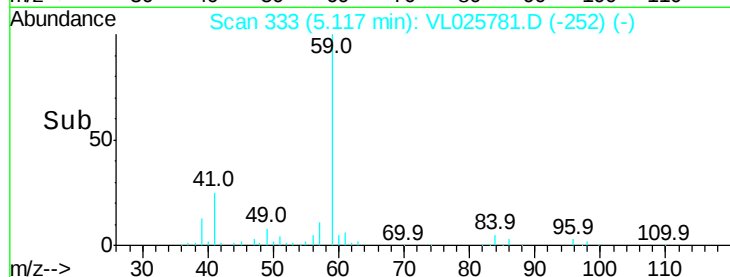
150000

100000

50000

0

Time-->



#18

1,1-Dichloroethene

Concen: 8.24 ppbv

RT: 5.08 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

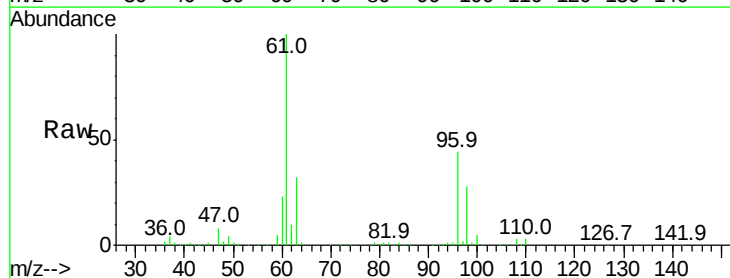
Tgt Ion: 96 Resp: 363037

Ion Ratio Lower Upper

96 100

61 228.6 184.1 276.1

98 64.2 50.0 75.0



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

500000

400000

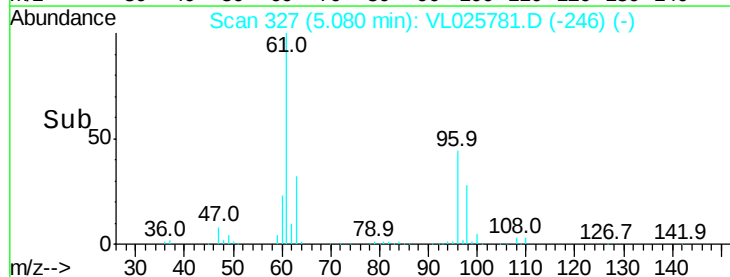
300000

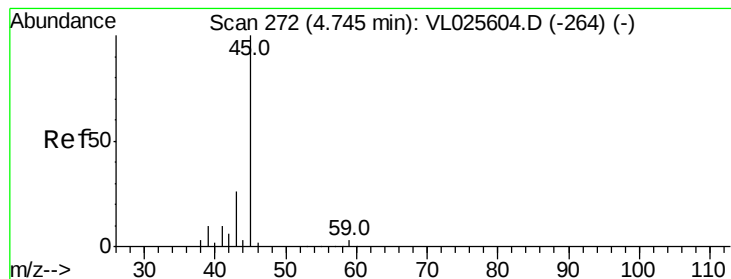
200000

100000

0

Time-->





#19

Isopropyl Alcohol

Concen: 6.83 ppbv

RT: 4.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

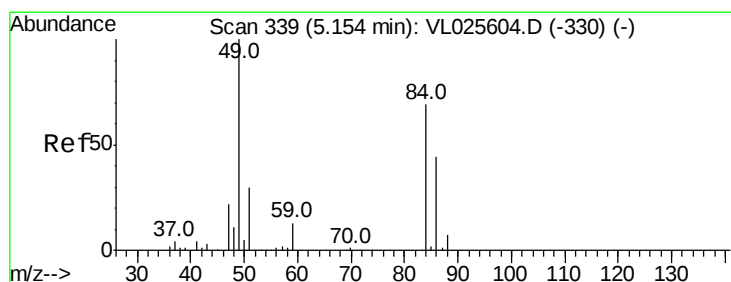
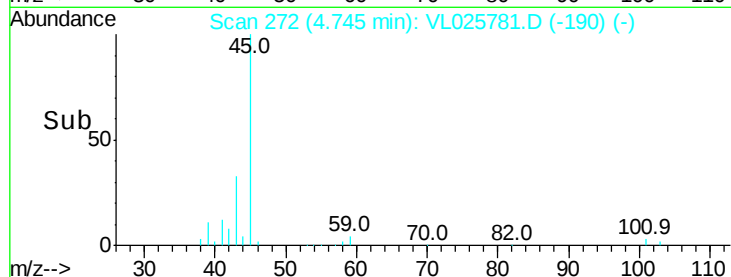
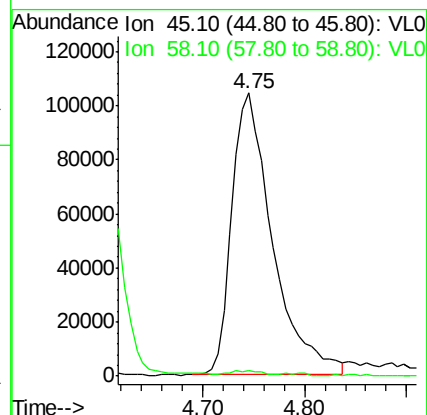
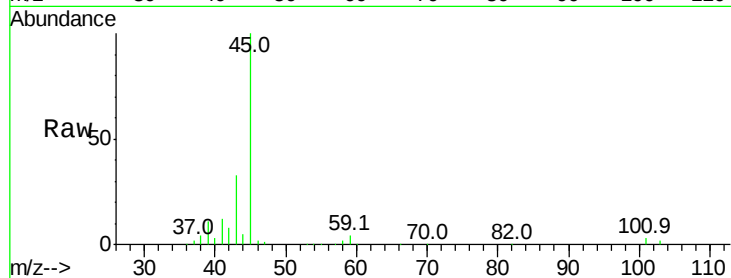
VSTDCCV010

Tgt Ion: 45 Resp: 287809

Ion Ratio Lower Upper

45 100

58 0.0 1.1 1.7#



#20

Methylene Chloride

Concen: 7.59 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Tgt Ion: 84 Resp: 325409

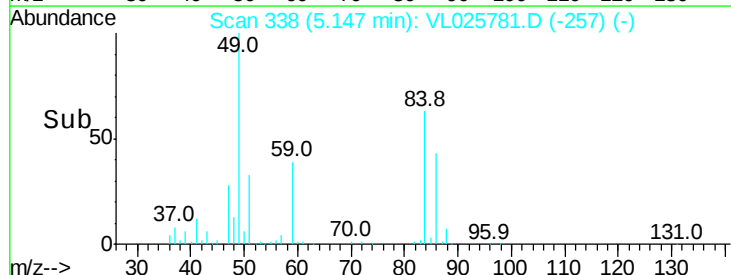
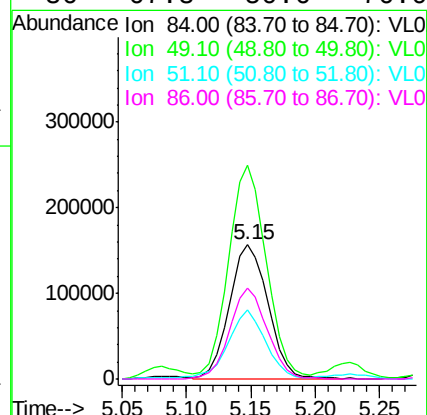
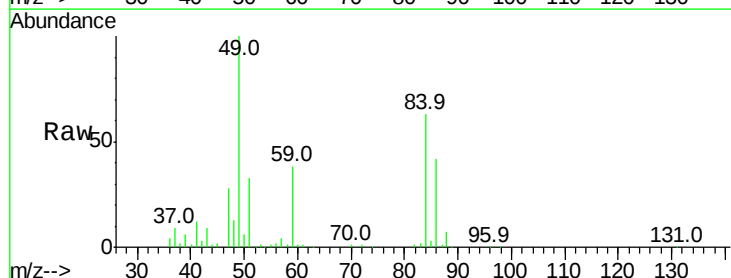
Ion Ratio Lower Upper

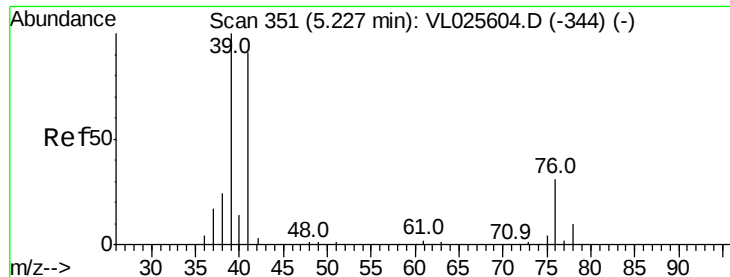
84 100

49 156.4 115.2 172.8

51 50.1 35.0 52.6

86 67.8 50.6 76.0

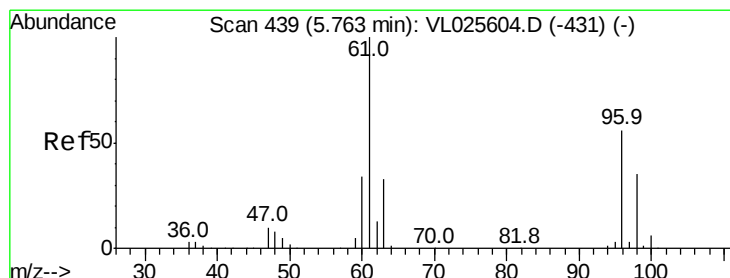
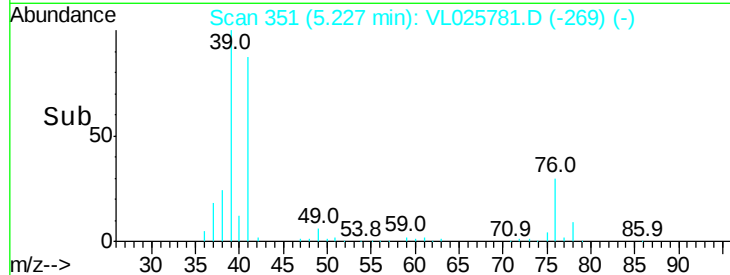
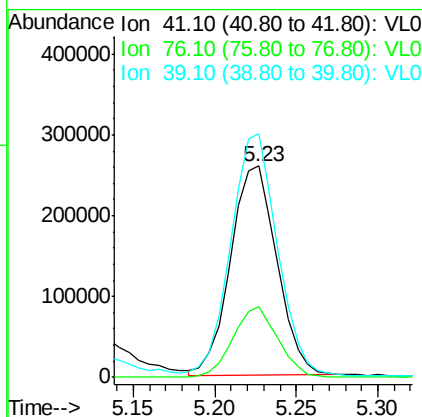
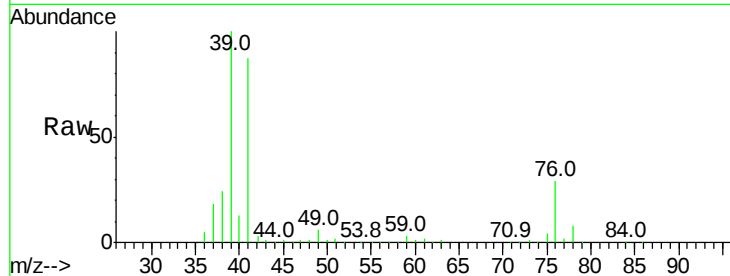




#21
 Allyl Chloride
 Concen: 7.76 ppbv
 RT: 5.23 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

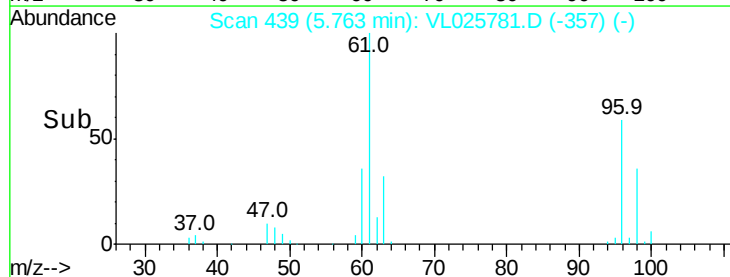
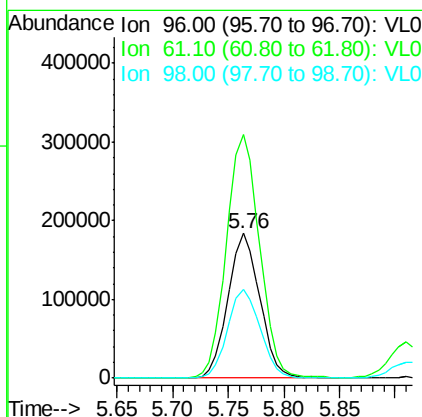
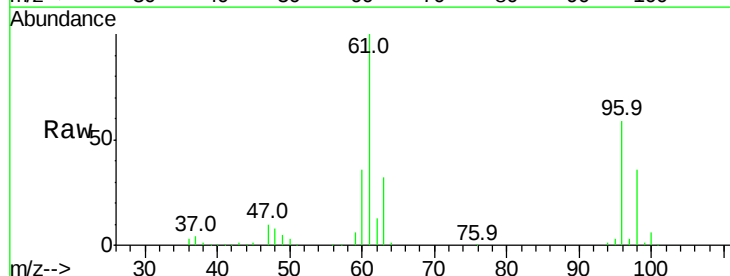
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010

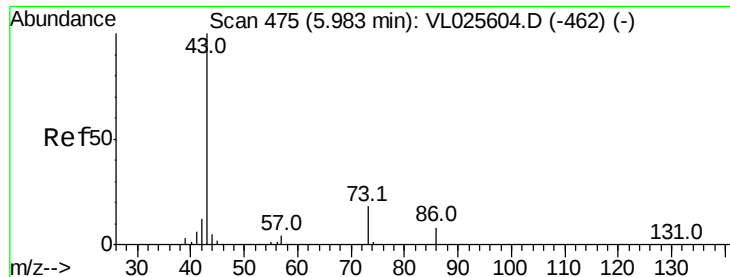
Tgt Ion: 41 Resp: 512619
 Ion Ratio Lower Upper
 41 100
 76 32.6 26.6 40.0
 39 118.2 88.2 132.4



#22
 trans-1,2-Dichloroethene
 Concen: 8.11 ppbv
 RT: 5.76 min Scan# 439
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

Tgt Ion: 96 Resp: 365091
 Ion Ratio Lower Upper
 96 100
 61 168.1 141.8 212.6
 98 61.4 49.0 73.6





#23

Vinyl Acetate

Concen: 9.52 ppbv

RT: 5.98 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

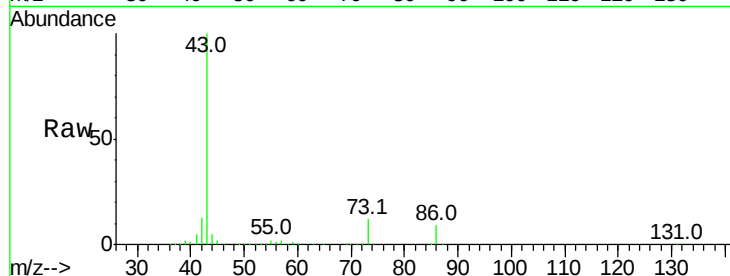
MSVOA_L

ClientSampleId :

VSTDCCV010

Tgt Ion: 43 Resp: 1522882

Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.7	10.1
42	12.5	9.8	14.6
44	4.5	4.1	6.1

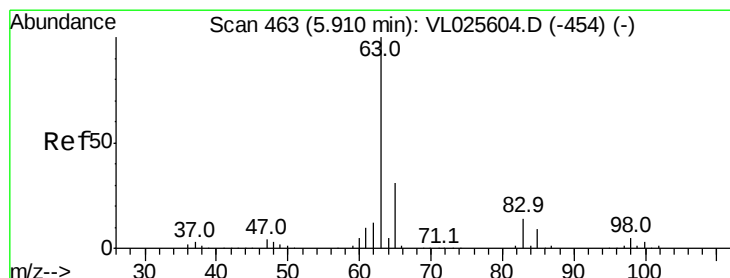
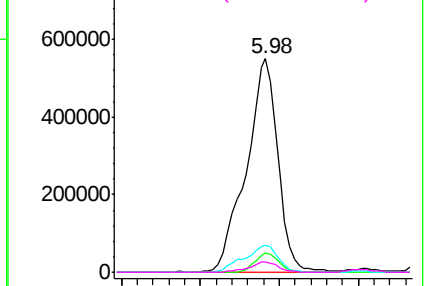
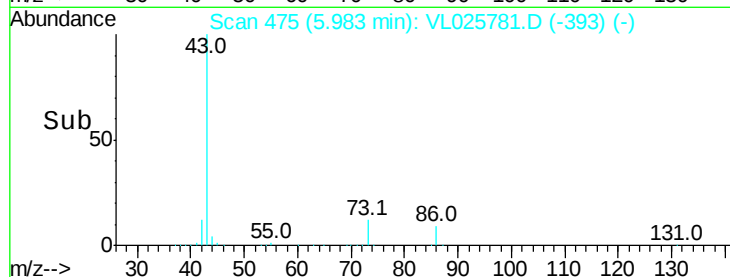


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.04 ppbv

RT: 5.91 min Scan# 463

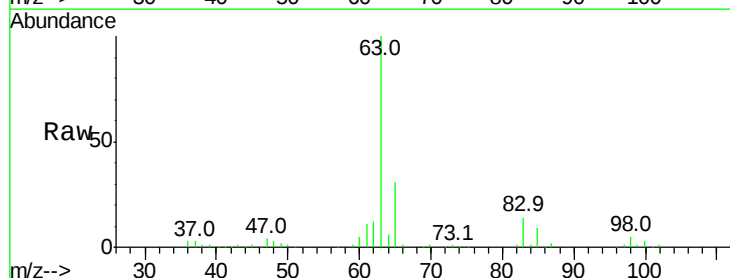
Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Tgt Ion: 63 Resp: 862114

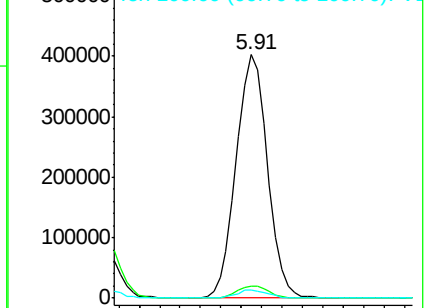
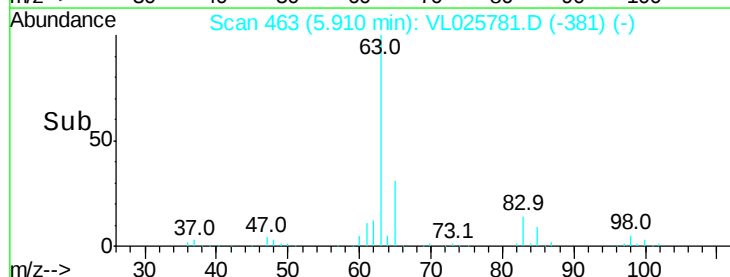
Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.6	8.0
100	3.1	1.6	4.7

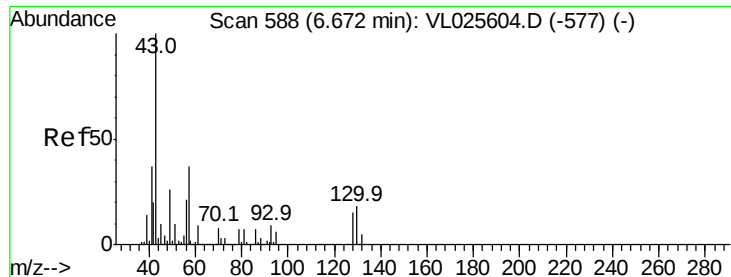


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.20 ppbv

RT: 6.67 min Scan# 587

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

Tgt Ion: 43 Resp: 1309608

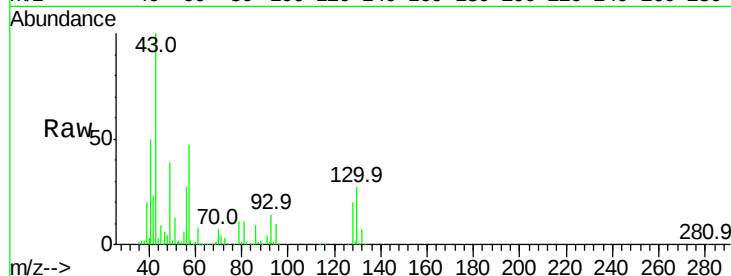
Ion Ratio Lower Upper

43 100

45 9.0 7.5 11.3

61 8.2 6.6 10.0

70 7.2 6.0 9.0

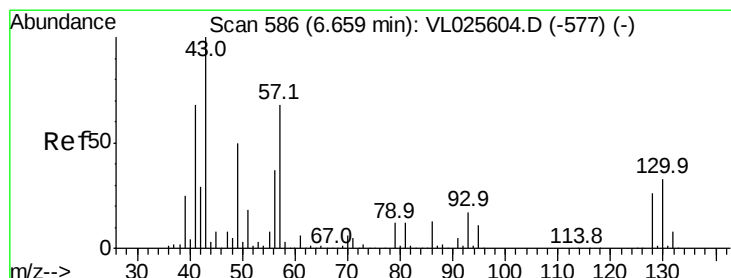
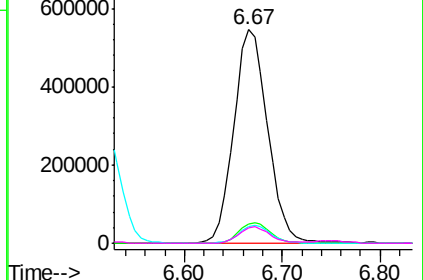
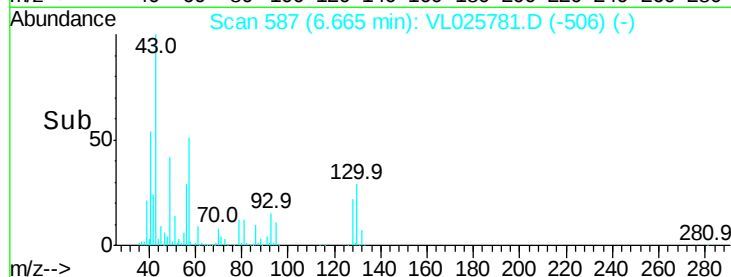


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.10 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Tgt Ion: 57 Resp: 609164

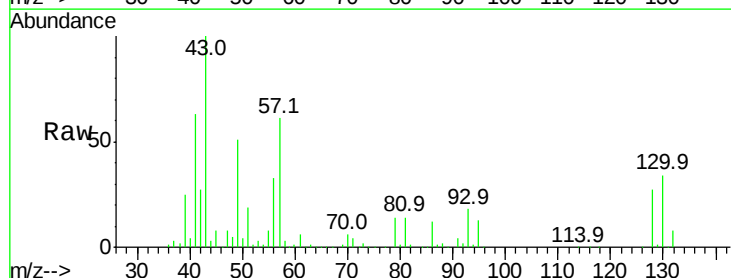
Ion Ratio Lower Upper

57 100

41 108.6 81.4 122.2

43 215.4 171.4 257.2

56 56.5 44.5 66.7

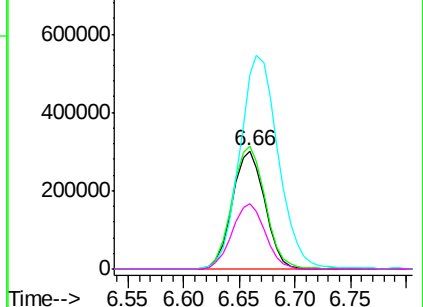
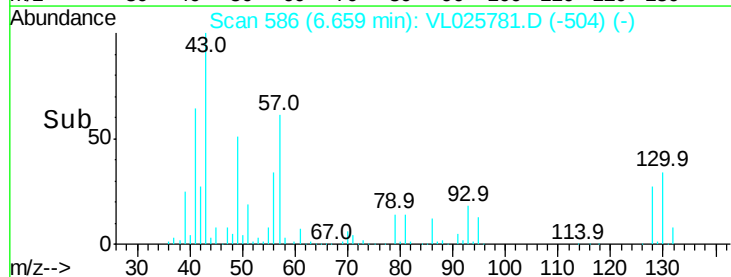


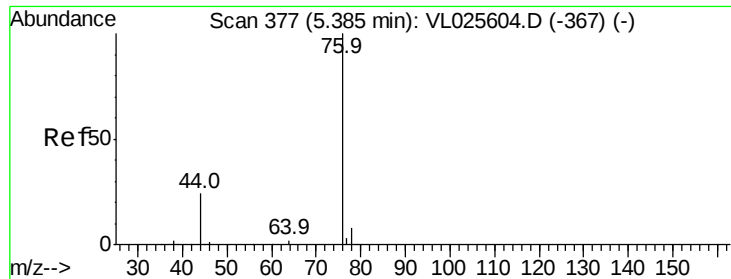
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

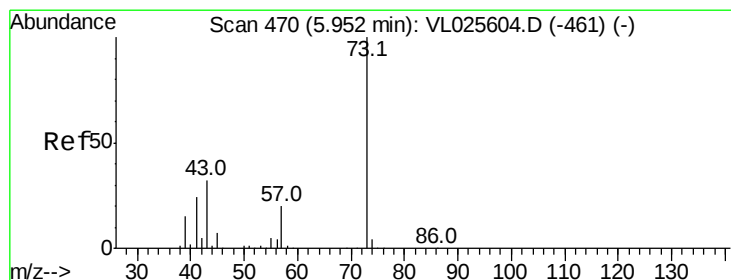
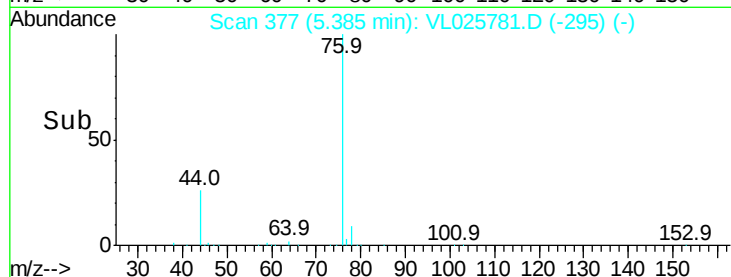
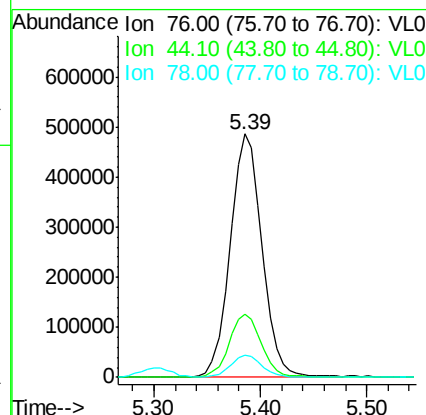
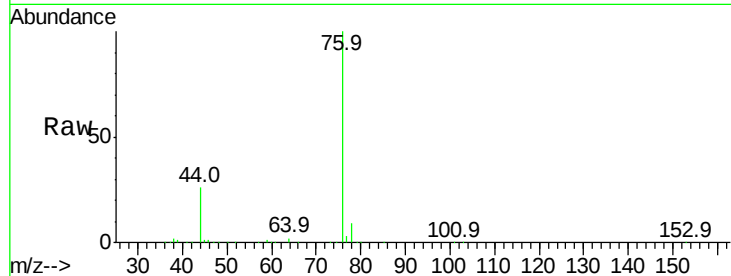




#27
Carbon Disulfide
Concen: 8.32 ppbv
RT: 5.39 min Scan# 377
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

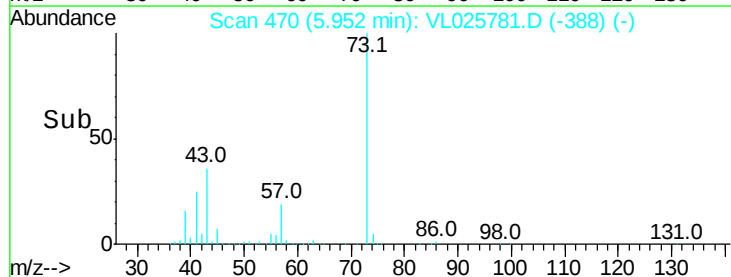
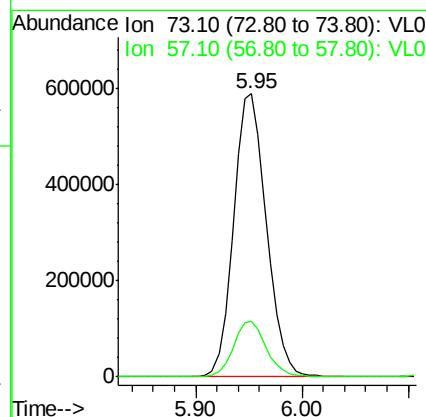
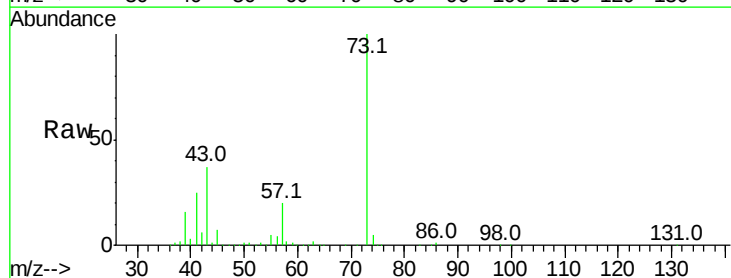
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

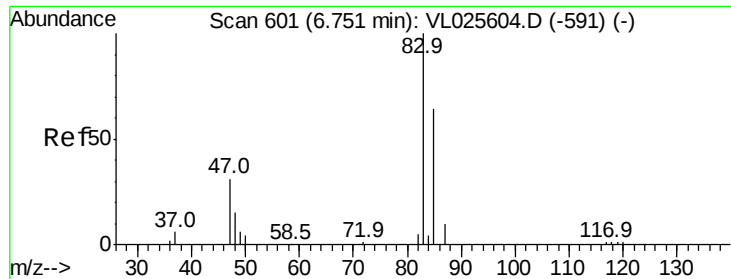
Tgt Ion: 76 Resp: 1013207
Ion Ratio Lower Upper
76 100
44 26.1 20.2 30.4
78 9.3 7.4 11.2



#28
Methyl tert-Butyl Ether
Concen: 8.49 ppbv
RT: 5.95 min Scan# 470
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 73 Resp: 1269124
Ion Ratio Lower Upper
73 100
57 19.8 16.0 24.0

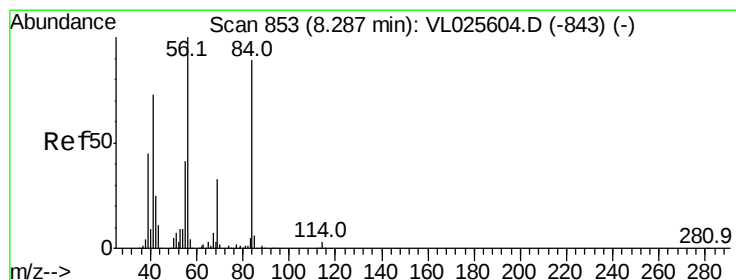
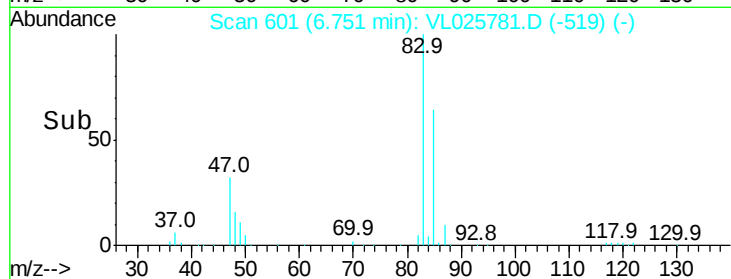
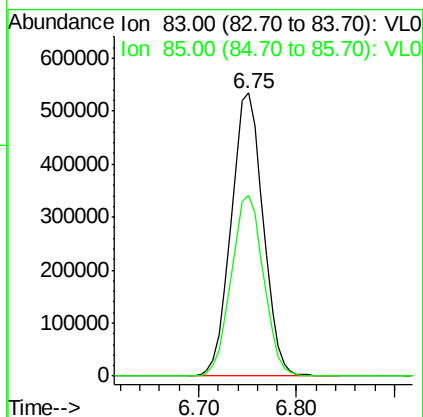
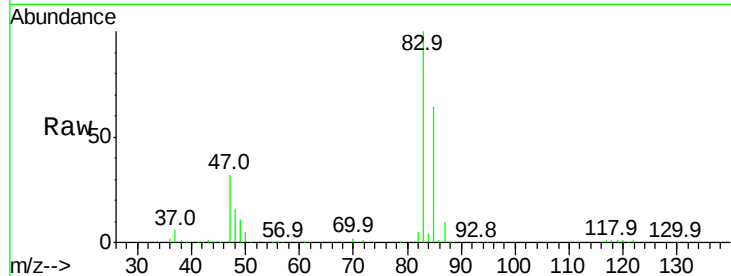




#29
Chloroform
Concen: 8.16 ppbv
RT: 6.75 min Scan# 601
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

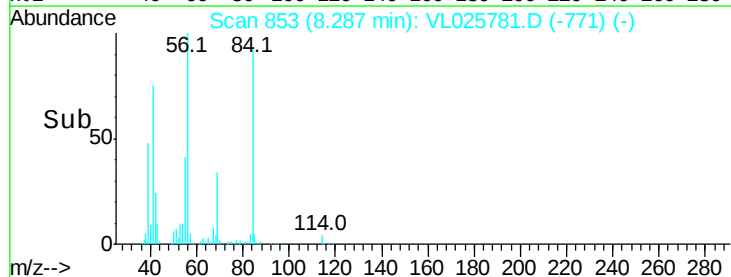
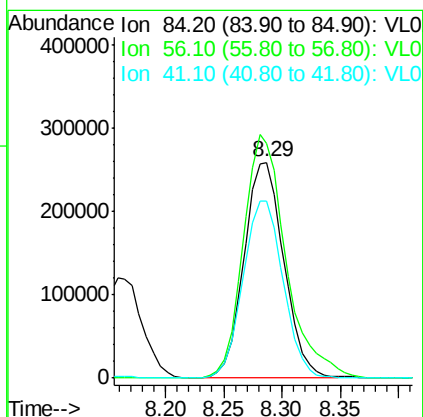
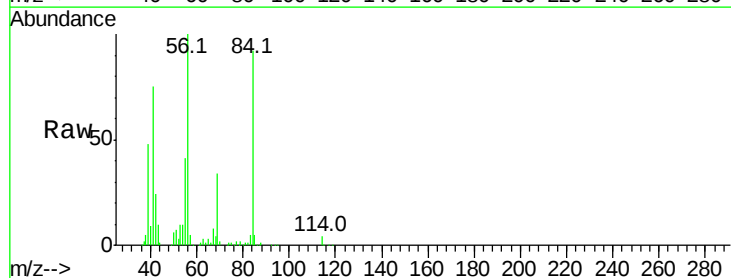
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

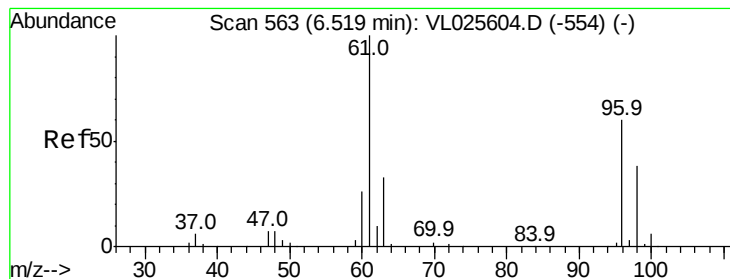
Tgt Ion: 83 Resp: 1212327
Ion Ratio Lower Upper
83 100
85 63.8 51.6 77.4



#30
Cyclohexane
Concen: 8.53 ppbv
RT: 8.29 min Scan# 853
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 84 Resp: 613040
Ion Ratio Lower Upper
84 100
56 122.4 97.5 146.3
41 83.7 65.4 98.2





#31

cis-1,2-Dichloroethene

Concen: 8.63 ppbv

RT: 6.52 min Scan# 563

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

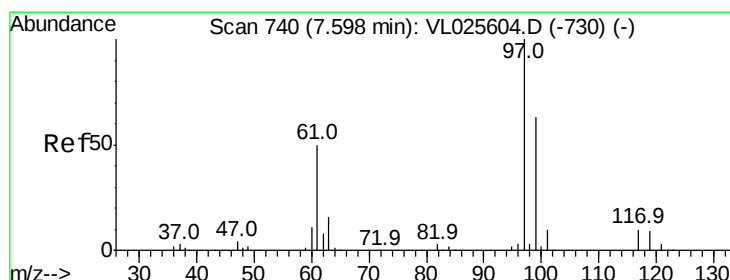
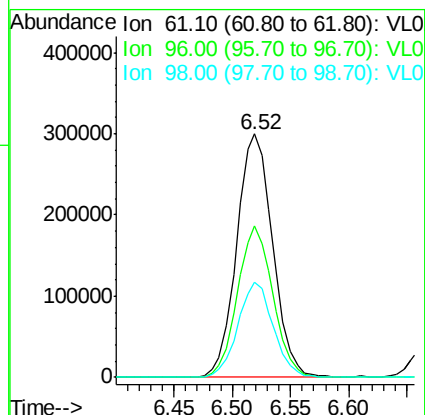
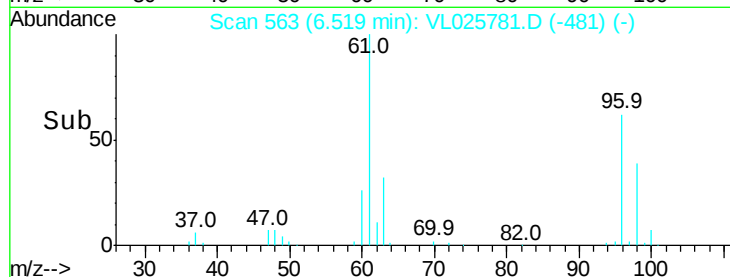
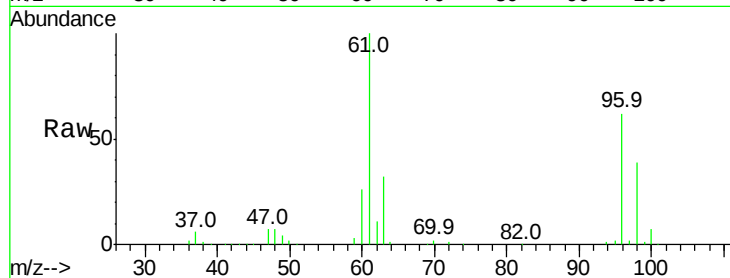
Tgt Ion: 61 Resp: 644655

Ion Ratio Lower Upper

61 100

96 62.3 48.1 72.1

98 39.0 30.7 46.1



#32

1,1,1-Trichloroethane

Concen: 8.53 ppbv

RT: 7.60 min Scan# 740

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

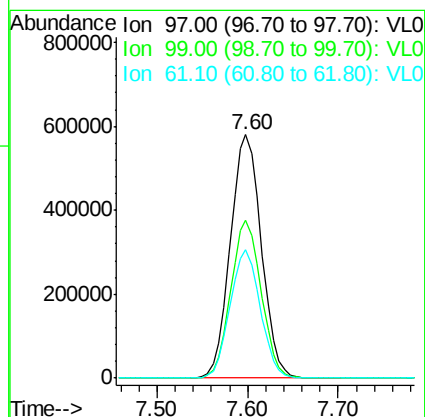
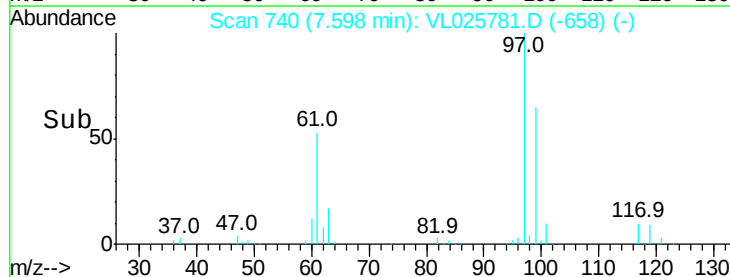
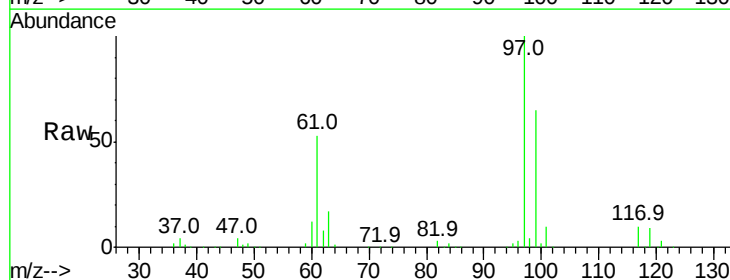
Tgt Ion: 97 Resp: 1377024

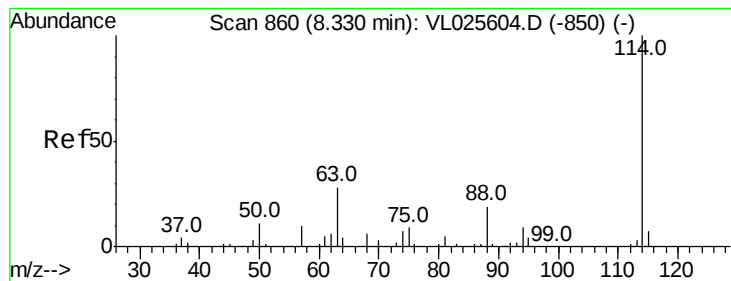
Ion Ratio Lower Upper

97 100

99 63.7 51.2 76.8

61 51.7 40.4 60.6





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

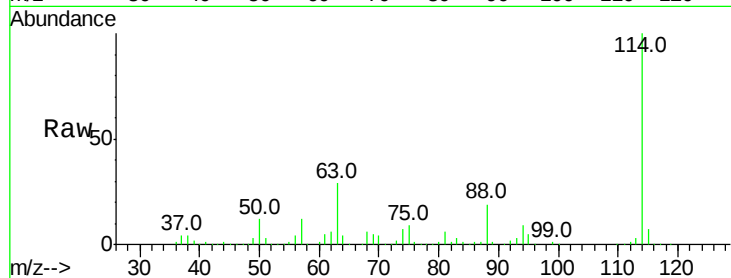
Tgt Ion:114 Resp: 1660473

Ion Ratio Lower Upper

114 100

63 28.7 22.4 33.6

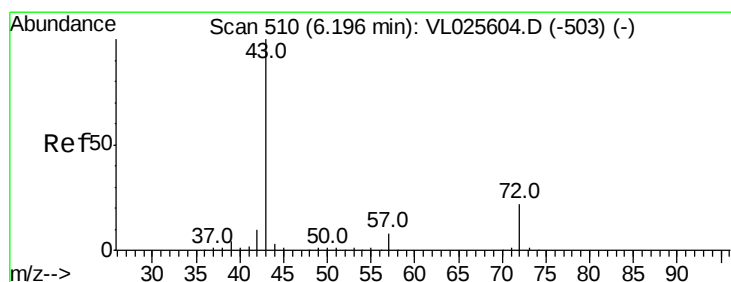
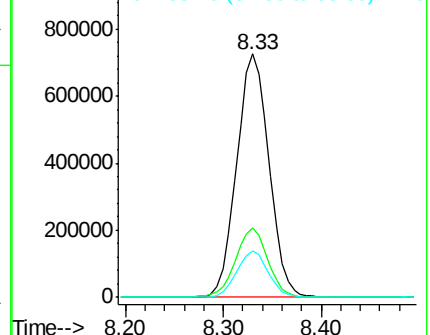
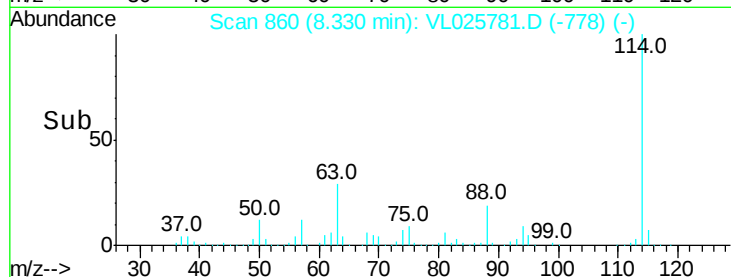
88 18.6 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.58 ppbv

RT: 6.20 min Scan# 510

Delta R.T. 0.00 min

Lab File: VL025781.D

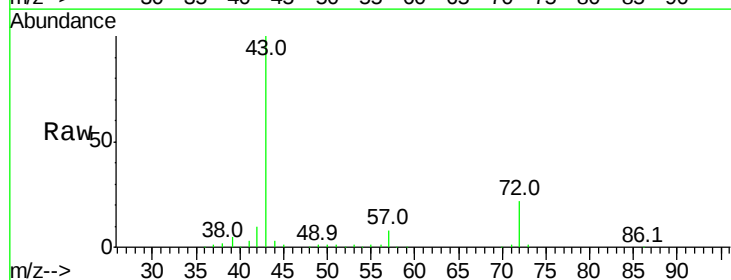
Acq: 28 Jul 2015 9:59

Tgt Ion: 43 Resp: 808014

Ion Ratio Lower Upper

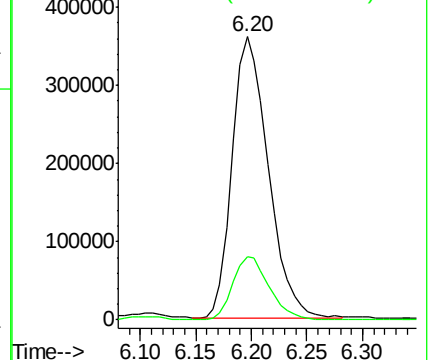
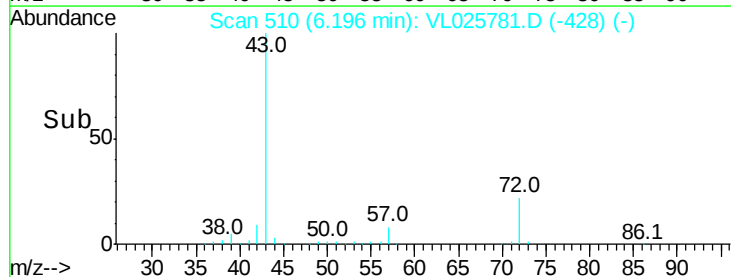
43 100

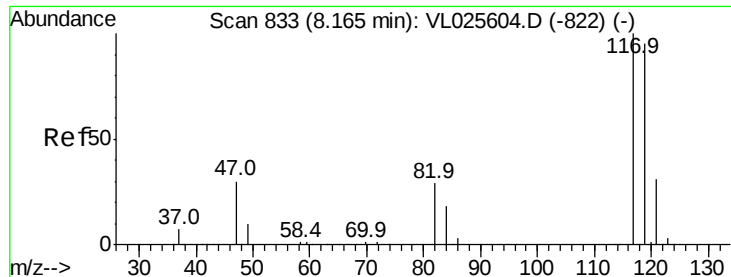
72 23.0 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.44 ppbv

RT: 8.17 min Scan# 833

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

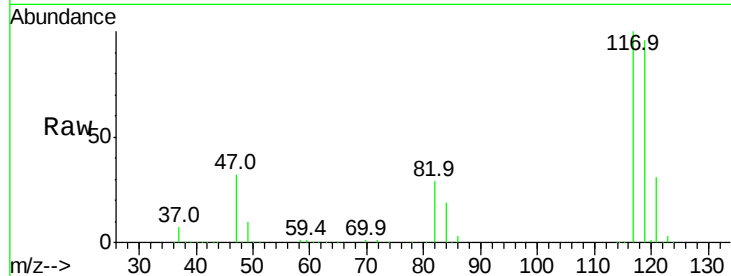
Tgt Ion:117 Resp: 1492413

Ion Ratio Lower Upper

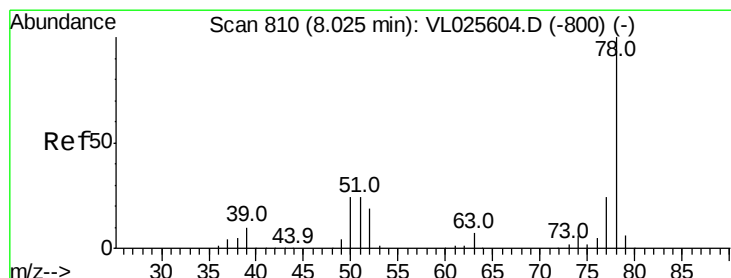
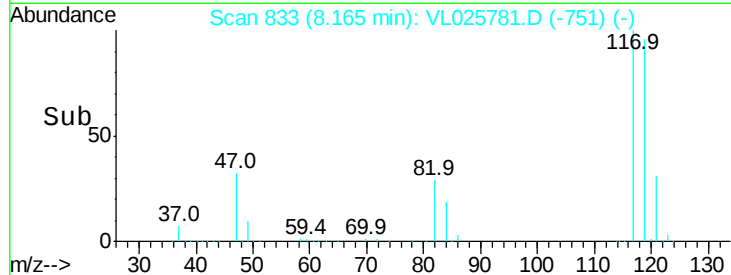
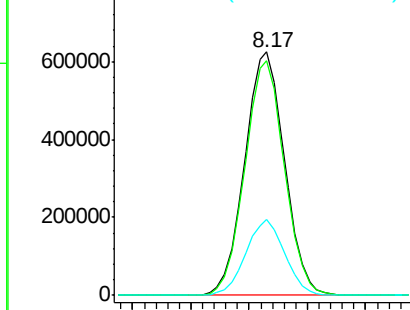
117 100

119 96.2 75.9 113.9

121 31.0 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: 8.44 ppbv

RT: 8.02 min Scan# 810

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

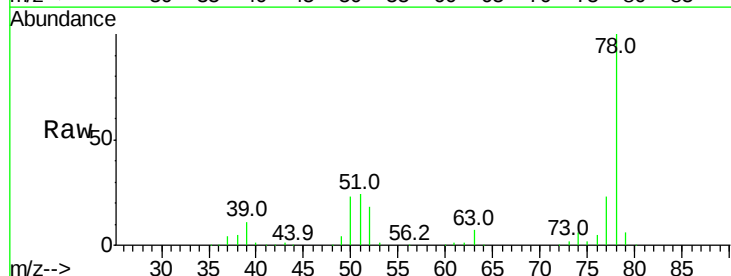
Tgt Ion: 78 Resp: 1342384

Ion Ratio Lower Upper

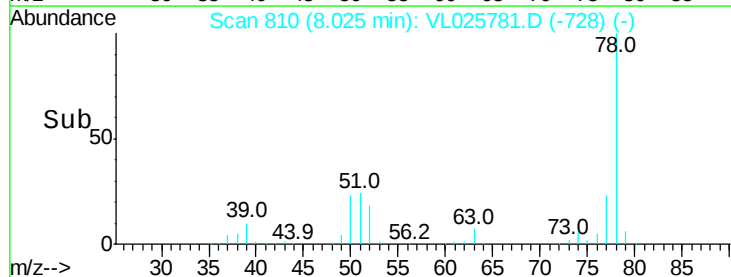
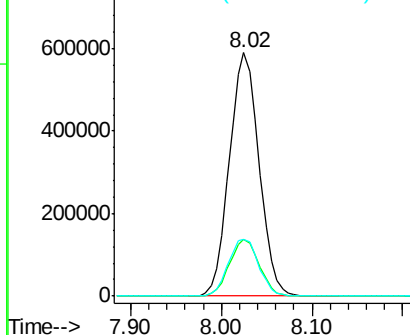
78 100

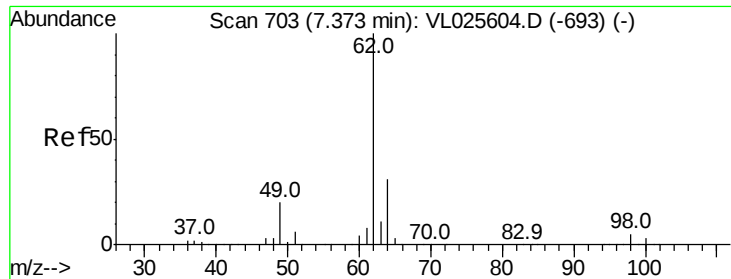
77 23.2 19.0 28.4

50 23.4 19.2 28.8



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

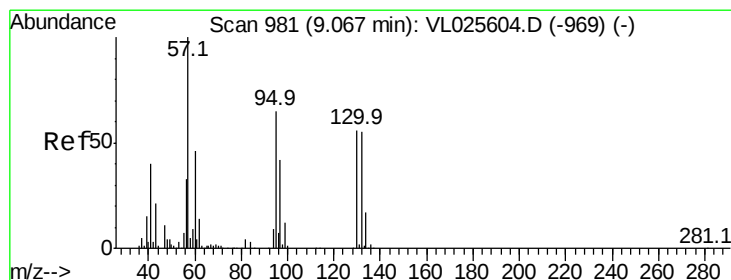
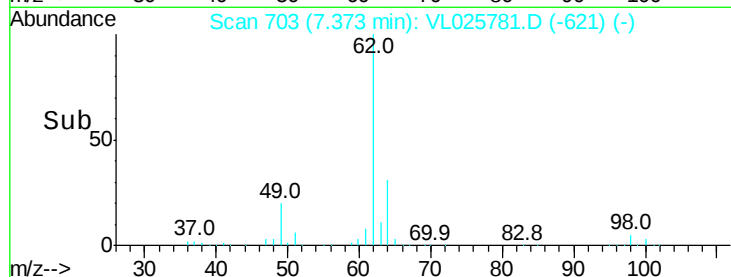
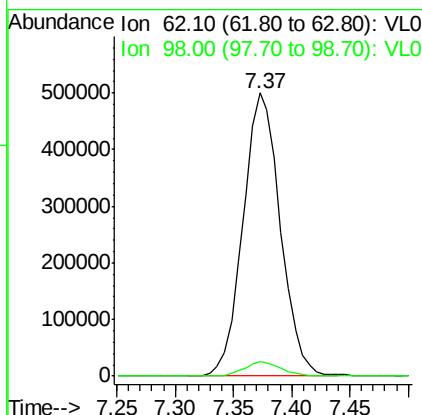
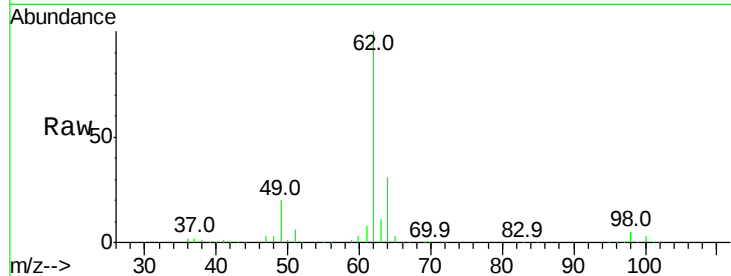




#37
 1,2-Dichloroethane
 Concen: 8.20 ppbv
 RT: 7.37 min Scan# 703
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

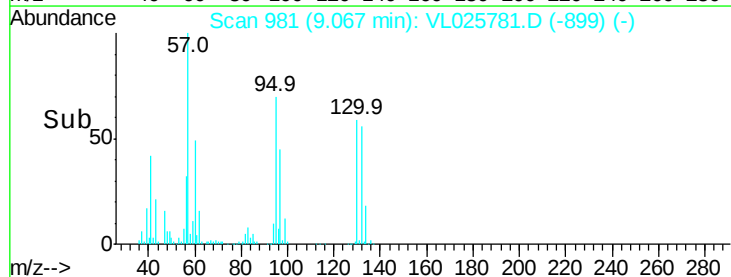
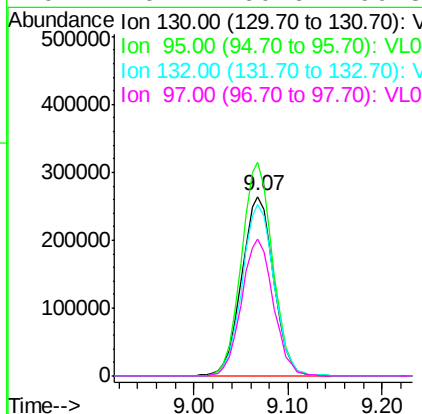
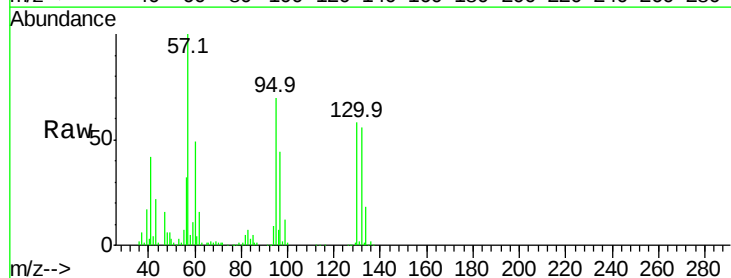
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010

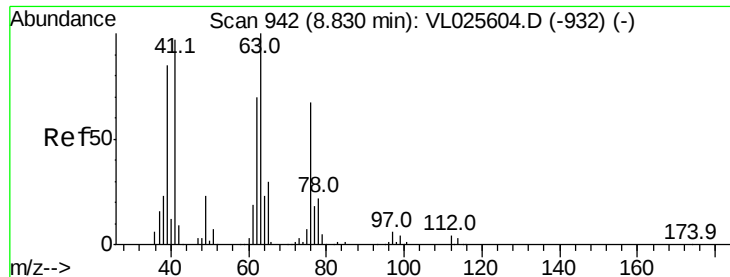
Tgt Ion: 62 Resp: 1113094
 Ion Ratio Lower Upper
 62 100
 98 5.0 4.1 6.1



#38
 Trichloroethene
 Concen: 8.52 ppbv
 RT: 9.07 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

Tgt Ion: 130 Resp: 629881
 Ion Ratio Lower Upper
 130 100
 95 119.0 94.2 141.4
 132 95.5 78.6 118.0
 97 76.1 60.6 90.8





#39

1,2-Dichloropropane

Concen: 8.12 ppbv

RT: 8.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

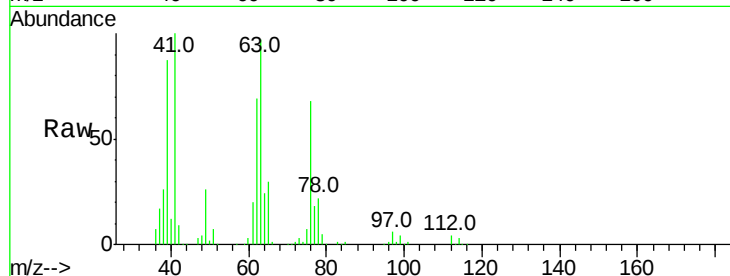
Tgt Ion: 63 Resp: 476692

Ion Ratio Lower Upper

63 100

41 103.2 78.0 117.0

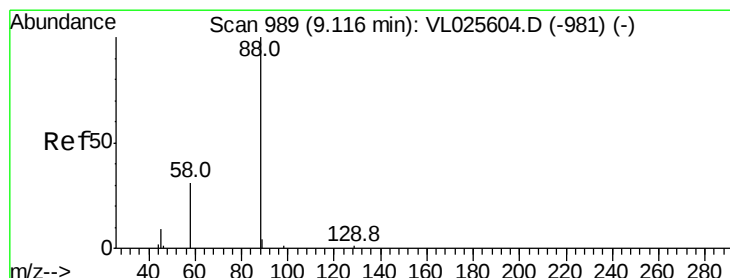
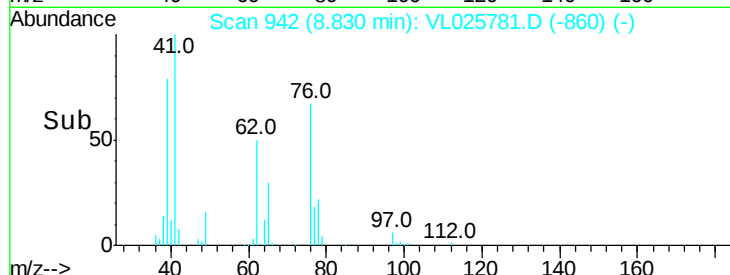
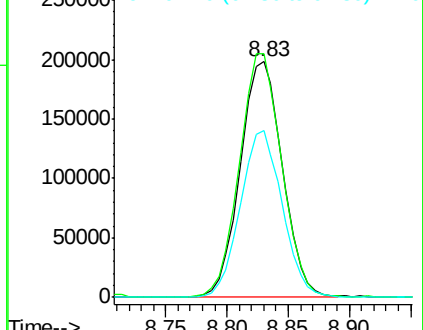
62 71.1 55.7 83.5



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 6.77 ppbv

RT: 9.13 min Scan# 991

Delta R.T. 0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Tgt Ion: 88 Resp: 62332

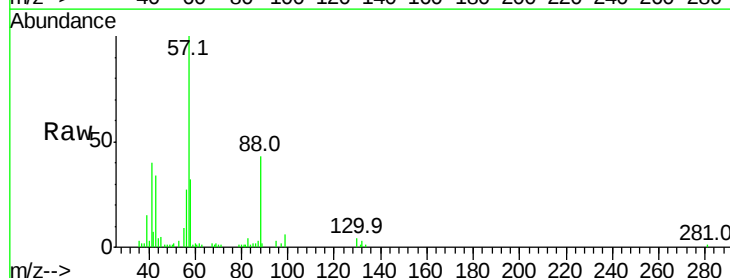
Ion Ratio Lower Upper

88 100

58 244.7 127.1 190.7#

43 809.4 337.7 506.5#

57 3691.1 1533.2 2299.8#

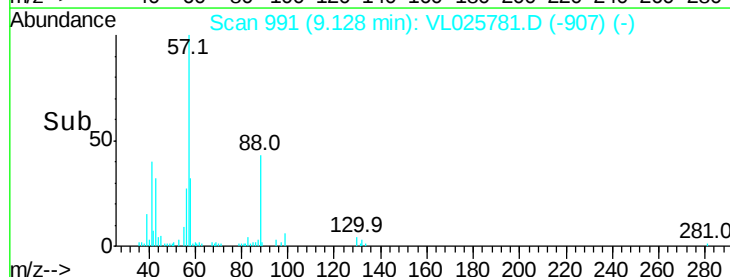
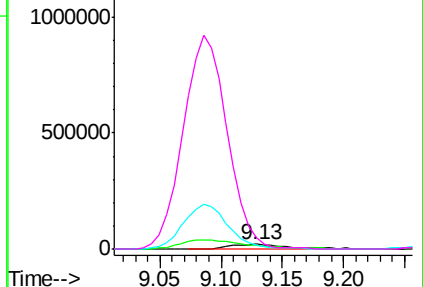


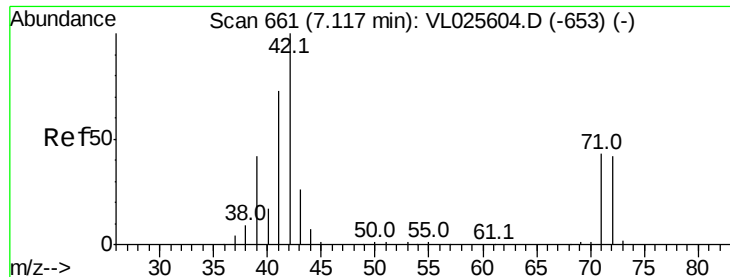
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 8.46 ppbv

RT: 7.12 min Scan# 661

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

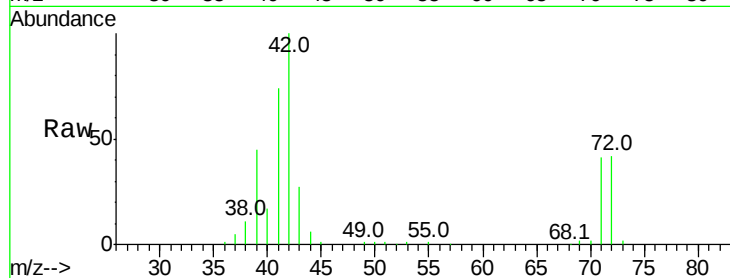
Tgt Ion: 42 Resp: 397855

Ion Ratio Lower Upper

42 100

72 42.9 34.0 51.0

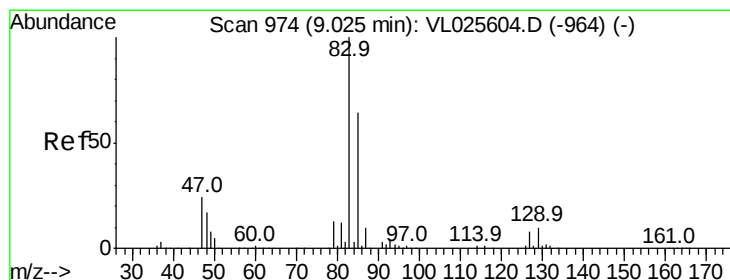
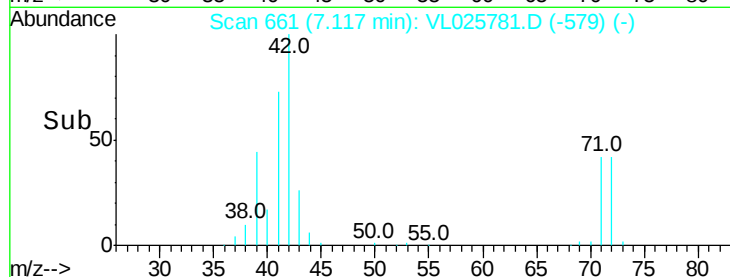
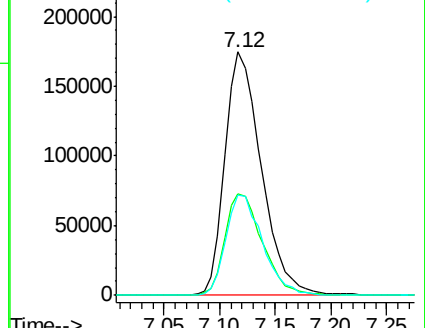
71 41.8 33.0 49.6



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: 8.58 ppbv

RT: 9.02 min Scan# 974

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

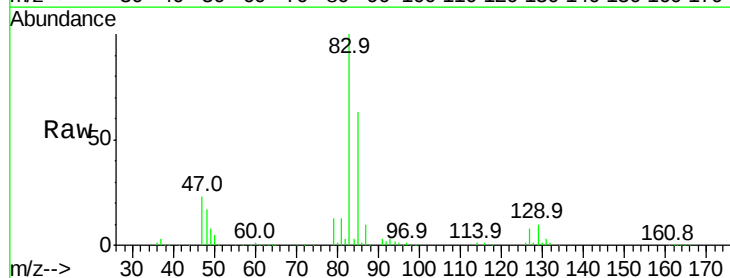
Tgt Ion: 83 Resp: 1405322

Ion Ratio Lower Upper

83 100

85 63.3 51.3 76.9

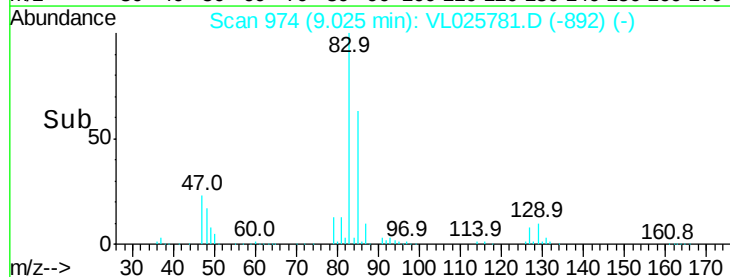
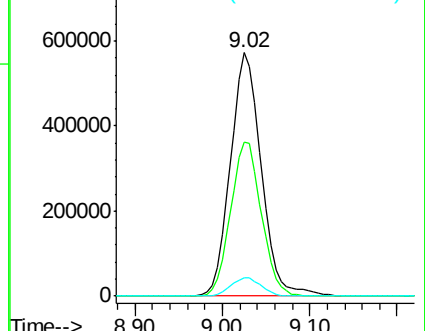
127 7.6 6.0 9.0

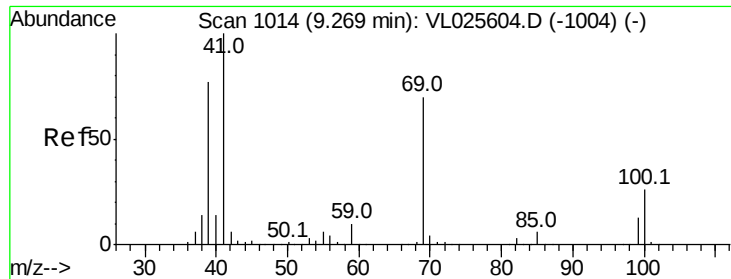


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

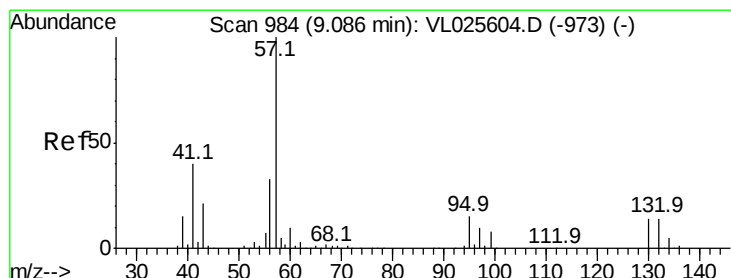
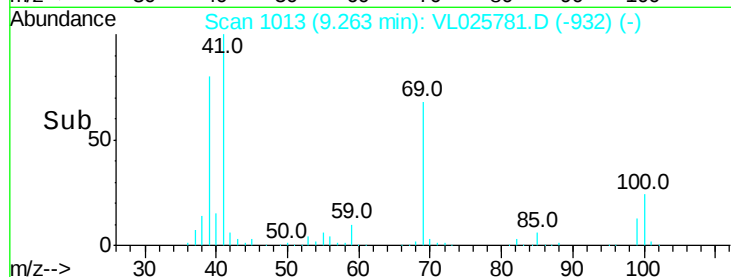
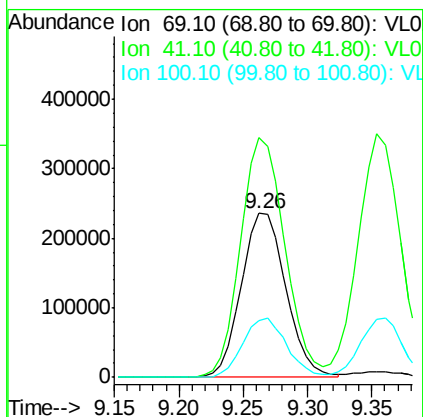
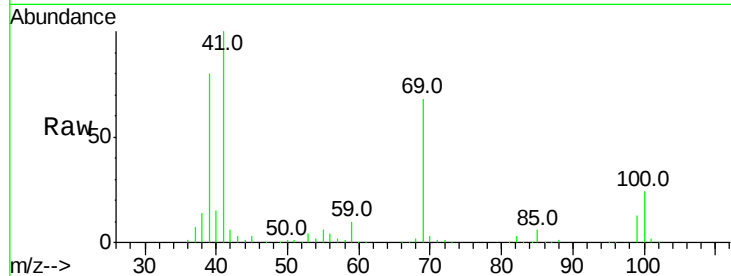




#43
Methyl Methacrylate
Concen: 9.28 ppbv
RT: 9.26 min Scan# 1013
Delta R.T. -0.01 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

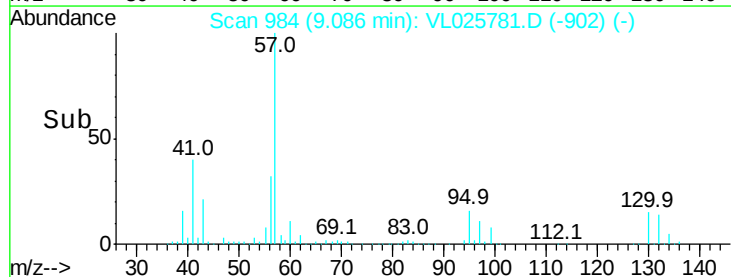
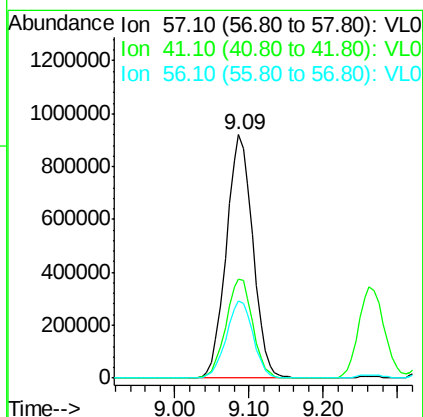
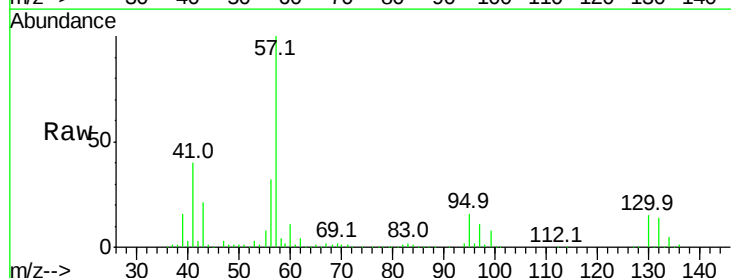
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

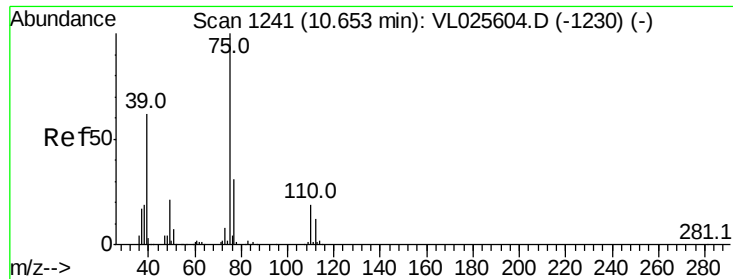
Tgt Ion: 69 Resp: 566620
Ion Ratio Lower Upper
69 100
41 146.0 117.3 175.9
100 36.0 29.0 43.6



#44
2,2,4-Trimethylpentane
Concen: 8.43 ppbv
RT: 9.09 min Scan# 984
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 57 Resp: 2300797
Ion Ratio Lower Upper
57 100
41 41.0 31.2 46.8
56 31.9 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 9.08 ppbv

RT: 10.65 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

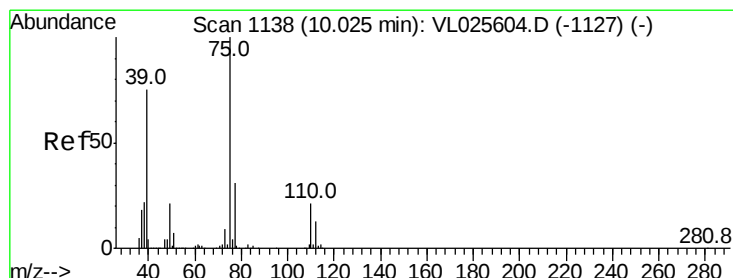
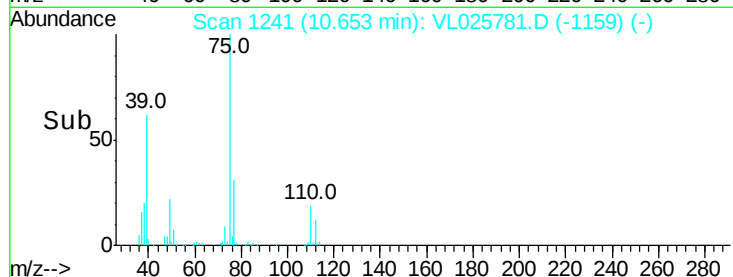
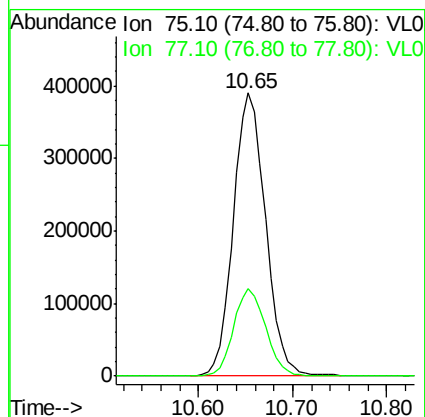
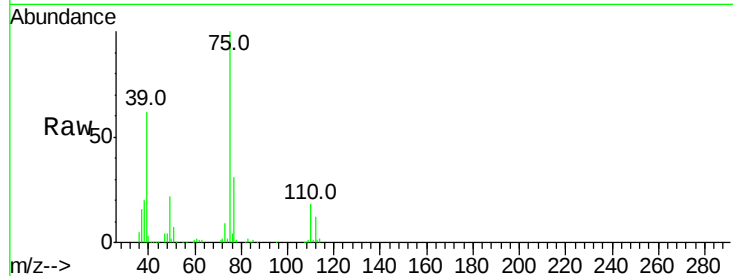
VSTDCCV010

Tgt Ion: 75 Resp: 932530

Ion Ratio Lower Upper

75 100

77 30.9 24.6 37.0



#46

cis-1,3-Dichloropropene

Concen: 9.04 ppbv

RT: 10.02 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

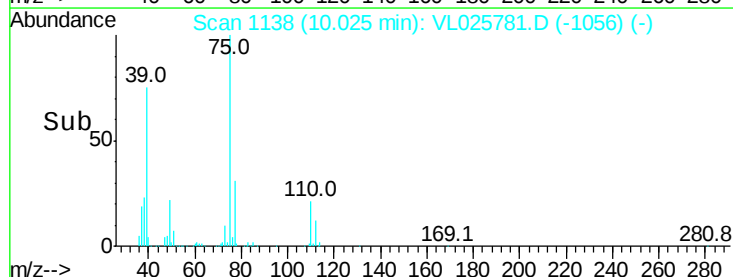
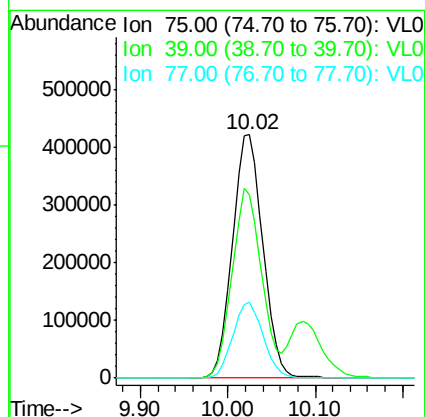
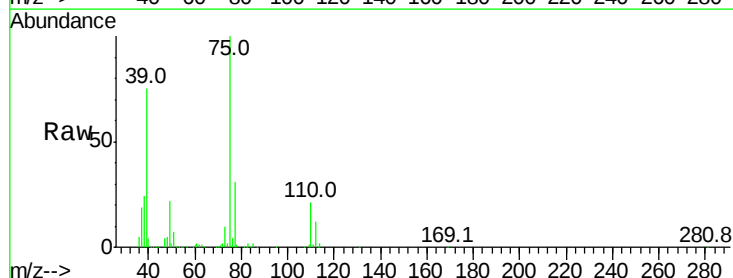
Tgt Ion: 75 Resp: 1026000

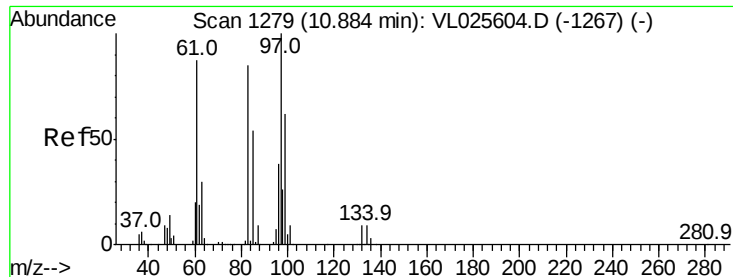
Ion Ratio Lower Upper

75 100

39 75.1 60.4 90.6

77 31.0 24.6 37.0

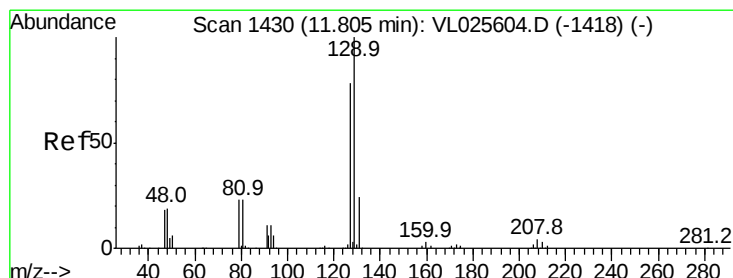
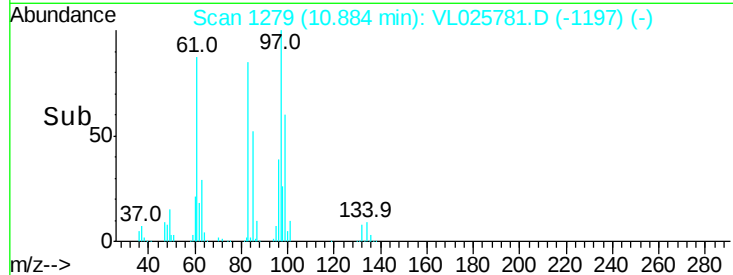
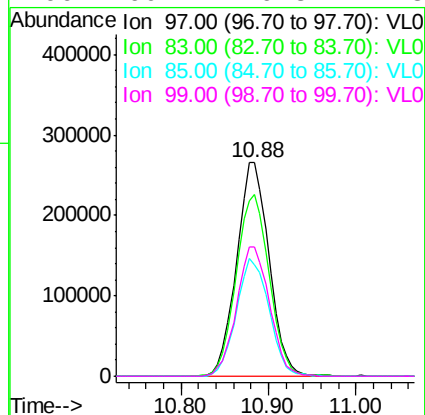
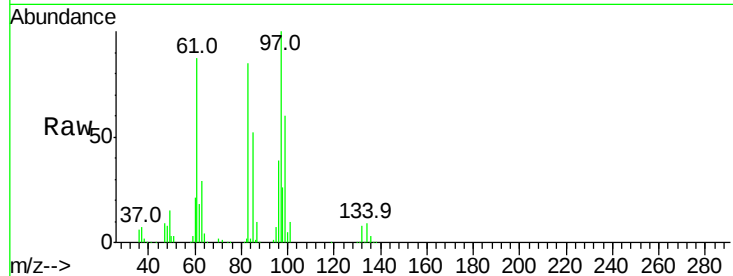




#47
 1,1,2-Trichloroethane
 Concen: 8.41 ppbv
 RT: 10.88 min Scan# 1279
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

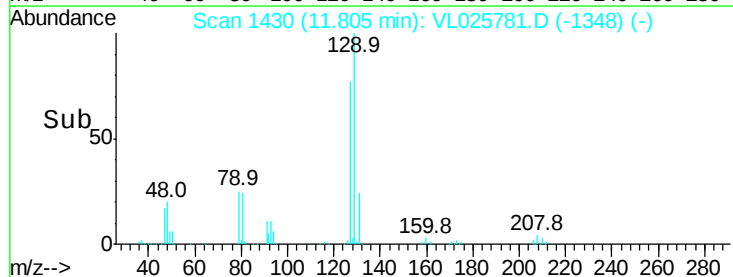
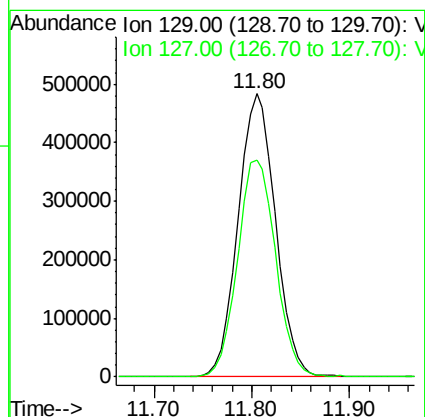
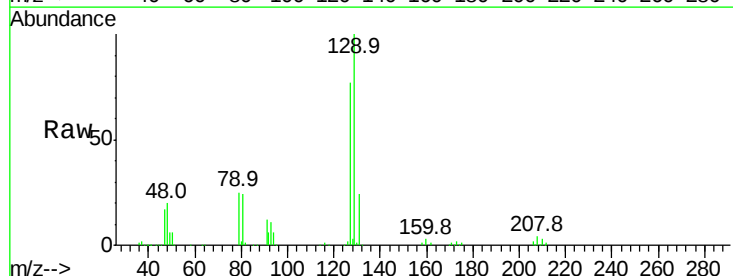
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010

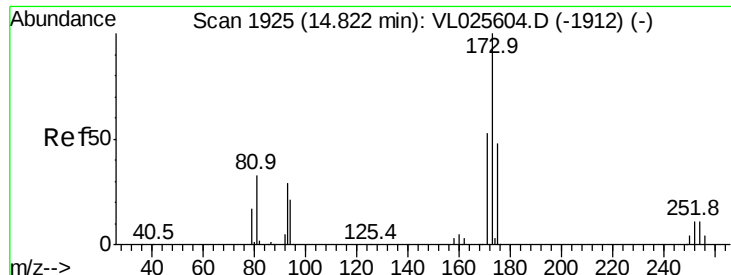
Tgt Ion: 97 Resp: 687624
 Ion Ratio Lower Upper
 97 100
 83 85.1 67.8 101.8
 85 52.2 43.5 65.3
 99 60.4 49.8 74.8



#48
 Dibromochloromethane
 Concen: 8.77 ppbv
 RT: 11.80 min Scan# 1430
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

Tgt Ion: 129 Resp: 1282603
 Ion Ratio Lower Upper
 129 100
 127 78.5 39.0 116.9





#49

Bromoform

Concen: 8.75 ppbv

RT: 14.82 min Scan# 1924

Delta R.T. -0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

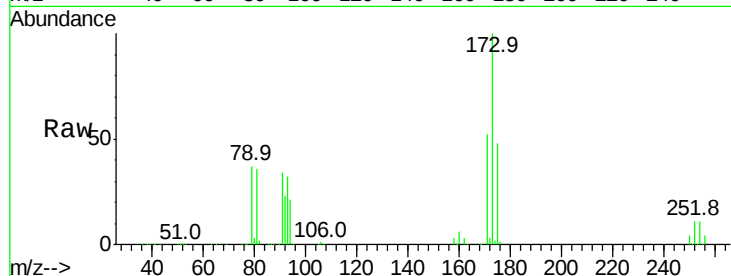
Tgt Ion:173 Resp: 1055352

Ion Ratio Lower Upper

173 100

175 48.9 39.5 59.3

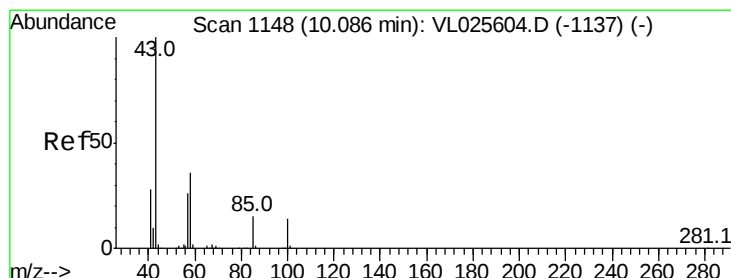
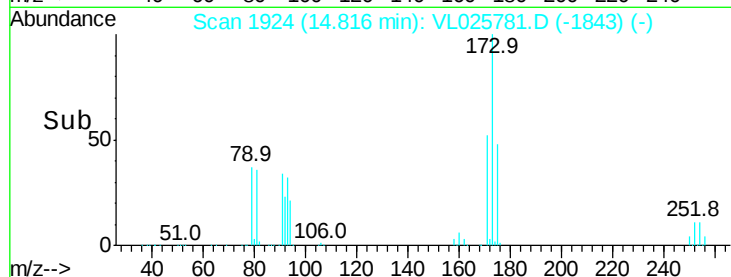
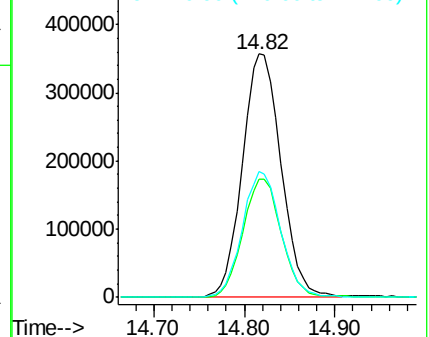
171 51.6 42.2 63.2



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: 9.02 ppbv

RT: 10.09 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VL025781.D

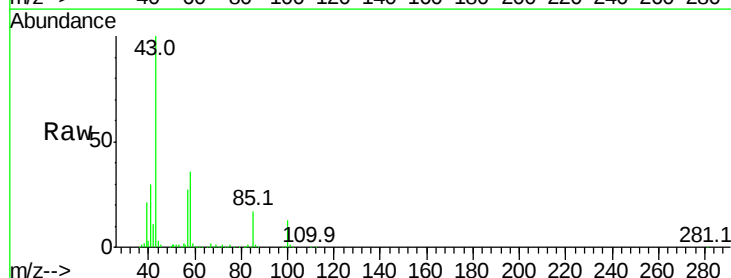
Acq: 28 Jul 2015 9:59

Tgt Ion: 43 Resp: 1224808

Ion Ratio Lower Upper

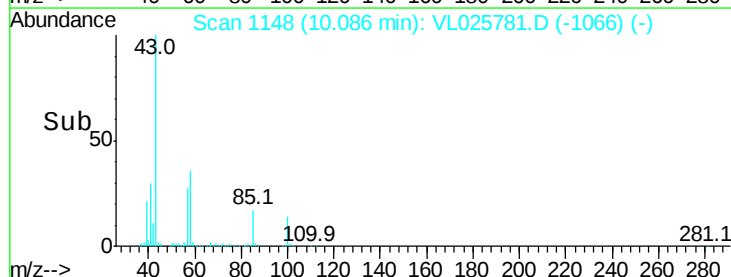
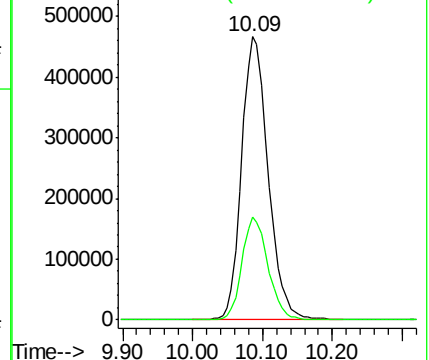
43 100

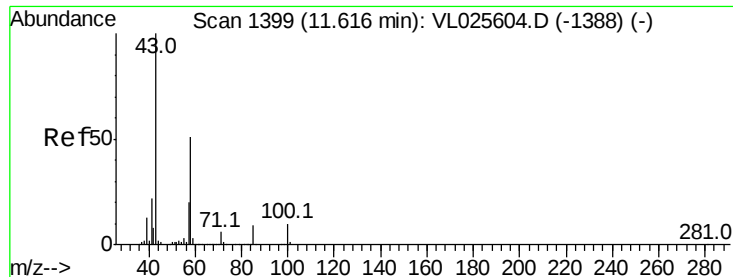
58 35.6 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

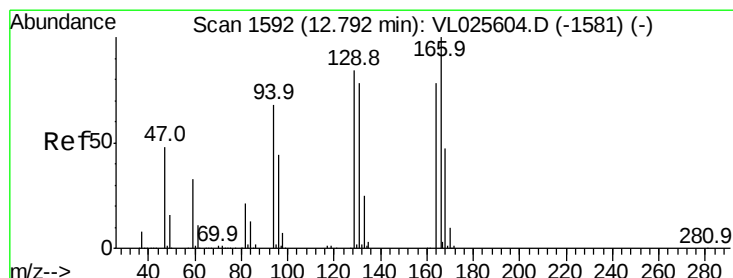
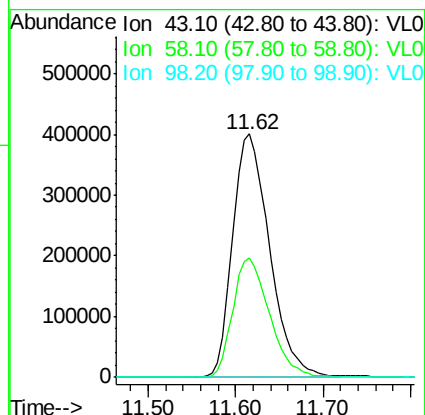
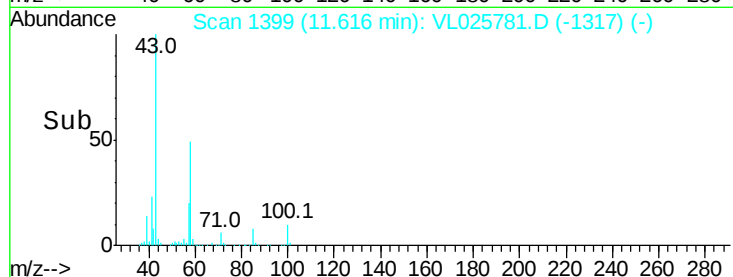
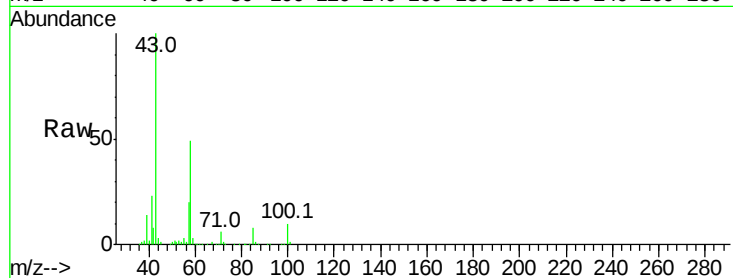




#51
2-Hexanone
Concen: 9.70 ppbv
RT: 11.62 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

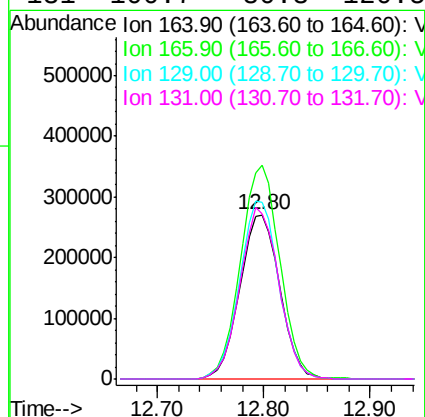
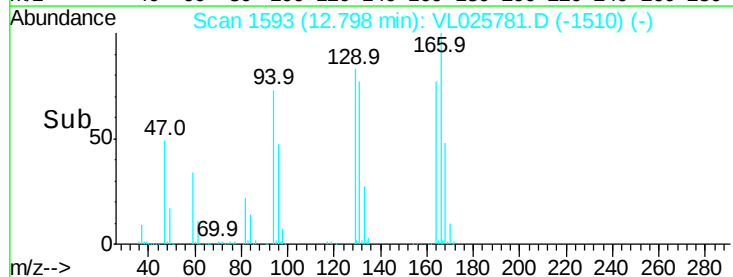
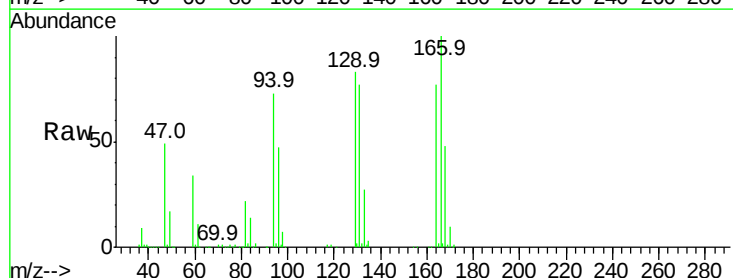
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

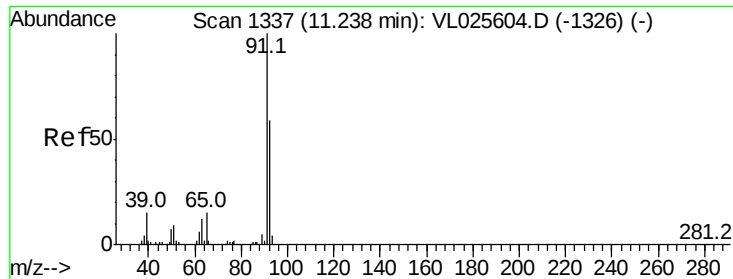
Tgt Ion: 43 Resp: 1180852
Ion Ratio Lower Upper
43 100
58 48.7 39.0 58.6
98 0.4 0.2 0.4#



#52
Tetrachloroethene
Concen: 8.93 ppbv
RT: 12.80 min Scan# 1593
Delta R.T. 0.01 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 164 Resp: 712400
Ion Ratio Lower Upper
164 100
166 130.2 102.3 153.5
129 107.7 86.2 129.4
131 100.7 80.3 120.5





#53

Toluene

Concen: 9.04 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

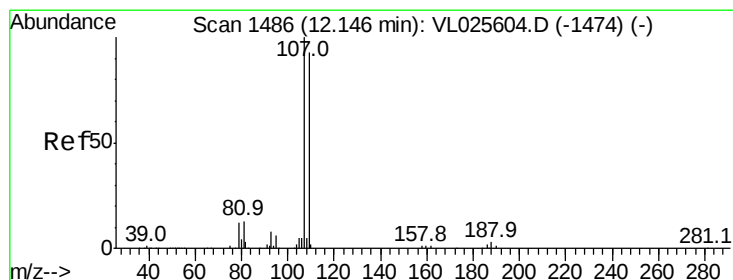
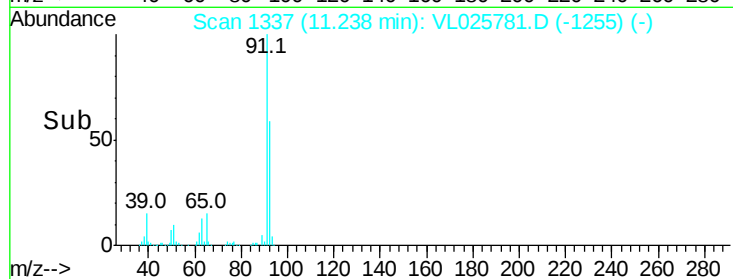
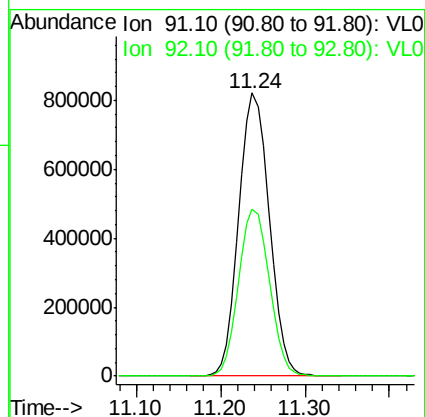
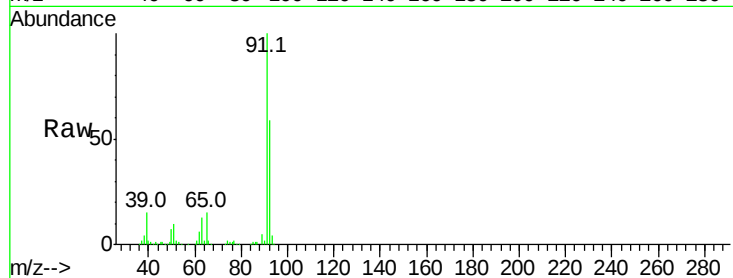
VSTDCCV010

Tgt Ion: 91 Resp: 2020517

Ion Ratio Lower Upper

91 100

92 59.7 48.2 72.2



#54

1,2-Dibromoethane

Concen: 8.46 ppbv

RT: 12.15 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VL025781.D

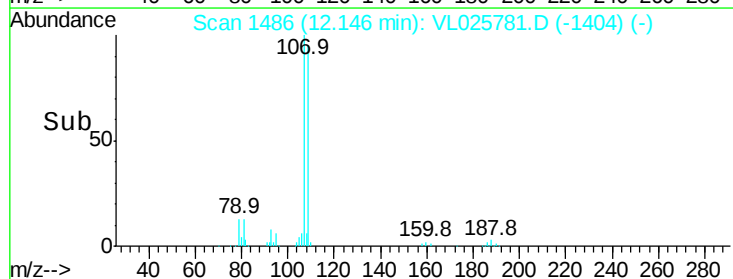
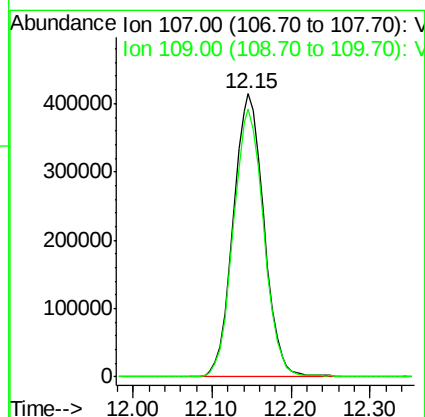
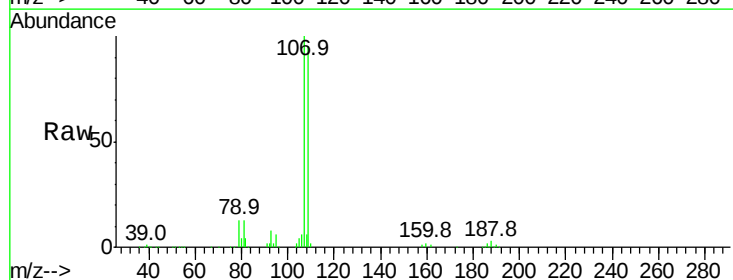
Acq: 28 Jul 2015 9:59

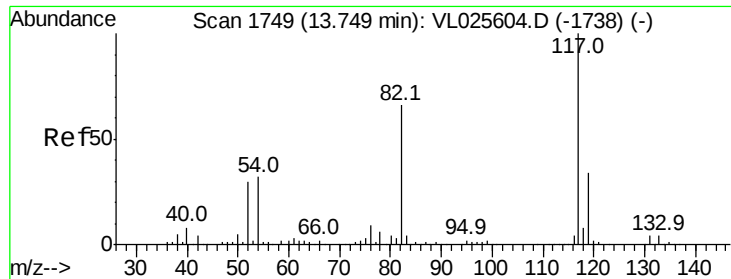
Tgt Ion: 107 Resp: 1118858

Ion Ratio Lower Upper

107 100

109 94.8 74.1 111.1

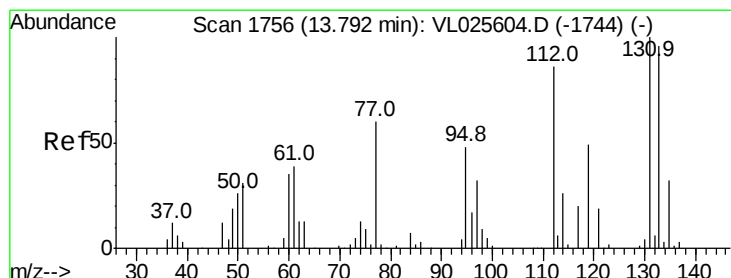
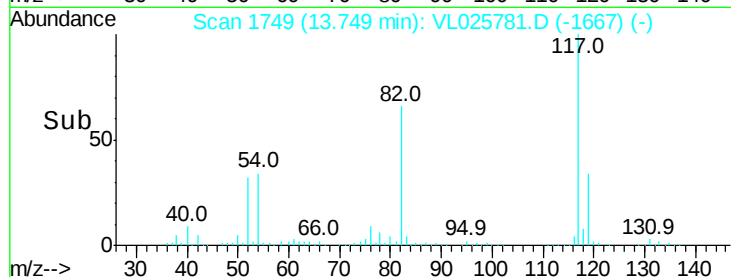
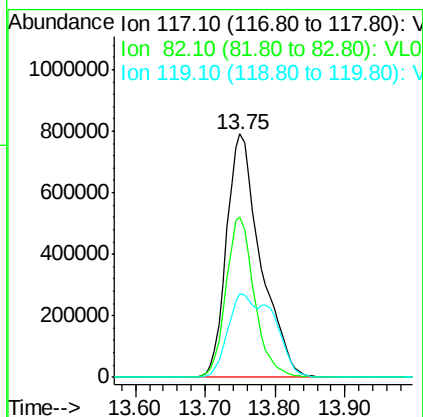
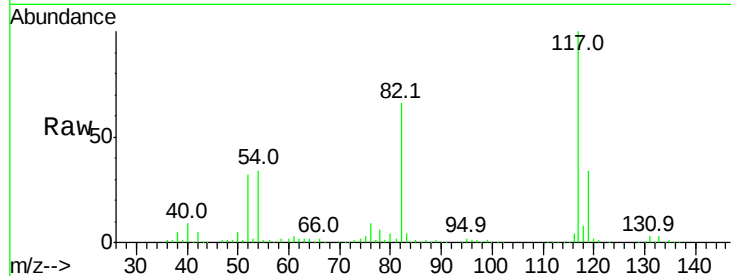




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.75 min Scan# 1749
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

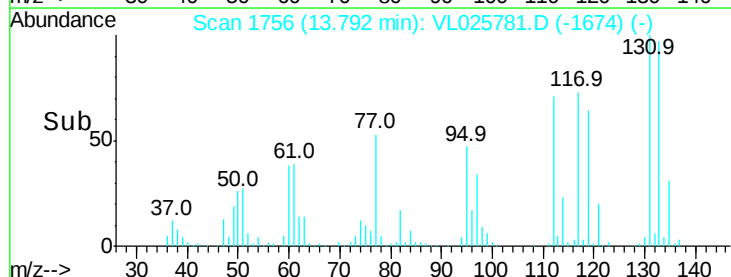
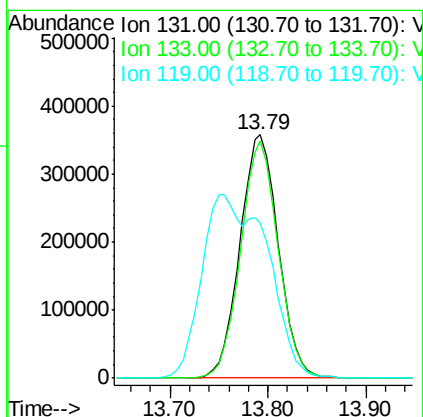
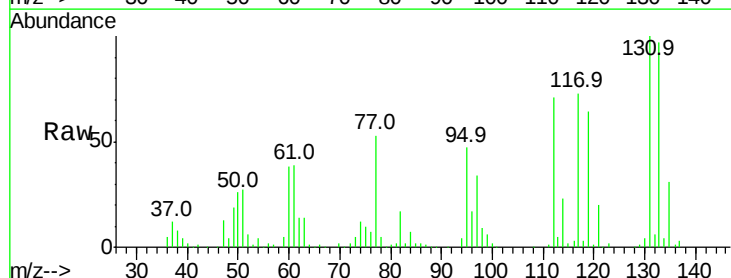
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

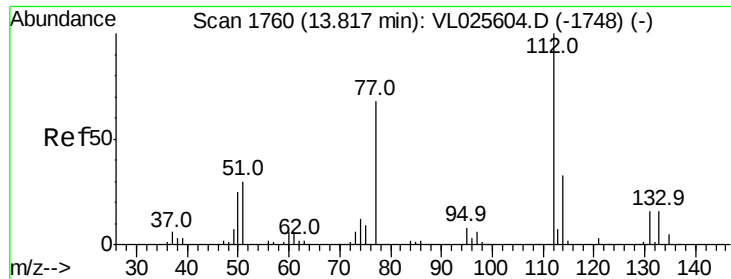
Tgt Ion:117 Resp: 2681633
Ion Ratio Lower Upper
117 100
82 55.2 50.5 75.7
119 46.9 45.1 67.7



#56
1,1,1,2-Tetrachloroethane
Concen: 6.75 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion:131 Resp: 978094
Ion Ratio Lower Upper
131 100
133 95.7 76.9 115.3
119 128.5 97.8 146.8

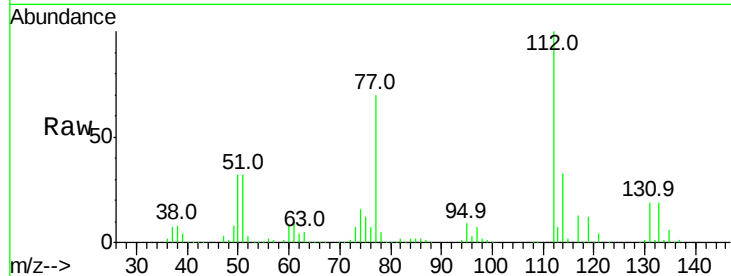




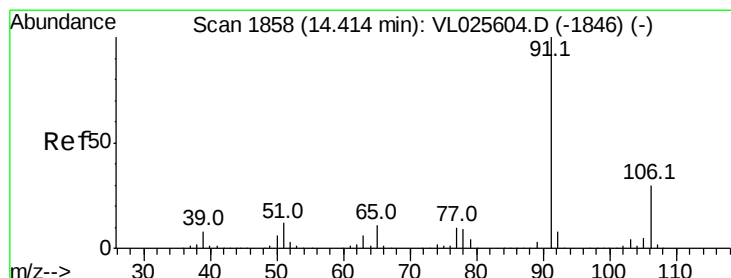
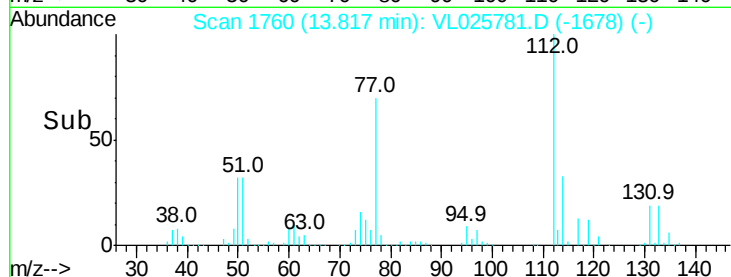
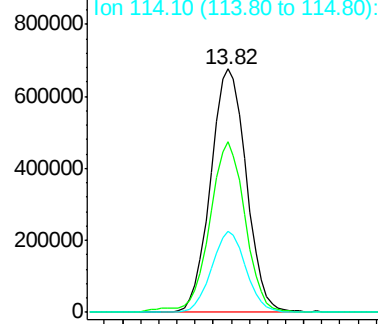
#57
Chlorobenzene
Concen: 6.47 ppbv
RT: 13.82 min Scan# 1760
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

Tgt Ion: 112 Resp: 1844791
Ion Ratio Lower Upper
112 100
77 69.8 55.2 82.8
114 33.0 29.4 36.0

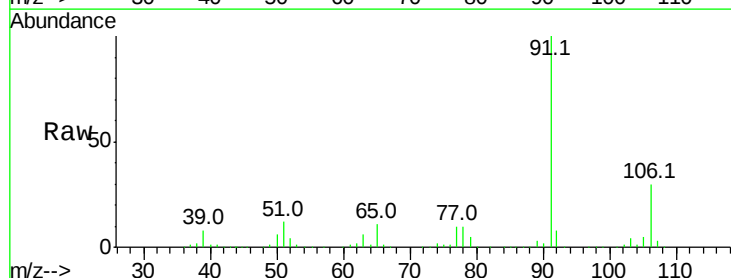


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

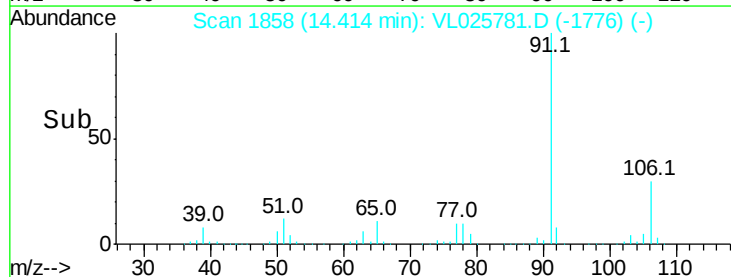
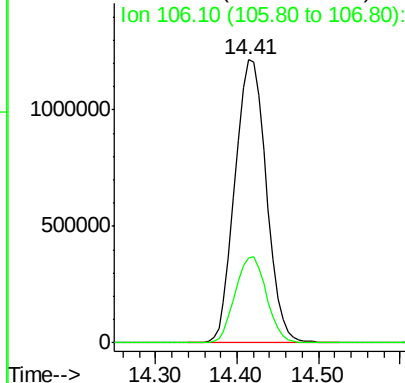


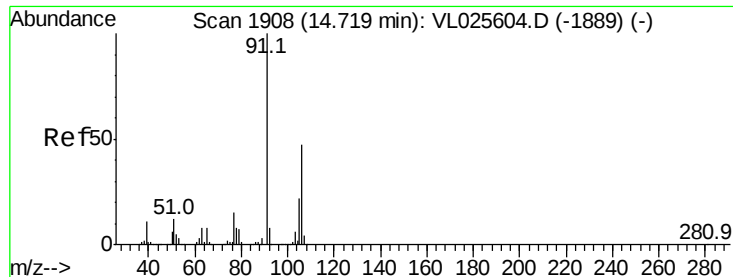
#58
Ethyl Benzene
Concen: 7.34 ppbv
RT: 14.41 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 91 Resp: 3250568
Ion Ratio Lower Upper
91 100
106 29.8 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

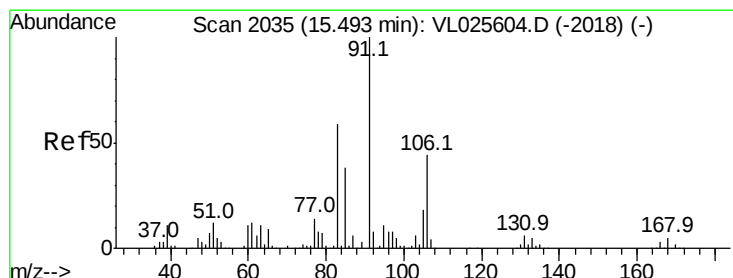
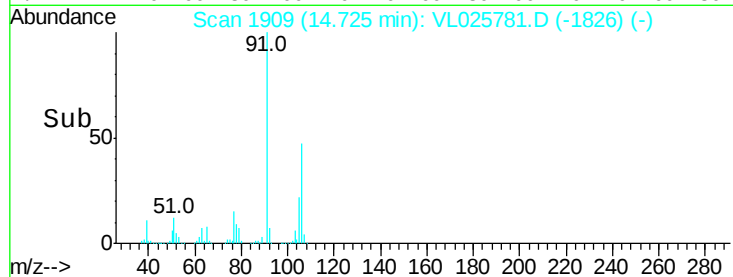
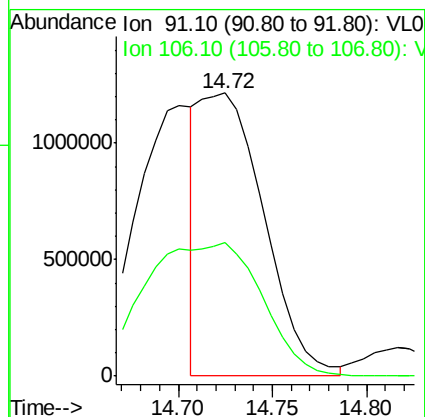
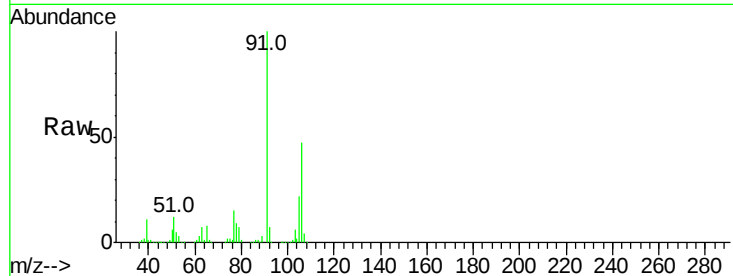




#59
m/p-Xylene
Concen: 7.38 ppbv
RT: 14.72 min Scan# 1909
Delta R.T. 0.01 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

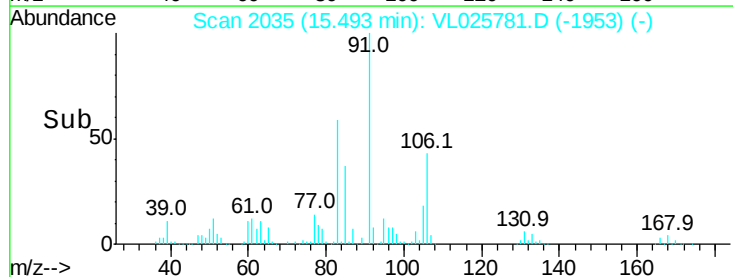
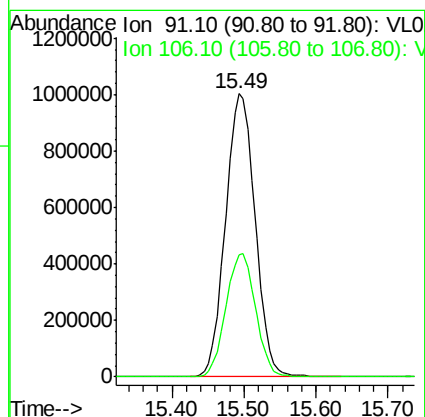
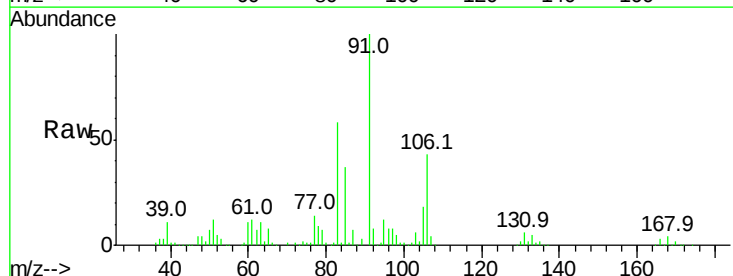
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

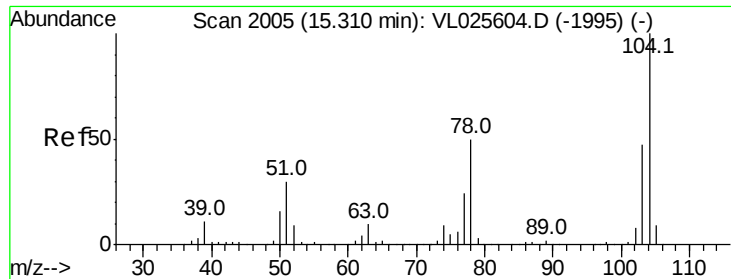
Tgt Ion: 91 Resp: 2874322
Ion Ratio Lower Upper
91 100
106 87.4 37.9 56.9#



#60
o-Xylene
Concen: 6.83 ppbv
RT: 15.49 min Scan# 2035
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 91 Resp: 2862971
Ion Ratio Lower Upper
91 100
106 43.9 22.1 66.1





#61

Styrene

Concen: 8.20 ppbv

RT: 15.31 min Scan# 2005

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

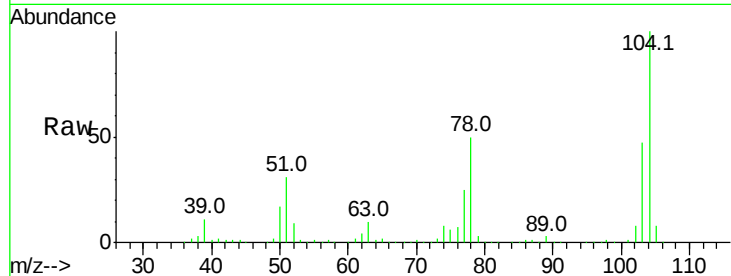
Tgt Ion:104 Resp: 1204197

Ion Ratio Lower Upper

104 100

78 52.4 40.2 60.4

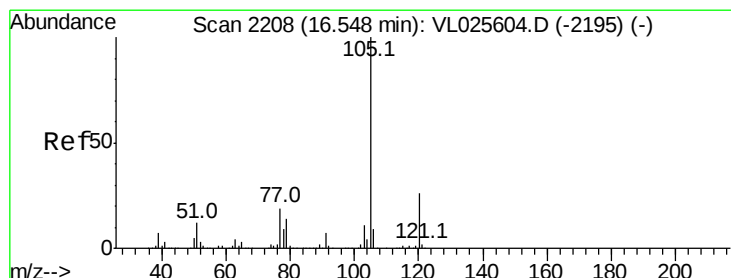
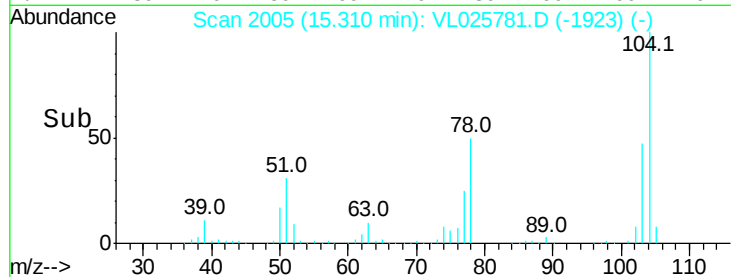
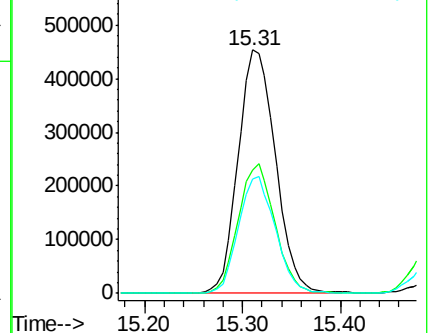
103 47.5 37.4 56.2



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: 7.02 ppbv

RT: 16.55 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VL025781.D

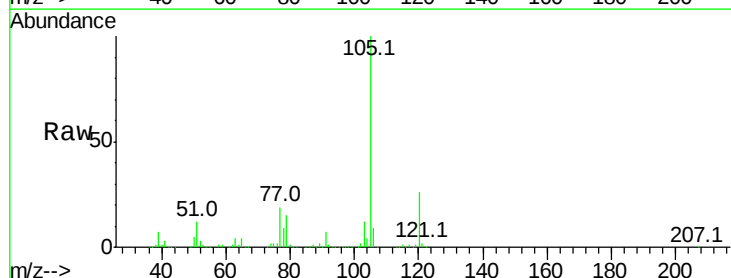
Acq: 28 Jul 2015 9:59

Tgt Ion:105 Resp: 3844833

Ion Ratio Lower Upper

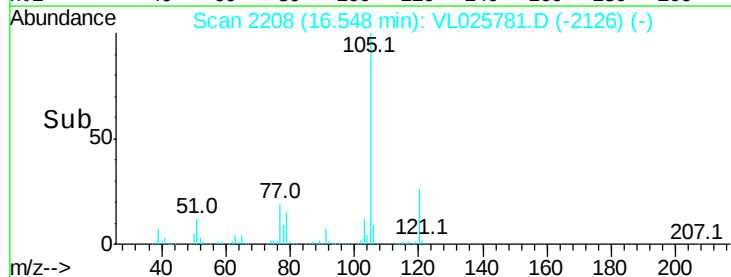
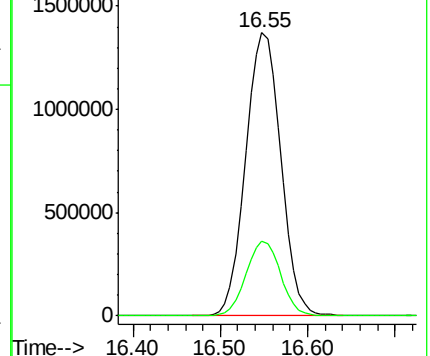
105 100

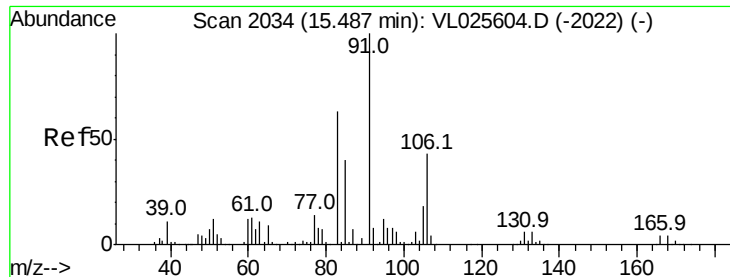
120 26.0 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 6.27 ppbv

RT: 15.49 min Scan# 2035

Delta R.T. 0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

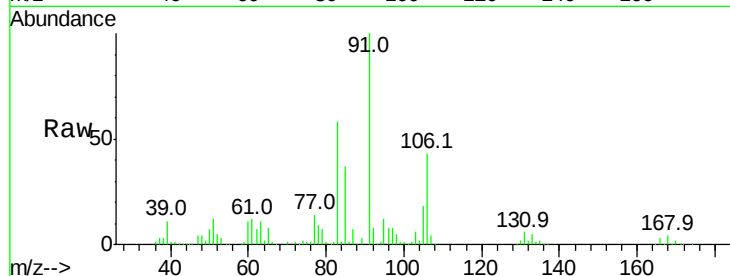
Tgt Ion: 83 Resp: 1778297

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

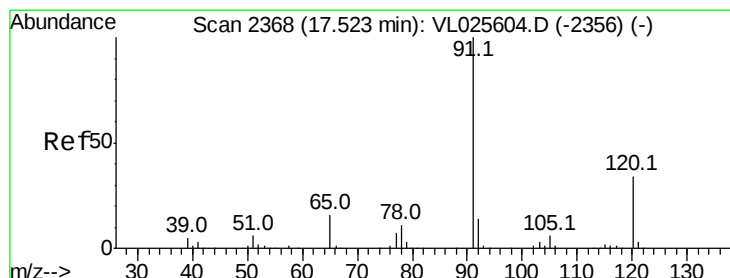
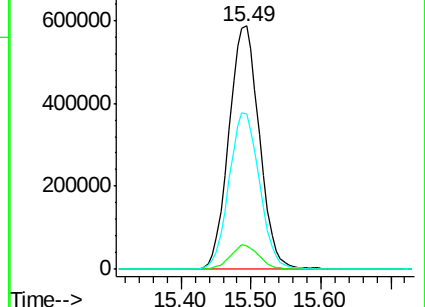
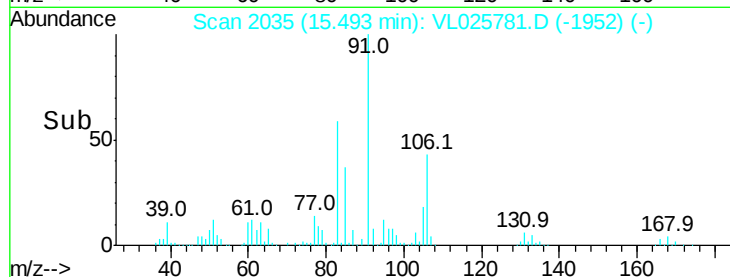
85 64.4 32.4 97.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.04 ppbv

RT: 17.52 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VL025781.D

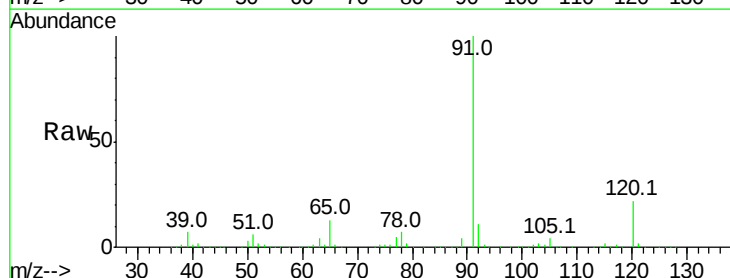
Acq: 28 Jul 2015 9:59

Tgt Ion: 120 Resp: 1042856

Ion Ratio Lower Upper

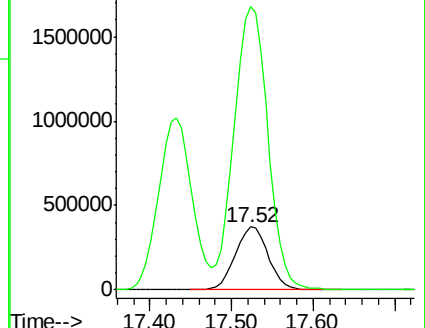
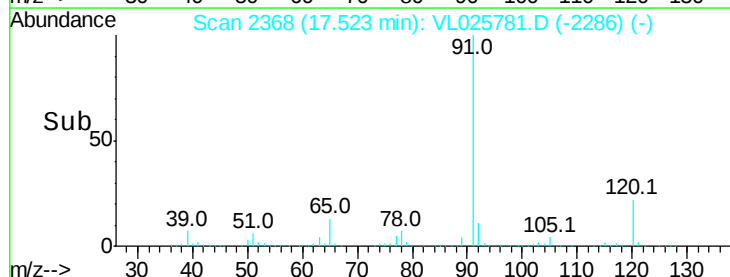
120 100

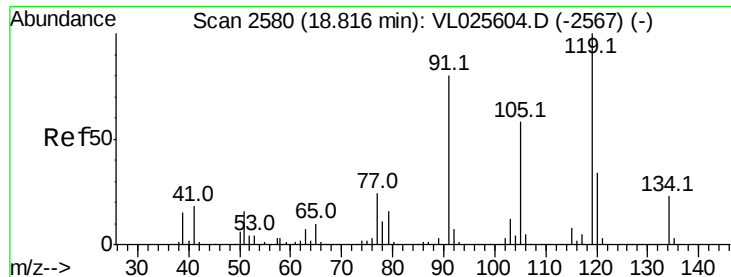
91 458.6 370.5 555.7



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

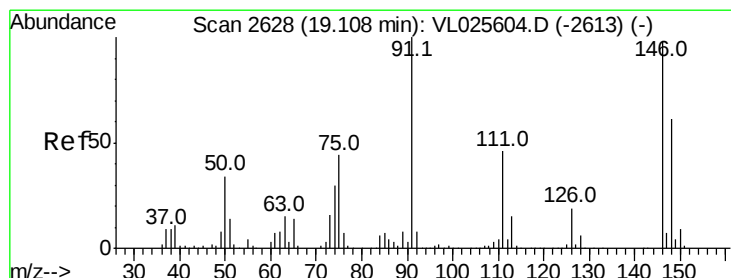
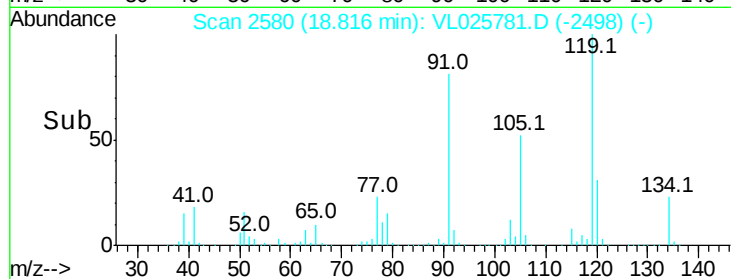
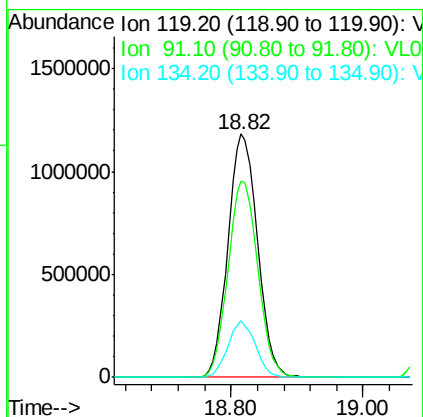
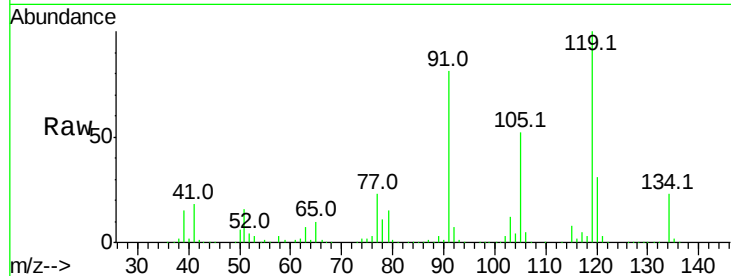




#65
 tert-Butylbenzene
 Concen: 6.80 ppbv
 RT: 18.82 min Scan# 2580
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

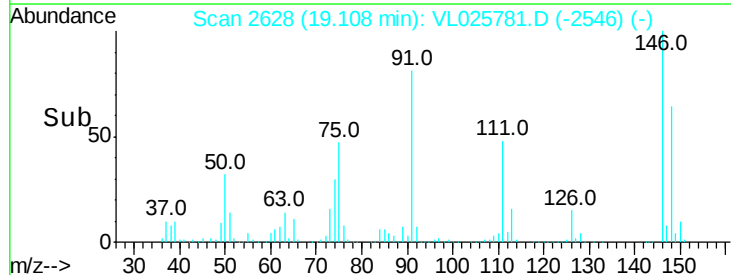
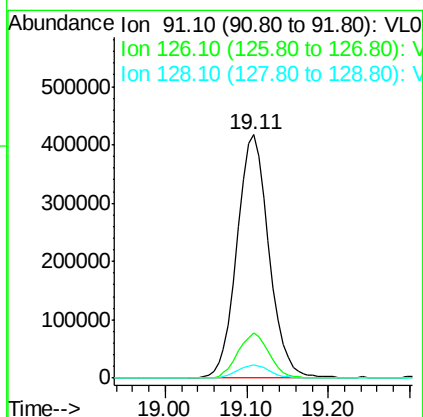
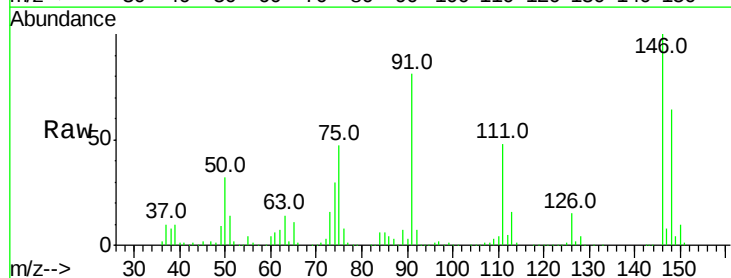
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010

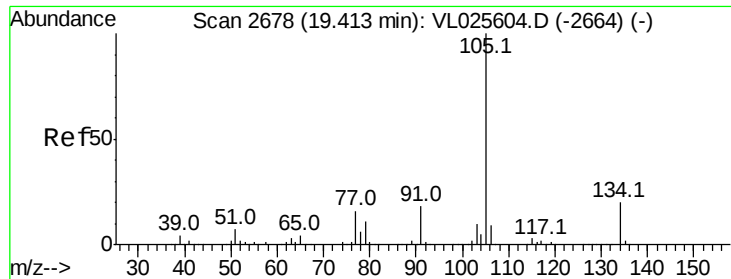
Tgt Ion: 119 Resp: 3657096
 Ion Ratio Lower Upper
 119 100
 91 81.3 64.5 96.7
 134 21.6 17.4 26.0



#66
 Benzyl Chloride
 Concen: 5.73 ppbv
 RT: 19.11 min Scan# 2628
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

Tgt Ion: 91 Resp: 1130500
 Ion Ratio Lower Upper
 91 100
 126 18.3 14.5 21.7
 128 5.7 4.6 7.0

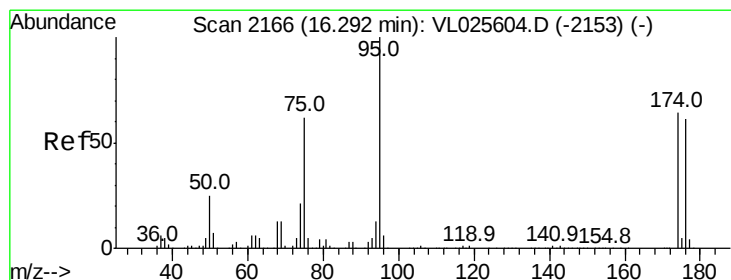
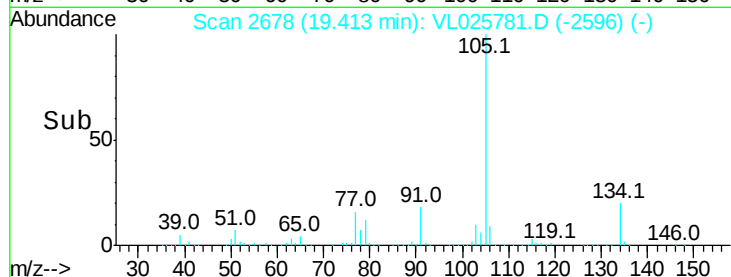
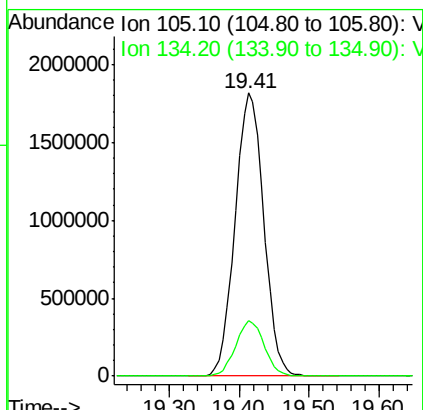
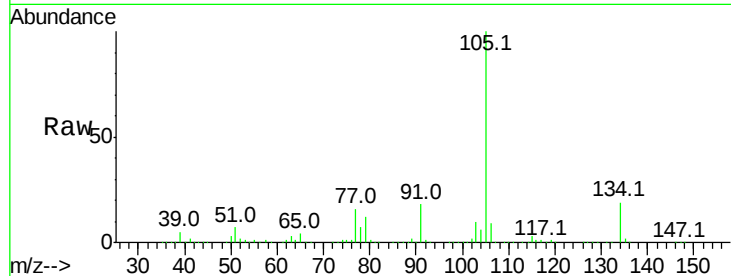




#67
 sec-Butylbenzene
 Concen: 6.87 ppbv
 RT: 19.41 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

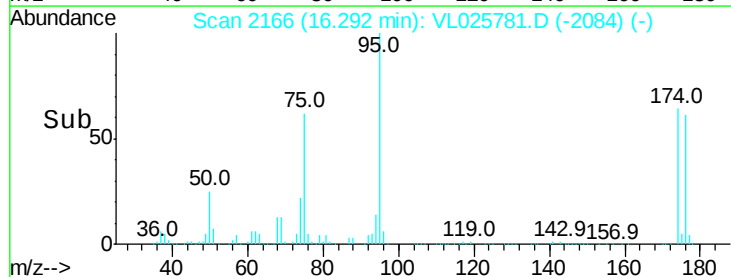
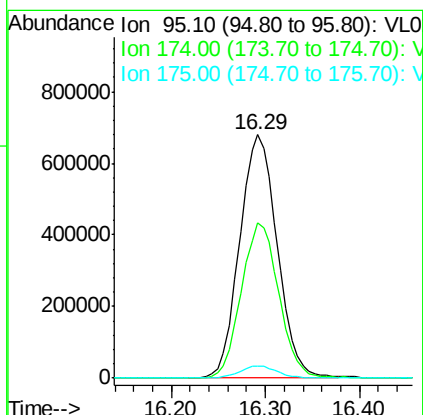
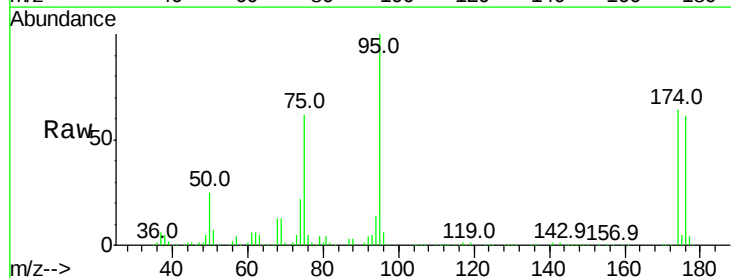
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010

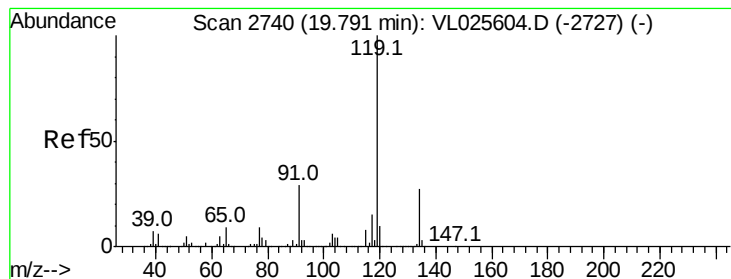
Tgt Ion: 105 Resp: 5179527
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.4 23.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.40 ppbv
 RT: 16.29 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

Tgt Ion: 95 Resp: 1900138
 Ion Ratio Lower Upper
 95 100
 174 64.1 52.0 78.0
 175 5.0 3.9 5.9





#69

p-Isopropyltoluene

Concen: 7.20 ppbv

RT: 19.80 min Scan# 2741

Delta R.T. 0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

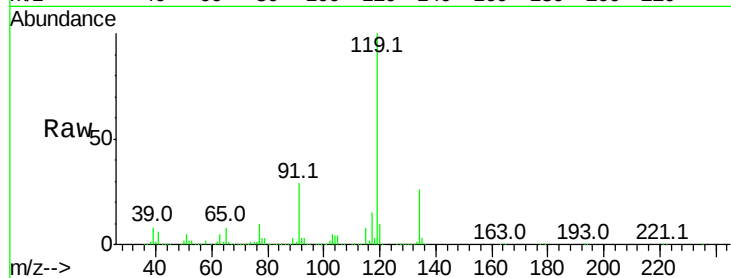
Tgt Ion: 119 Resp: 4470721

Ion Ratio Lower Upper

119 100

134 25.7 20.7 31.1

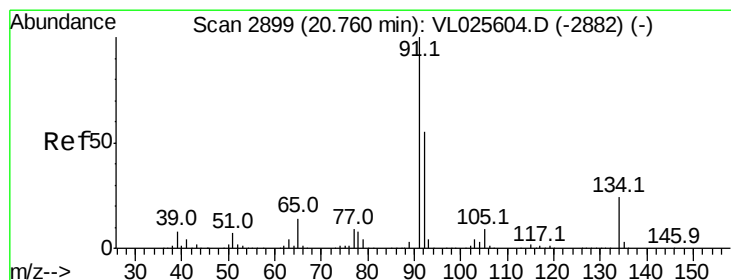
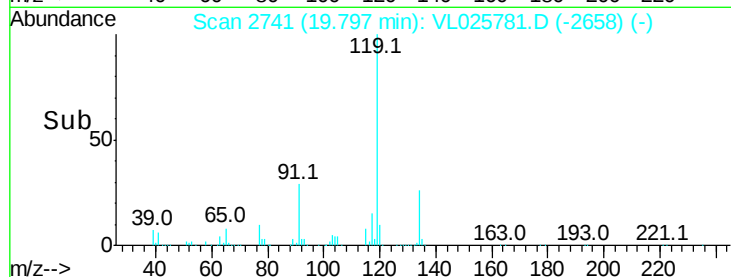
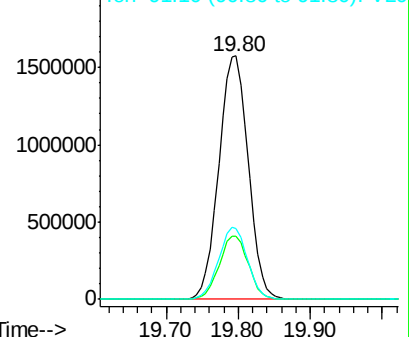
91 29.0 22.6 34.0



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 7.14 ppbv

RT: 20.76 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

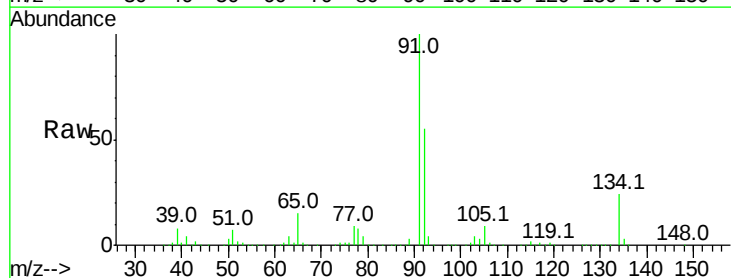
Tgt Ion: 91 Resp: 4497092

Ion Ratio Lower Upper

91 100

92 54.6 44.3 66.5

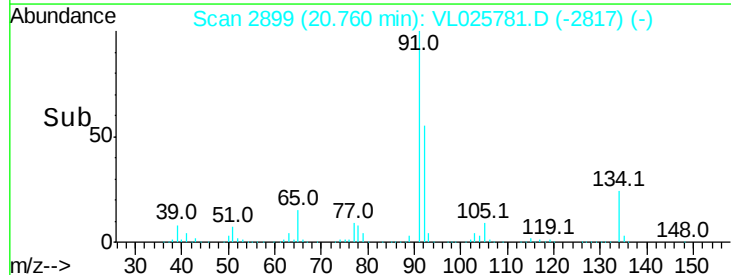
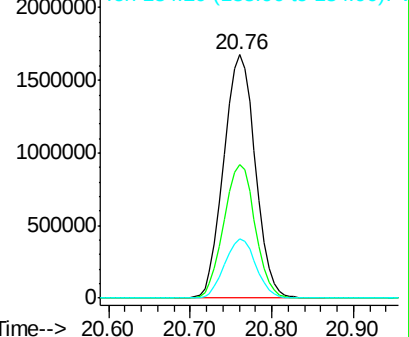
134 24.2 19.4 29.2

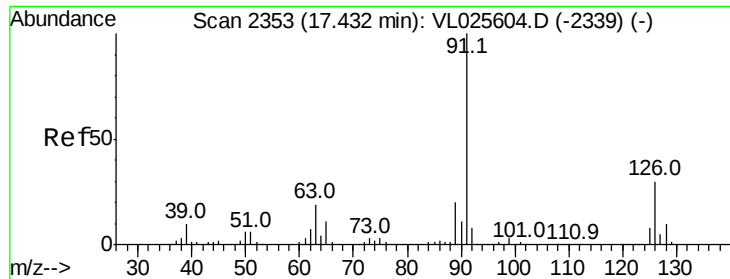


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V

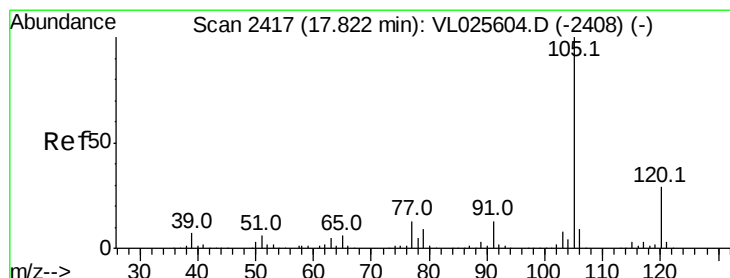
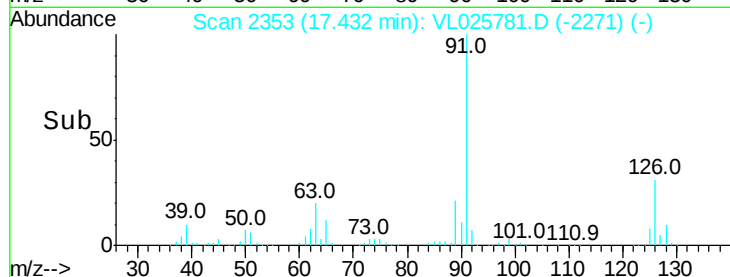
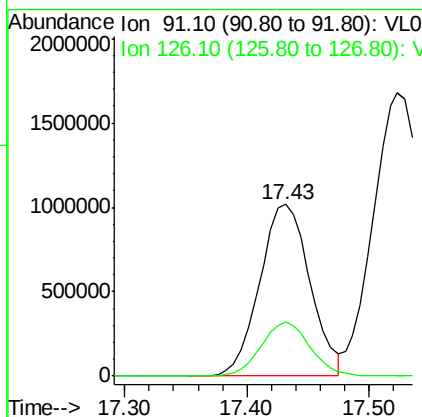
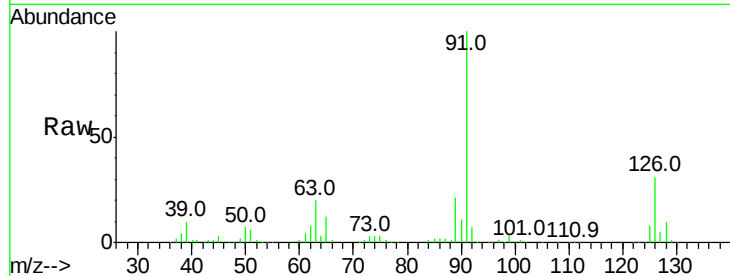




#71
2-Chlorotoluene
Concen: 7.27 ppbv
RT: 17.43 min Scan# 2353
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

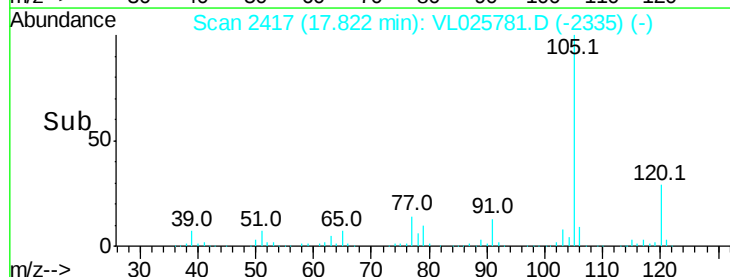
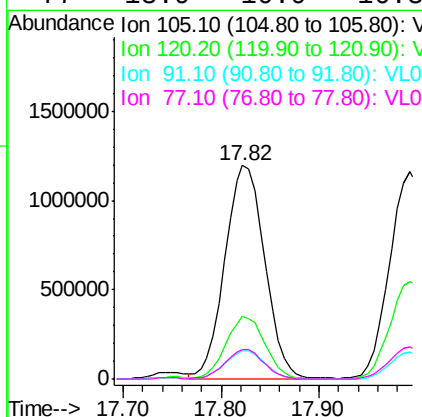
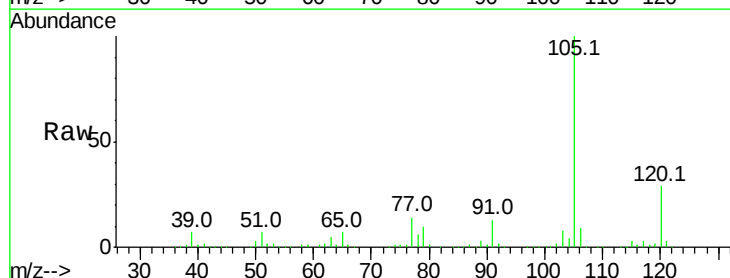
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010

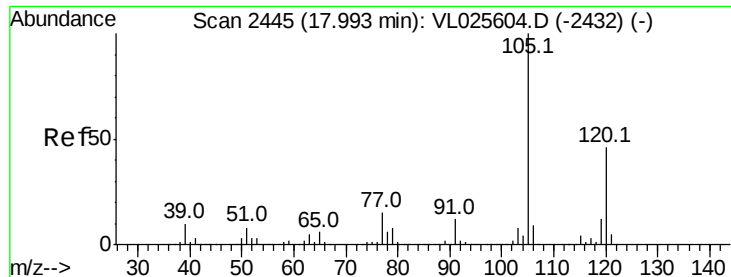
Tgt Ion: 91 Resp: 2921171
Ion Ratio Lower Upper
91 100
126 30.8 12.2 49.0



#72
4-Ethyltoluene
Concen: 7.31 ppbv
RT: 17.82 min Scan# 2417
Delta R.T. 0.00 min
Lab File: VL025781.D
Acq: 28 Jul 2015 9:59

Tgt Ion: 105 Resp: 3386268
Ion Ratio Lower Upper
105 100
120 29.7 23.9 35.9
91 13.6 10.3 15.5
77 13.9 10.9 16.3





#73

1,3,5-Trimethylbenzene

Concen: 7.14 ppbv

RT: 17.99 min Scan# 2445

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

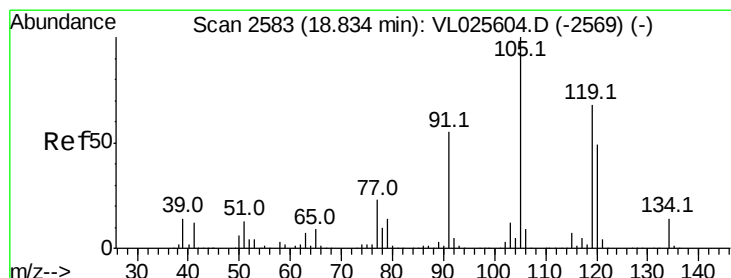
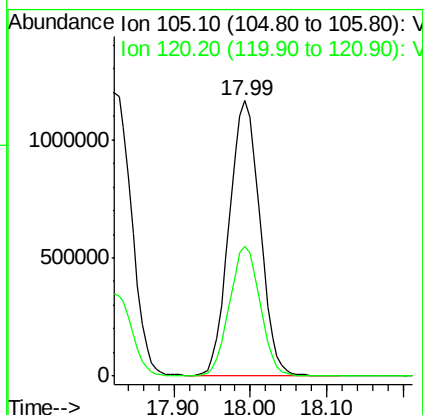
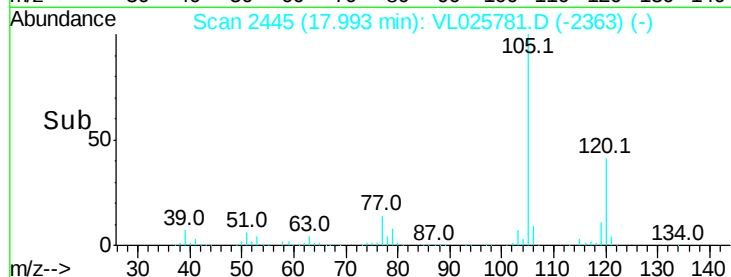
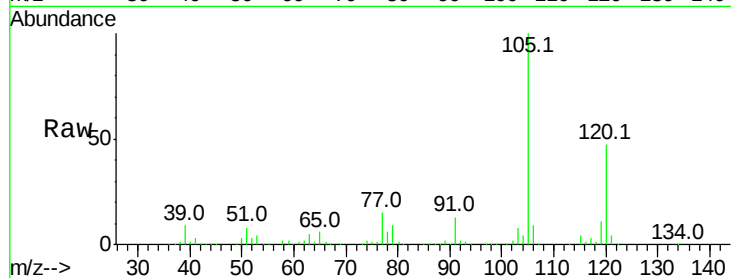
VSTDCCV010

Tgt Ion:105 Resp: 3250065

Ion Ratio Lower Upper

105 100

120 47.0 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 6.74 ppbv

RT: 18.83 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Tgt Ion:105 Resp: 3438275

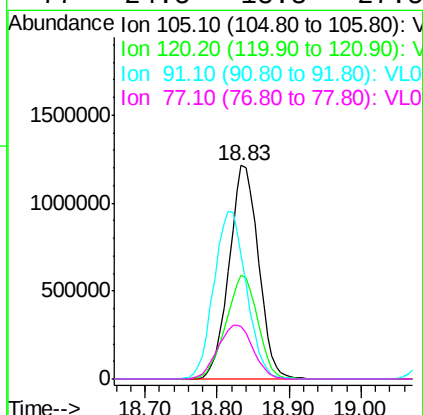
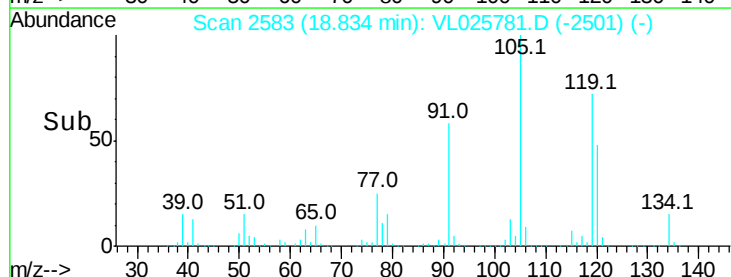
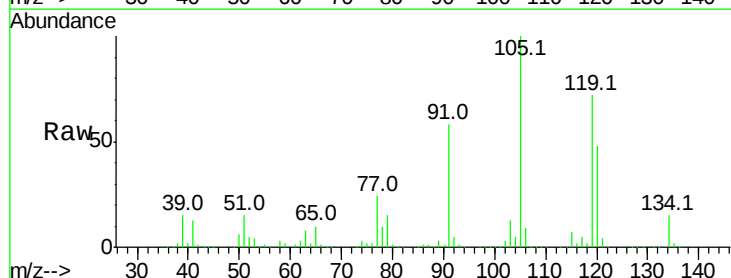
Ion Ratio Lower Upper

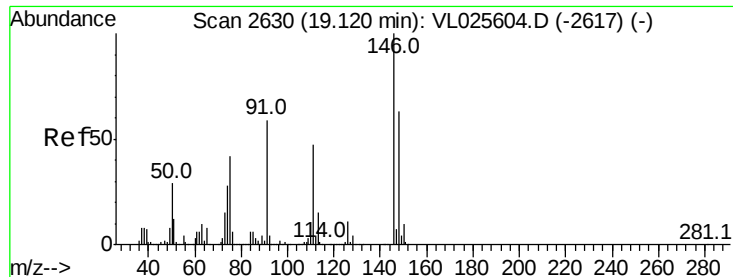
105 100

120 48.3 39.3 58.9

91 58.1 43.8 65.6

77 24.5 18.3 27.5





#75

1,3-Dichlorobenzene

Concen: 6.48 ppbv

RT: 19.13 min Scan# 2631

Delta R.T. 0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

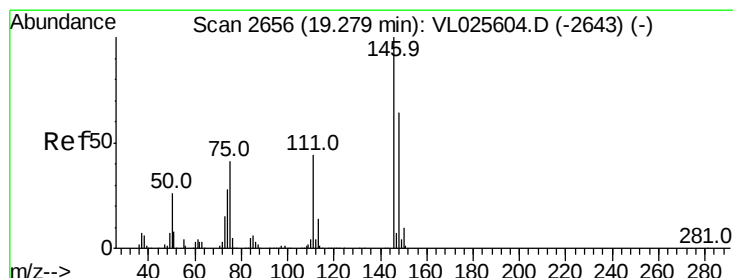
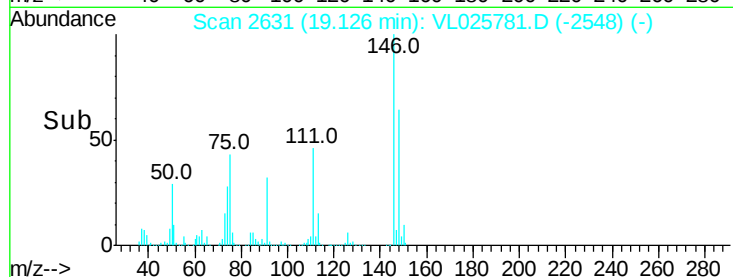
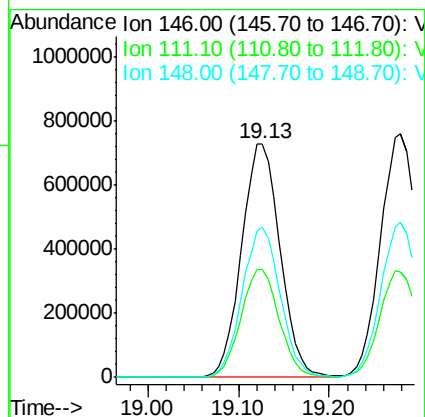
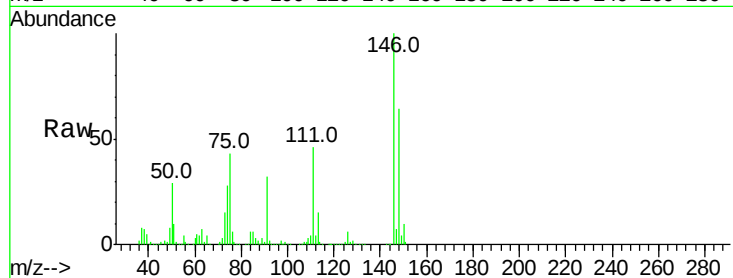
Tgt Ion:146 Resp: 2152820

Ion Ratio Lower Upper

146 100

111 45.7 22.7 68.1

148 63.5 31.8 95.3



#76

1,4-Dichlorobenzene

Concen: 6.63 ppbv

RT: 19.28 min Scan# 2656

Delta R.T. 0.00 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

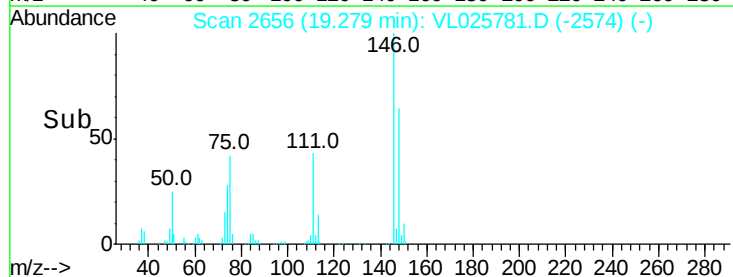
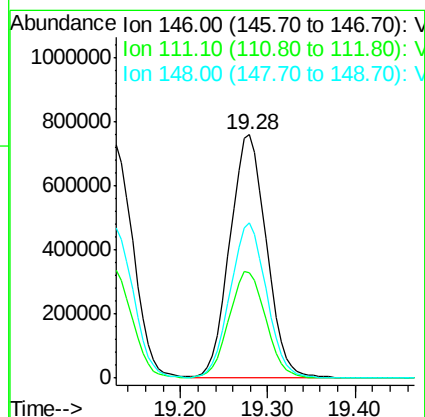
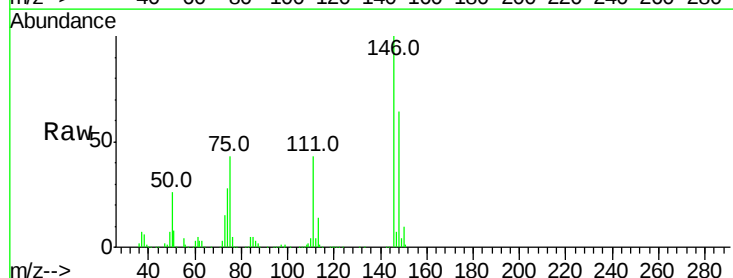
Tgt Ion:146 Resp: 2205199

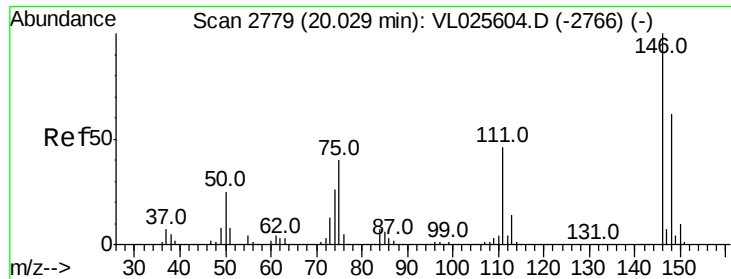
Ion Ratio Lower Upper

146 100

111 44.5 22.1 66.1

148 63.6 31.9 95.9

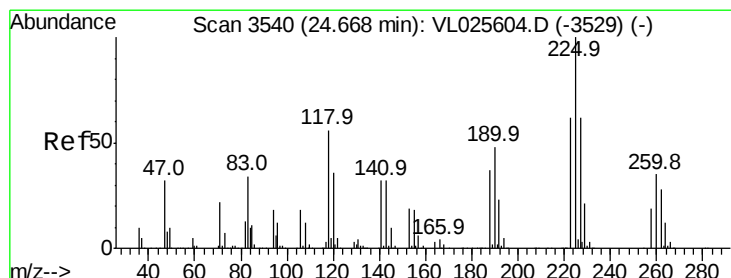
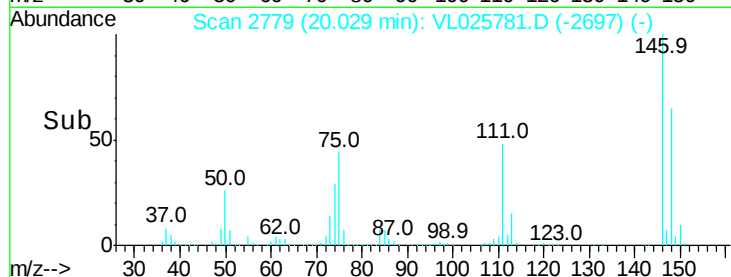
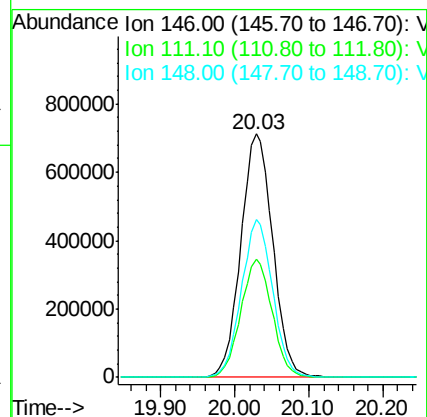
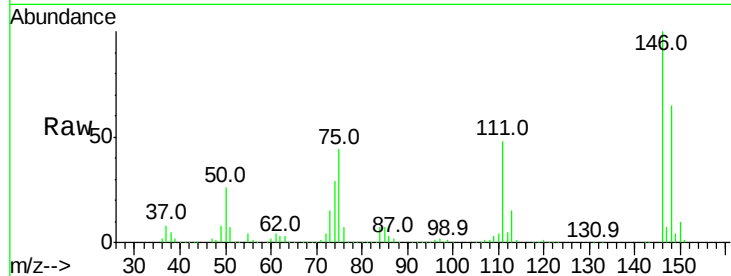




#77
 1,2-Dichlorobenzene
 Concen: 6.52 ppbv
 RT: 20.03 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

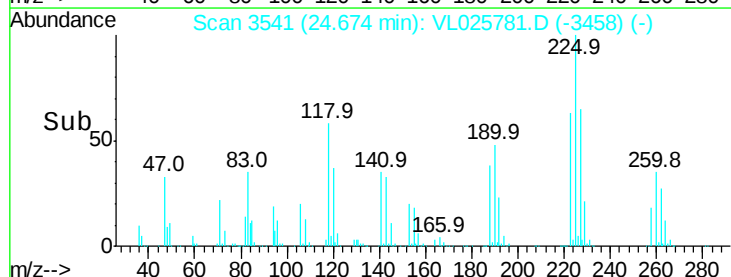
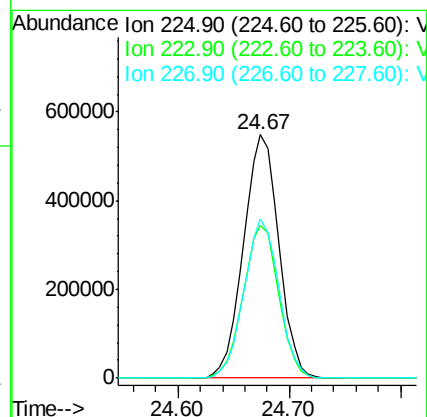
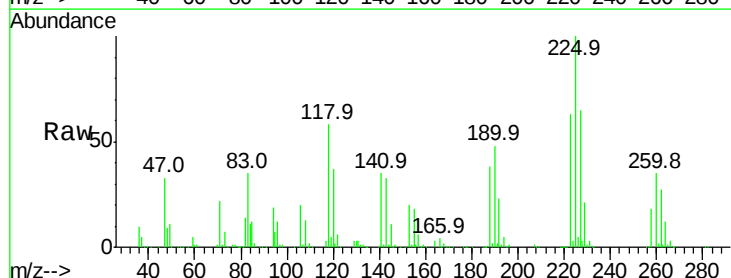
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010

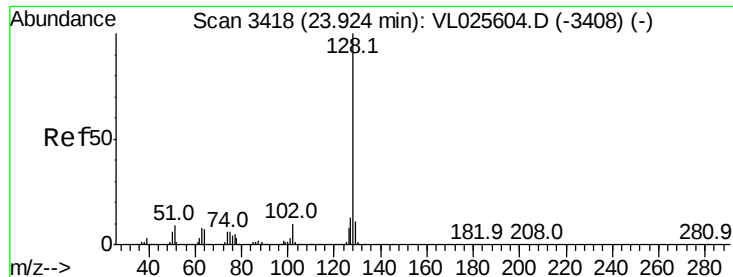
Tgt Ion:146 Resp: 2149092
 Ion Ratio Lower Upper
 146 100
 111 47.6 23.4 70.3
 148 63.4 31.6 94.8



#78
 Hexachloro-1,3-Butadiene
 Concen: 5.97 ppbv
 RT: 24.67 min Scan# 3541
 Delta R.T. 0.01 min
 Lab File: VL025781.D
 Acq: 28 Jul 2015 9:59

Tgt Ion:225 Resp: 1210538
 Ion Ratio Lower Upper
 225 100
 223 63.1 50.6 76.0
 227 64.5 50.5 75.7





#79

Naphthalene

Concen: 6.36 ppbv

RT: 23.93 min Scan# 3419

Delta R.T. 0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

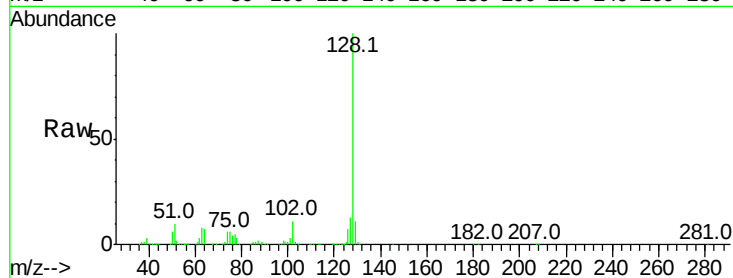
Tgt Ion:128 Resp: 3134251

Ion Ratio Lower Upper

128 100

127 13.0 10.8 16.2

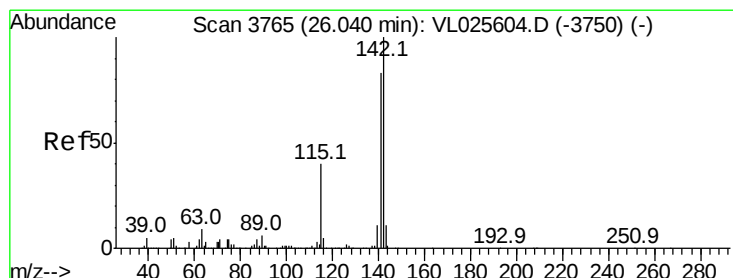
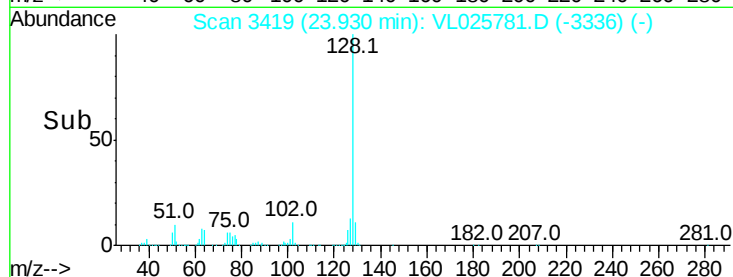
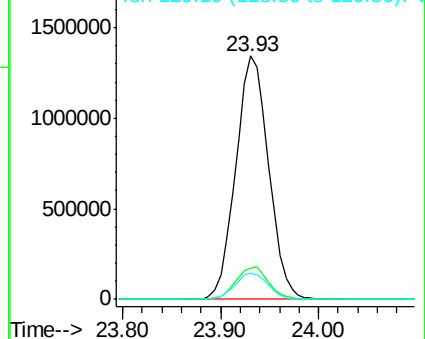
129 10.8 9.0 13.4



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: 4.32 ppbv

RT: 26.05 min Scan# 3766

Delta R.T. 0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

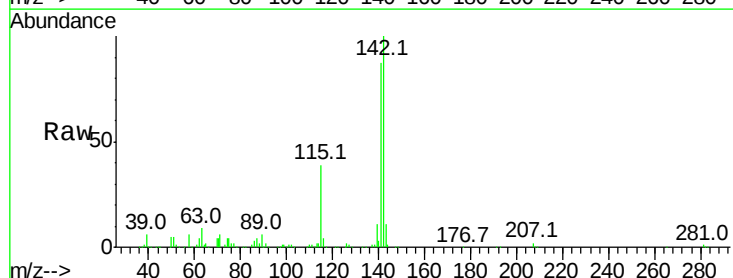
Tgt Ion:142 Resp: 618004

Ion Ratio Lower Upper

142 100

141 86.2 67.1 100.7

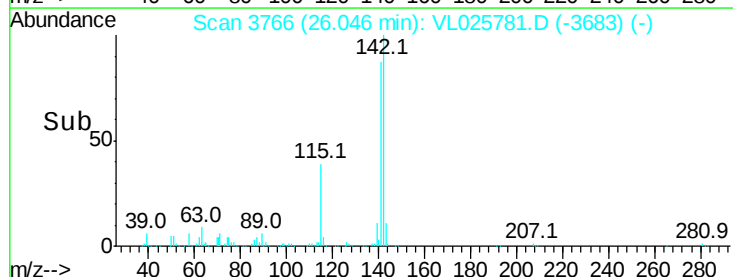
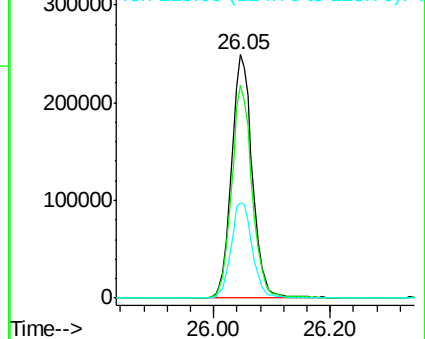
115 40.5 33.9 50.9

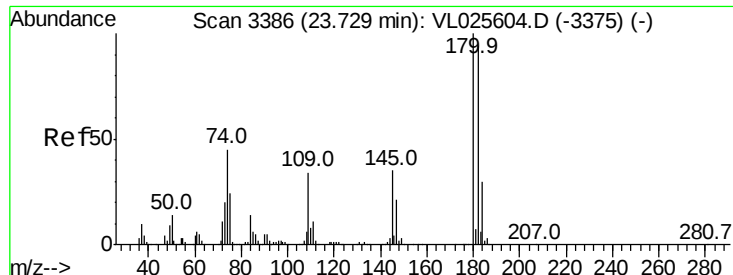


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 6.84 ppbv

RT: 23.74 min Scan# 3387

Delta R.T. 0.01 min

Lab File: VL025781.D

Acq: 28 Jul 2015 9:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010

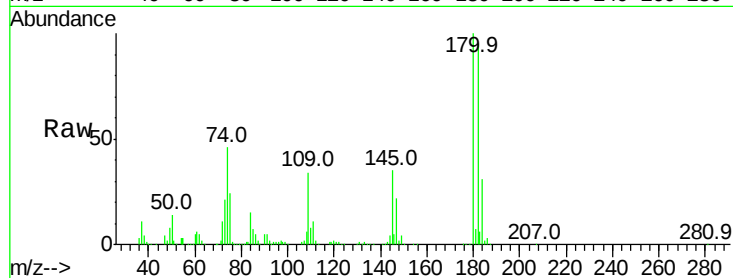
Tgt Ion:180 Resp: 1616284

Ion Ratio Lower Upper

180 100

182 96.0 76.1 114.1

184 30.2 24.4 36.6



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

