

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026827.D
 Acq On : 9 Feb 2016 19:29
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Feb 10 02:09:54 2016

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 02:03:34 2016

QLast Update : Wed Feb 10 02:03:34 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	1668236	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.36	114	4379744	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	4056138	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2949021	8.57	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	85.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.67	85	42567	0.08	ppbv	99
3) Chlorodifluoromethane	3.59	51	90070	0.28	ppbv	98
4) Chloromethane	3.78	50	12418	0.13	ppbv #	87
5) Vinyl Chloride	3.92	62	12874	0.11	ppbv #	86
6) Bromomethane	4.18	94	10496	0.10	ppbv	87
7) Chloroethane	4.27	64	5955	0.11	ppbv	96
8) Dichlorotetrafluoroethane	3.83	85	37190	0.10	ppbv	99
9) Propene	3.62	41	8850	0.13	ppbv	97
10) Heptane	9.40	43	14909	0.06	ppbv	95
11) Trichlorofluoromethane	4.73	101	48532	0.08	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.34	101	34711	0.10	ppbv	97
13) Ethanol	4.37	45	320	0.02	ppbv #	36
14) Bromoethene	4.48	108	11239	0.10	ppbv	94
15) Acetone	4.67	43	51087	0.13	ppbv #	2
16) 1,3-Butadiene	3.99	39	12264	0.11	ppbv #	67
17) tert-Butyl alcohol	5.21	59	14927	0.07	ppbv	96
18) 1,1-Dichloroethene	5.12	96	13366	0.10	ppbv	92
19) Isopropyl Alcohol	4.83	45	9745	0.09	ppbv #	92
20) Methylene Chloride	5.18	84	20853	0.16	ppbv	89
21) Allyl Chloride	5.26	41	15201	0.09	ppbv #	81
22) trans-1,2-Dichloroethene	5.80	96	11621	0.09	ppbv	94
23) Vinyl Acetate	6.03	43	25151	0.06	ppbv #	91
24) 1,1-Dichloroethane	5.94	63	27340	0.09	ppbv	99
25) Ethyl Acetate	6.70	43	13234	0.03	ppbv #	74
26) Hexane	6.69	57	17002	0.09	ppbv #	86
27) Carbon Disulfide	5.43	76	34154	0.09	ppbv #	64
28) Methyl tert-Butyl Ether	6.03	73	22822	0.05	ppbv	99
29) Chloroform	6.78	83	33068	0.08	ppbv	93
30) Cyclohexane	8.34	84	20349	0.10	ppbv #	1
31) cis-1,2-Dichloroethene	6.55	61	13386	0.06	ppbv #	90
32) 1,1,1-Trichloroethane	7.63	97	29181	0.06	ppbv	97
34) 2-Butanone	6.27	43	25996	0.13	ppbv	97
35) Carbon Tetrachloride	8.20	117	28884	0.07	ppbv	89
36) Benzene	8.06	78	30544	0.08	ppbv	98
37) 1,2-Dichloroethane	7.40	62	21968	0.07	ppbv #	93
38) Trichloroethene	9.10	130	13876	0.08	ppbv	95
39) 1,2-Dichloropropane	8.85	63	13496	0.11	ppbv #	89
40) 1,4-Dioxane	9.29	88	763	0.03	ppbv #	1
41) Tetrahydrofuran	7.21	42	7176	0.08	ppbv #	88
42) Bromodichloromethane	9.06	83	27190	0.07	ppbv	99
43) Methyl Methacrylate	9.32	69	6504	0.05	ppbv	94

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Instrument :
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 ClientSampleId :
 VSTDIC0.1

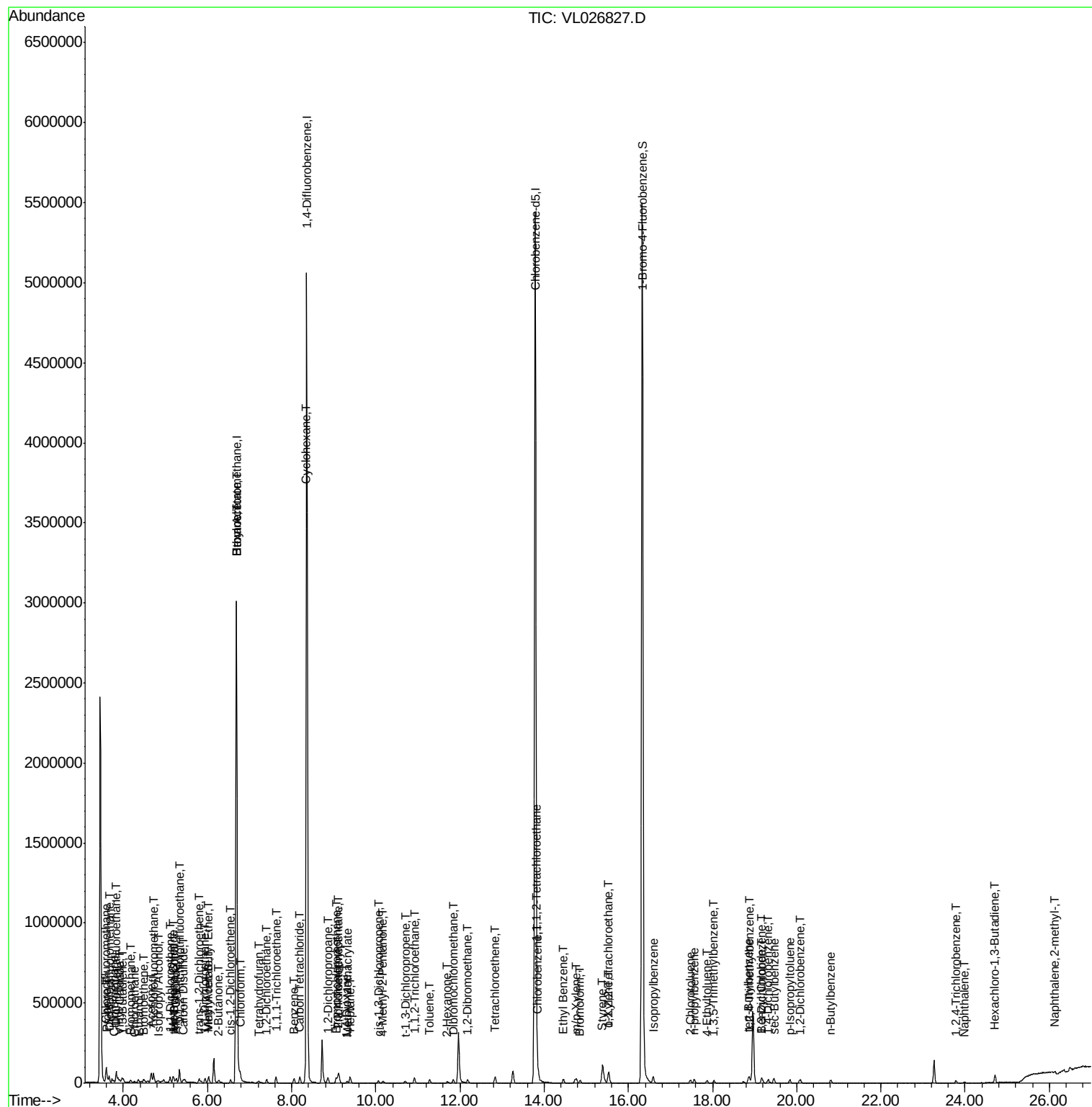
Quant Time: Feb 10 02:09:54 2016
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 02:03:34 2016
 QLast Update : Wed Feb 10 02:03:34 2016
 Response via : Initial Calibration

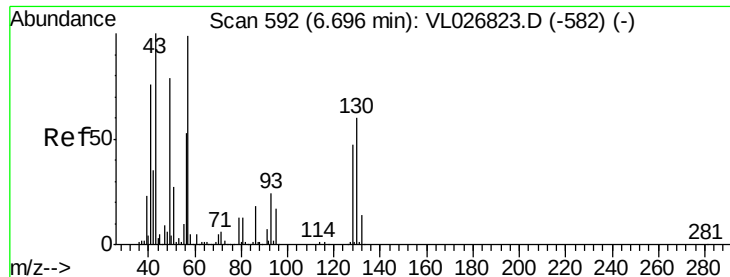
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.12	57	39820	0.07	ppbv #	82
45) t-1,3-Dichloropropene	10.69	75	8895	0.04	ppbv	96
46) cis-1,3-Dichloropropene	10.06	75	12043	0.05	ppbv #	85
47) 1,1,2-Trichloroethane	10.92	97	12912	0.07	ppbv #	82
48) Dibromochloromethane	11.84	129	17625	0.05	ppbv	98
49) Bromoform	14.85	173	5690	0.02	ppbv #	27
50) 4-Methyl-2-Pentanone	10.16	43	14331	0.05	ppbv	91
51) 2-Hexanone	11.71	43	7404	0.03	ppbv #	91
52) Tetrachloroethene	12.83	164	11755	0.06	ppbv #	90
53) Toluene	11.28	91	22764	0.04	ppbv	99
54) 1,2-Dibromoethane	12.19	107	18232	0.06	ppbv	85
56) 1,1,1,2-Tetrachloroethane	13.83	131	15978	0.07	ppbv #	1
57) Chlorobenzene	13.85	112	33322	0.08	ppbv	97
58) Ethyl Benzene	14.46	91	26326	0.04	ppbv	100
59) m/p-Xylene	14.76	91	17020	0.03	ppbv #	5
60) o-Xylene	15.54	91	31674	0.05	ppbv	96
61) Styrene	15.36	104	5600	0.02	ppbv #	65
62) Isopropylbenzene	16.59	105	35360	0.04	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.53	83	28696	0.07	ppbv	97
64) n-propylbenzene	17.56	120	3606	0.02	ppbv #	1
65) tert-Butylbenzene	18.85	119	22860	0.03	ppbv #	97
66) Benzyl Chloride	19.16	91	9344	0.03	ppbv #	86
67) sec-Butylbenzene	19.46	105	31753	0.03	ppbv	97
69) p-Isopropyltoluene	19.84	119	20290	0.02	ppbv	95
70) n-Butylbenzene	20.81	91	20243	0.02	ppbv	92
71) 2-Chlorotoluene	17.47	91	18776	0.03	ppbv	99
72) 4-Ethyltoluene	17.87	105	16942	0.02	ppbv	96
73) 1,3,5-Trimethylbenzene	18.04	105	17054	0.02	ppbv	99
74) 1,2,4-Trimethylbenzene	18.88	105	20153	0.03	ppbv #	88
75) 1,3-Dichlorobenzene	19.17	146	21524	0.04	ppbv	97
76) 1,4-Dichlorobenzene	19.33	146	18152	0.03	ppbv	96
77) 1,2-Dichlorobenzene	20.08	146	18010	0.03	ppbv	99
78) Hexachloro-1,3-Butadiene	24.71	225	12871	0.05	ppbv	99
79) Naphthalene	23.99	128	10762	0.02	ppbv #	85
80) Naphthalene,2-methyl-	26.12	142	7240	0.06	ppbv #	77
81) 1,2,4-Trichlorobenzene	23.78	180	7842	0.03	ppbv	93

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

Instrument :
MSVOA_L
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VSTDICC0.1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 02:03:34 2016
QLast Update : Wed Feb 10 02:03:34 2016
Response via : Initial Calibration

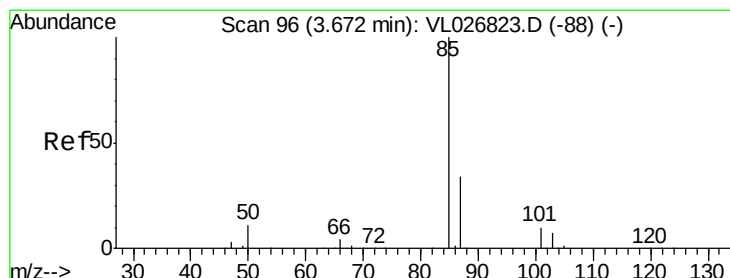
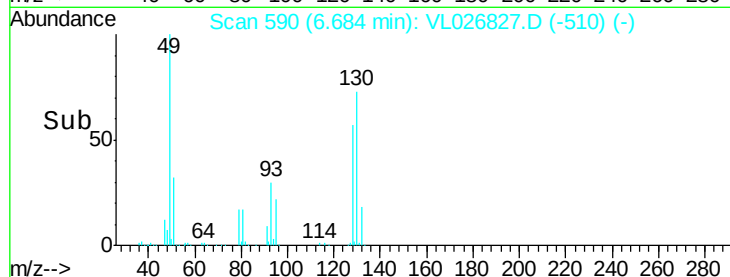
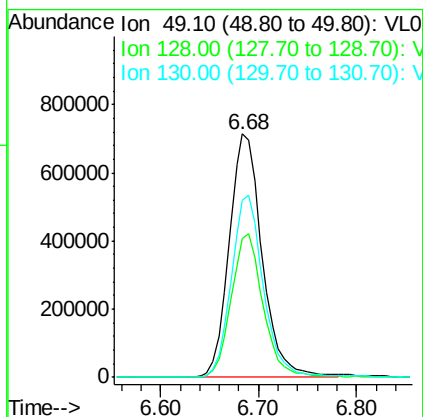
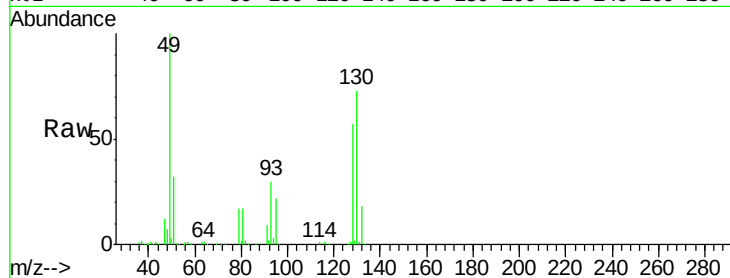




#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.68 min Scan# 590
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

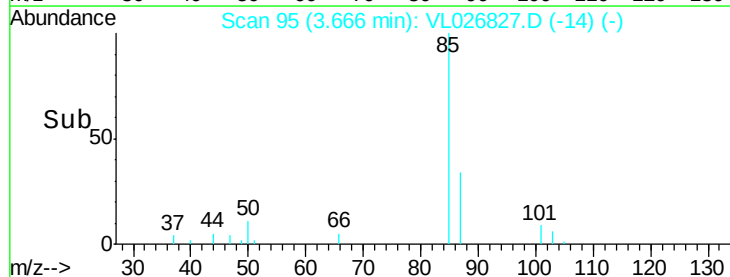
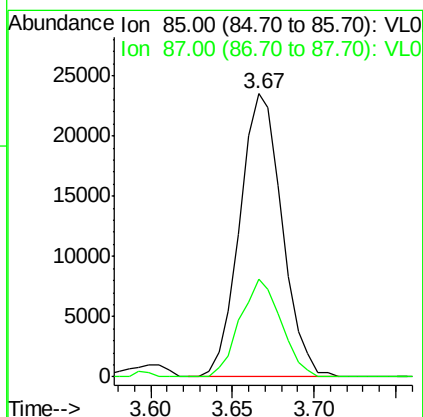
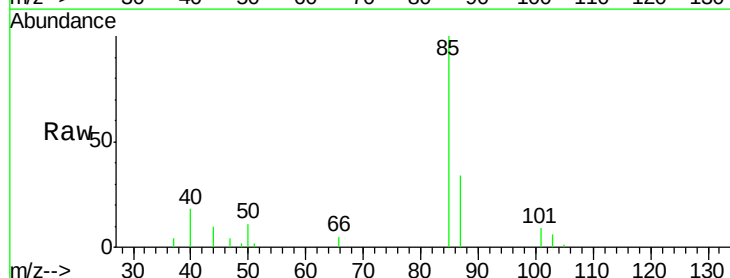
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

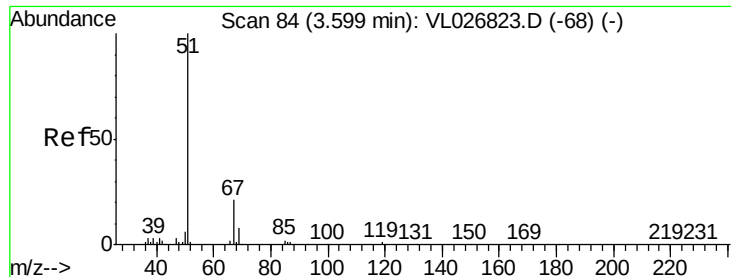
Tgt Ion: 49 Resp: 1668236
 Ion Ratio Lower Upper
 49 100
 128 57.8 29.7 89.1
 130 73.9 38.3 114.8



#2
 Dichlorodifluoromethane
 Concen: 0.08 ppbv
 RT: 3.67 min Scan# 95
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion: 85 Resp: 42567
 Ion Ratio Lower Upper
 85 100
 87 34.4 27.3 40.9





#3

Chlorodifluoromethane

Concen: 0.28 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

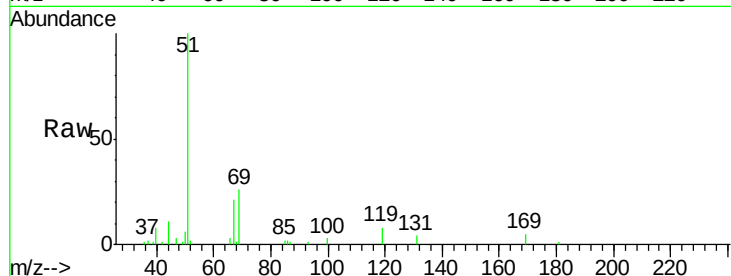
VSTDIC0.1

Tgt Ion: 51 Resp: 90070

Ion Ratio Lower Upper

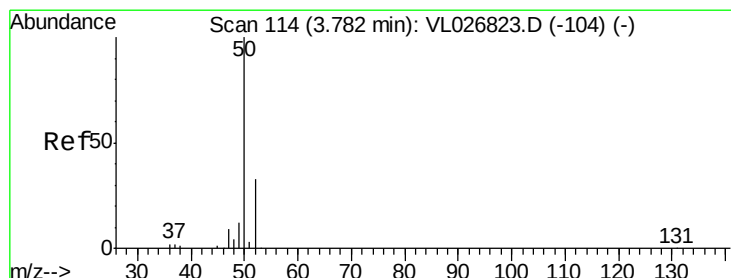
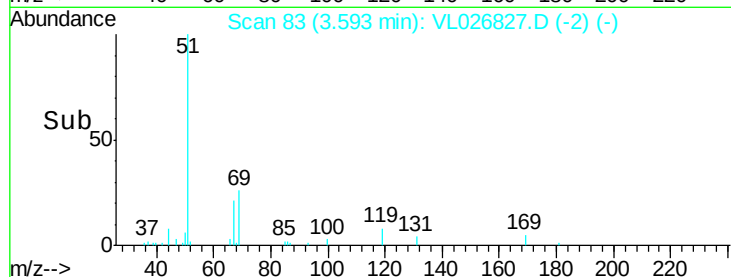
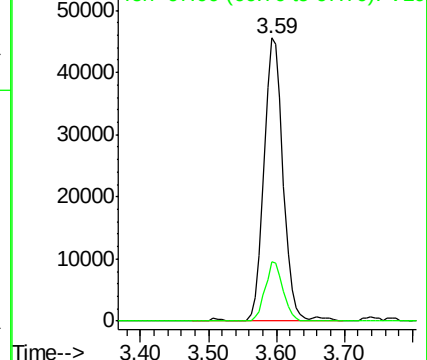
51 100

67 19.6 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL026827.D

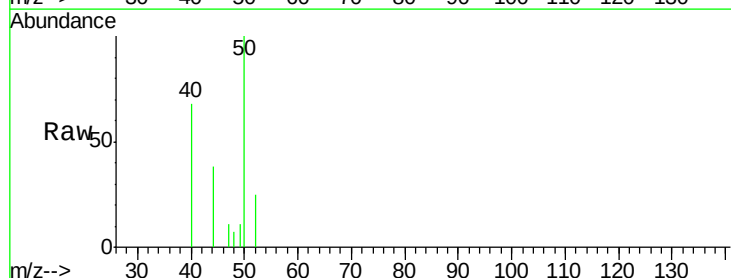
Acq: 9 Feb 2016 19:29

Tgt Ion: 50 Resp: 12418

Ion Ratio Lower Upper

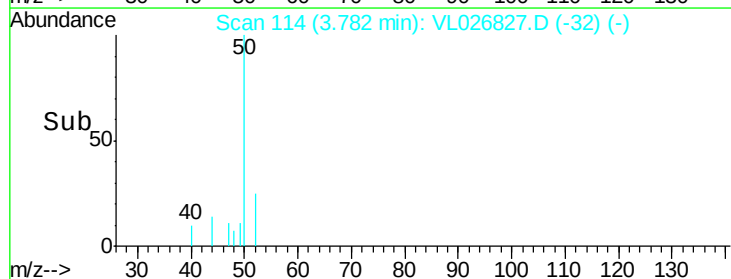
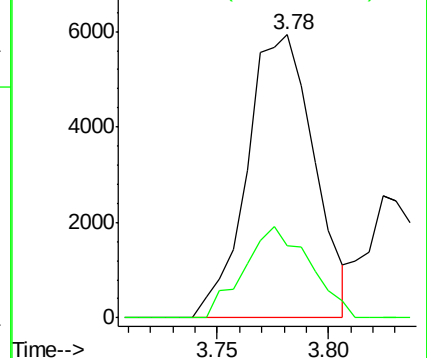
50 100

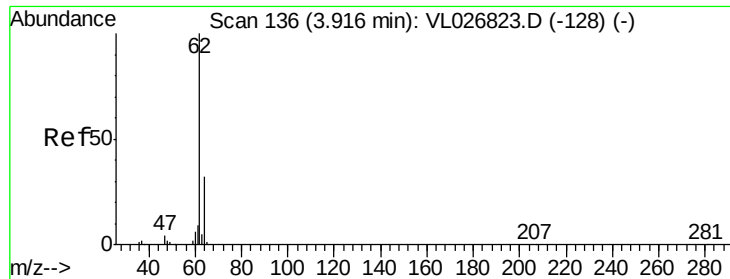
52 25.3 26.3 39.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.11 ppbv

RT: 3.92 min Scan# 136

Delta R.T. -0.00 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

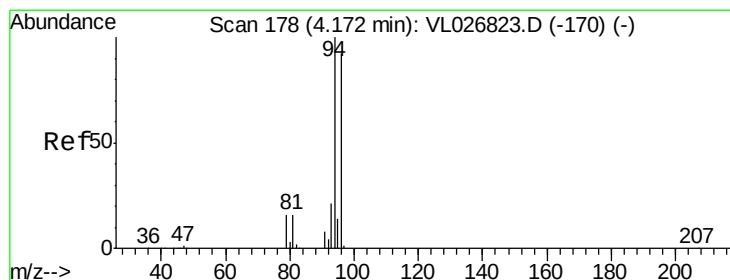
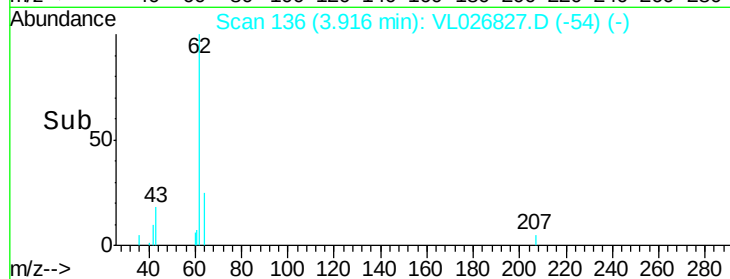
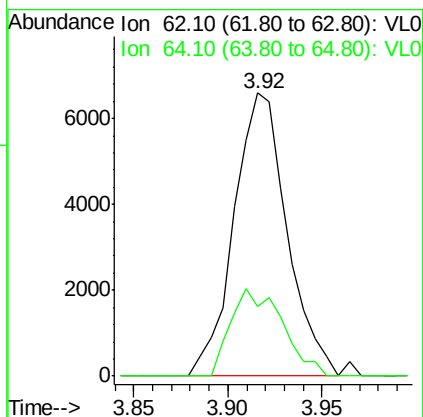
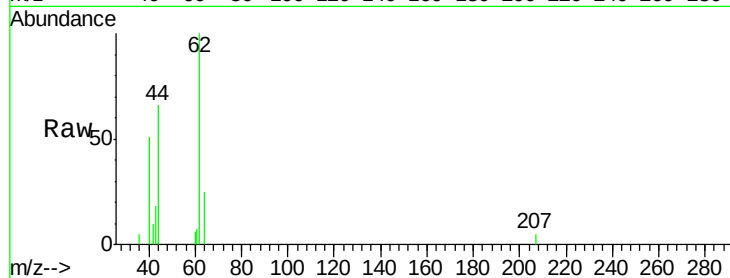
VSTDIC0.1

Tgt Ion: 62 Resp: 12874

Ion Ratio Lower Upper

62 100

64 24.6 25.8 38.6#



#6

Bromomethane

Concen: 0.10 ppbv

RT: 4.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VL026827.D

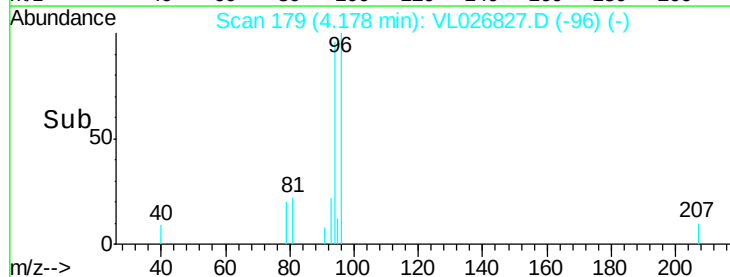
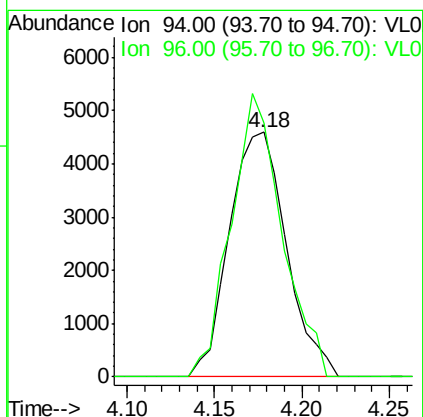
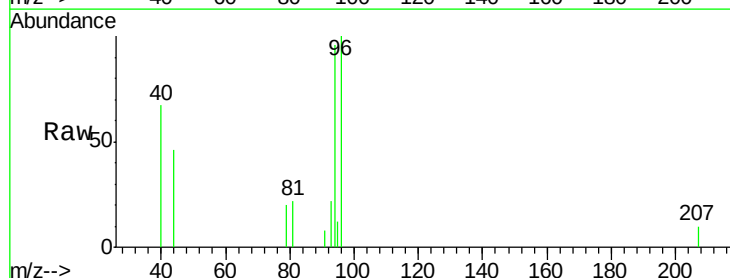
Acq: 9 Feb 2016 19:29

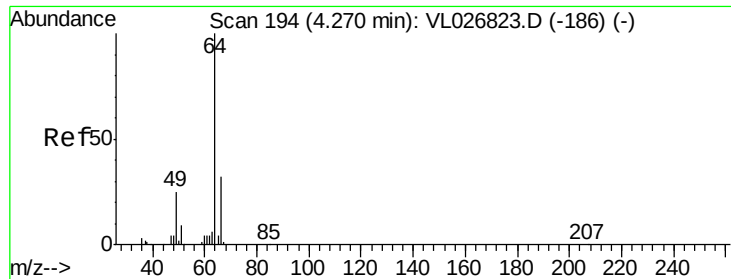
Tgt Ion: 94 Resp: 10496

Ion Ratio Lower Upper

94 100

96 103.6 73.2 109.8





#7

Chloroethane

Concen: 0.11 ppbv

RT: 4.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

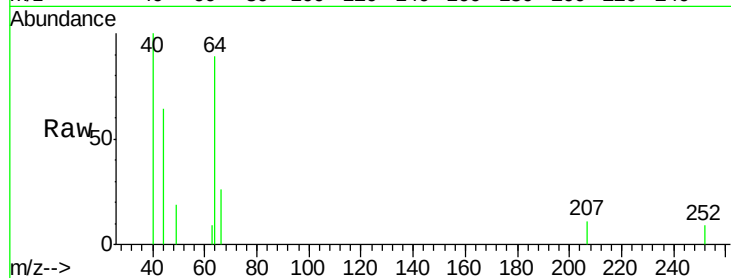
VSTDIC0.1

Tgt Ion: 64 Resp: 5955

Ion Ratio Lower Upper

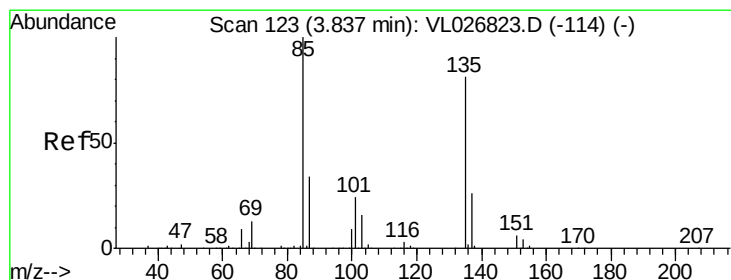
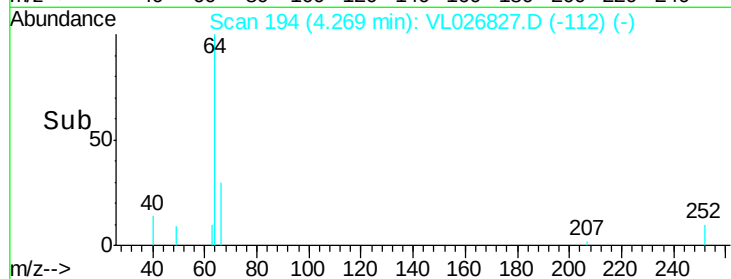
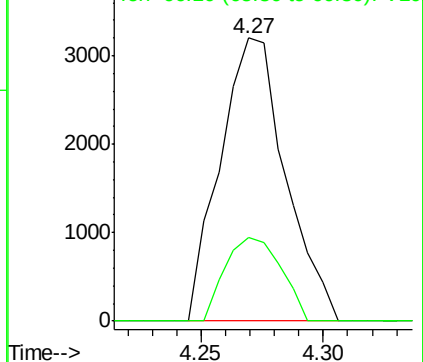
64 100

66 29.6 25.4 38.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.10 ppbv

RT: 3.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL026827.D

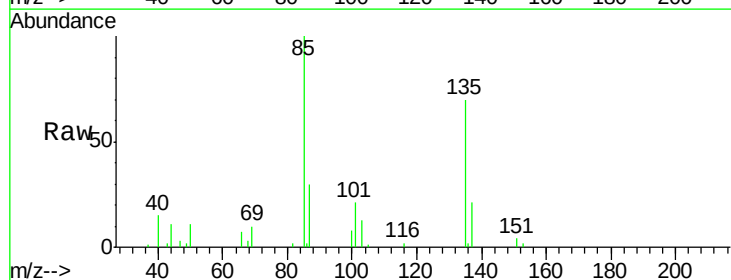
Acq: 9 Feb 2016 19:29

Tgt Ion: 85 Resp: 37190

Ion Ratio Lower Upper

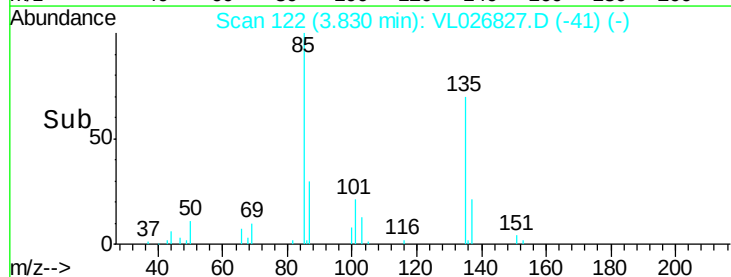
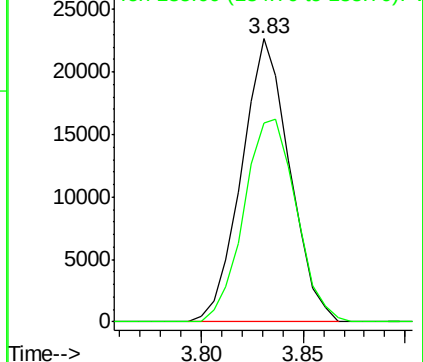
85 100

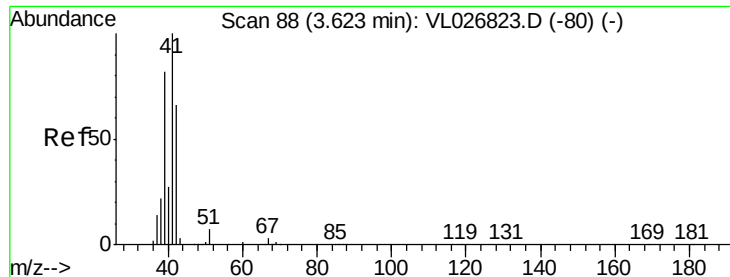
135 77.8 63.2 94.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.13 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

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MSVOA_L

ClientSampleId :

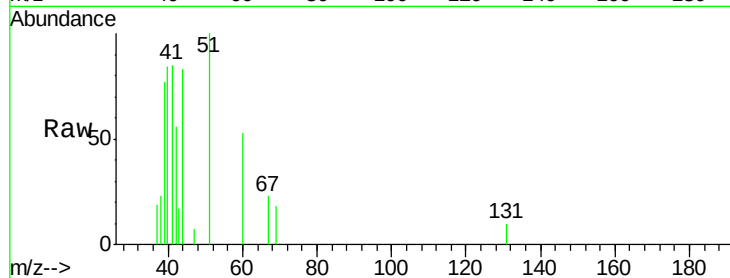
VSTDIC0.1

Tgt Ion: 41 Resp: 8850

Ion Ratio Lower Upper

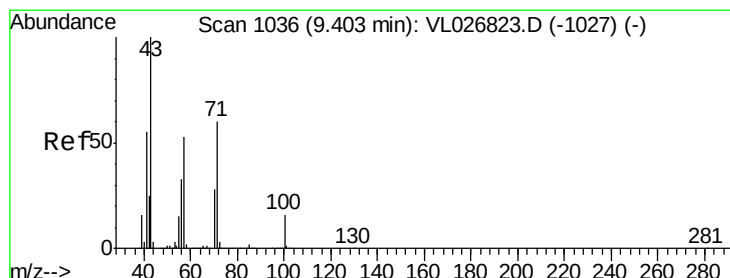
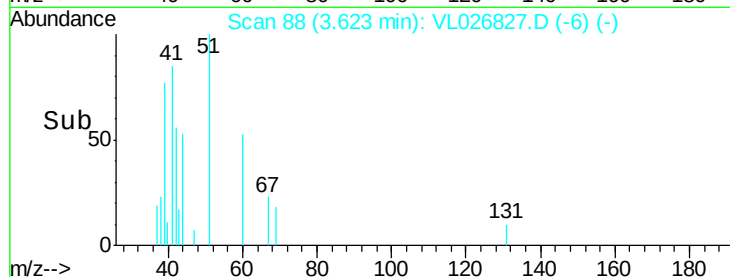
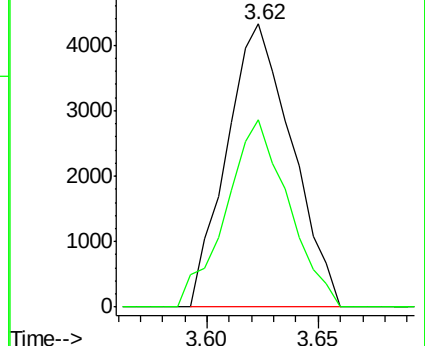
41 100

42 63.2 52.8 79.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.06 ppbv

RT: 9.40 min Scan# 1035

Delta R.T. -0.01 min

Lab File: VL026827.D

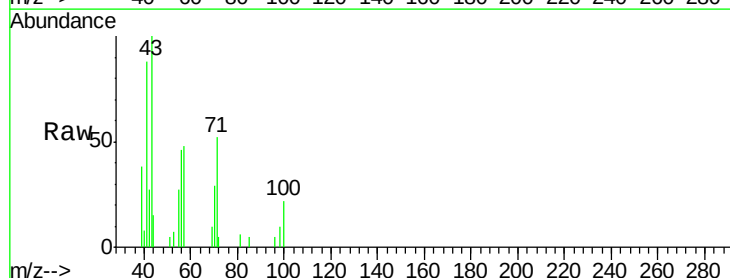
Acq: 9 Feb 2016 19:29

Tgt Ion: 43 Resp: 14909

Ion Ratio Lower Upper

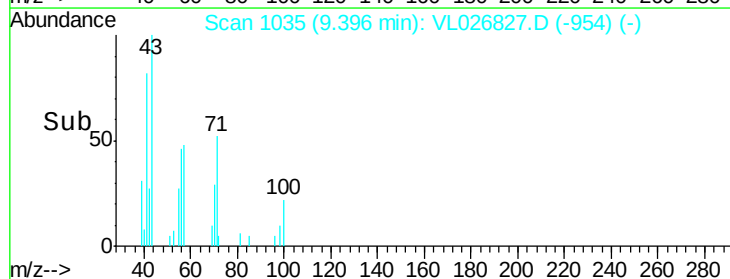
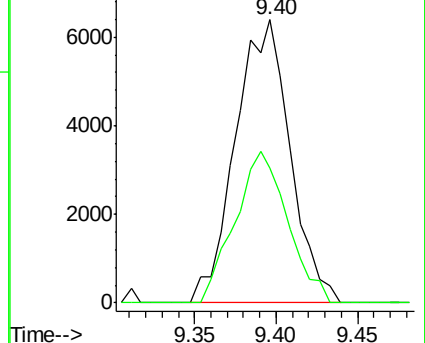
43 100

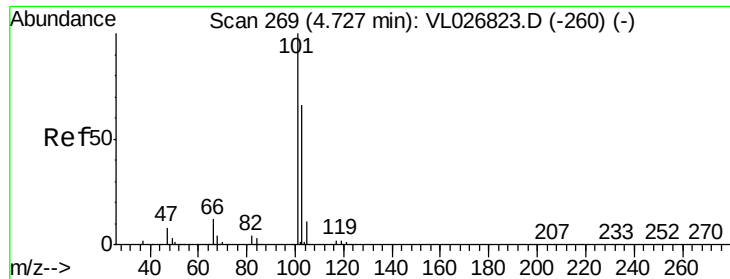
57 51.7 44.0 66.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

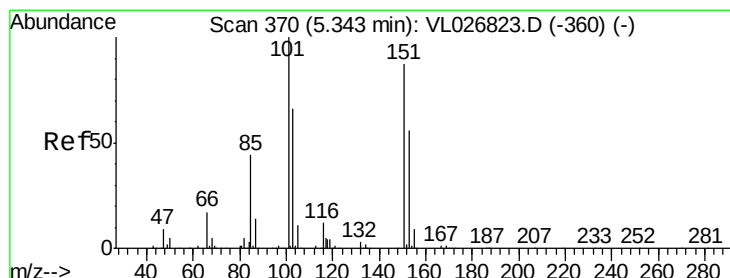
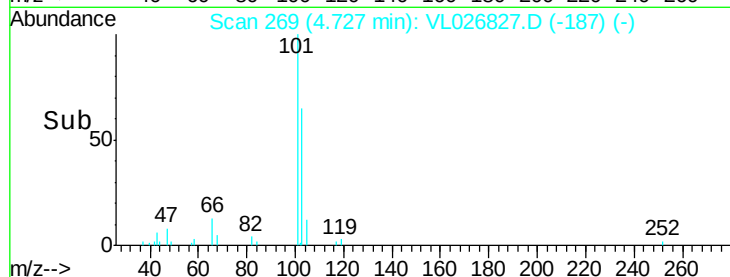
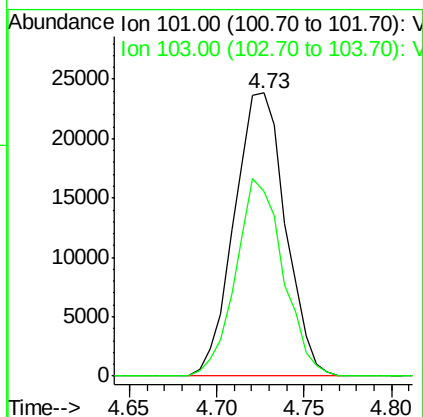
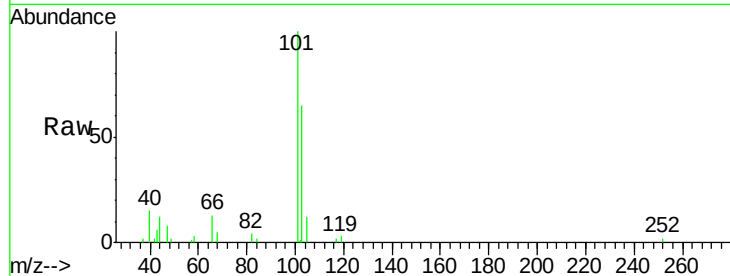




#11
 Trichlorofluoromethane
 Concen: 0.08 ppbv
 RT: 4.73 min Scan# 269
 Delta R.T. -0.00 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

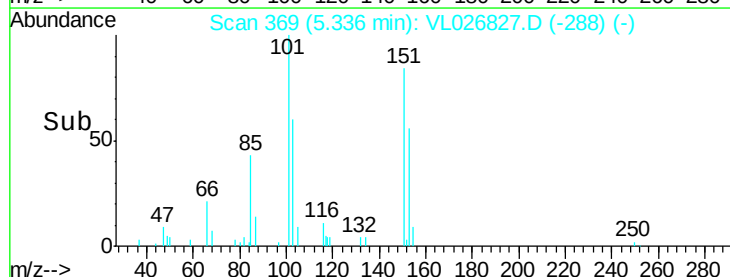
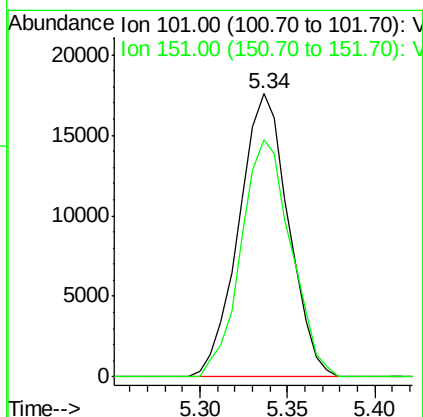
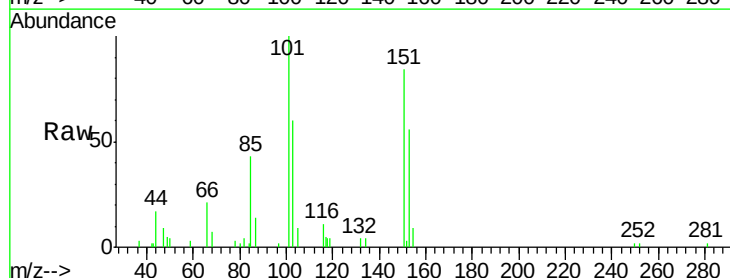
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

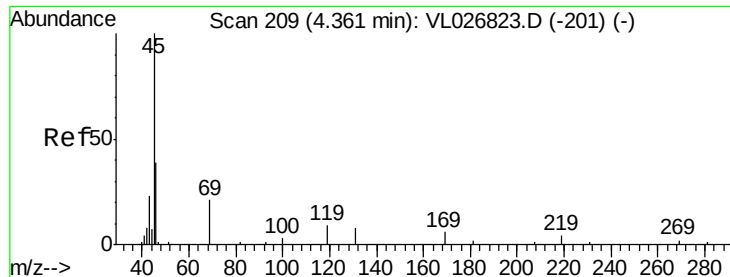
Tgt Ion:101 Resp: 48532
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.10 ppbv
 RT: 5.34 min Scan# 369
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion:101 Resp: 34711
 Ion Ratio Lower Upper
 101 100
 151 84.4 69.4 104.0





#13

Ethanol

Concen: 0.02 ppbv

RT: 4.37 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

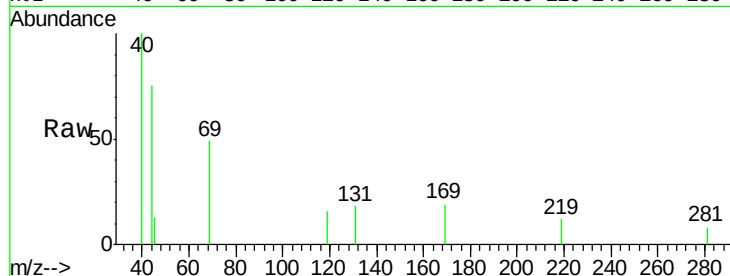
VSTDIC0.1

Tgt Ion: 45 Resp: 320

Ion Ratio Lower Upper

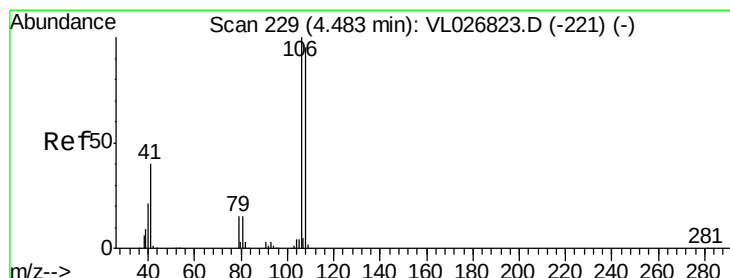
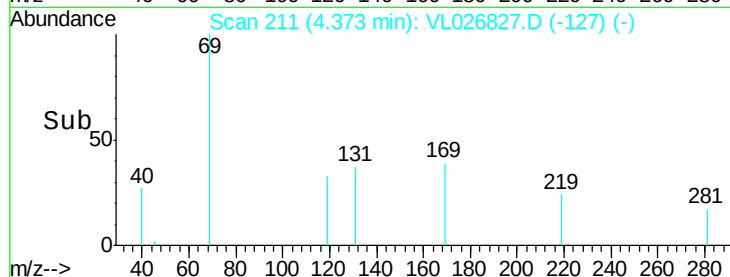
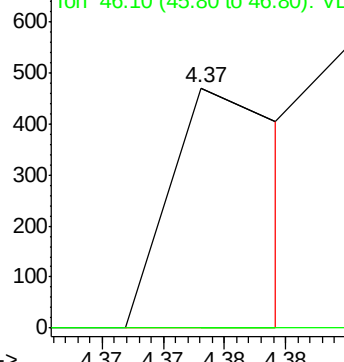
45 100

46 0.0 15.8 63.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.10 ppbv

RT: 4.48 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

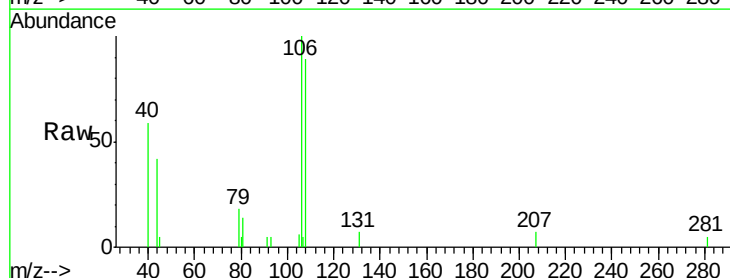
Tgt Ion: 108 Resp: 11239

Ion Ratio Lower Upper

108 100

106 111.8 84.6 126.8

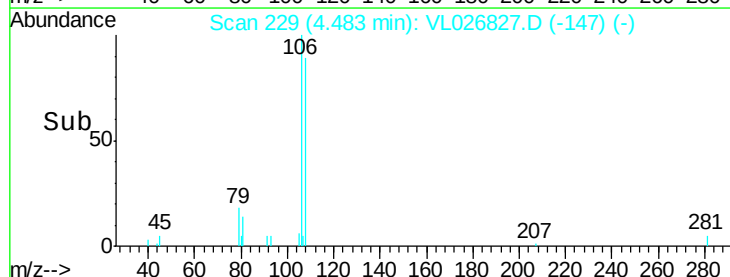
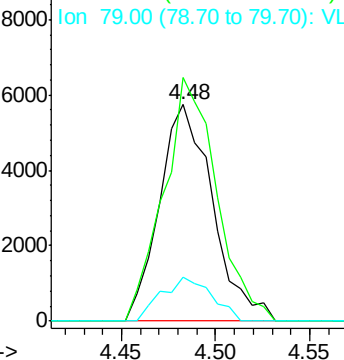
79 19.1 13.4 20.0

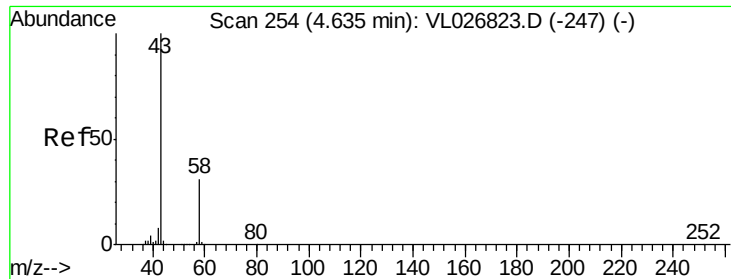


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.13 ppbv

RT: 4.67 min Scan# 259

Delta R.T. 0.03 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

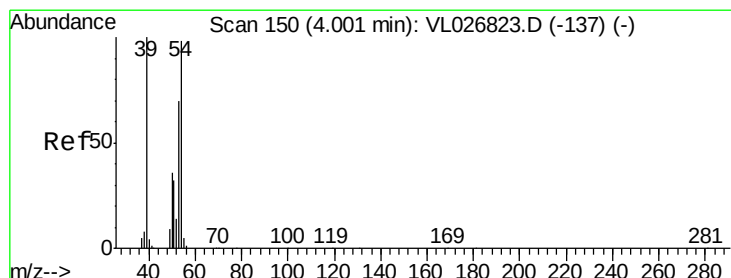
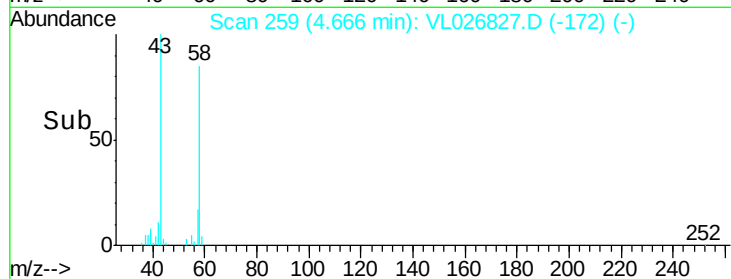
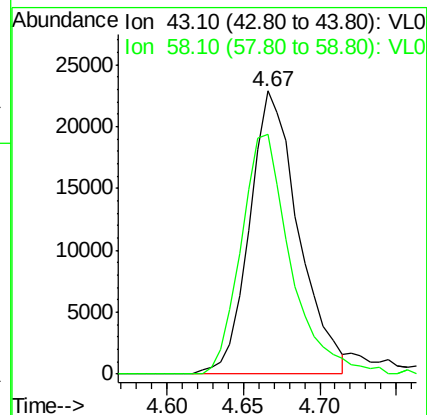
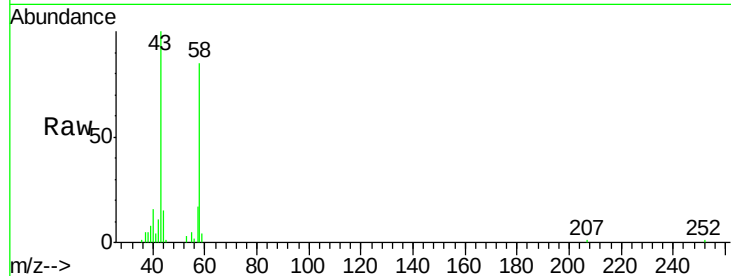
VSTDIC0.1

Tgt Ion: 43 Resp: 51087

Ion Ratio Lower Upper

43 100

58 85.8 25.2 37.8#



#16

1,3-Butadiene

Concen: 0.11 ppbv

RT: 3.99 min Scan# 148

Delta R.T. -0.01 min

Lab File: VL026827.D

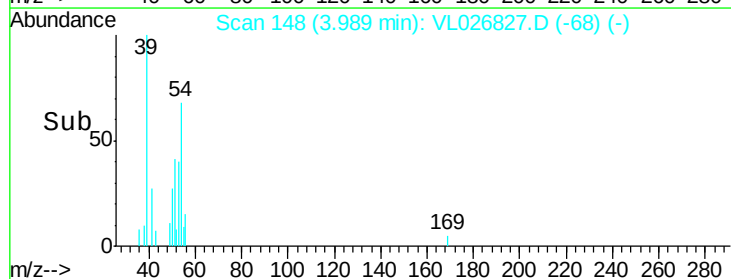
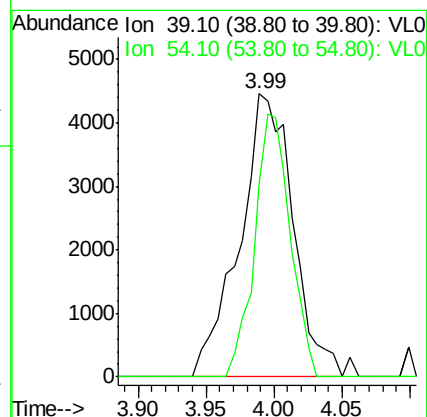
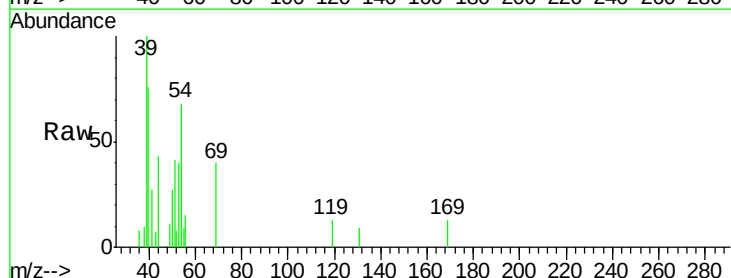
Acq: 9 Feb 2016 19:29

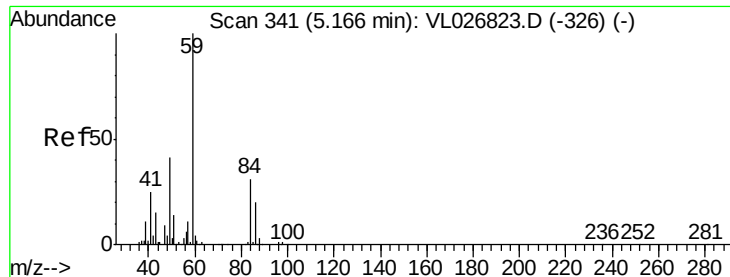
Tgt Ion: 39 Resp: 12264

Ion Ratio Lower Upper

39 100

54 61.9 74.7 112.1#





#17

tert-Butyl alcohol

Concen: 0.07 ppbv

RT: 5.21 min Scan# 348

Delta R.T. 0.04 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

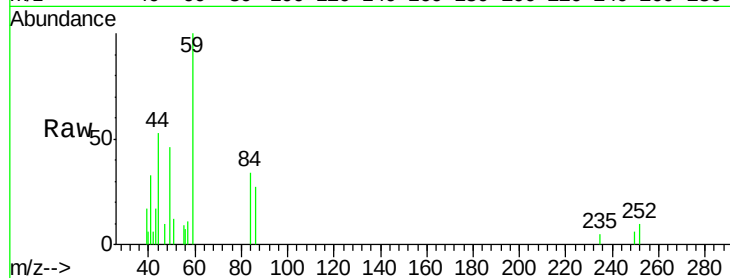
VSTDIC0.1

Tgt Ion: 59 Resp: 14927

Ion Ratio Lower Upper

59 100

57 9.2 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5.21

6000

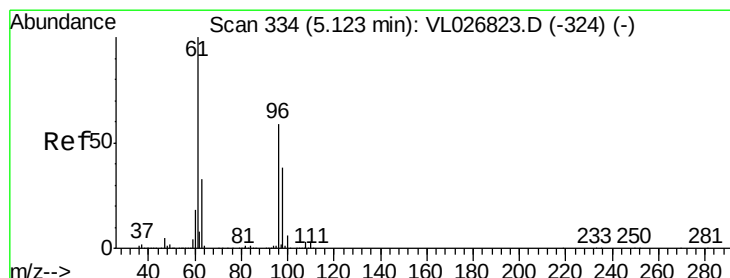
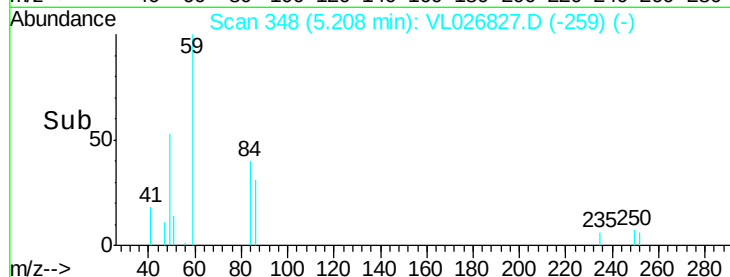
4000

2000

0

Time-->

5.15 5.20 5.25 5.30



#18

1,1-Dichloroethene

Concen: 0.10 ppbv

RT: 5.12 min Scan# 333

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

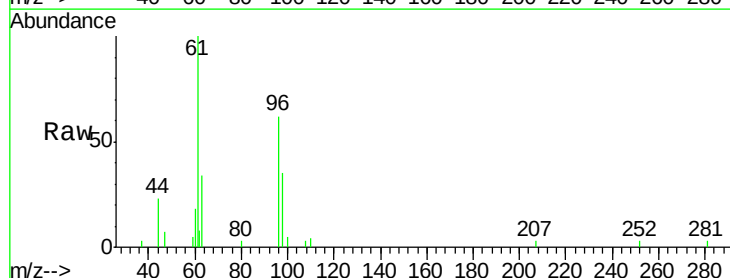
Tgt Ion: 96 Resp: 13366

Ion Ratio Lower Upper

96 100

61 161.7 136.7 205.1

98 56.8 52.1 78.1



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

15000

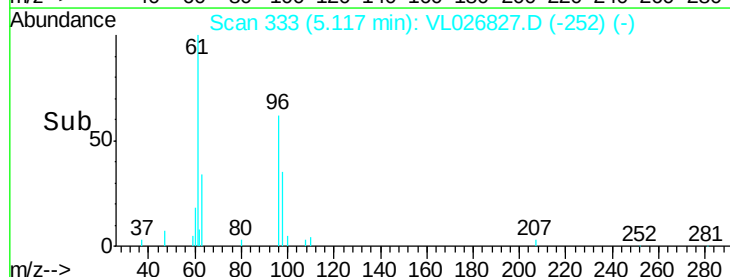
10000

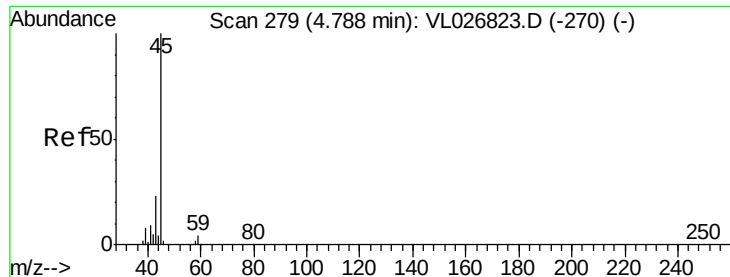
5000

0

Time-->

5.05 5.10 5.15





#19

Isopropyl Alcohol

Concen: 0.09 ppbv

RT: 4.83 min Scan# 286

Delta R.T. 0.04 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

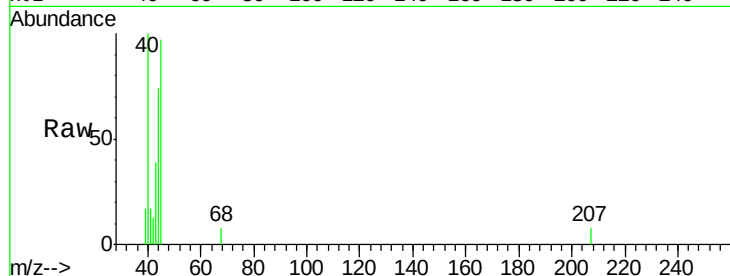
VSTDIC0.1

Tgt Ion: 45 Resp: 9745

Ion Ratio Lower Upper

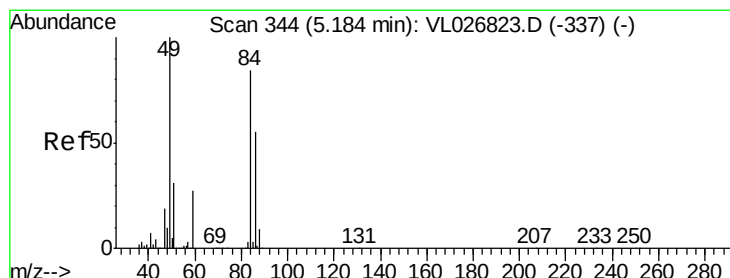
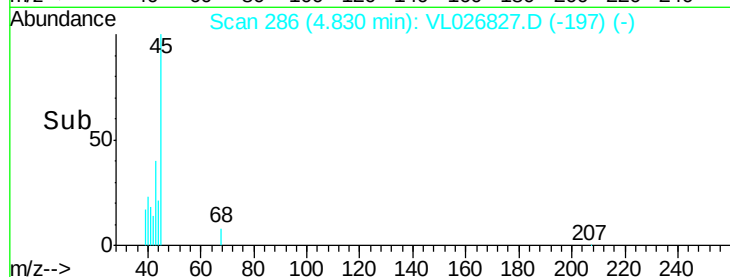
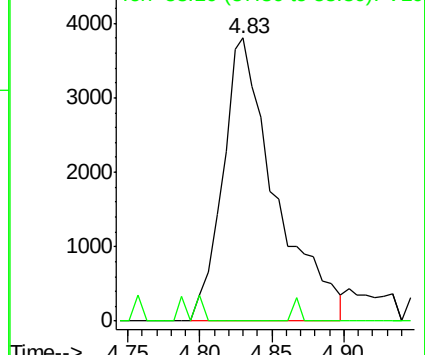
45 100

58 0.0 2.2 3.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.16 ppbv

RT: 5.18 min Scan# 343

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Tgt Ion: 84 Resp: 20853

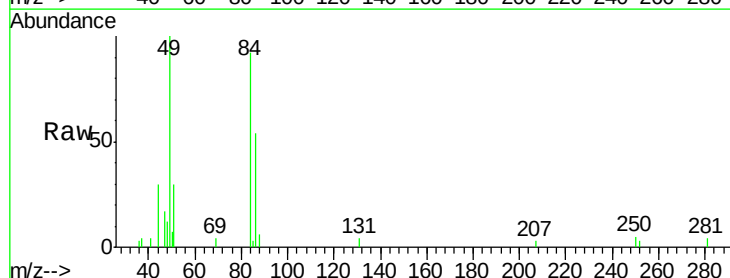
Ion Ratio Lower Upper

84 100

49 103.0 94.9 142.3

51 32.8 29.5 44.3

86 57.9 51.9 77.9

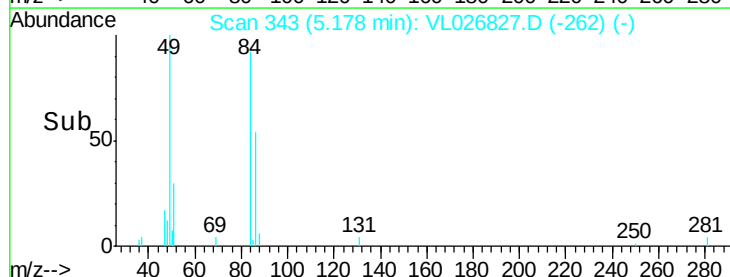
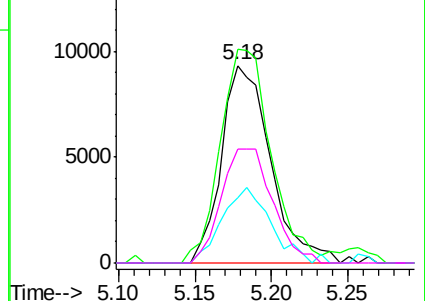


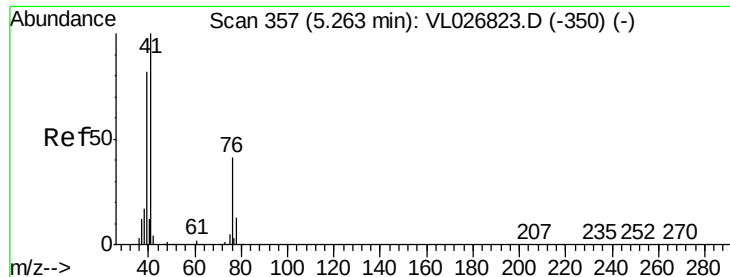
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allyl Chloride

Concen: 0.09 ppbv

RT: 5.26 min Scan# 356

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

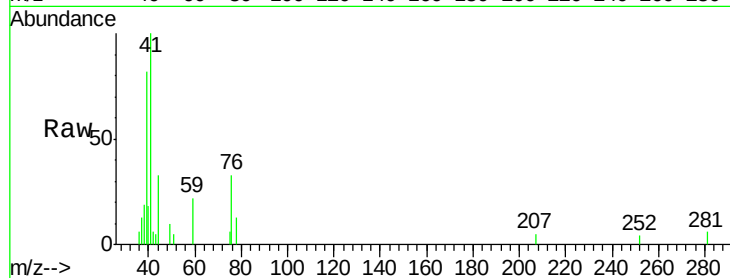
Tgt Ion: 41 Resp: 15201

Ion Ratio Lower Upper

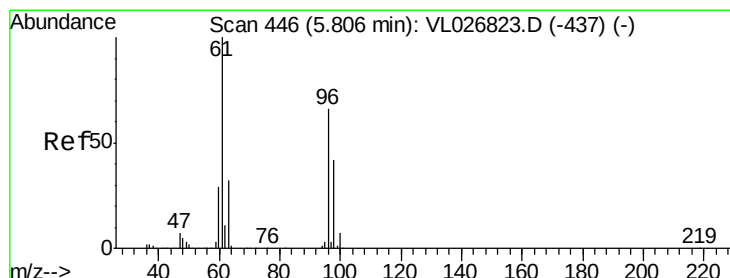
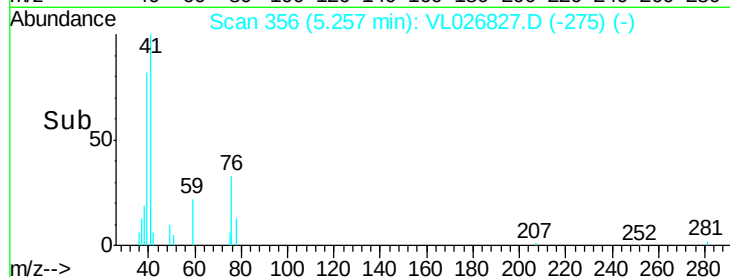
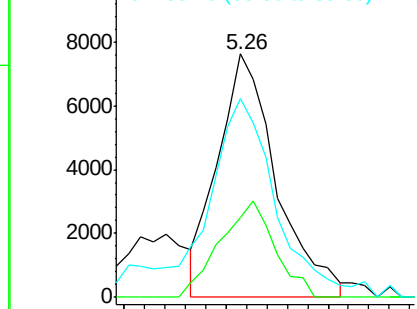
41 100

76 36.8 32.0 48.0

39 103.2 64.6 96.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.09 ppbv

RT: 5.80 min Scan# 445

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

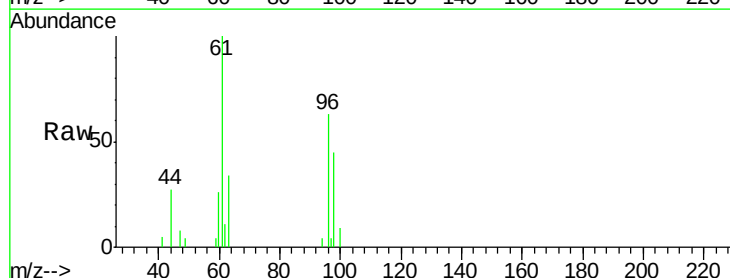
Tgt Ion: 96 Resp: 11621

Ion Ratio Lower Upper

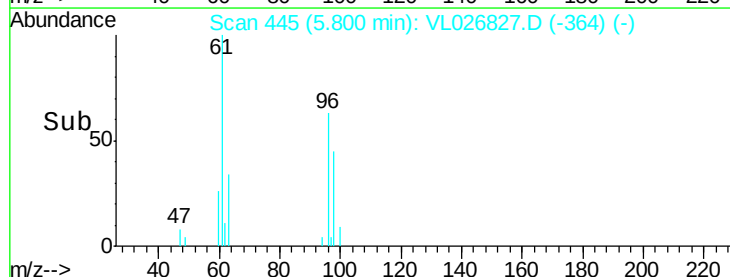
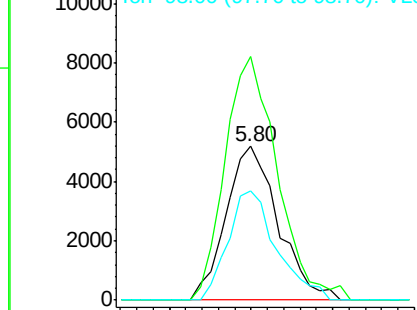
96 100

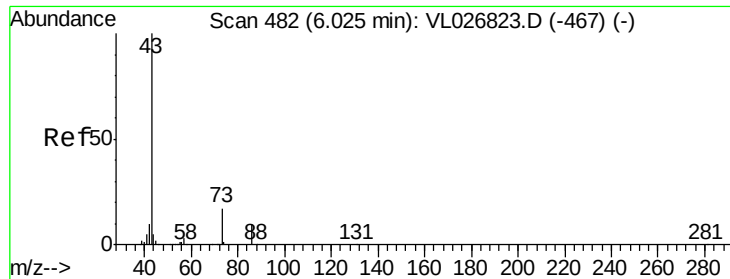
61 158.4 121.6 182.4

98 71.1 50.6 76.0



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

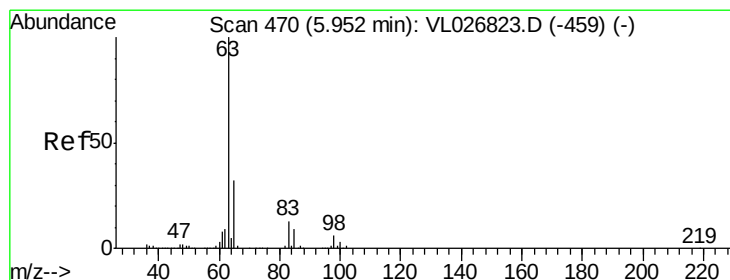
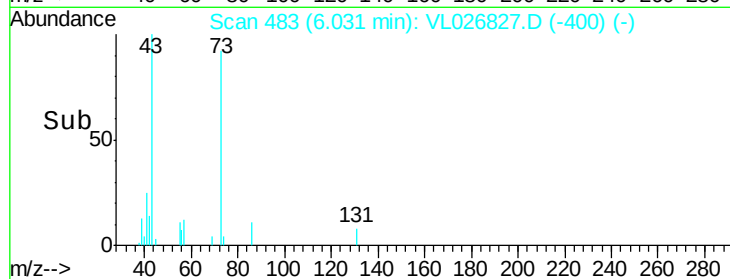
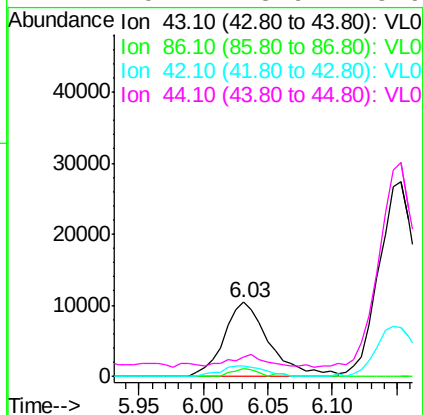
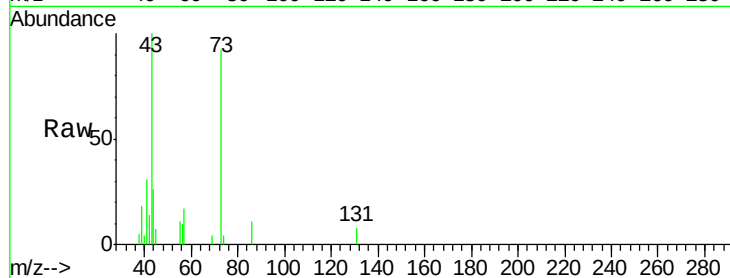




#23
 Vinyl Acetate
 Concen: 0.06 ppbv
 RT: 6.03 min Scan# 483
 Delta R.T. 0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

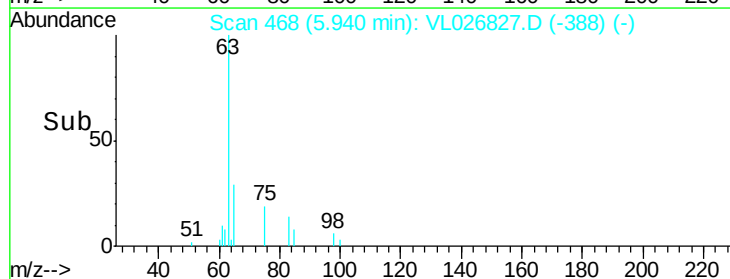
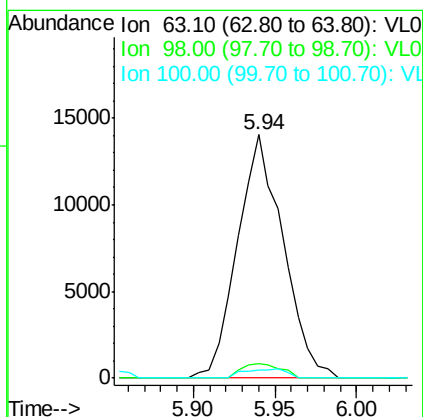
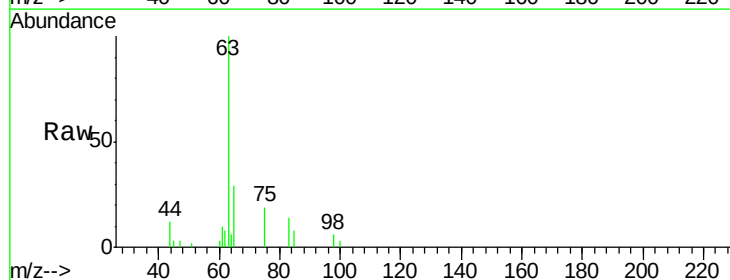
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

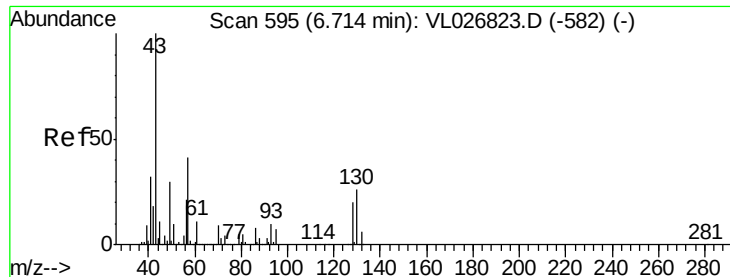
Tgt Ion:	43	Resp:	25151
Ion	Ratio	Lower	Upper
43	100		
86	10.8	7.7	11.5
42	14.1	7.8	11.8#
44	9.1	3.9	5.9#



#24
 1,1-Dichloroethane
 Concen: 0.09 ppbv
 RT: 5.94 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion:	63	Resp:	27340
Ion	Ratio	Lower	Upper
63	100		
98	6.2	2.9	8.7
100	3.1	1.7	5.1

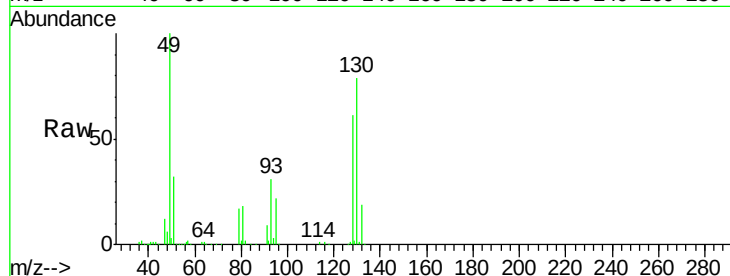




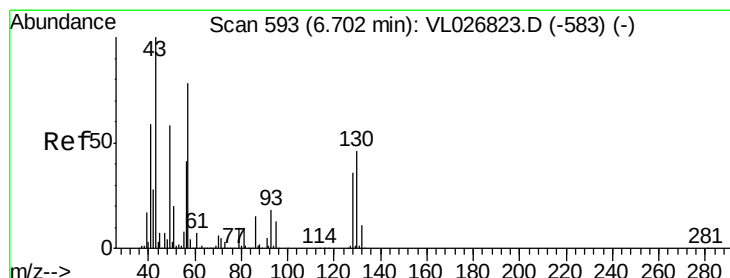
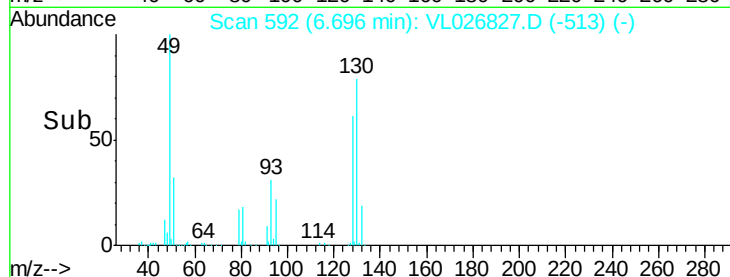
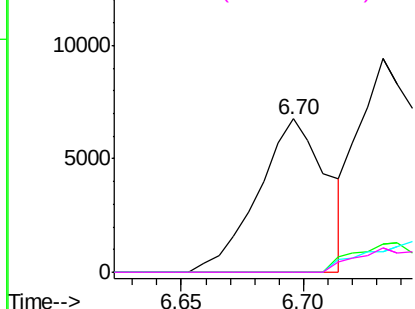
#25
Ethyl Acetate
Concen: 0.03 ppbv
RT: 6.70 min Scan# 592
Delta R.T. -0.02 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion:	43	Resp:	13234
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.0	7.9	11.9#
70	0.0	6.9	10.3#

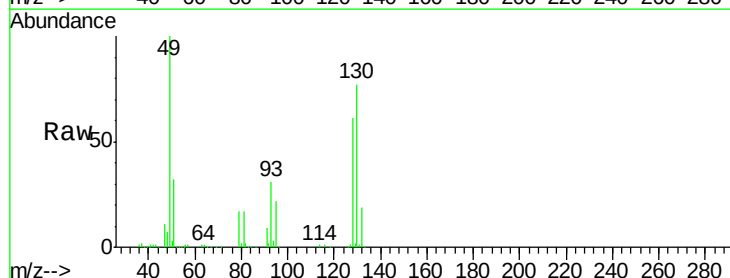


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

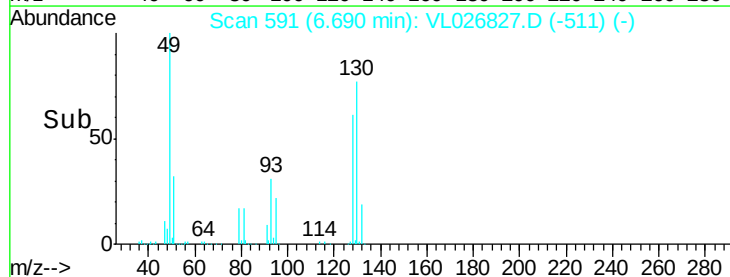
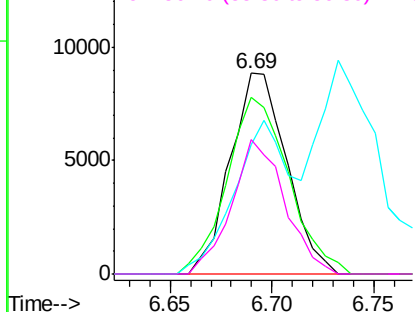


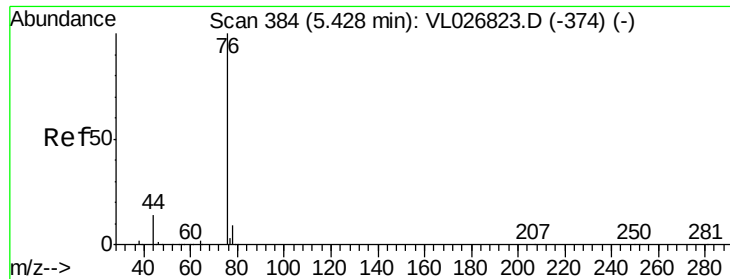
#26
Hexane
Concen: 0.09 ppbv
RT: 6.69 min Scan# 591
Delta R.T. -0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

Tgt Ion:	57	Resp:	17002
Ion	Ratio	Lower	Upper
57	100		
41	96.9	63.3	94.9#
43	204.5	151.4	227.2
56	63.1	42.2	63.2



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: 0.09 ppbv

RT: 5.43 min Scan# 384

Delta R.T. -0.00 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

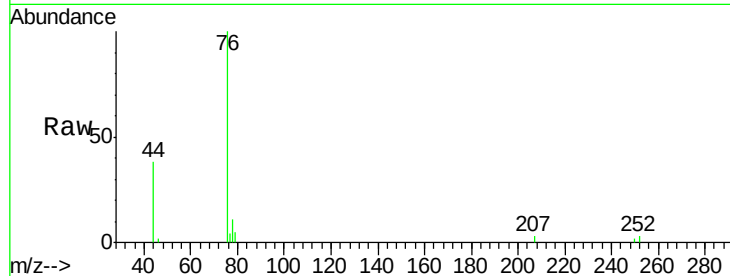
Tgt Ion: 76 Resp: 34154

Ion Ratio Lower Upper

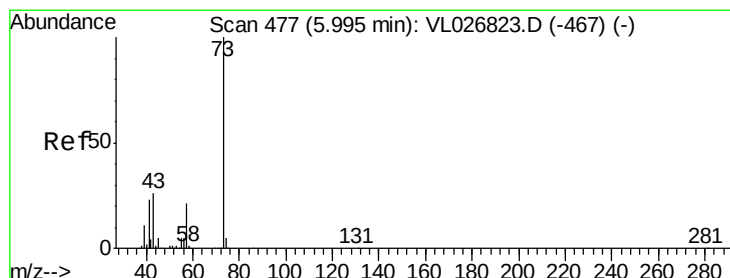
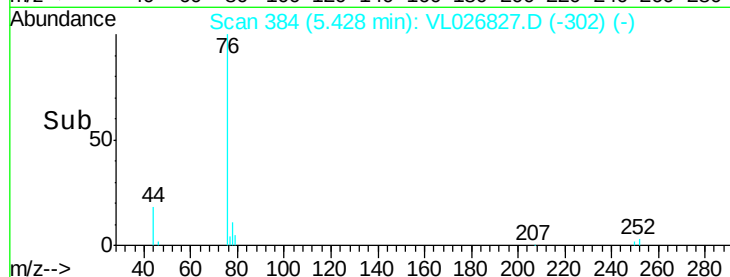
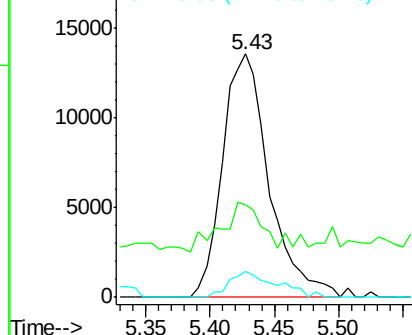
76 100

44 38.6 12.1 18.1#

78 10.7 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.05 ppbv

RT: 6.03 min Scan# 482

Delta R.T. 0.03 min

Lab File: VL026827.D

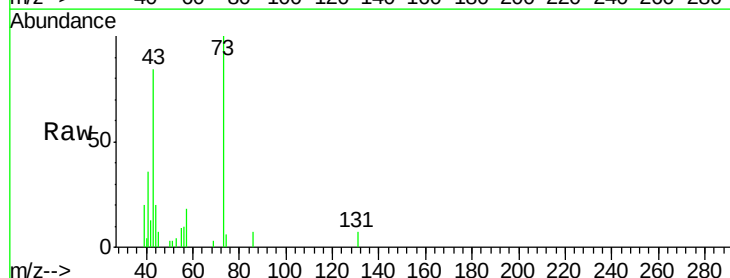
Acq: 9 Feb 2016 19:29

Tgt Ion: 73 Resp: 22822

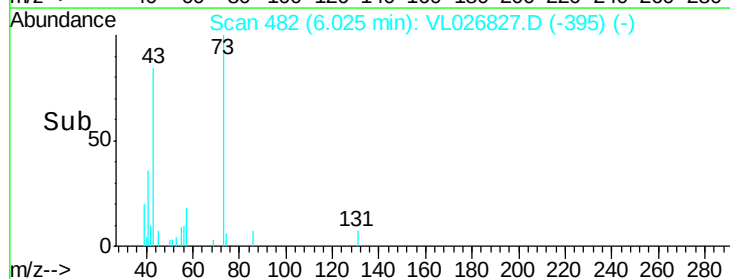
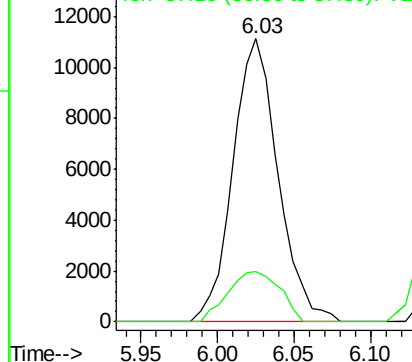
Ion Ratio Lower Upper

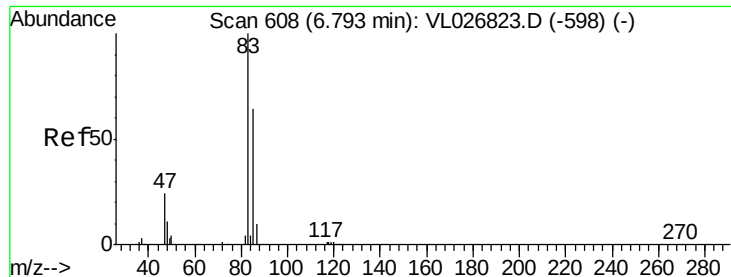
73 100

57 20.6 17.0 25.6



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.08 ppbv

RT: 6.78 min Scan# 605

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

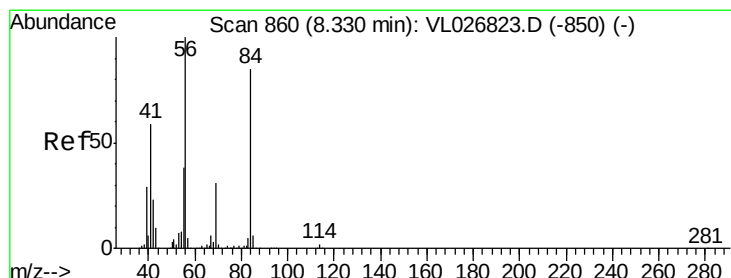
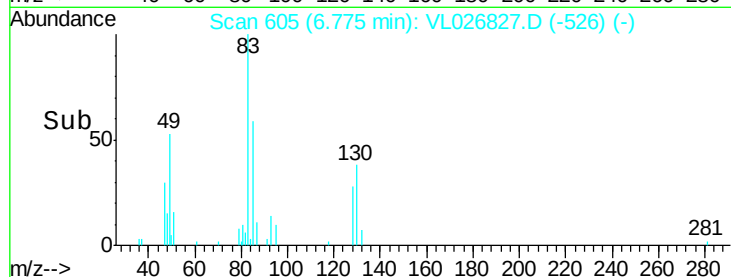
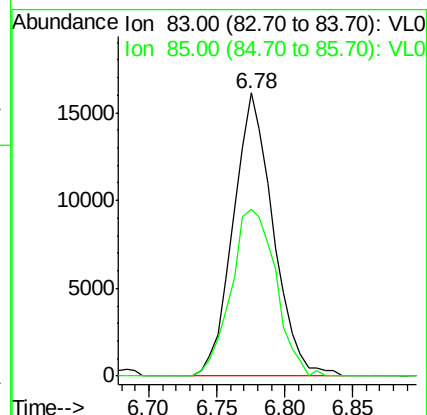
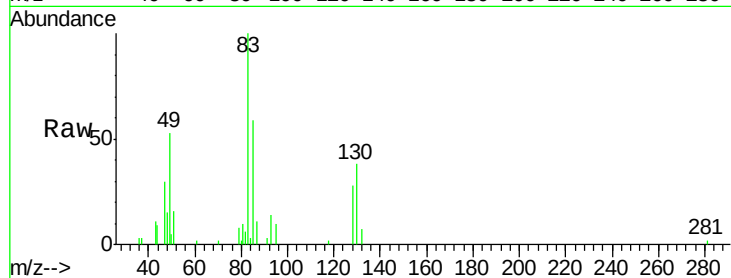
VSTDIC0.1

Tgt Ion: 83 Resp: 33068

Ion Ratio Lower Upper

83 100

85 58.9 51.5 77.3



#30

Cyclohexane

Concen: 0.10 ppbv

RT: 8.34 min Scan# 862

Delta R.T. 0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

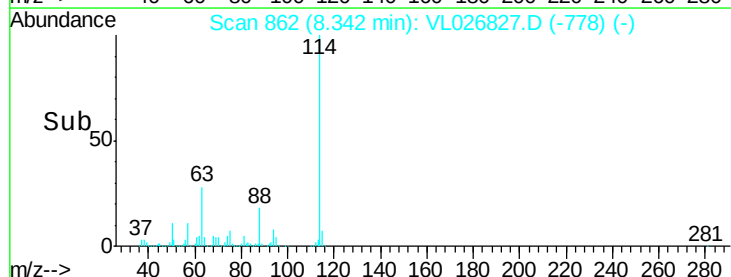
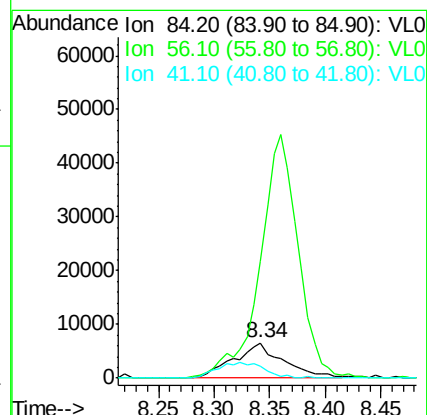
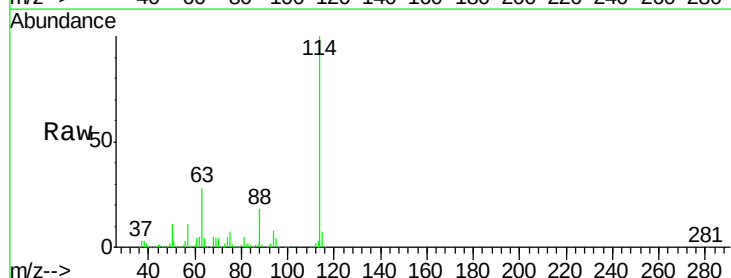
Tgt Ion: 84 Resp: 20349

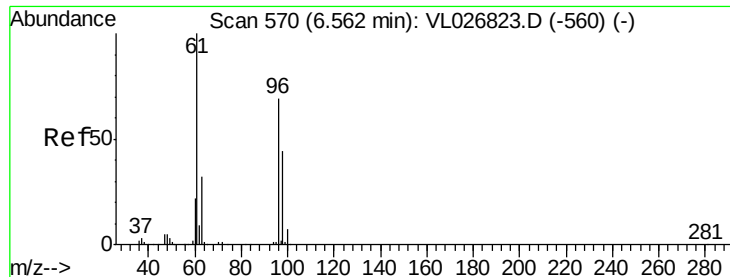
Ion Ratio Lower Upper

84 100

56 533.1 99.4 149.2#

41 42.3 56.7 85.1#





#31

cis-1,2-Dichloroethene

Concen: 0.06 ppbv

RT: 6.55 min Scan# 568

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

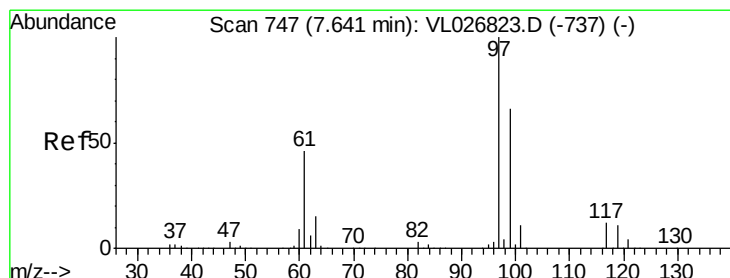
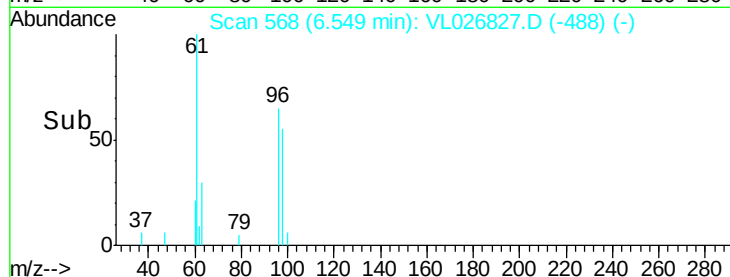
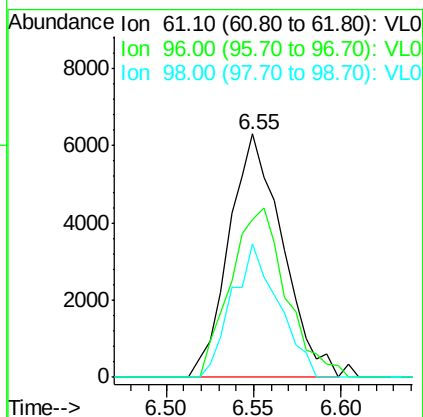
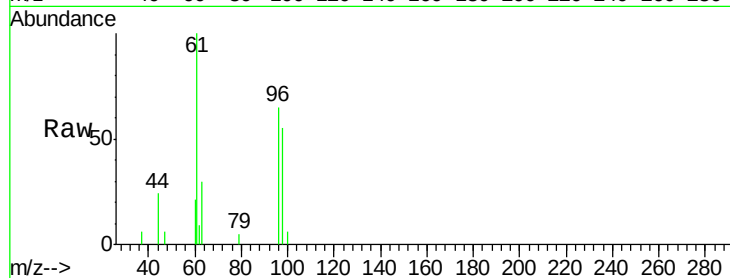
Tgt Ion: 61 Resp: 13386

Ion Ratio Lower Upper

61 100

96 64.9 55.2 82.8

98 54.9 35.2 52.8#



#32

1,1,1-Trichloroethane

Concen: 0.06 ppbv

RT: 7.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

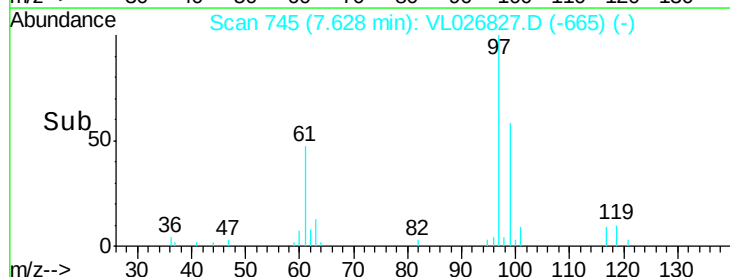
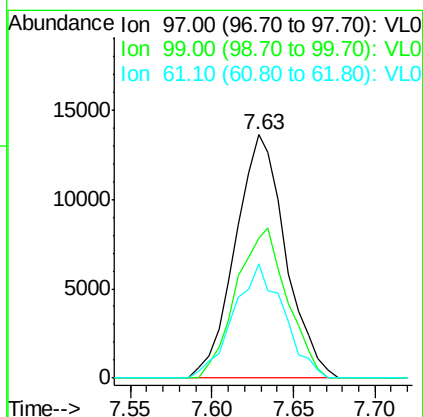
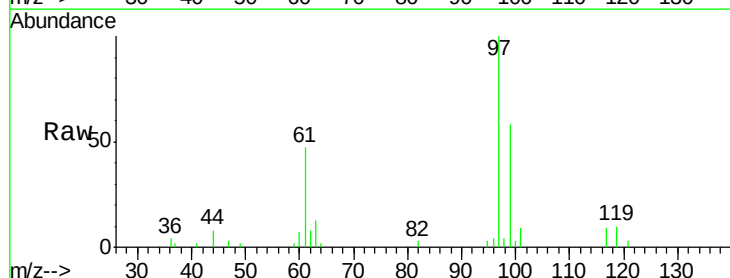
Tgt Ion: 97 Resp: 29181

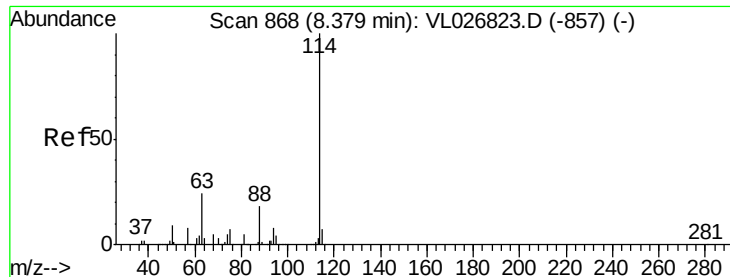
Ion Ratio Lower Upper

97 100

99 62.4 52.0 78.0

61 46.6 36.2 54.4

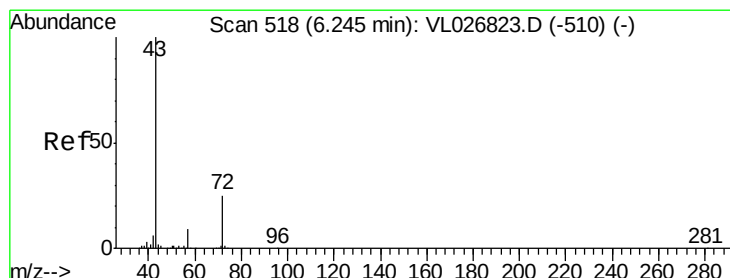
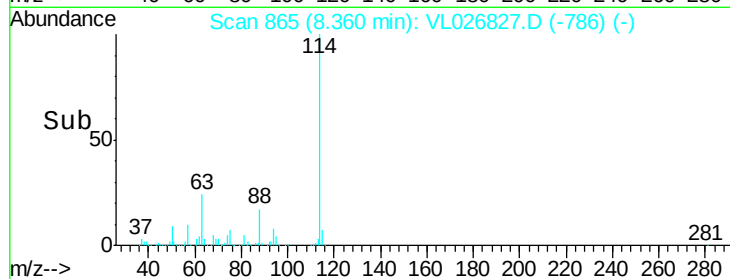
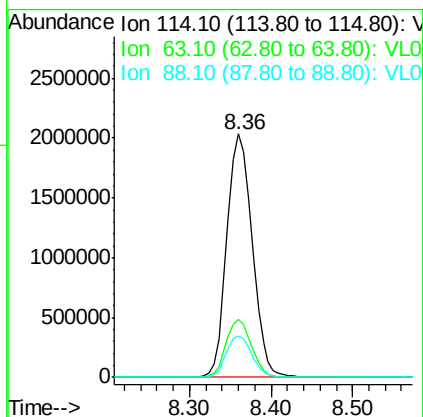
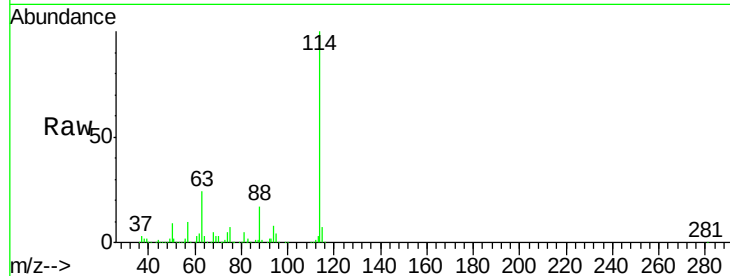




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.36 min Scan# 865
 Delta R.T. -0.02 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

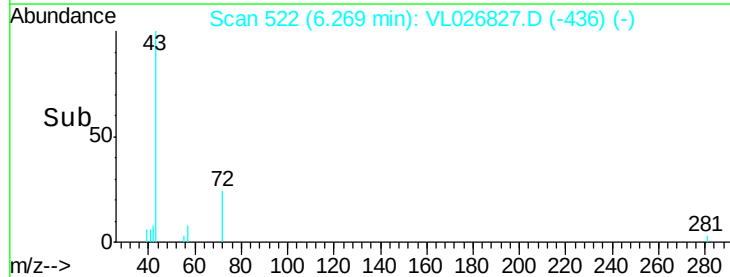
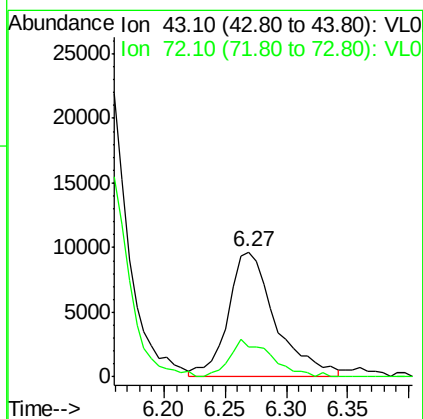
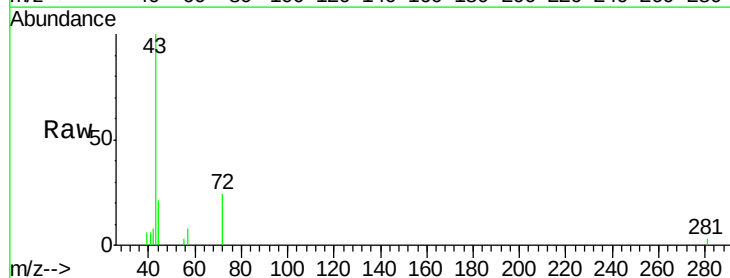
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

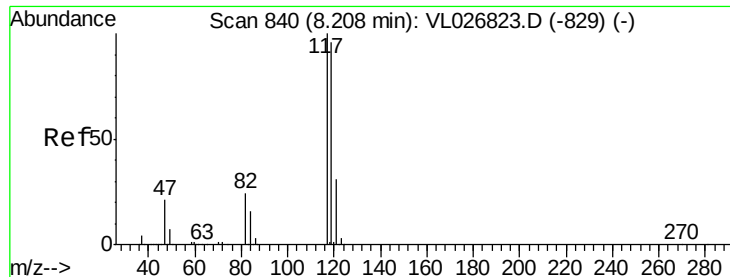
Tgt Ion:114 Resp: 4379744
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.7 29.5
 88 17.1 13.8 20.6



#34
 2-Butanone
 Concen: 0.13 ppbv
 RT: 6.27 min Scan# 522
 Delta R.T. 0.02 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion: 43 Resp: 25996
 Ion Ratio Lower Upper
 43 100
 72 26.3 19.8 29.8





#35

Carbon Tetrachloride

Concen: 0.07 ppbv

RT: 8.20 min Scan# 838

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

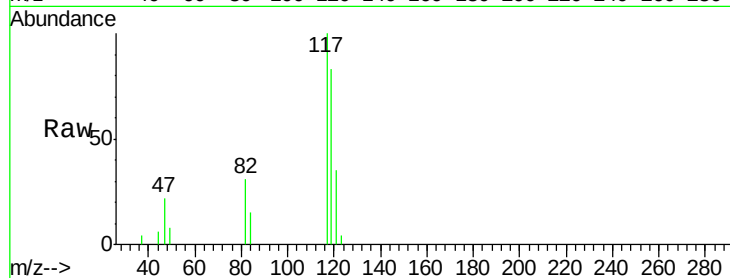
Tgt Ion:117 Resp: 28884

Ion Ratio Lower Upper

117 100

119 83.4 76.6 115.0

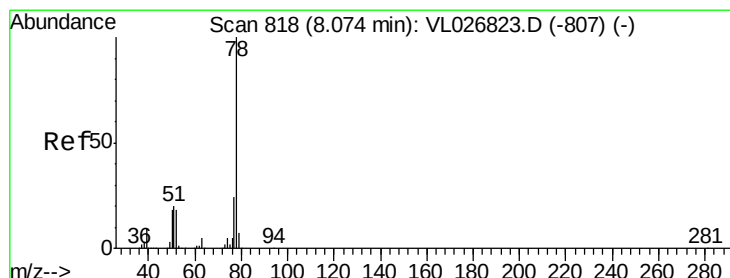
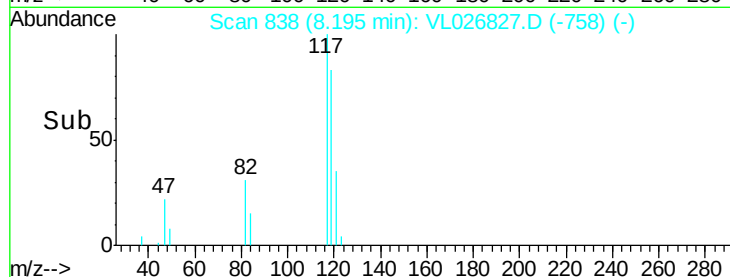
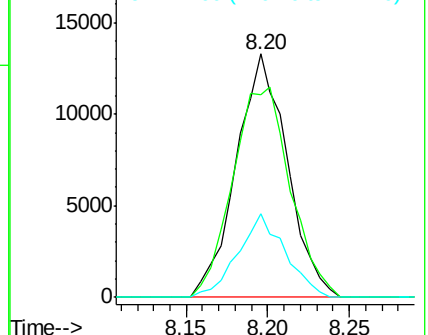
121 34.6 25.0 37.4



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: 0.08 ppbv

RT: 8.06 min Scan# 815

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

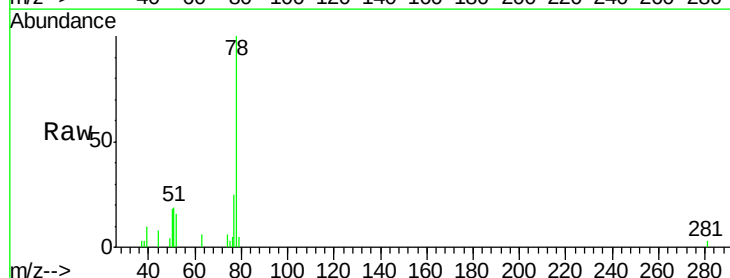
Tgt Ion: 78 Resp: 30544

Ion Ratio Lower Upper

78 100

77 24.8 19.0 28.6

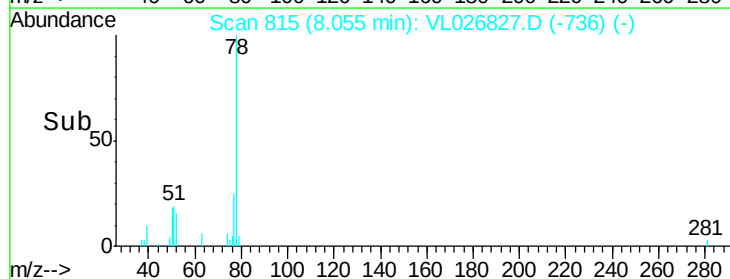
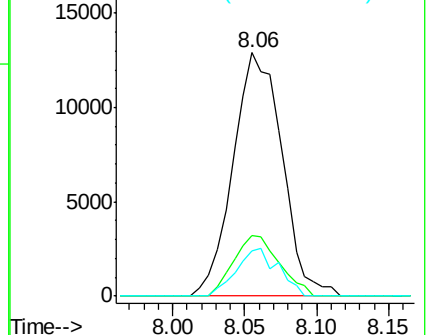
50 18.3 14.2 21.4

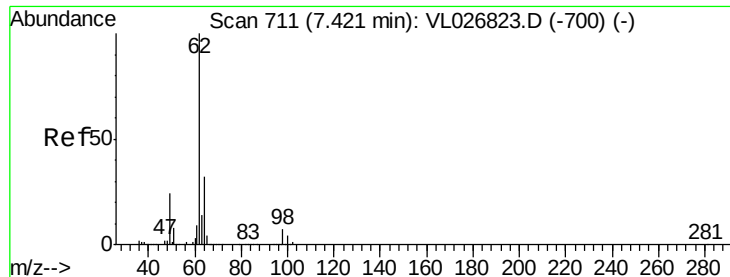


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.07 ppbv

RT: 7.40 min Scan# 708

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

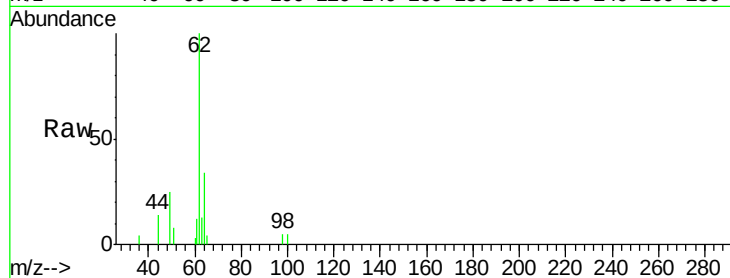
VSTDIC0.1

Tgt Ion: 62 Resp: 21968

Ion Ratio Lower Upper

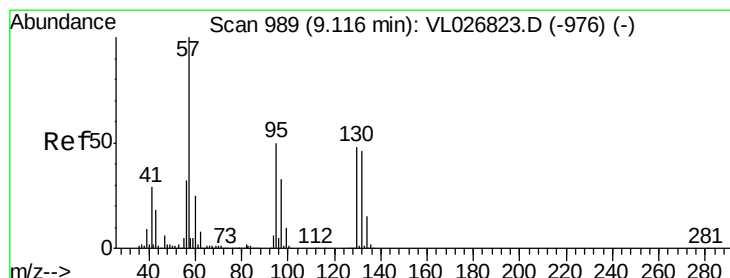
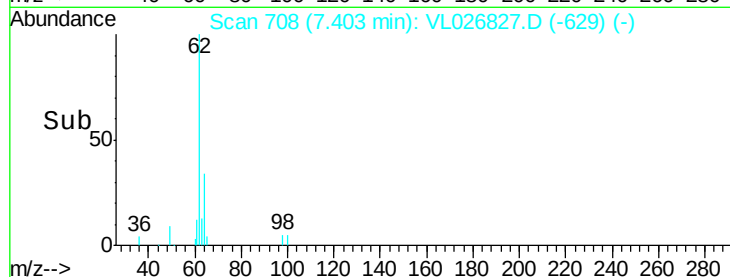
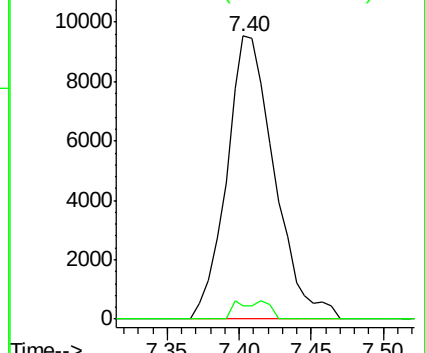
62 100

98 4.4 5.4 8.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.08 ppbv

RT: 9.10 min Scan# 986

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Tgt Ion: 130 Resp: 13876

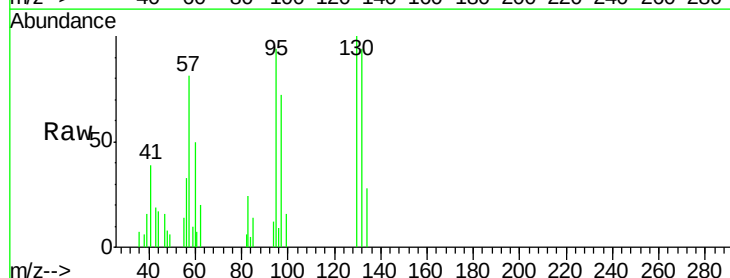
Ion Ratio Lower Upper

130 100

95 94.2 83.0 124.6

132 94.1 76.0 114.0

97 72.3 54.0 81.0

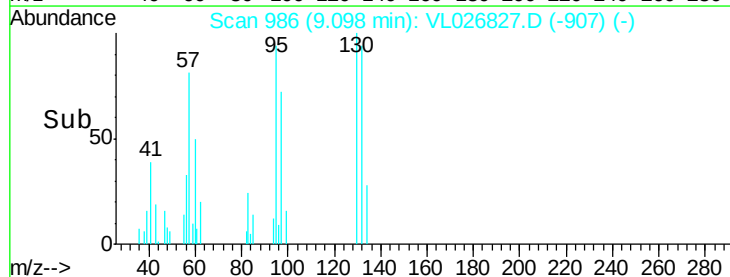
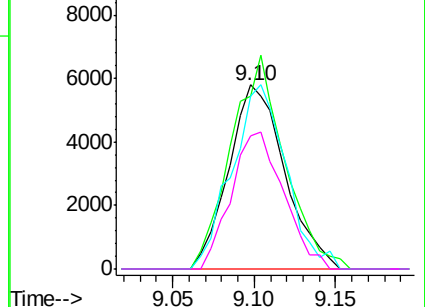


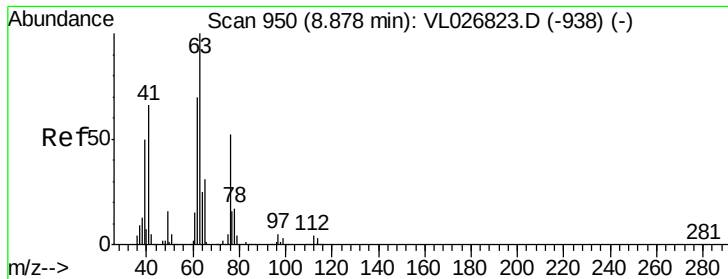
Abundance Ion 130.00 (129.70 to 130.70): V

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





#39

1,2-Dichloropropane

Concen: 0.11 ppbv

RT: 8.85 min Scan# 946

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

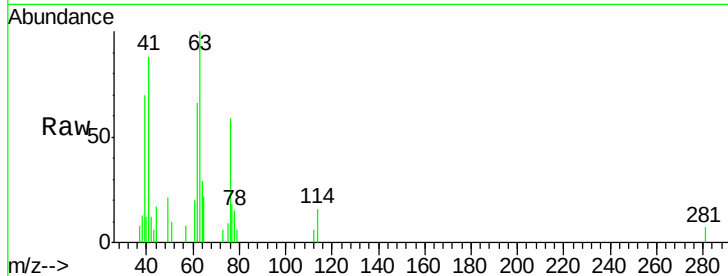
Tgt Ion: 63 Resp: 13496

Ion Ratio Lower Upper

63 100

41 81.0 53.2 79.8#

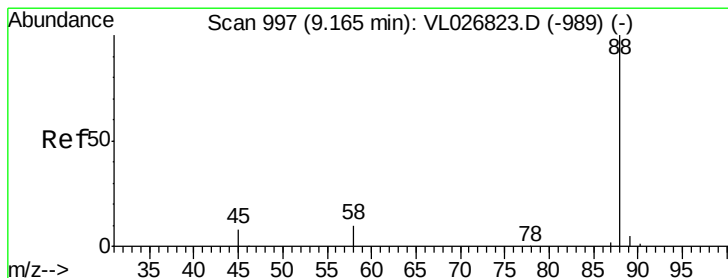
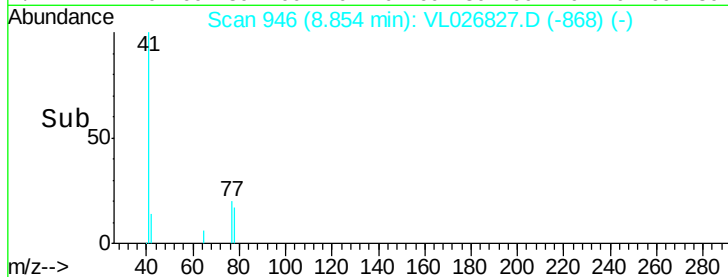
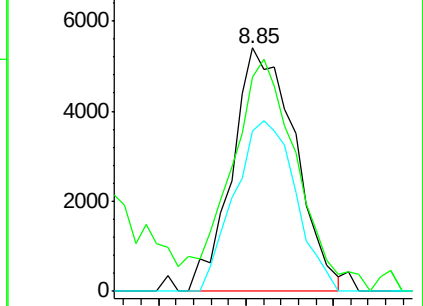
62 65.8 56.0 84.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.03 ppbv

RT: 9.29 min Scan# 1017

Delta R.T. 0.12 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Tgt Ion: 88 Resp: 763

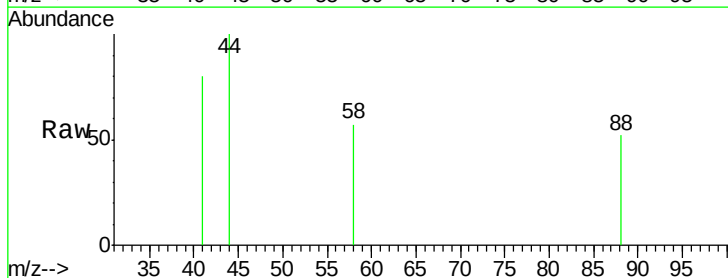
Ion Ratio Lower Upper

88 100

58 0.0 135.6 203.4#

43 1058.5 332.3 498.5#

57 5218.9 1660.5 2490.7#

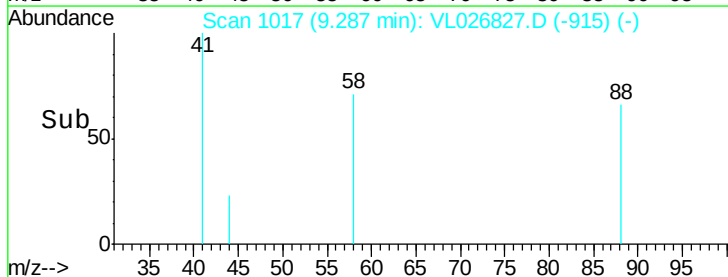
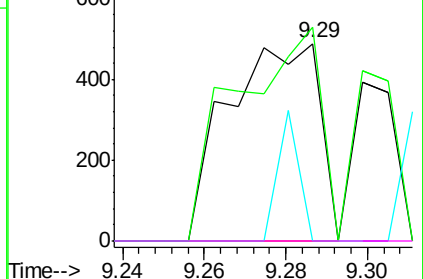


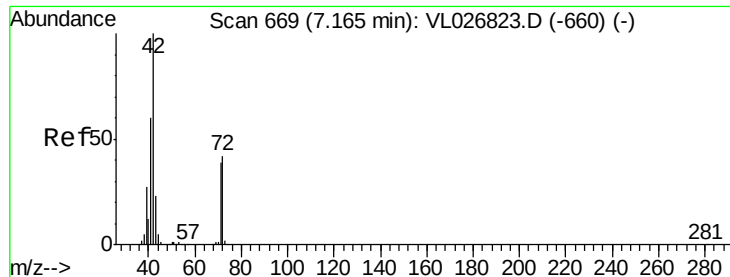
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

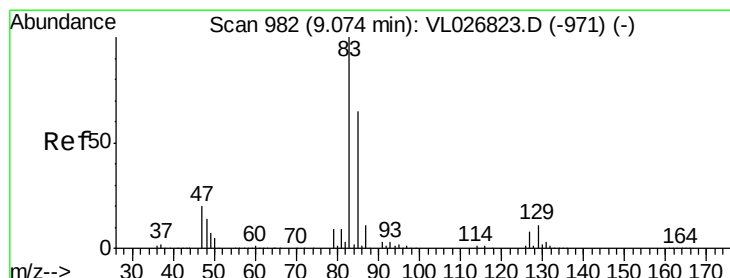
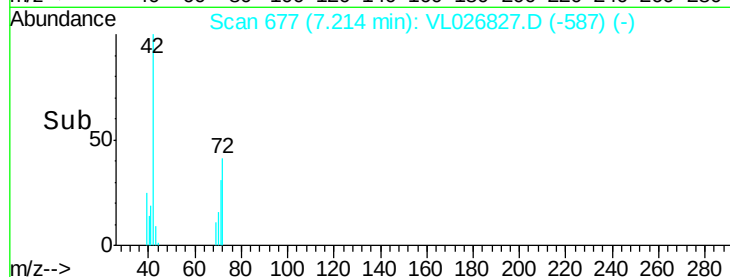
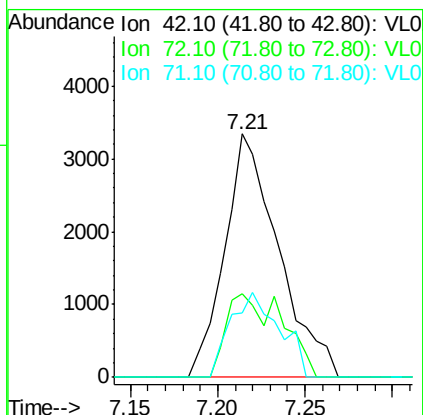
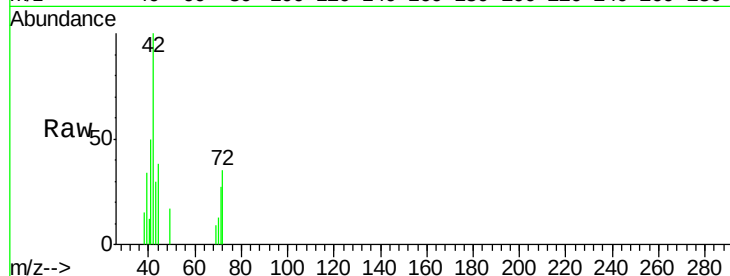




#41
Tetrahydrofuran
Concen: 0.08 ppbv
RT: 7.21 min Scan# 677
Delta R.T. 0.05 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

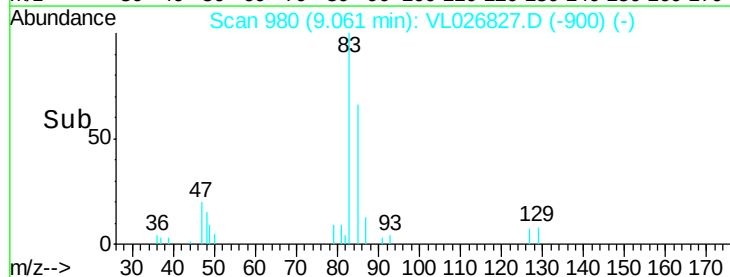
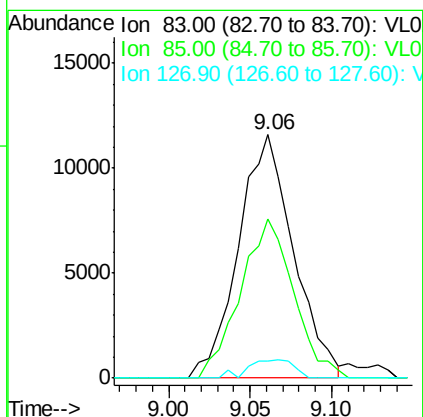
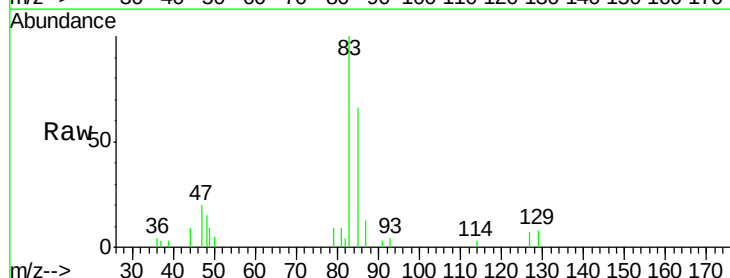
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

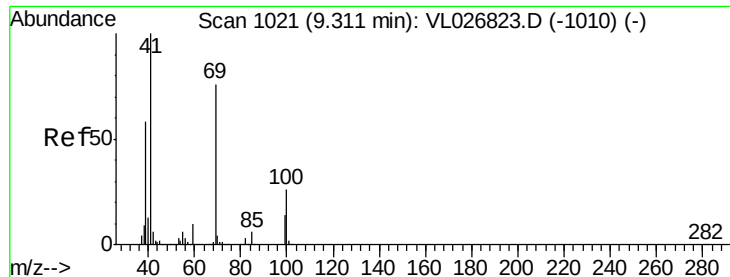
Tgt Ion: 42 Resp: 7176
Ion Ratio Lower Upper
42 100
72 35.9 33.4 50.0
71 31.5 32.1 48.1#



#42
Bromodichloromethane
Concen: 0.07 ppbv
RT: 9.06 min Scan# 980
Delta R.T. -0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

Tgt Ion: 83 Resp: 27190
Ion Ratio Lower Upper
83 100
85 65.5 51.8 77.6
127 7.0 6.4 9.6

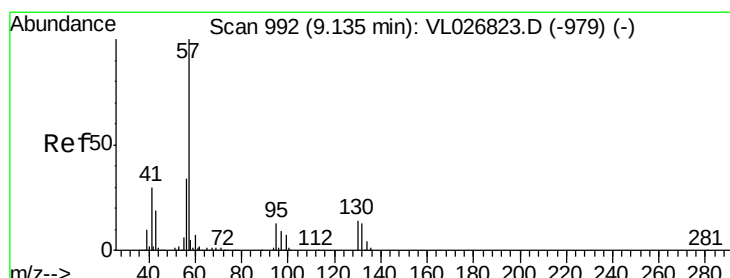
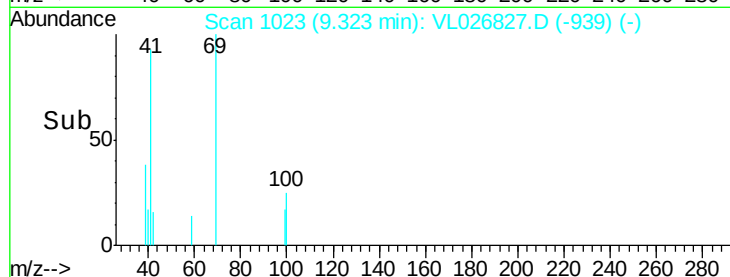
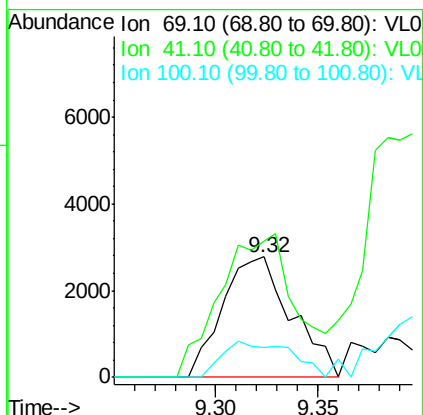
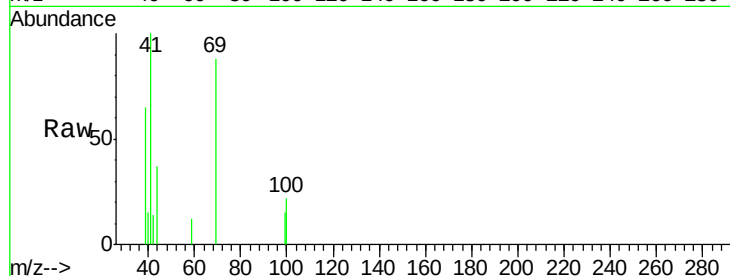




#43
Methyl Methacrylate
Concen: 0.05 ppbv
RT: 9.32 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

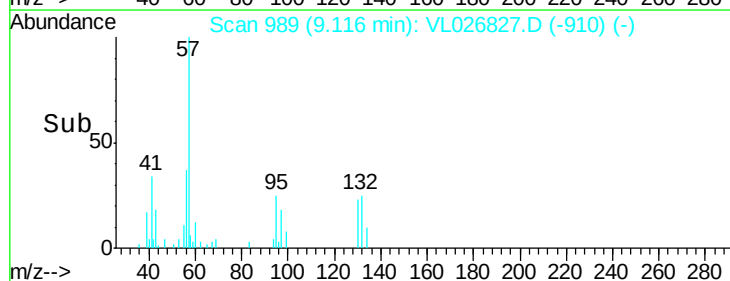
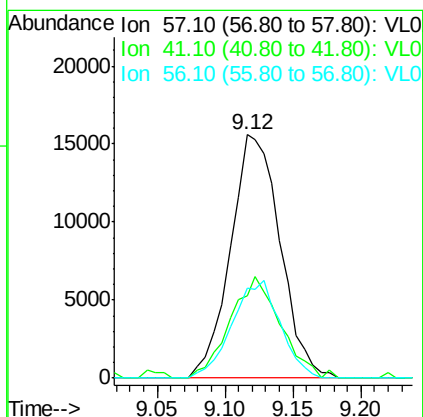
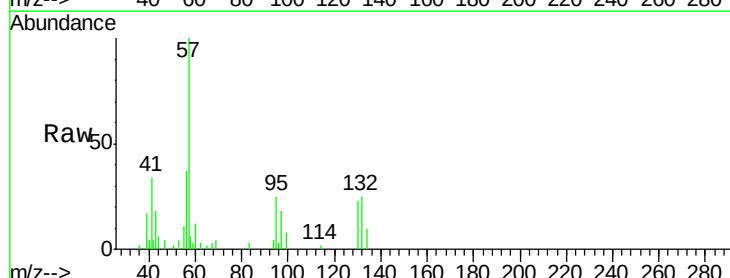
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

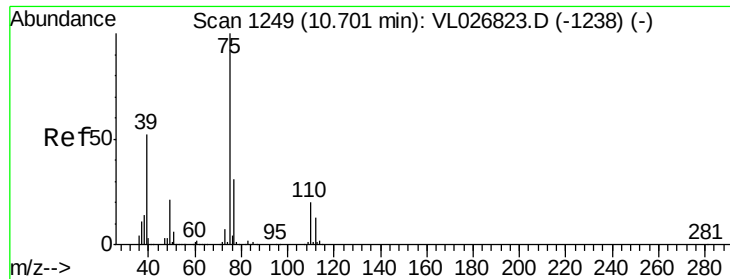
Tgt Ion: 69 Resp: 6504
Ion Ratio Lower Upper
69 100
41 138.5 106.5 159.7
100 27.6 27.2 40.8



#44
2,2,4-Trimethylpentane
Concen: 0.07 ppbv
RT: 9.12 min Scan# 989
Delta R.T. -0.02 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

Tgt Ion: 57 Resp: 39820
Ion Ratio Lower Upper
57 100
41 43.2 23.2 34.8#
56 38.7 26.2 39.4

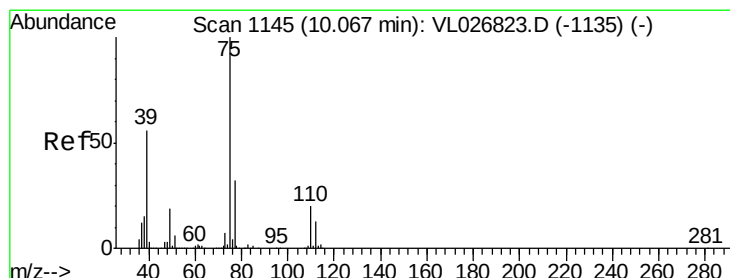
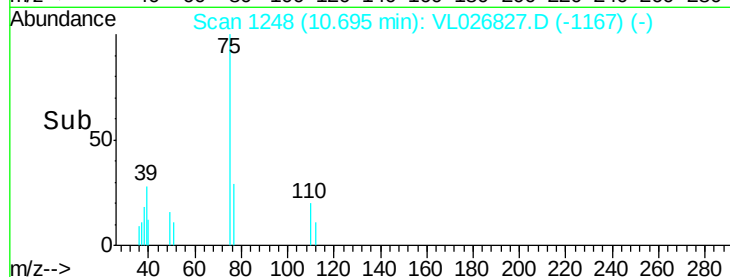
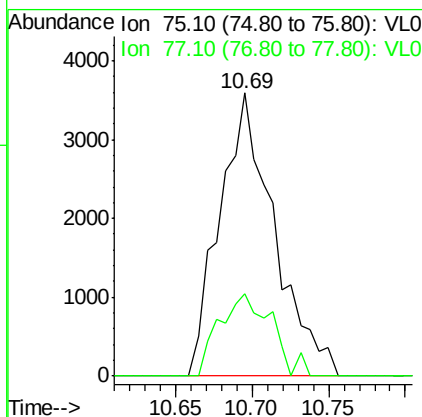
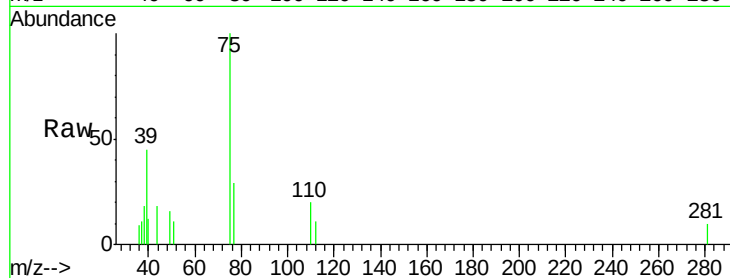




#45
 t-1,3-Dichloropropene
 Concen: 0.04 ppbv
 RT: 10.69 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

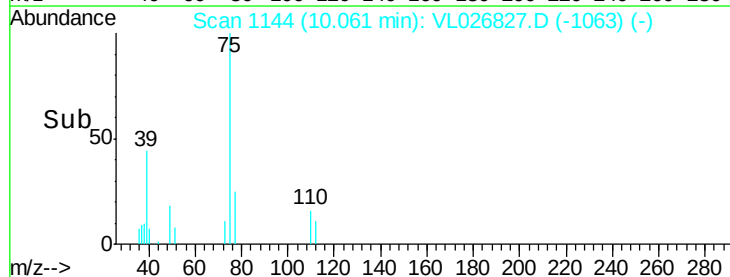
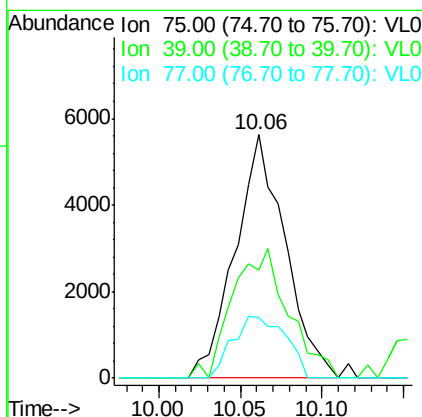
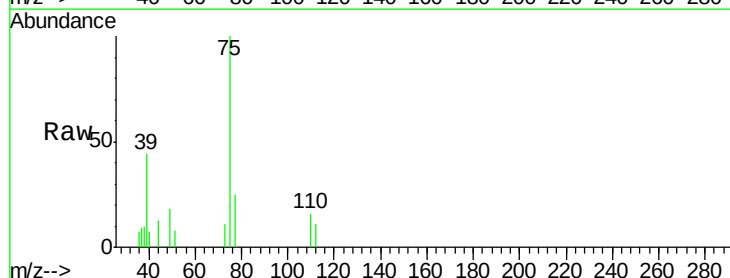
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

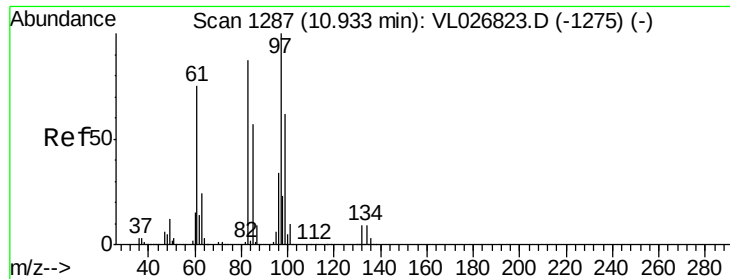
Tgt Ion: 75 Resp: 8895
 Ion Ratio Lower Upper
 75 100
 77 29.3 25.0 37.6



#46
 cis-1,3-Dichloropropene
 Concen: 0.05 ppbv
 RT: 10.06 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion: 75 Resp: 12043
 Ion Ratio Lower Upper
 75 100
 39 44.4 45.0 67.6#
 77 25.0 25.2 37.8#

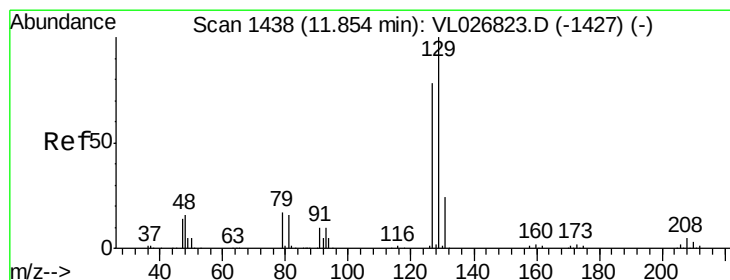
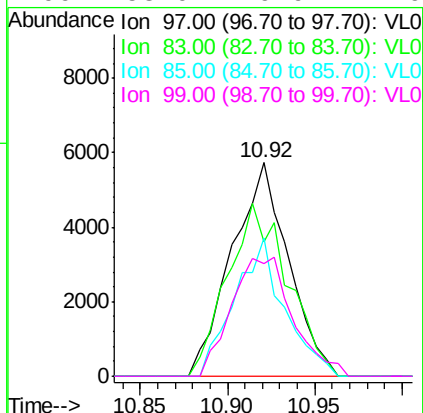
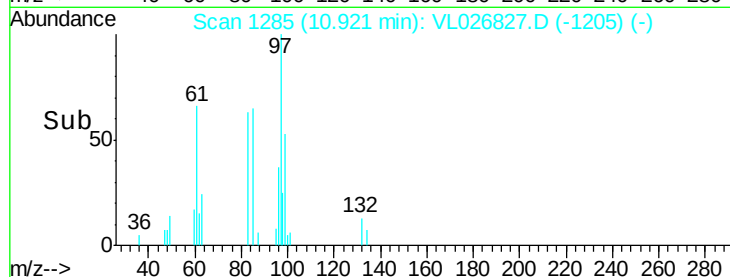
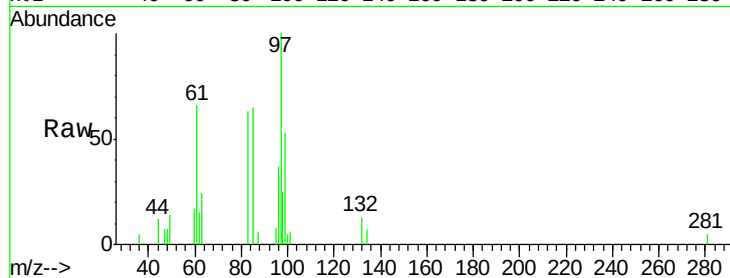




#47
 1,1,2-Trichloroethane
 Concen: 0.07 ppbv
 RT: 10.92 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

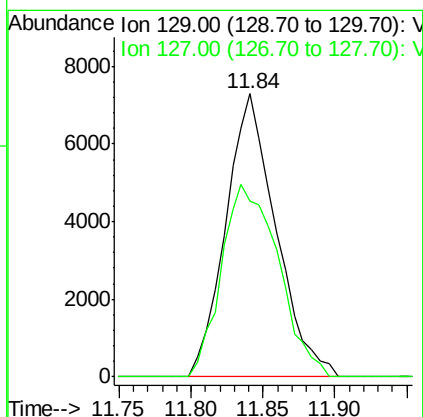
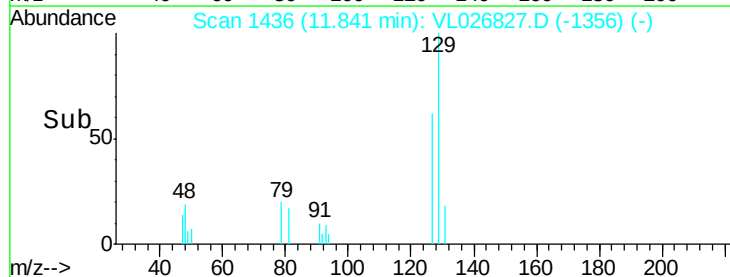
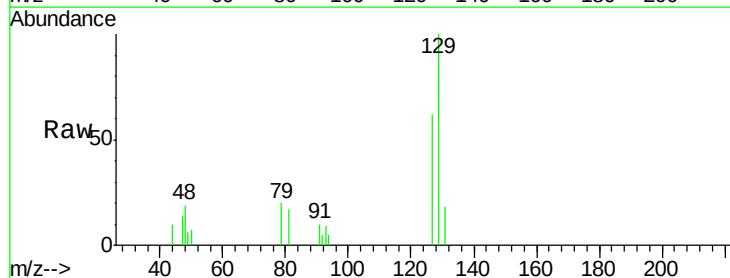
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

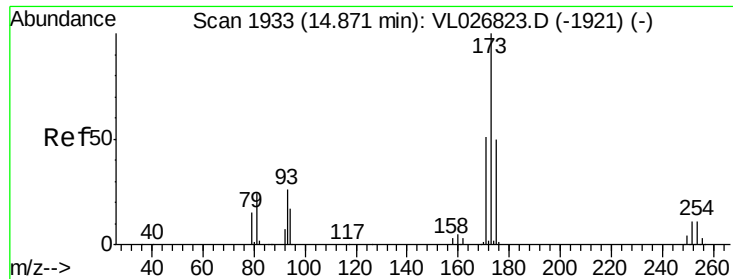
Tgt Ion: 97 Resp: 12912
 Ion Ratio Lower Upper
 97 100
 83 63.1 69.7 104.5#
 85 64.6 45.3 67.9
 99 53.0 49.9 74.9



#48
 Dibromochloromethane
 Concen: 0.05 ppbv
 RT: 11.84 min Scan# 1436
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion: 129 Resp: 17625
 Ion Ratio Lower Upper
 129 100
 127 77.1 39.6 119.0





#49

Bromoform

Concen: 0.02 ppbv

RT: 14.85 min Scan# 1929

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

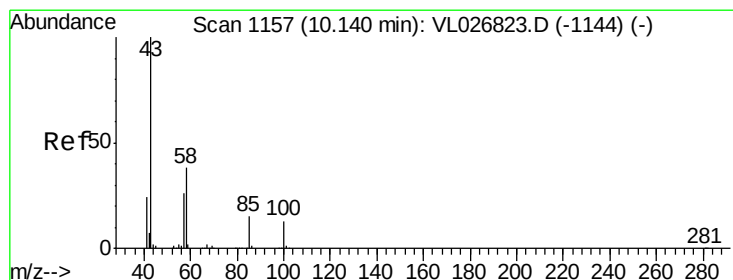
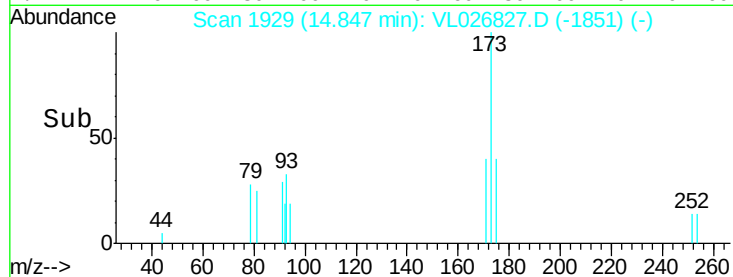
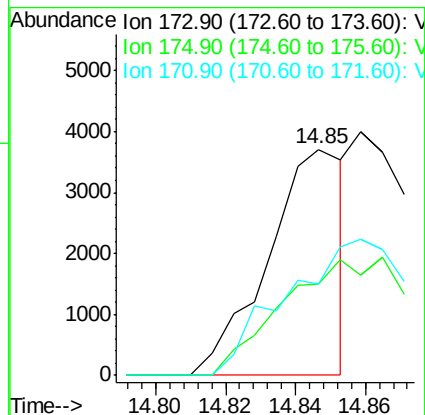
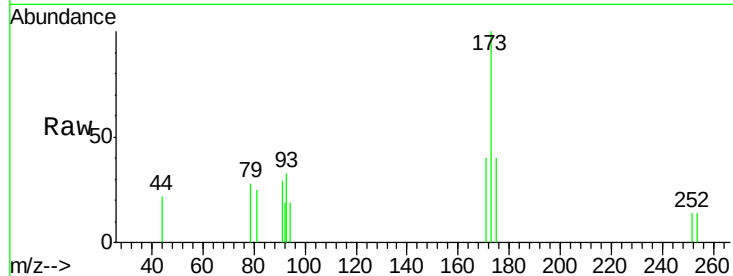
Tgt Ion:173 Resp: 5690

Ion Ratio Lower Upper

173 100

175 0.0 39.2 58.8#

171 0.0 41.4 62.0#



#50

4-Methyl-2-Pentanone

Concen: 0.05 ppbv

RT: 10.16 min Scan# 1161

Delta R.T. 0.02 min

Lab File: VL026827.D

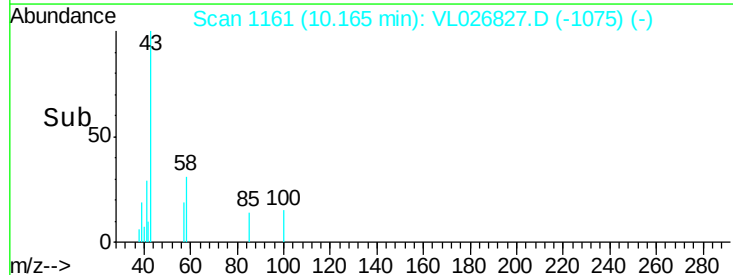
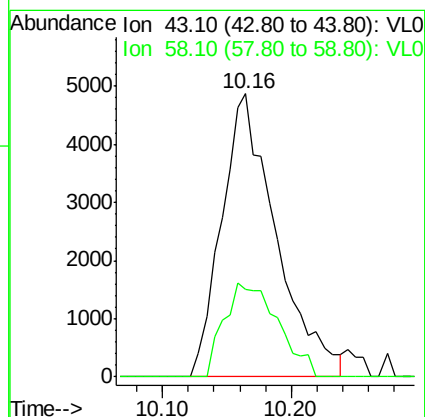
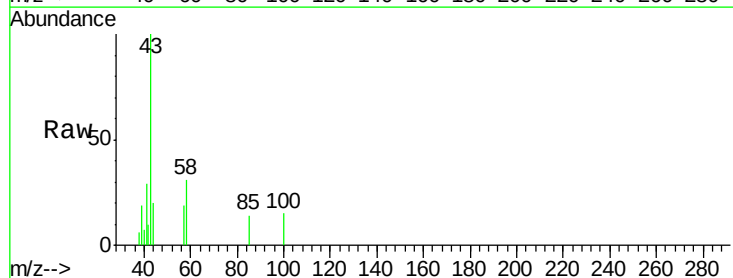
Acq: 9 Feb 2016 19:29

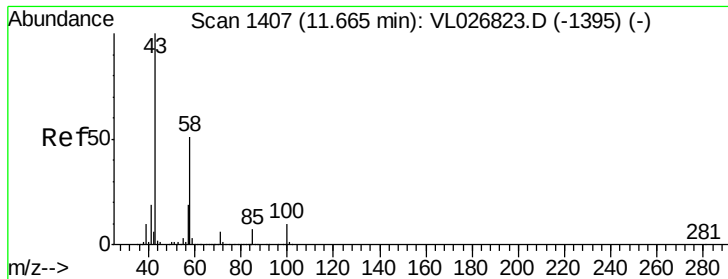
Tgt Ion: 43 Resp: 14331

Ion Ratio Lower Upper

43 100

58 32.6 30.3 45.5





#51

2-Hexanone

Concen: 0.03 ppbv

RT: 11.71 min Scan# 1414

Delta R.T. 0.04 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

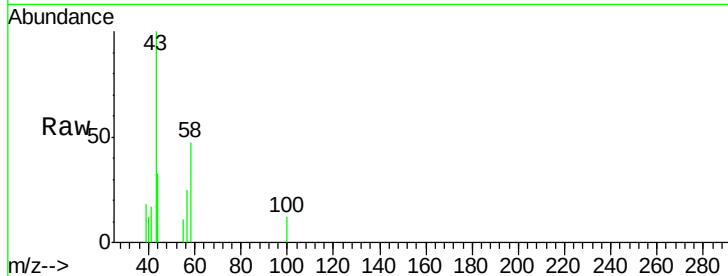
Tgt Ion: 43 Resp: 7404

Ion Ratio Lower Upper

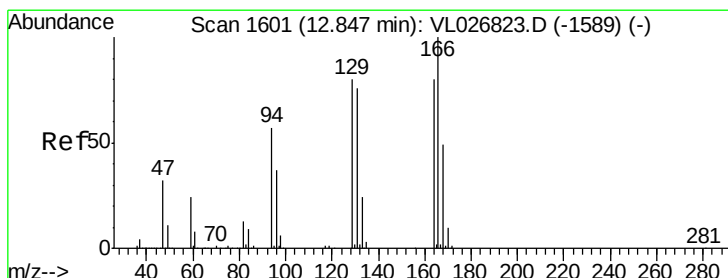
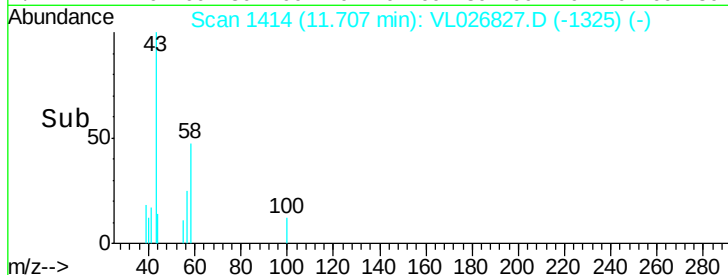
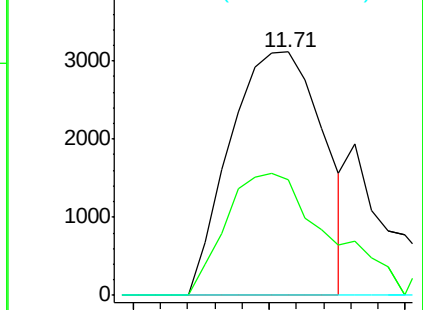
43 100

58 57.1 40.4 60.6

98 0.0 0.2 0.4#



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



#52

Tetrachloroethene

Concen: 0.06 ppbv

RT: 12.83 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Tgt Ion: 164 Resp: 11755

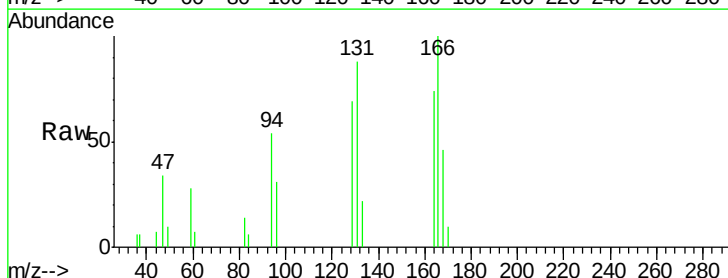
Ion Ratio Lower Upper

164 100

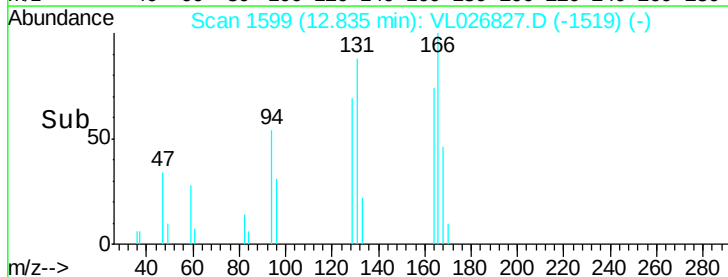
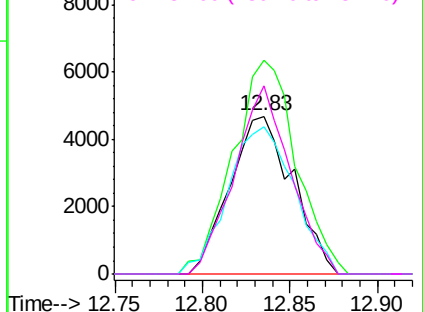
166 128.1 100.3 150.5

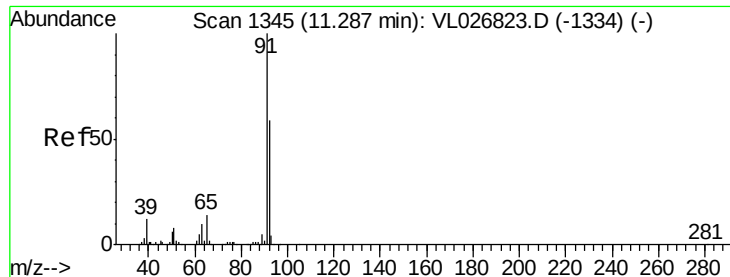
129 93.3 80.0 120.0

131 119.4 76.7 115.1#



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





#53

Toluene

Concen: 0.04 ppbv

RT: 11.28 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

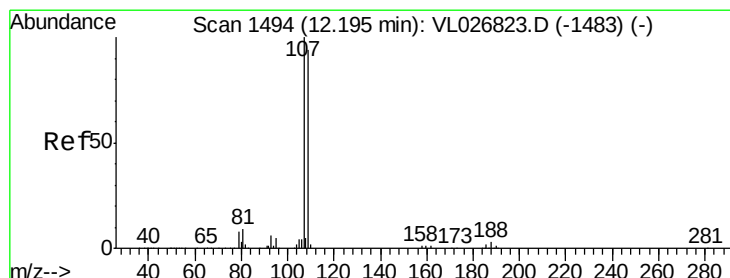
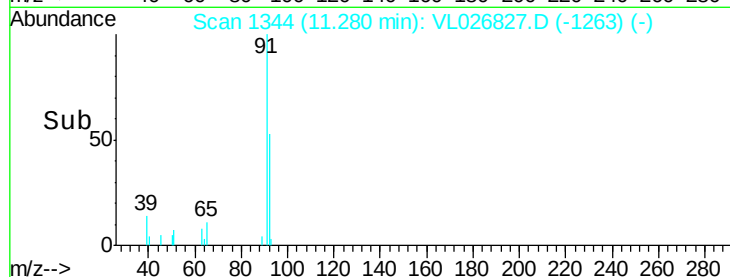
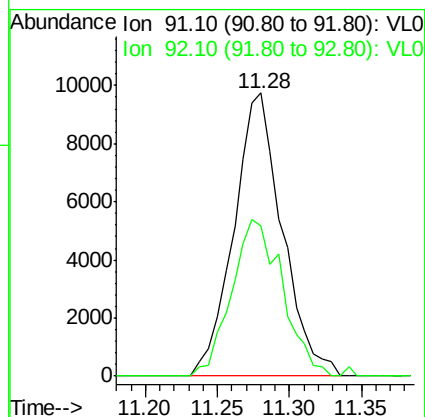
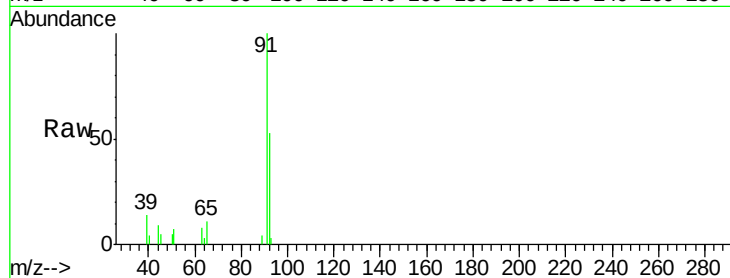
VSTDIC0.1

Tgt Ion: 91 Resp: 22764

Ion Ratio Lower Upper

91 100

92 58.7 47.3 70.9



#54

1,2-Dibromoethane

Concen: 0.06 ppbv

RT: 12.19 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL026827.D

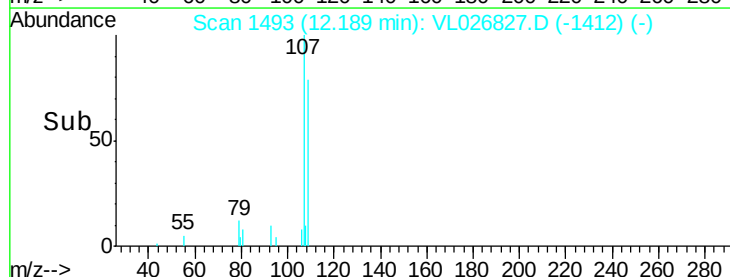
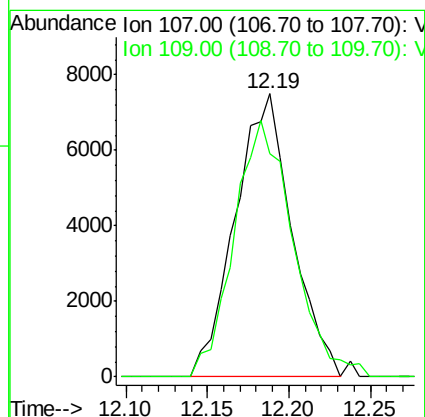
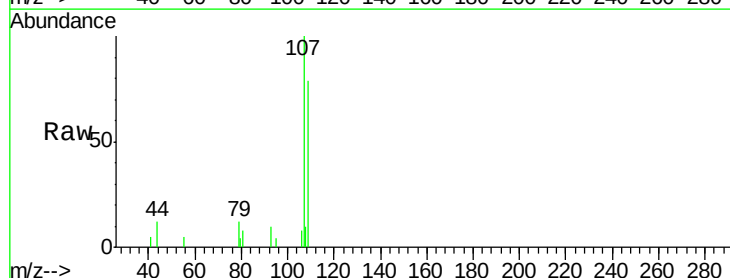
Acq: 9 Feb 2016 19:29

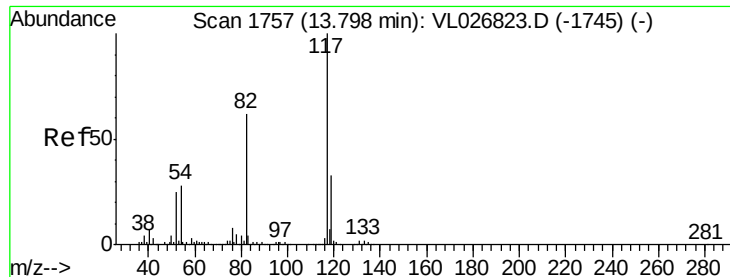
Tgt Ion: 107 Resp: 18232

Ion Ratio Lower Upper

107 100

109 78.8 75.0 112.4

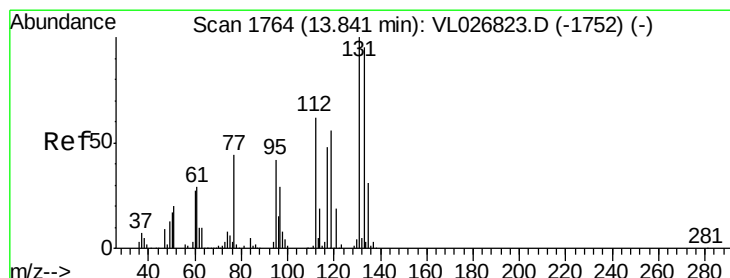
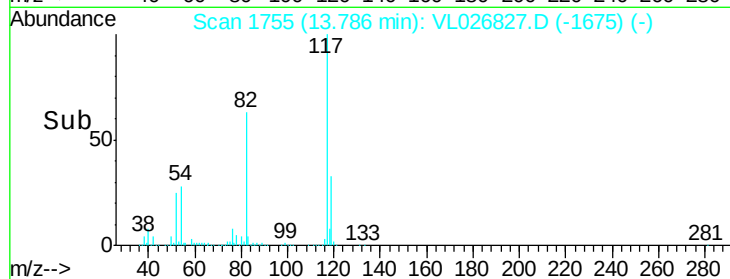
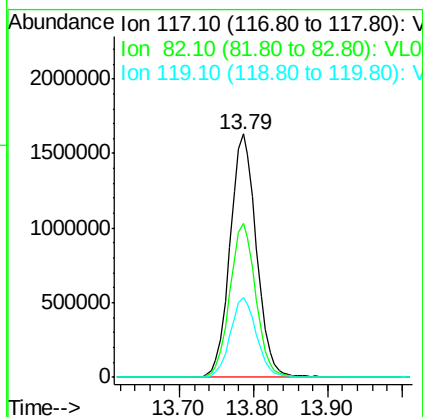
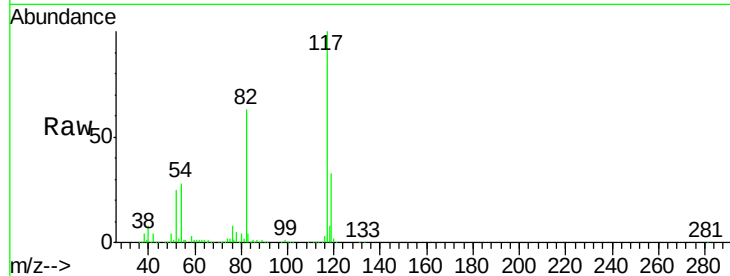




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

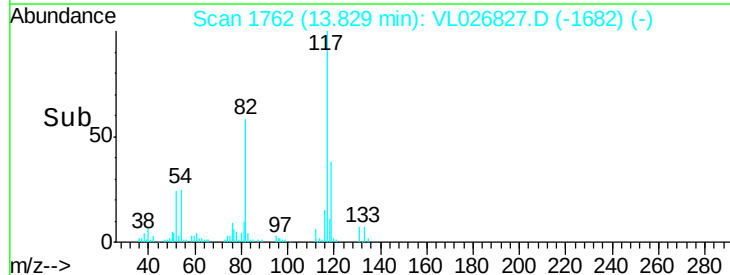
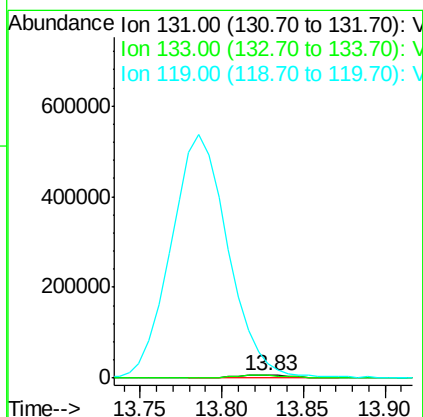
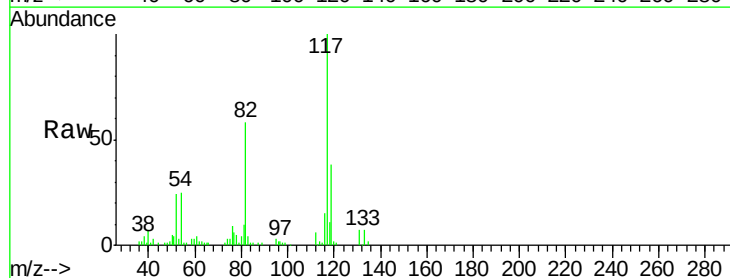
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

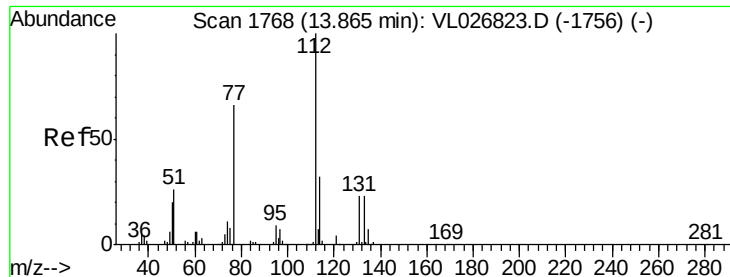
Tgt Ion:117 Resp: 4056138
Ion Ratio Lower Upper
117 100
82 0.0 51.9 77.9#
119 0.0 48.5 72.7#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.07 ppbv
RT: 13.83 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

Tgt Ion:131 Resp: 15978
Ion Ratio Lower Upper
131 100
133 95.8 76.4 114.6
119 8328.9 99.8 149.8#





#57

Chlorobenzene

Concen: 0.08 ppbv

RT: 13.85 min Scan# 1765

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

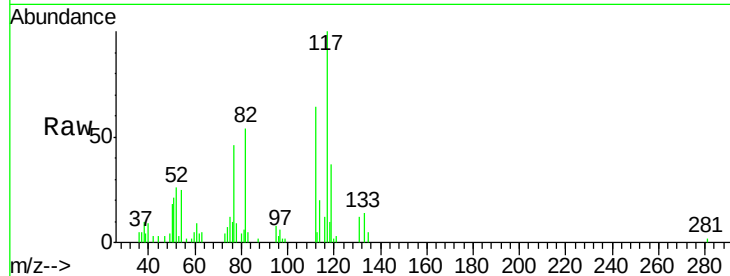
Tgt Ion: 112 Resp: 33322

Ion Ratio Lower Upper

112 100

77 69.2 53.3 79.9

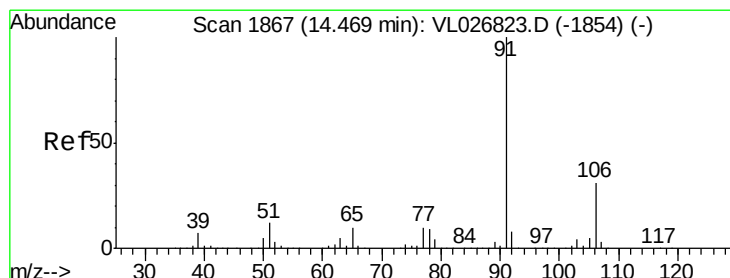
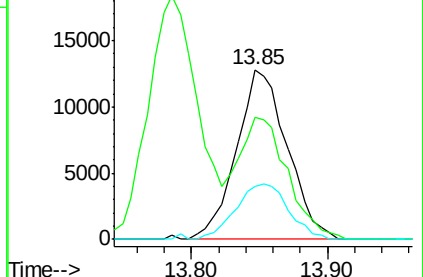
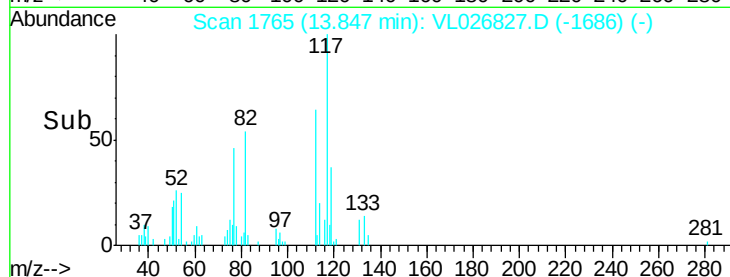
114 31.1 28.9 35.3



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: 0.04 ppbv

RT: 14.46 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VL026827.D

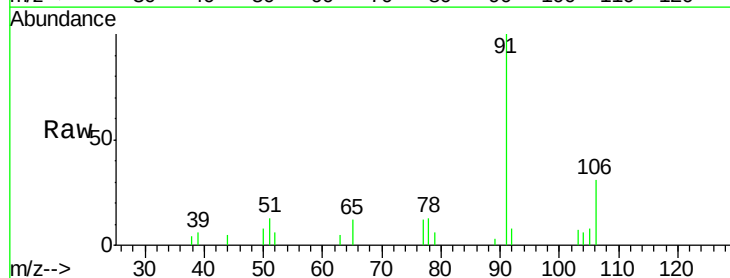
Acq: 9 Feb 2016 19:29

Tgt Ion: 91 Resp: 26326

Ion Ratio Lower Upper

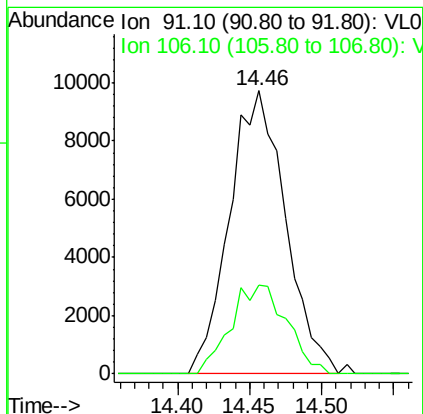
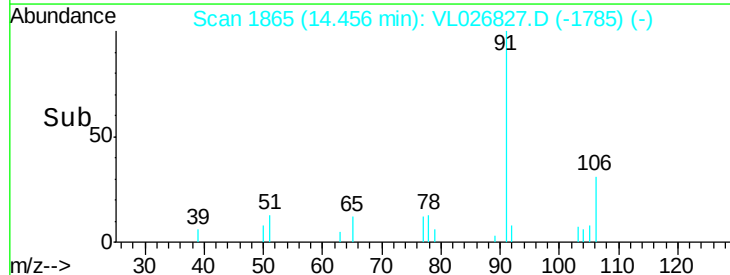
91 100

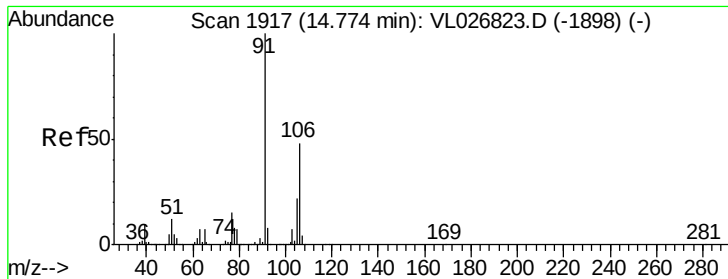
106 31.2 24.9 37.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

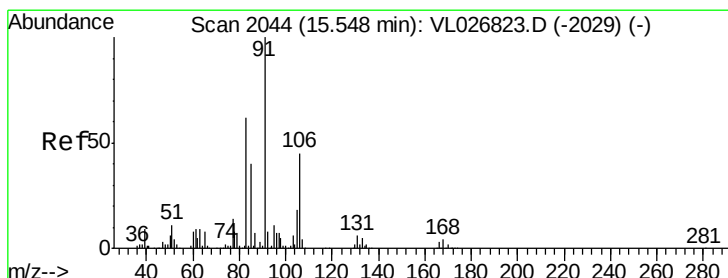
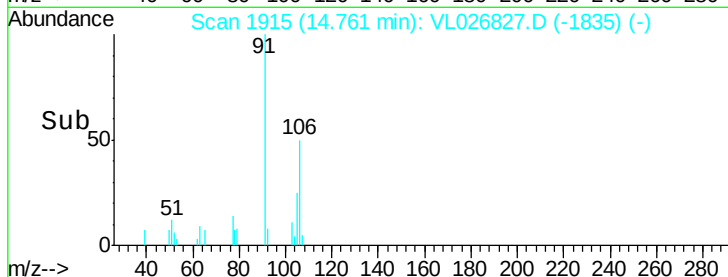
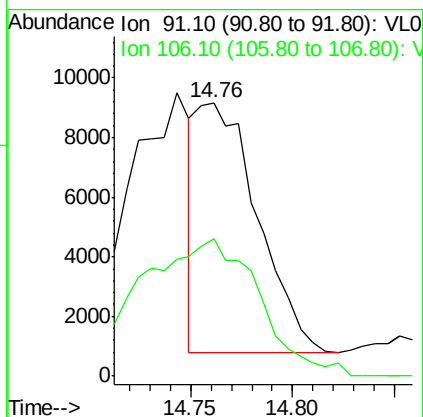
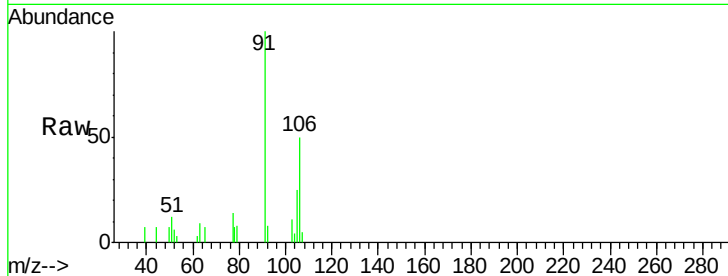




#59
m/p-Xylene
Concen: 0.03 ppbv
RT: 14.76 min Scan# 1915
Delta R.T. -0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

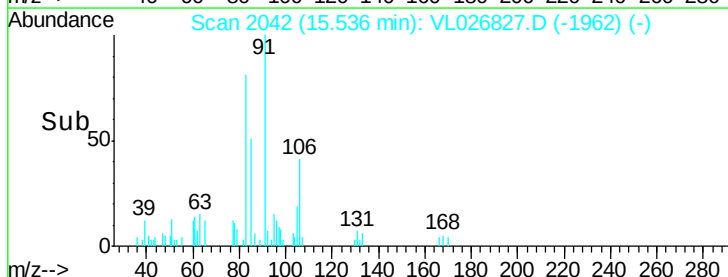
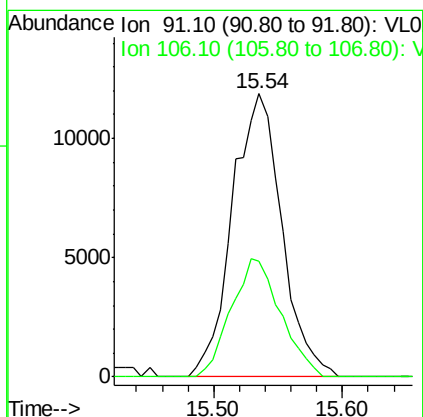
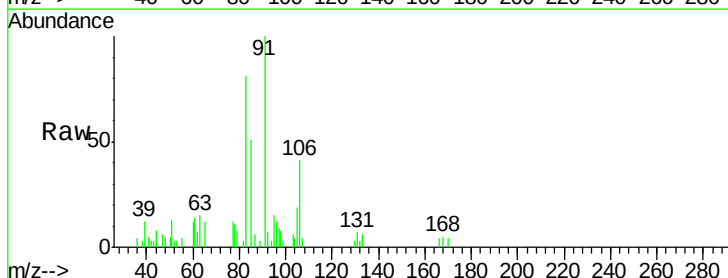
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

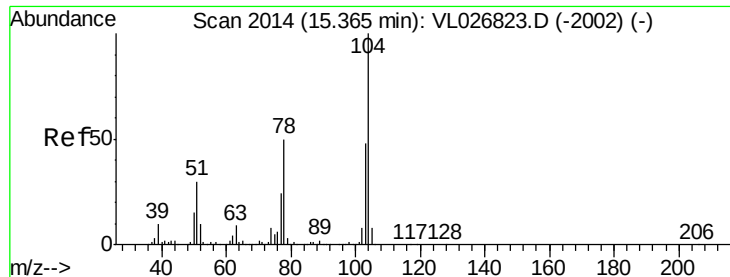
Tgt Ion: 91 Resp: 17020
Ion Ratio Lower Upper
91 100
106 111.8 38.2 57.2#



#60
o-Xylene
Concen: 0.05 ppbv
RT: 15.54 min Scan# 2042
Delta R.T. -0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

Tgt Ion: 91 Resp: 31674
Ion Ratio Lower Upper
91 100
106 41.7 22.3 66.8





#61

Styrene

Concen: 0.02 ppbv

RT: 15.36 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

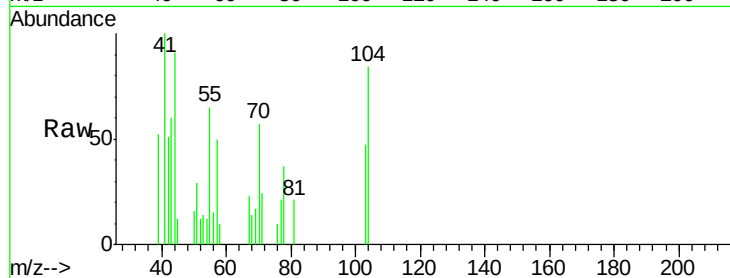
Tgt Ion:104 Resp: 5600

Ion Ratio Lower Upper

104 100

78 77.7 39.8 59.6#

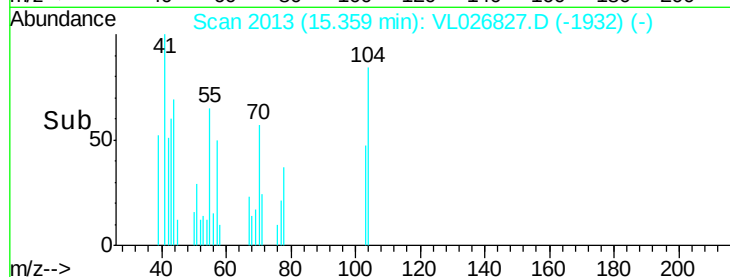
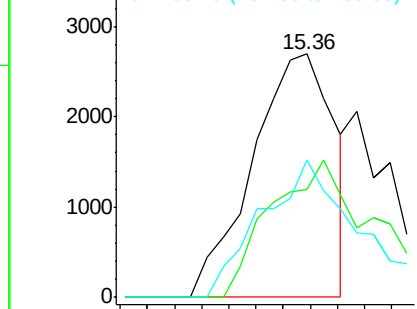
103 67.0 38.2 57.4#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.04 ppbv

RT: 16.59 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VL026827.D

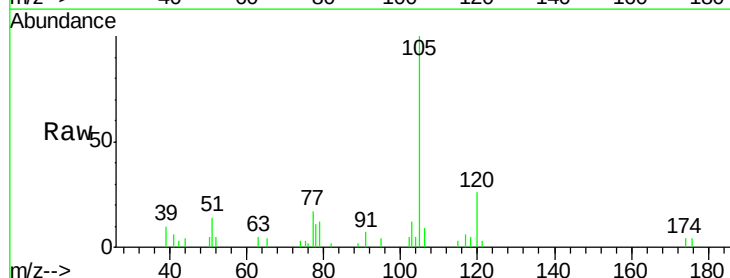
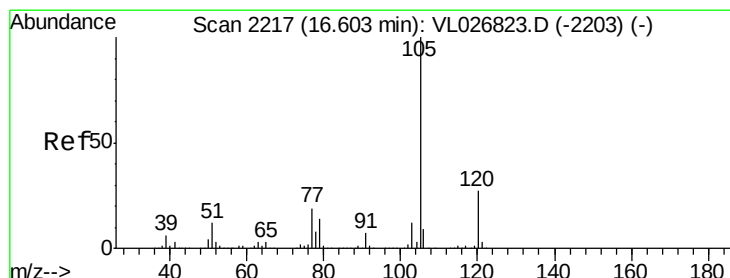
Acq: 9 Feb 2016 19:29

Tgt Ion:105 Resp: 35360

Ion Ratio Lower Upper

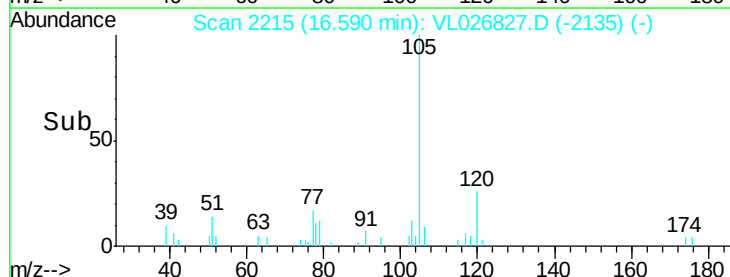
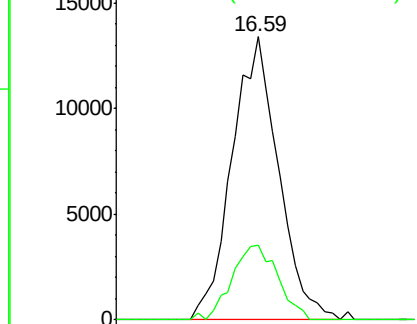
105 100

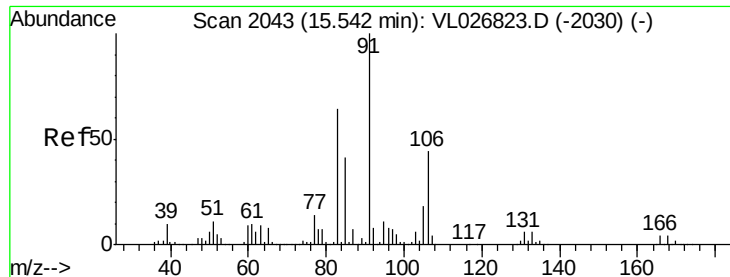
120 26.0 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

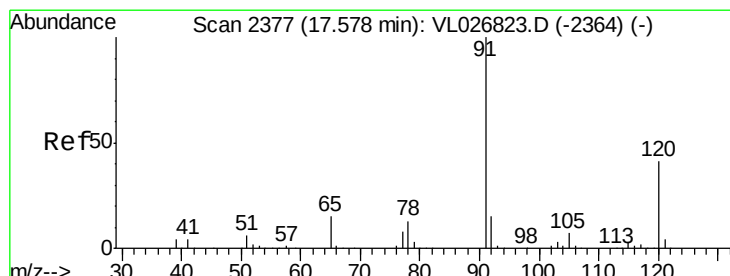
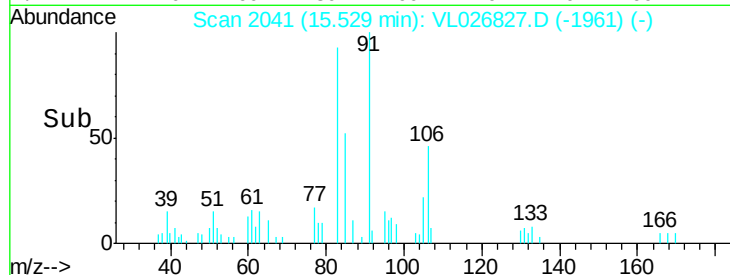
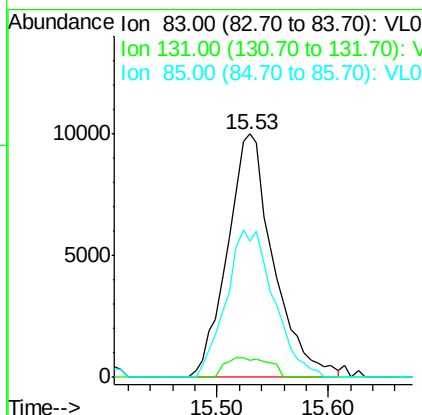
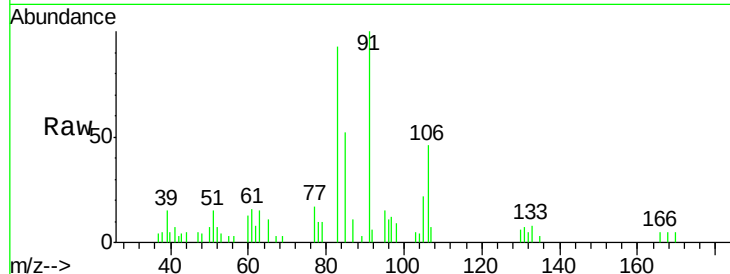




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.07 ppbv
 RT: 15.53 min Scan# 2041
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

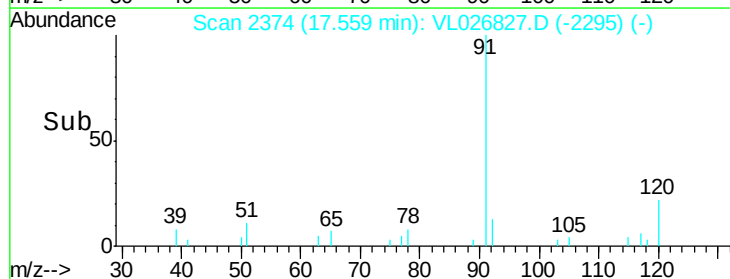
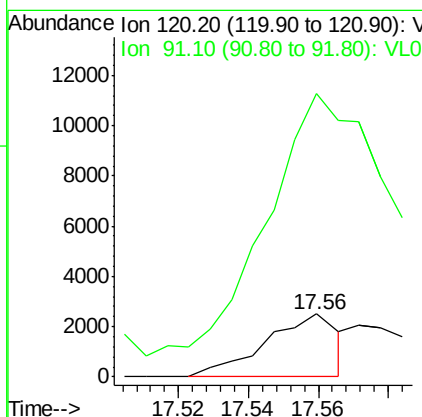
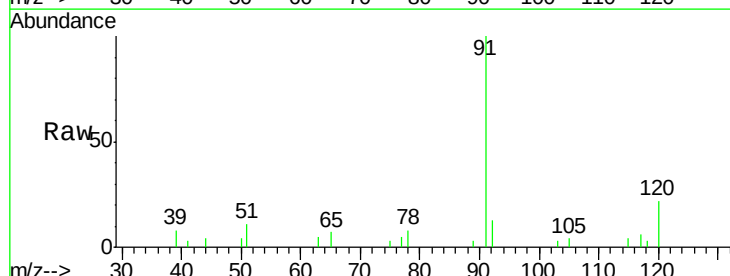
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

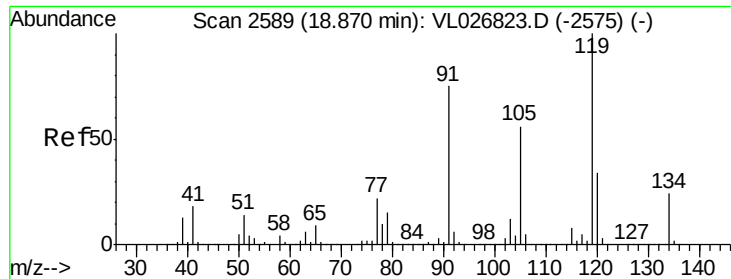
Tgt Ion: 83 Resp: 28696
 Ion Ratio Lower Upper
 83 100
 131 7.7 4.7 14.1
 85 62.5 32.3 96.9



#64
 n-propylbenzene
 Concen: 0.02 ppbv
 RT: 17.56 min Scan# 2374
 Delta R.T. -0.02 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion: 120 Resp: 3606
 Ion Ratio Lower Upper
 120 100
 91 898.8 363.0 544.6#

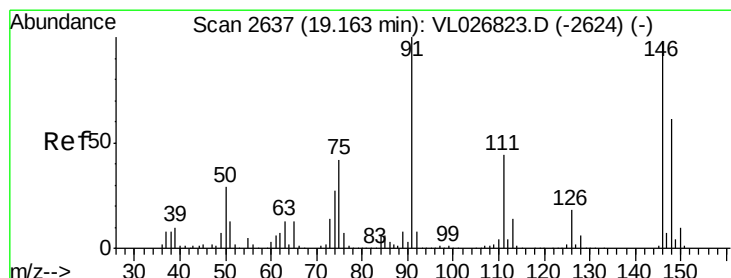
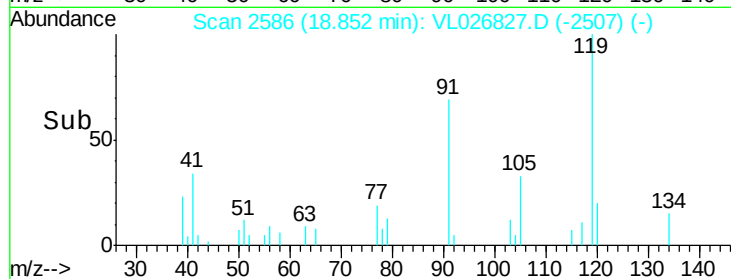
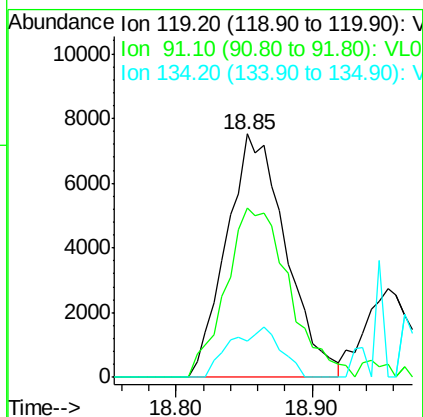
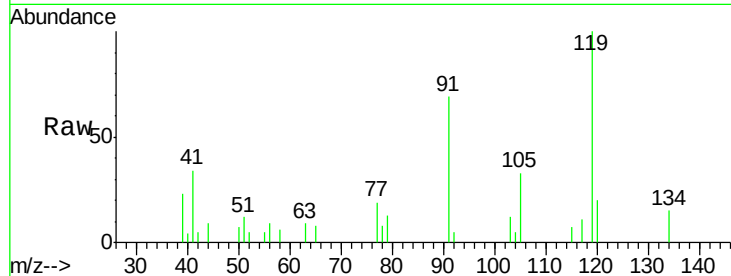




#65
 tert-Butylbenzene
 Concen: 0.03 ppbv
 RT: 18.85 min Scan# 2586
 Delta R.T. -0.02 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

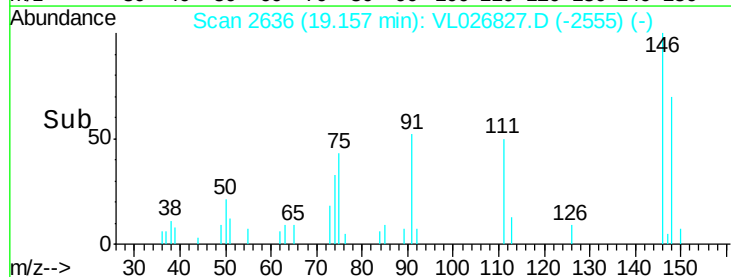
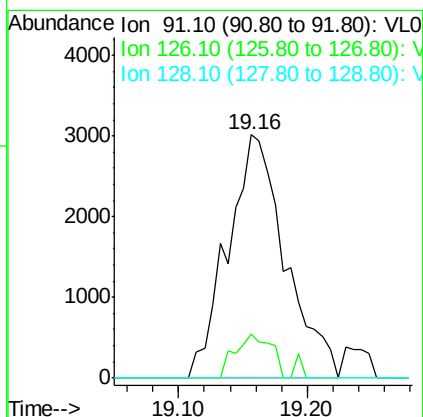
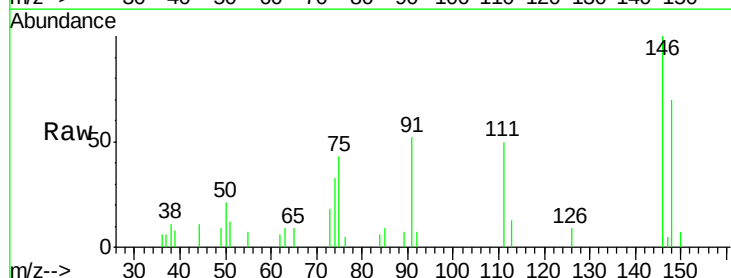
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCO.1

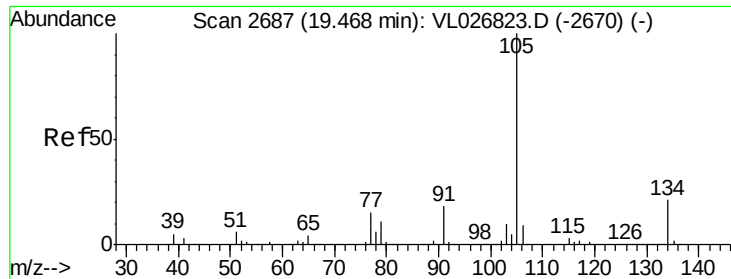
Tgt Ion: 119 Resp: 22860
 Ion Ratio Lower Upper
 119 100
 91 77.2 61.5 92.3
 134 17.5 17.9 26.9#



#66
 Benzyl Chloride
 Concen: 0.03 ppbv
 RT: 19.16 min Scan# 2636
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion: 91 Resp: 9344
 Ion Ratio Lower Upper
 91 100
 126 12.5 14.6 21.8#
 128 0.0 4.6 6.8#





#67

sec-Butylbenzene

Concen: 0.03 ppbv

RT: 19.46 min Scan# 2685

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

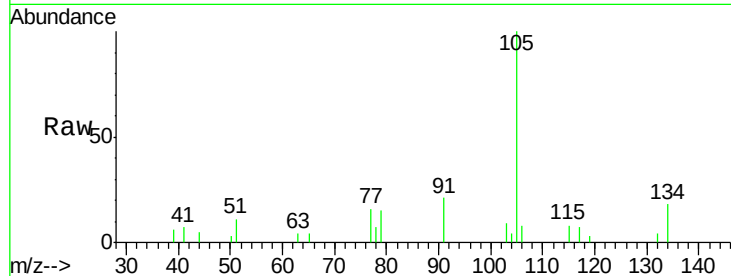
VSTDIC0.1

Tgt Ion: 105 Resp: 31753

Ion Ratio Lower Upper

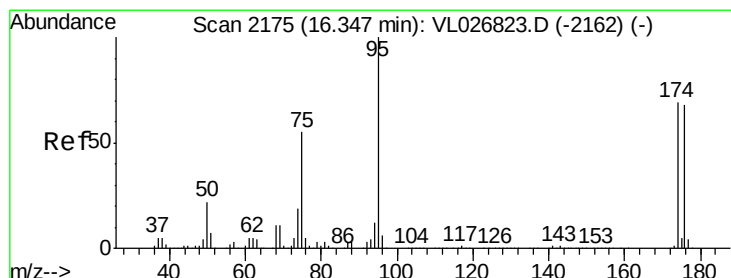
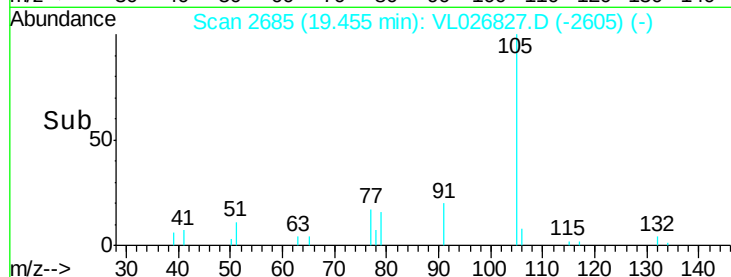
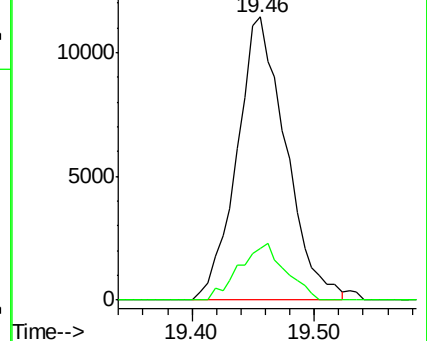
105 100

134 18.8 16.1 24.1



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: 8.57 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. -0.02 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

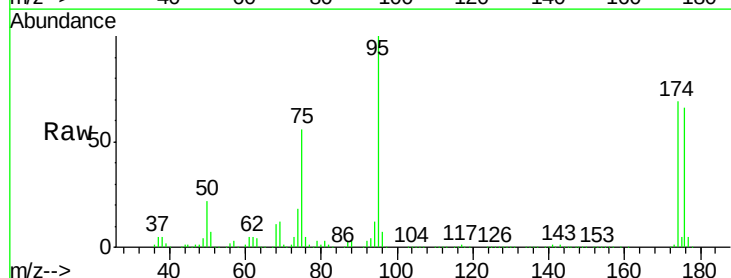
Tgt Ion: 95 Resp: 2949021

Ion Ratio Lower Upper

95 100

174 70.2 55.6 83.4

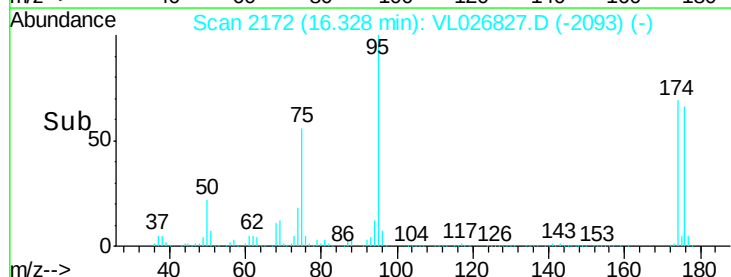
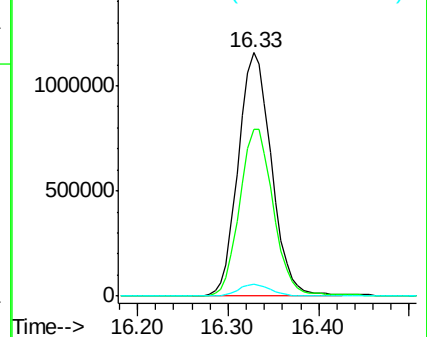
175 4.9 3.9 5.9

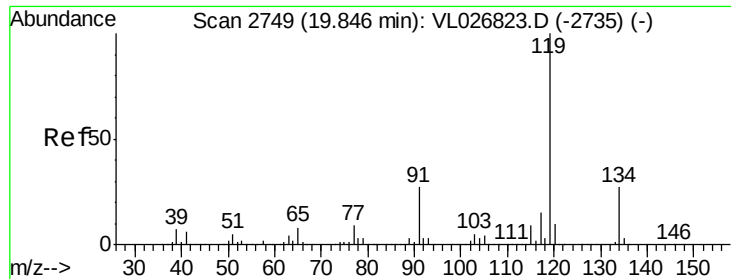


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

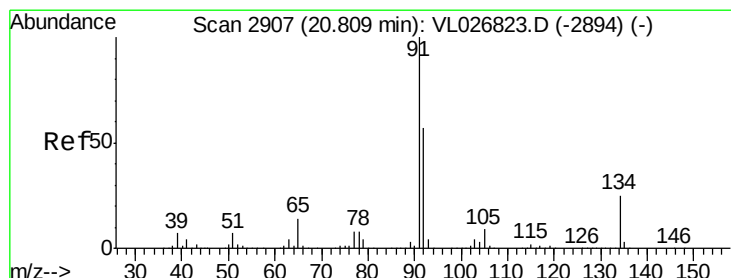
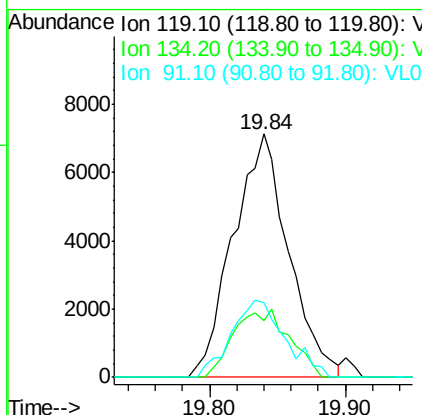
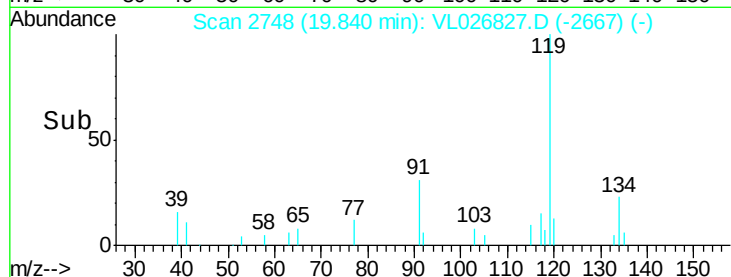
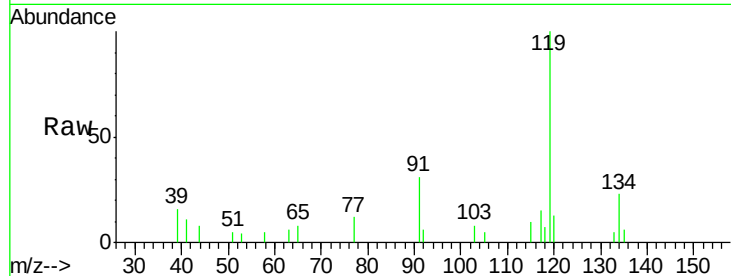




#69
p-Isopropyltoluene
Concen: 0.02 ppbv
RT: 19.84 min Scan# 2748
Delta R.T. -0.01 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

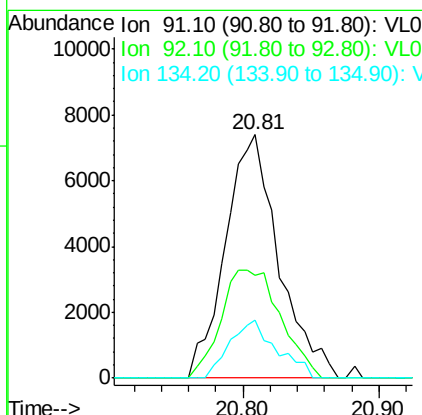
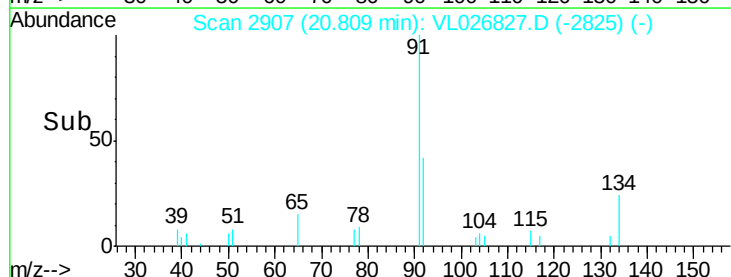
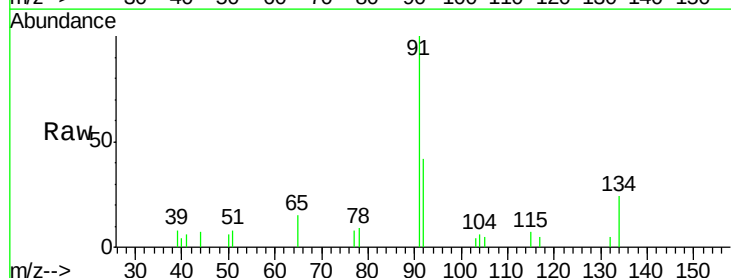
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

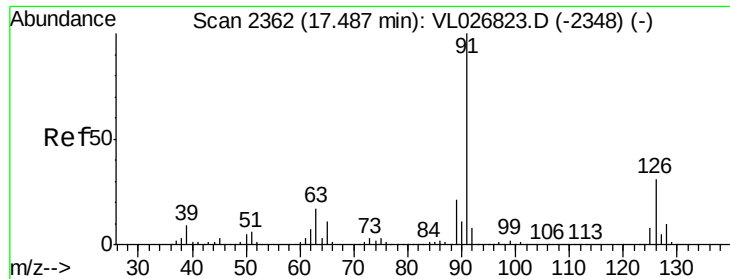
Tgt Ion: 119 Resp: 20290
Ion Ratio Lower Upper
119 100
134 27.9 21.3 31.9
91 30.7 21.5 32.3



#70
n-Butylbenzene
Concen: 0.02 ppbv
RT: 20.81 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL026827.D
Acq: 9 Feb 2016 19:29

Tgt Ion: 91 Resp: 20243
Ion Ratio Lower Upper
91 100
92 49.5 44.2 66.4
134 20.8 19.3 28.9





#71

2-Chlorotoluene

Concen: 0.03 ppbv

RT: 17.47 min Scan# 2360

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

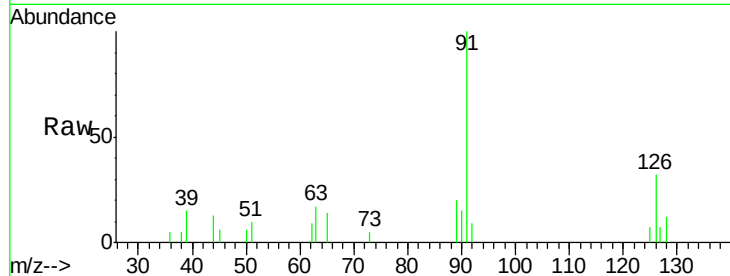
VSTDIC0.1

Tgt Ion: 91 Resp: 18776

Ion Ratio Lower Upper

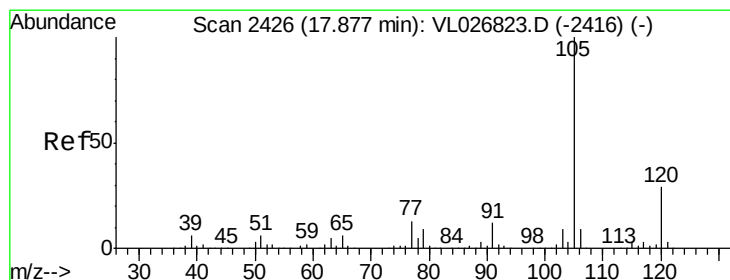
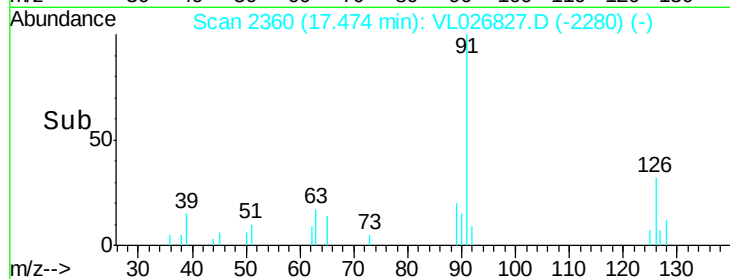
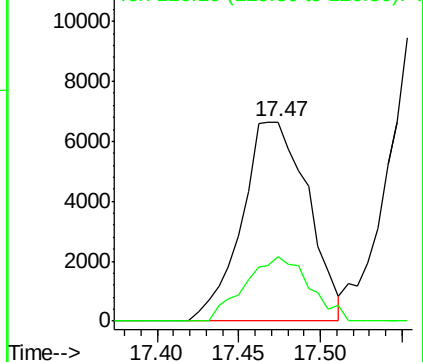
91 100

126 31.1 12.2 48.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.02 ppbv

RT: 17.87 min Scan# 2425

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Tgt Ion: 105 Resp: 16942

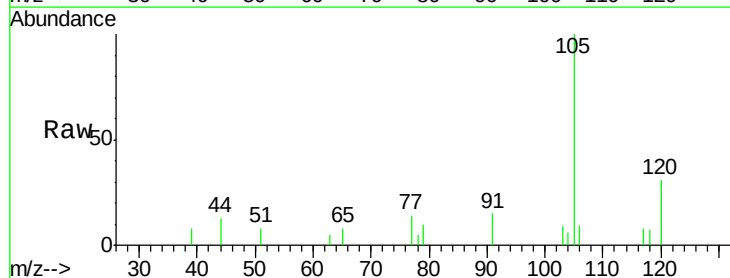
Ion Ratio Lower Upper

105 100

120 27.3 23.8 35.6

91 14.0 10.2 15.4

77 12.8 10.8 16.2

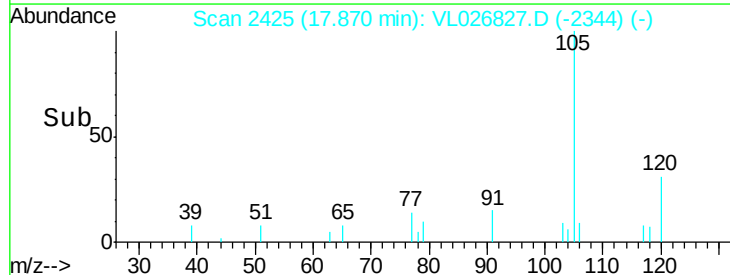
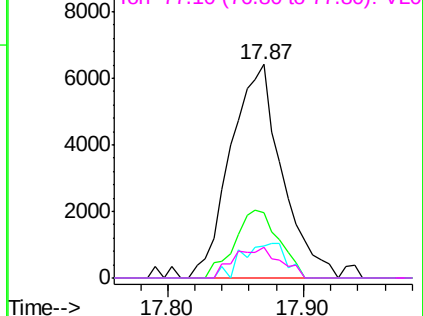


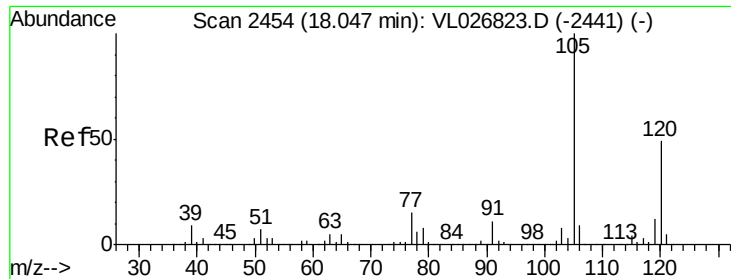
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

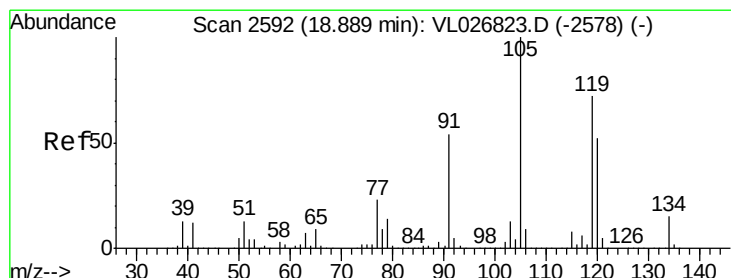
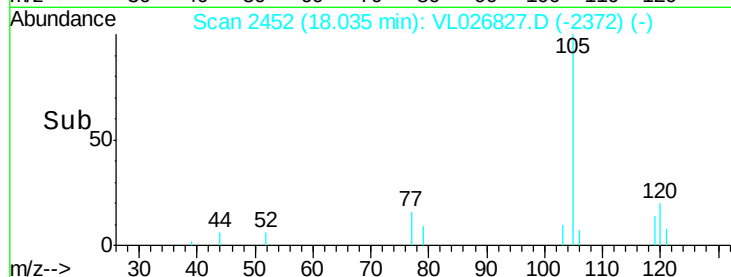
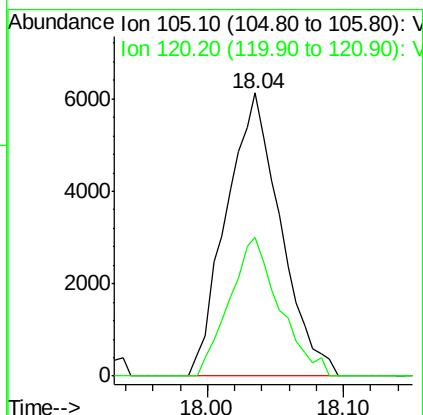
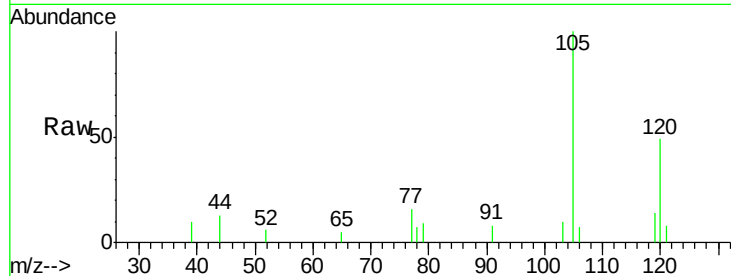




#73
 1,3,5-Trimethylbenzene
 Concen: 0.02 ppbv
 RT: 18.04 min Scan# 2452
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

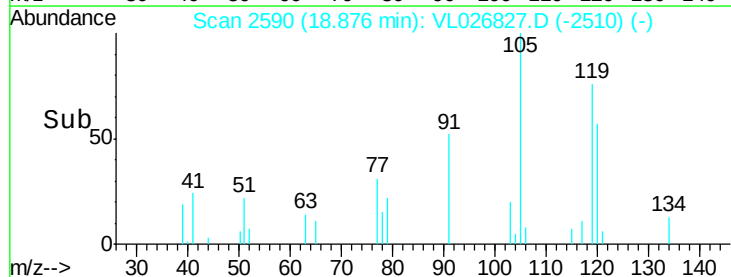
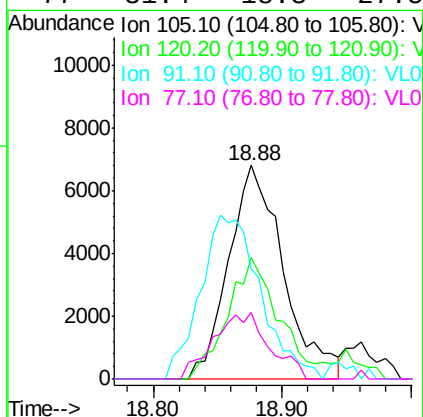
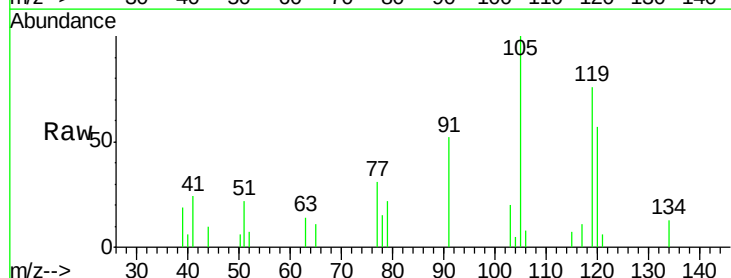
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

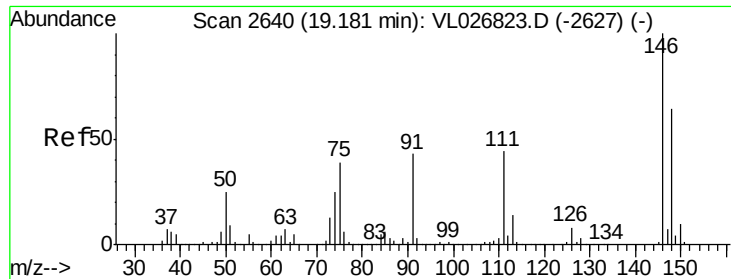
Tgt Ion:105 Resp: 17054
 Ion Ratio Lower Upper
 105 100
 120 48.8 39.4 59.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.03 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion:105 Resp: 20153
 Ion Ratio Lower Upper
 105 100
 120 56.9 41.3 61.9
 91 44.3 43.3 64.9
 77 31.4 18.3 27.5#





#75

1,3-Dichlorobenzene

Concen: 0.04 ppbv

RT: 19.17 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

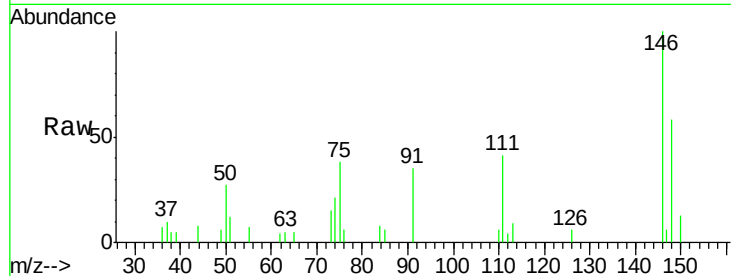
Tgt Ion:146 Resp: 21524

Ion Ratio Lower Upper

146 100

111 42.6 22.1 66.3

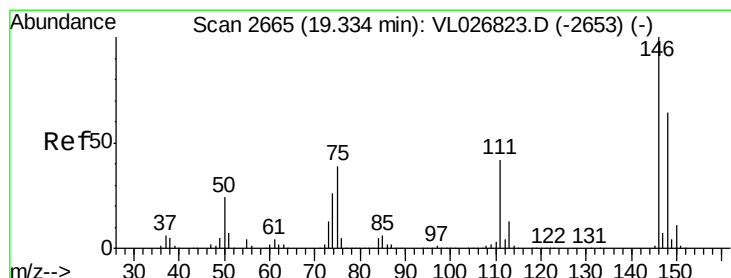
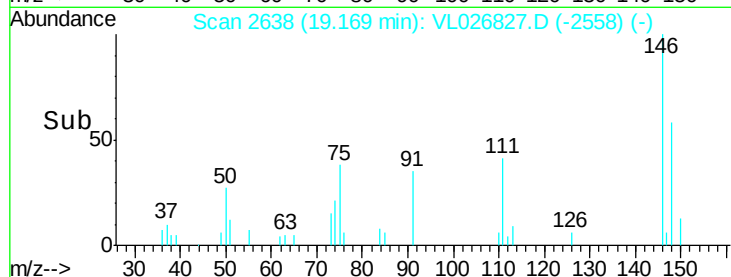
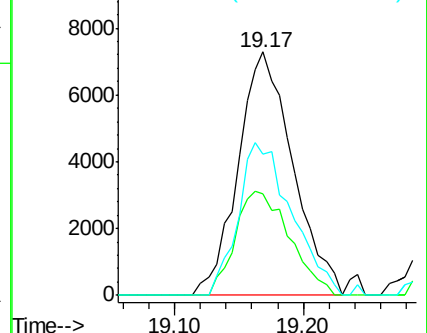
148 61.8 32.2 96.6



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



#76

1,4-Dichlorobenzene

Concen: 0.03 ppbv

RT: 19.33 min Scan# 2664

Delta R.T. -0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

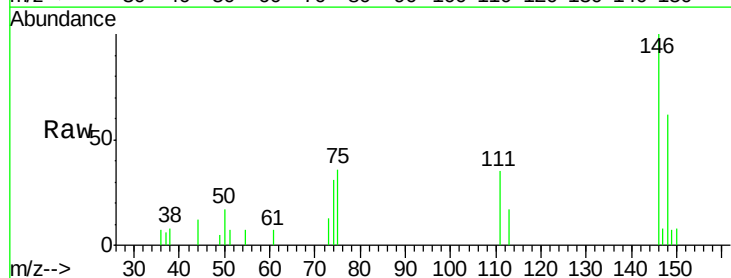
Tgt Ion:146 Resp: 18152

Ion Ratio Lower Upper

146 100

111 40.3 21.6 64.8

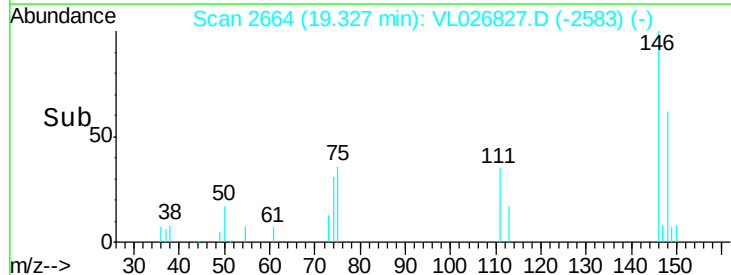
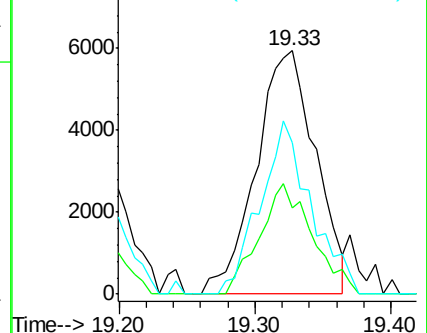
148 61.0 32.2 96.6

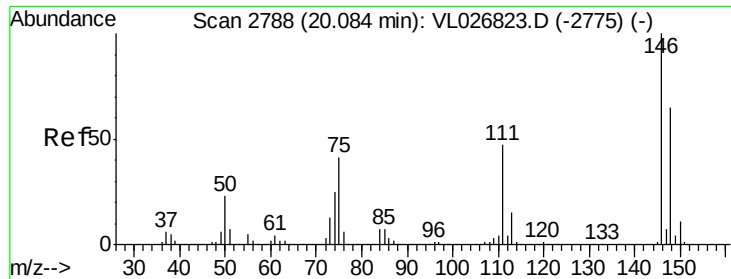


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

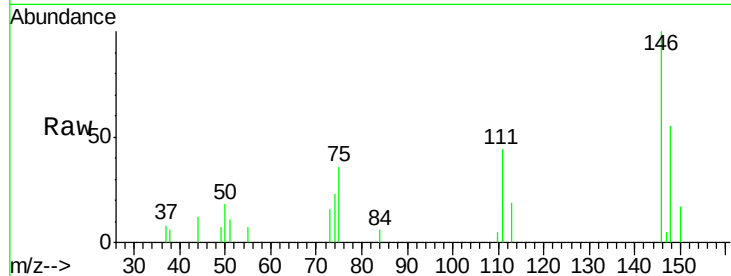




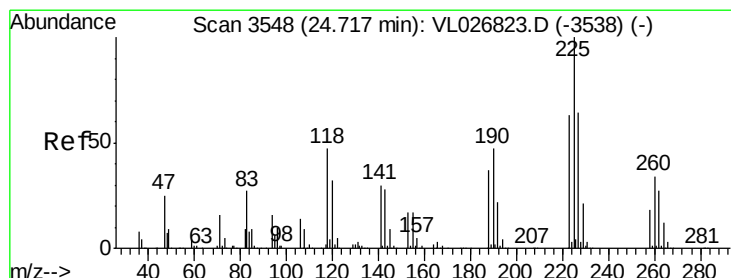
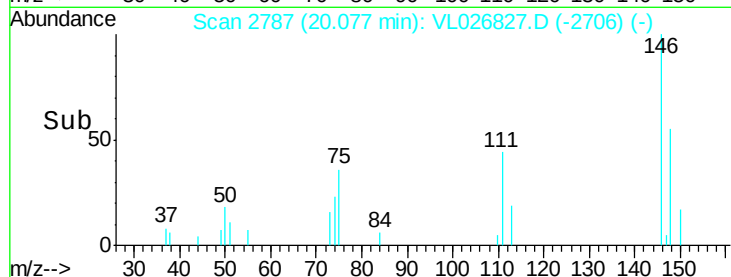
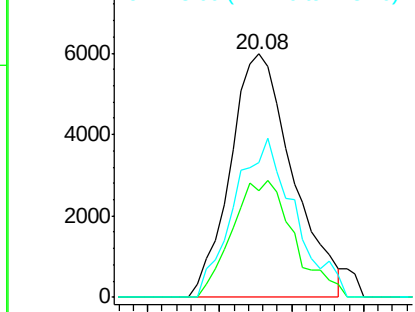
#77
 1,2-Dichlorobenzene
 Concen: 0.03 ppbv
 RT: 20.08 min Scan# 2787
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:146 Resp: 18010
 Ion Ratio Lower Upper
 146 100
 111 47.2 23.1 69.3
 148 63.4 32.1 96.5

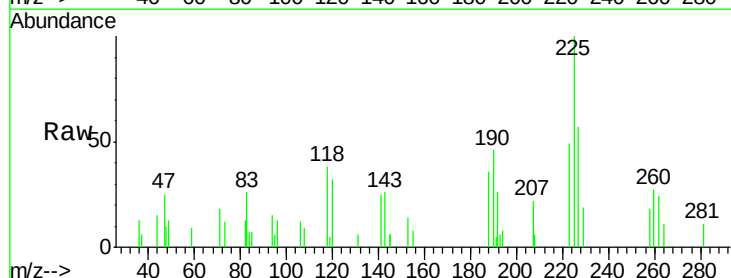


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

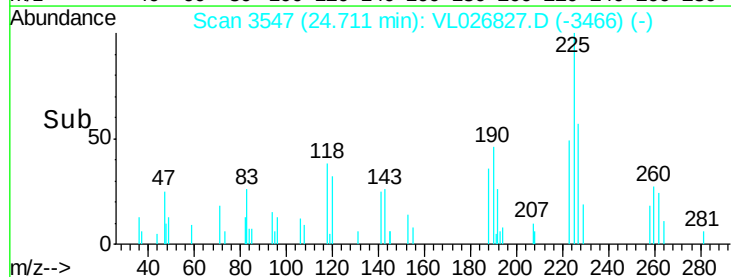
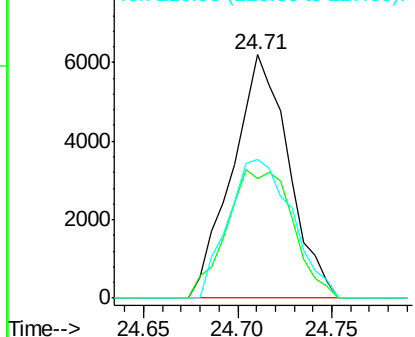


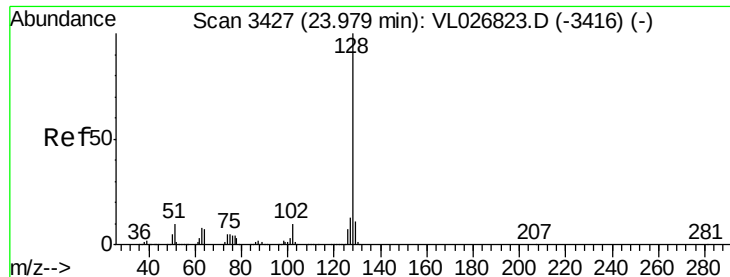
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.05 ppbv
 RT: 24.71 min Scan# 3547
 Delta R.T. -0.01 min
 Lab File: VL026827.D
 Acq: 9 Feb 2016 19:29

Tgt Ion:225 Resp: 12871
 Ion Ratio Lower Upper
 225 100
 223 61.4 50.2 75.2
 227 64.2 52.1 78.1



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: 0.02 ppbv

RT: 23.99 min Scan# 3428

Delta R.T. 0.01 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

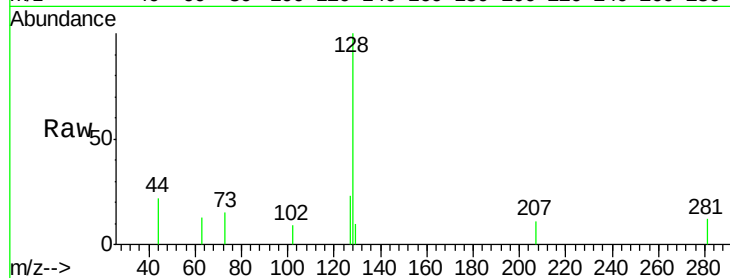
Tgt Ion:128 Resp: 10762

Ion Ratio Lower Upper

128 100

127 23.0 10.0 15.0#

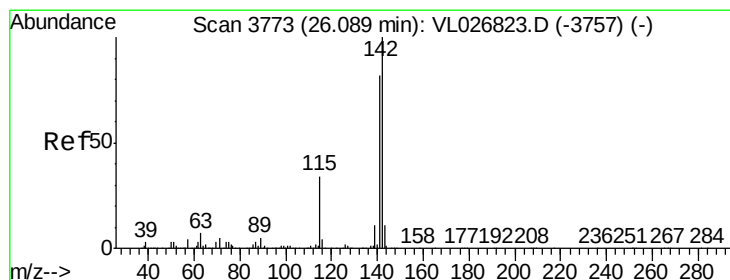
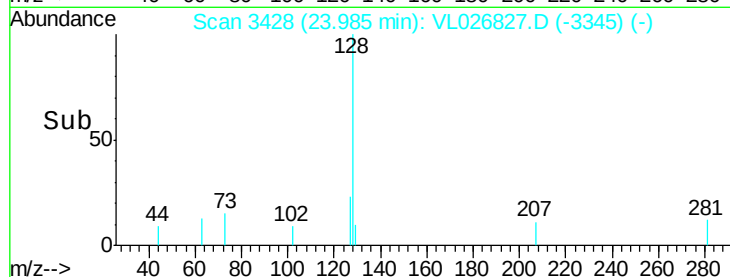
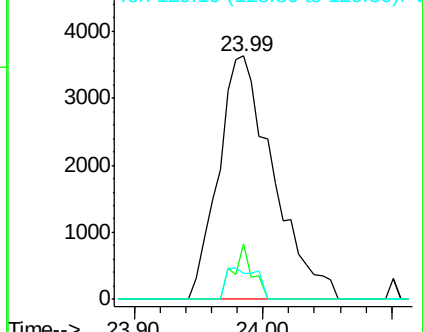
129 10.5 8.7 13.1



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.06 ppbv

RT: 26.12 min Scan# 3778

Delta R.T. 0.03 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

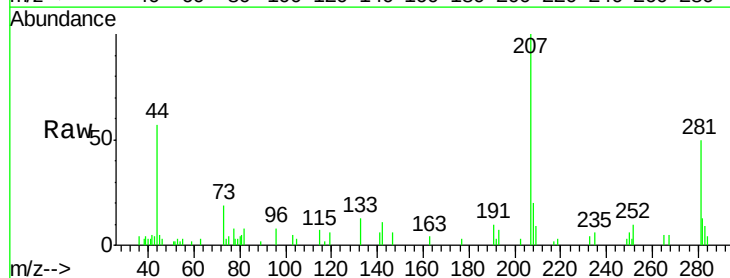
Tgt Ion:142 Resp: 7240

Ion Ratio Lower Upper

142 100

141 83.4 67.2 100.8

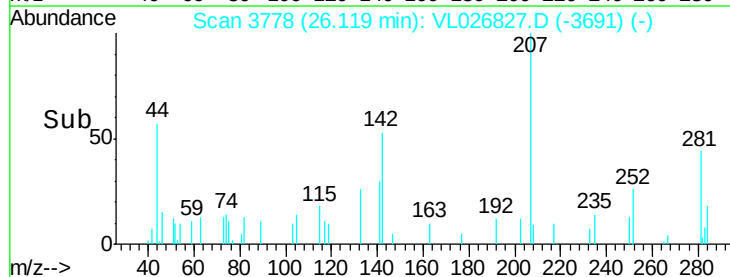
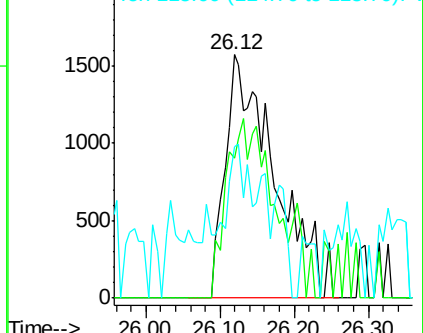
115 80.0 27.5 41.3#

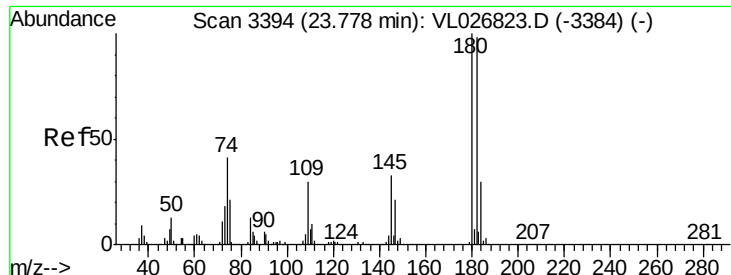


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.03 ppbv

RT: 23.78 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL026827.D

Acq: 9 Feb 2016 19:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

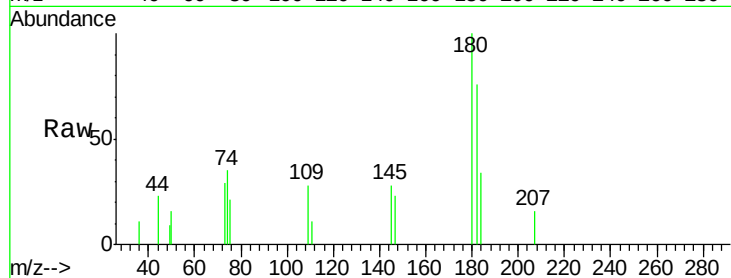
Tgt Ion:180 Resp: 7842

Ion Ratio Lower Upper

180 100

182 89.4 77.3 115.9

184 27.0 24.5 36.7



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

