

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
 Data File : VL026270.D
 Acq On : 29 Oct 2015 18:23
 Operator : SY/AP
 Sample : G4169-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
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 10/30/2015 12:06:38 PM

Quant Time: Oct 30 01:45:38 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 2015
 QLast Update : Thu Oct 29 14:29:54 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	571587	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	1542444	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.79	117	1533004	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	1143000	9.83	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	47835	0.39	ppbv	98
3) Chlorodifluoromethane	3.60	51	134835m	1.87	ppbv	
4) Chloromethane	3.78	50	16482	0.40	ppbv	97
9) Propene	3.63	41	17341	0.50	ppbv #	80
11) Trichlorofluoromethane	4.73	101	24942	0.22	ppbv	99
13) Ethanol	4.39	45	15121	2.92	ppbv	86
15) Acetone	4.64	43	185087	2.45	ppbv	97
20) Methylene Chloride	5.18	84	20630	0.63	ppbv	94
26) Hexane	6.69	57	11098	0.14	ppbv	84
34) 2-Butanone	6.28	43	13716	0.15	ppbv	96
35) Carbon Tetrachloride	8.20	117	6716	0.06	ppbv	96
36) Benzene	8.06	78	24696	0.15	ppbv	95
53) Toluene	11.27	91	57858	0.27	ppbv	98
74) 1,2,4-Trimethylbenzene	18.88	105	23863	0.10	ppbv #	70

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

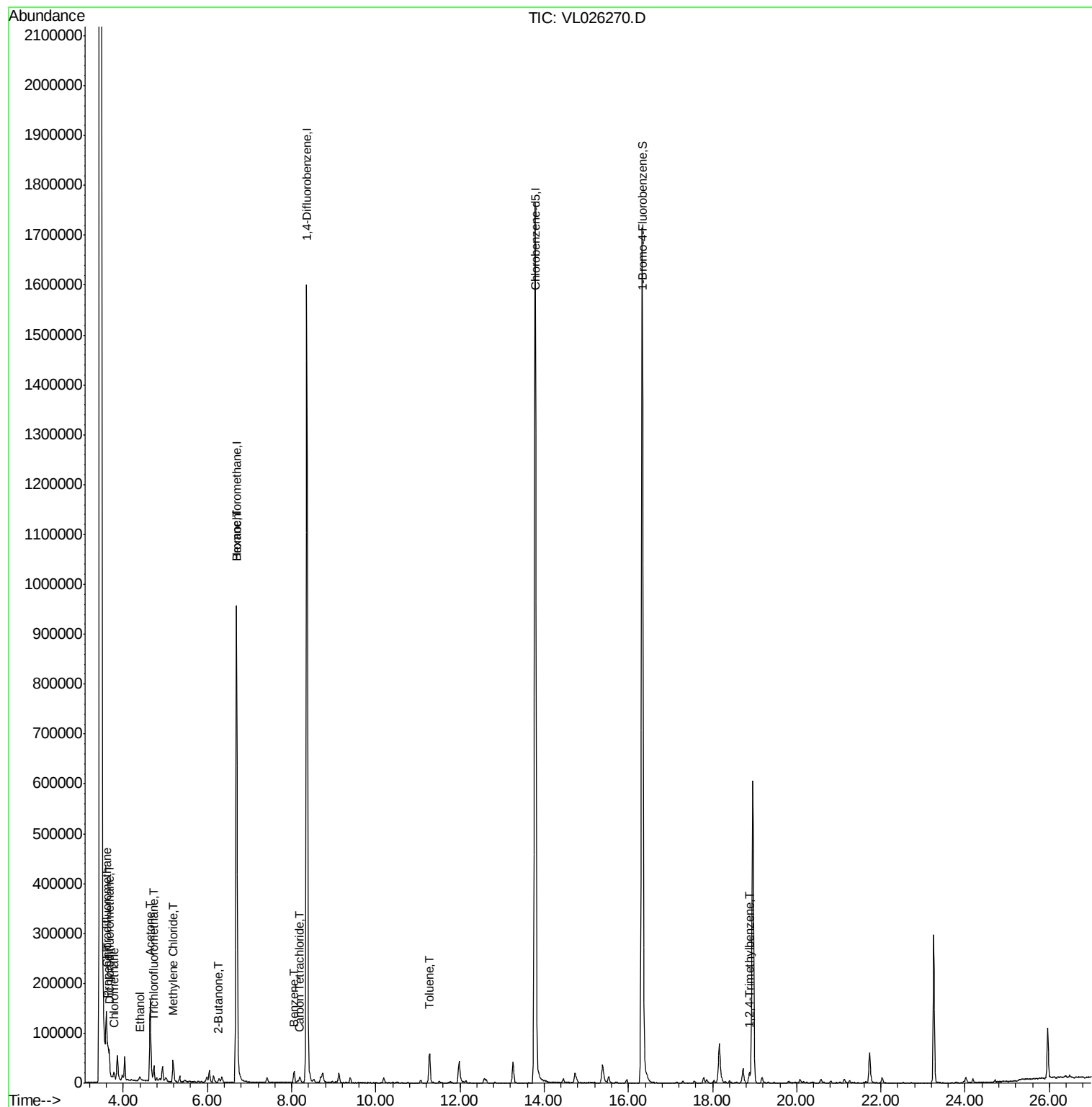
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
Data File : VL026270.D
Acq On : 29 Oct 2015 18:23
Operator : SY/AP
Sample : G4169-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

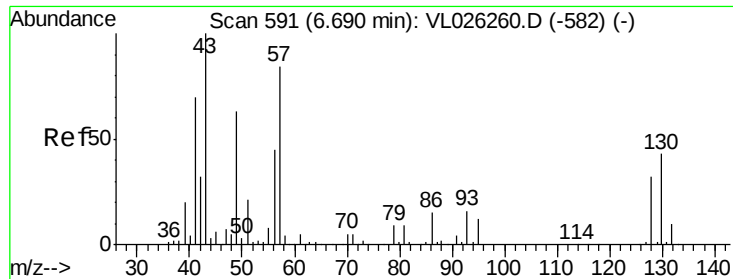
Instrument :
MSVOA_L
ClientSampled :
OA1

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Quant Time: Oct 30 01:45:38 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 29 14:29:54 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. 0.00 min

Lab File: VL026270.D

Acq: 29 Oct 2015 18:23

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 49 Resp: 571587

Ion Ratio Lower Upper

49 100

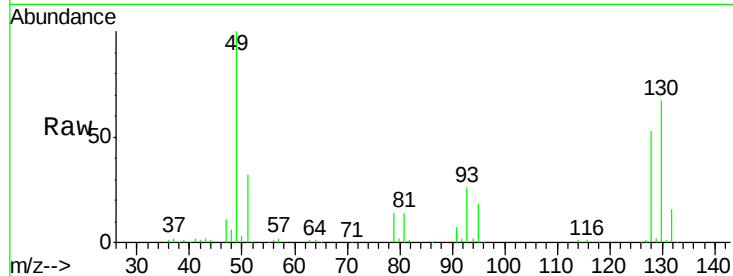
128 53.6 26.7 80.1

130 68.2 34.4 103.2

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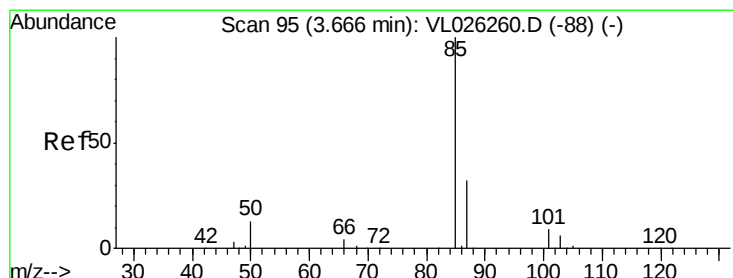
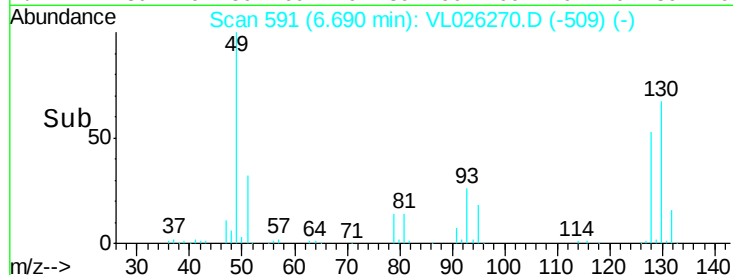
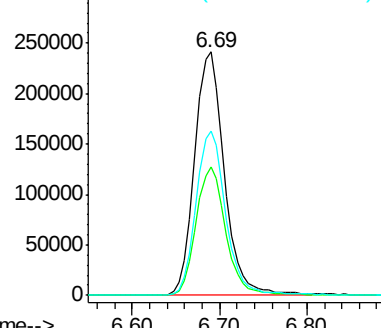
10/30/2015 12:06:38 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.39 ppbv

RT: 3.67 min Scan# 96

Delta R.T. 0.01 min

Lab File: VL026270.D

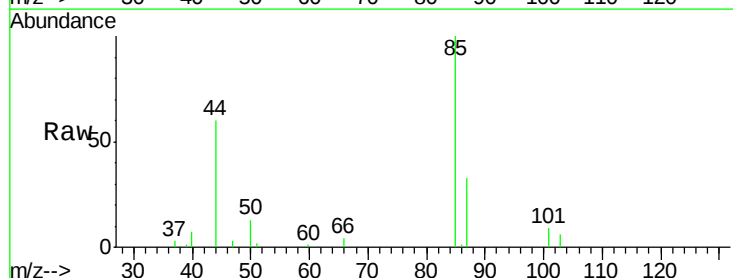
Acq: 29 Oct 2015 18:23

Tgt Ion: 85 Resp: 47835

Ion Ratio Lower Upper

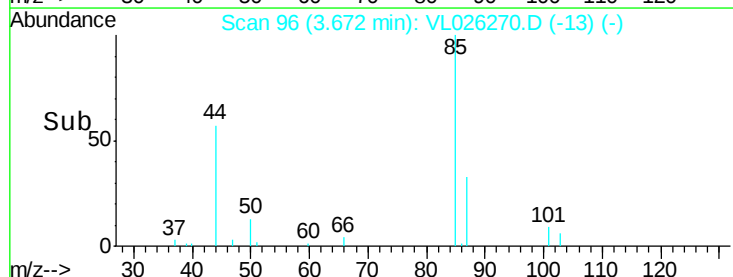
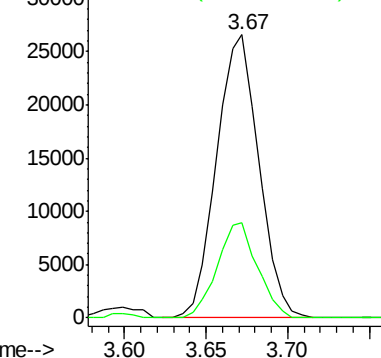
85 100

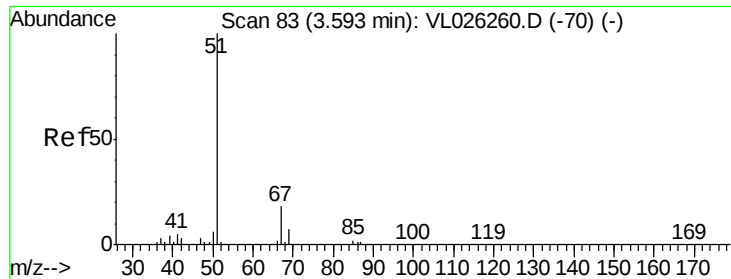
87 33.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.87 ppbv m

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL026270.D

Acq: 29 Oct 2015 18:23

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 51 Resp: 134835

Ion Ratio Lower Upper

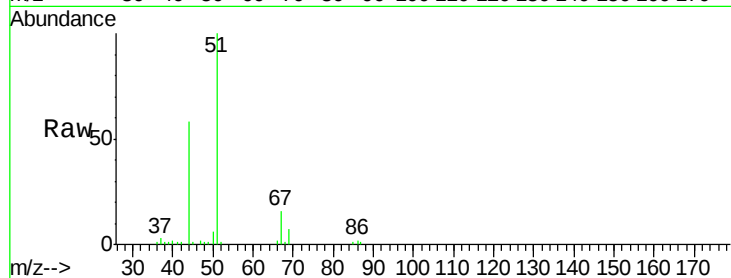
51 100

67 17.3 14.5 21.7

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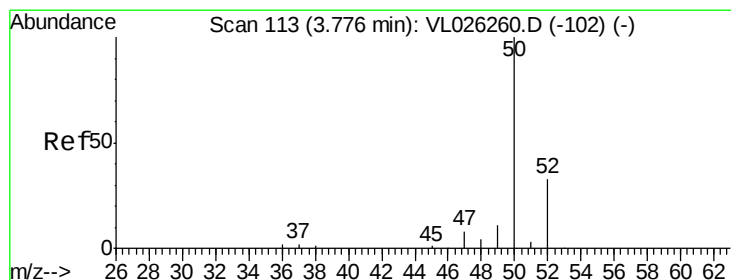
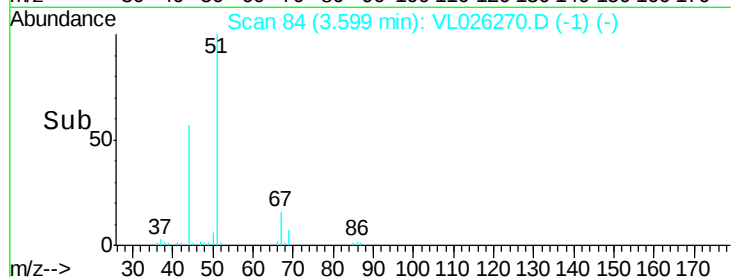
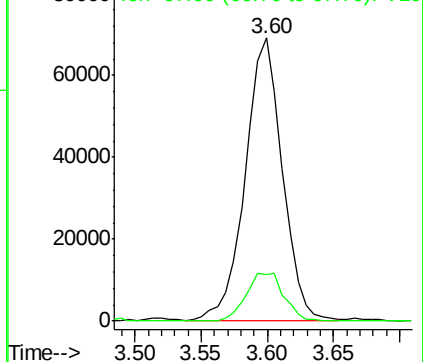
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.40 ppbv

RT: 3.78 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL026270.D

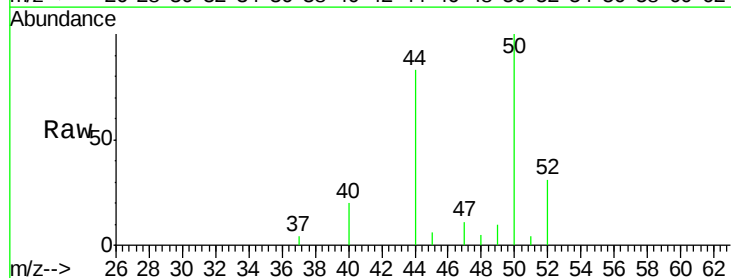
Acq: 29 Oct 2015 18:23

Tgt Ion: 50 Resp: 16482

Ion Ratio Lower Upper

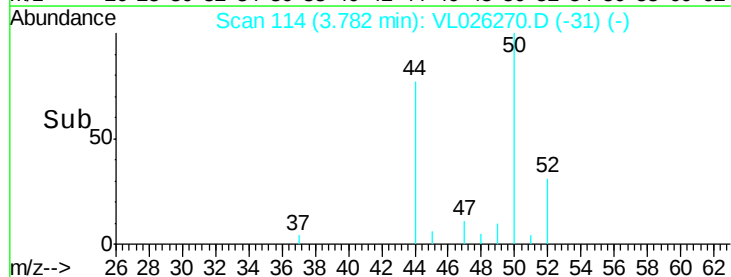
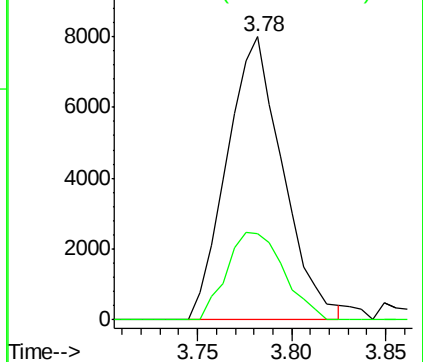
50 100

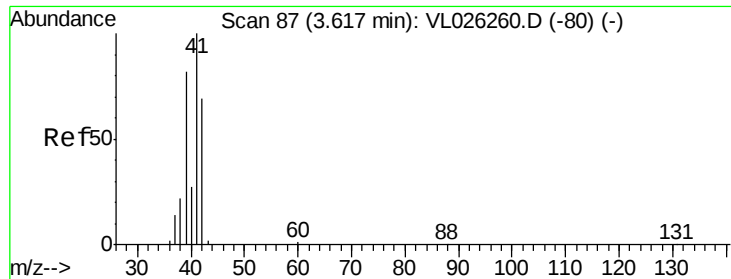
52 30.6 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.50 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL026270.D

Acq: 29 Oct 2015 18:23

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 41 Resp: 17341

Ion Ratio Lower Upper

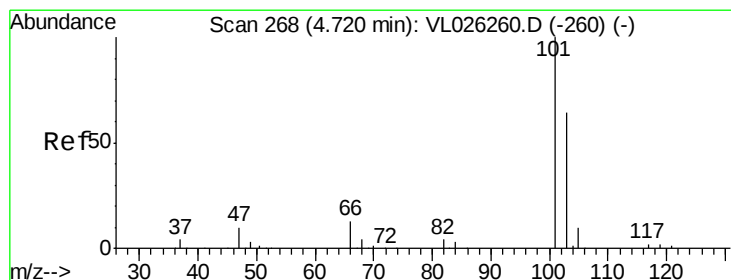
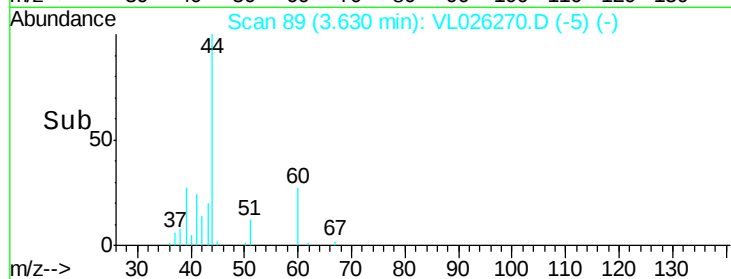
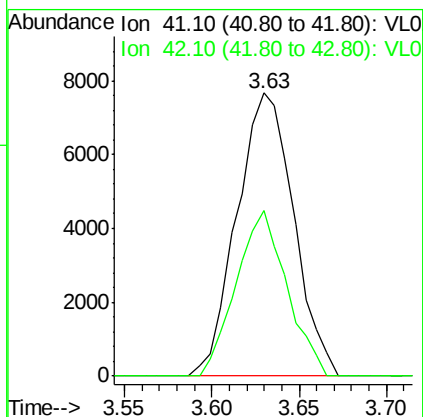
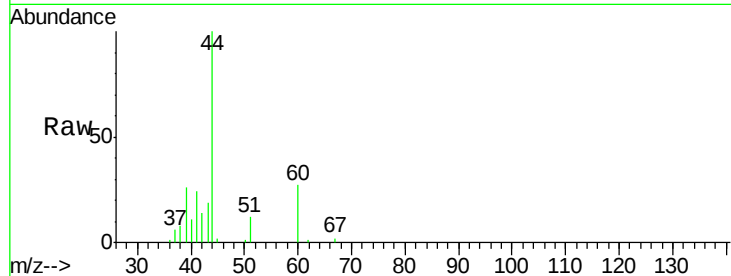
41 100

42 51.9 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.22 ppbv

RT: 4.73 min Scan# 269

Delta R.T. 0.01 min

Lab File: VL026270.D

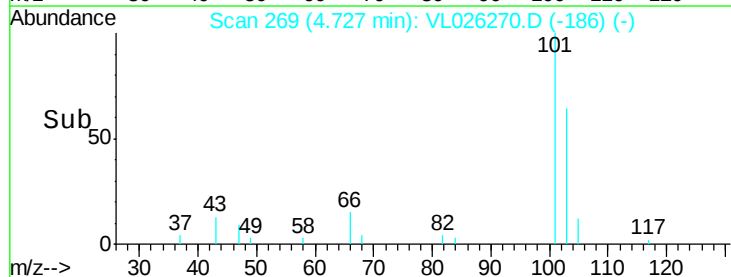
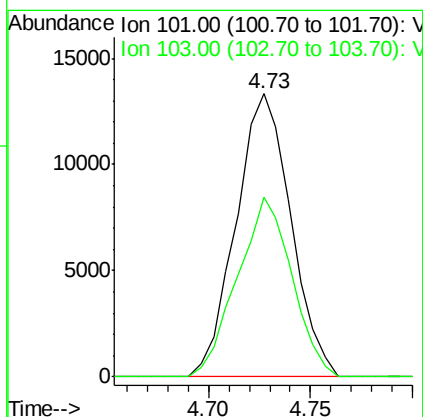
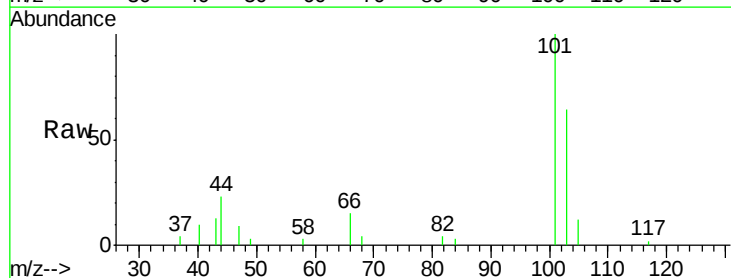
Acq: 29 Oct 2015 18:23

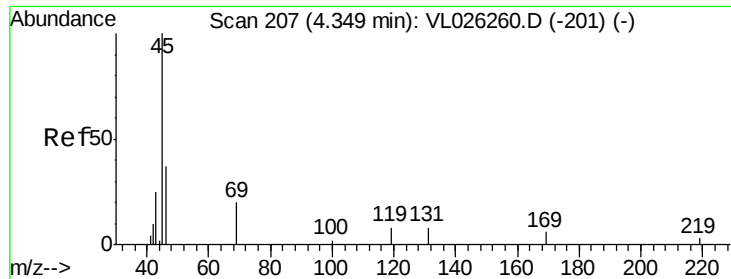
Tgt Ion: 101 Resp: 24942

Ion Ratio Lower Upper

101 100

103 63.6 51.4 77.0





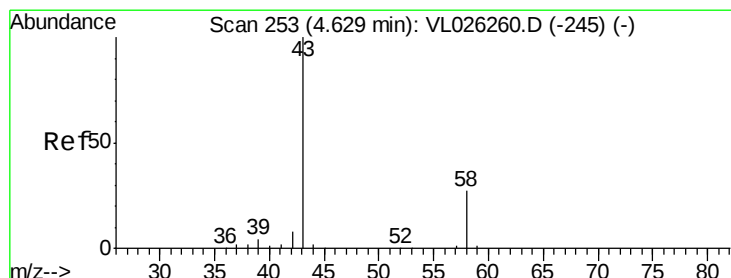
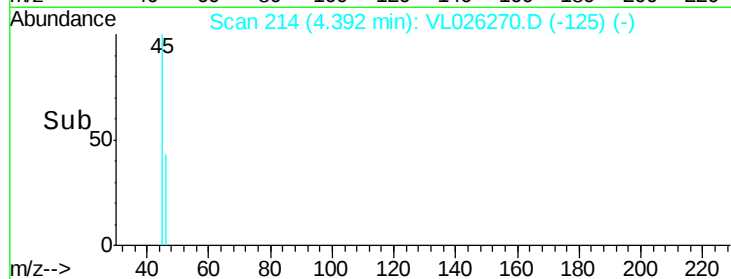
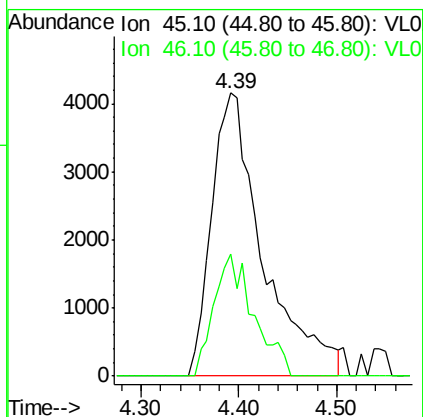
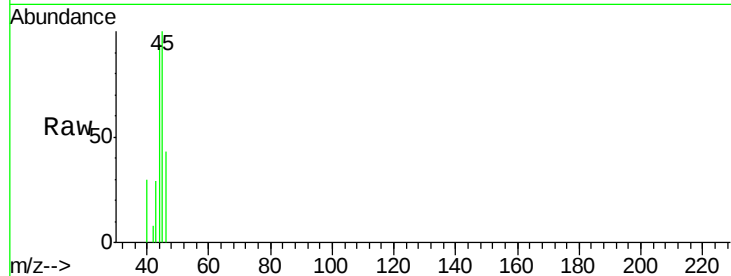
#13
Ethanol
Concen: 2.92 ppbv
RT: 4.39 min Scan# 214
Delta R.T. 0.04 min
Lab File: VL026270.D
Acq: 29 Oct 2015 18:23

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion: 45 Resp: 15121
Ion Ratio Lower Upper
45 100
46 33.3 17.0 68.0

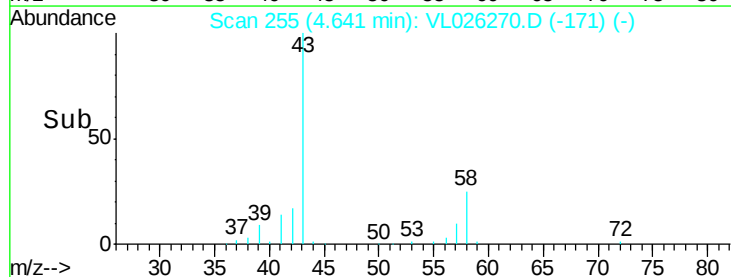
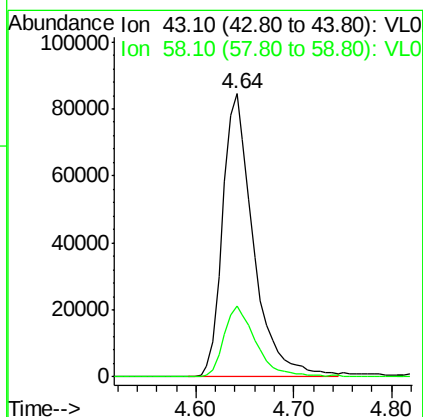
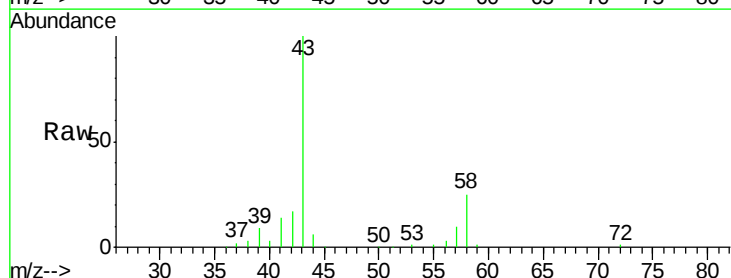
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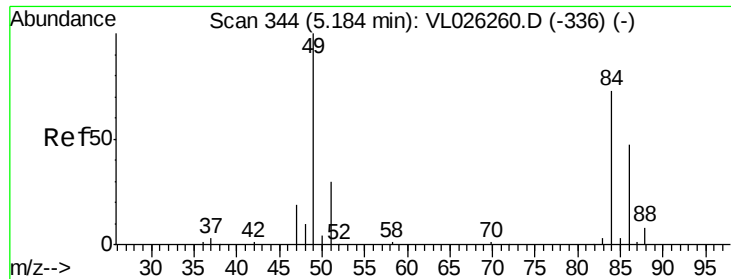
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#15
Acetone
Concen: 2.45 ppbv
RT: 4.64 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL026270.D
Acq: 29 Oct 2015 18:23

Tgt Ion: 43 Resp: 185087
Ion Ratio Lower Upper
43 100
58 26.2 22.3 33.5





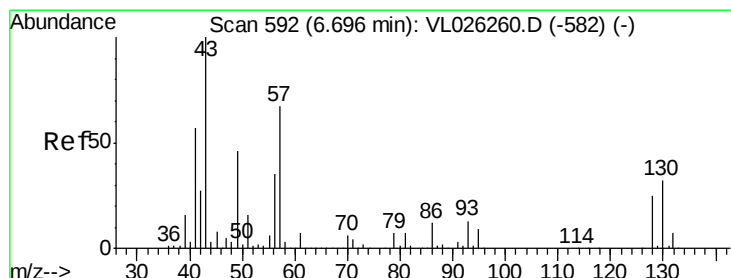
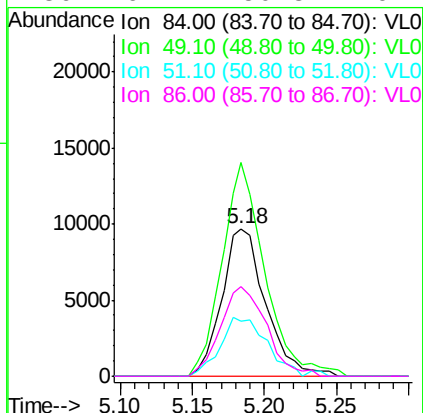
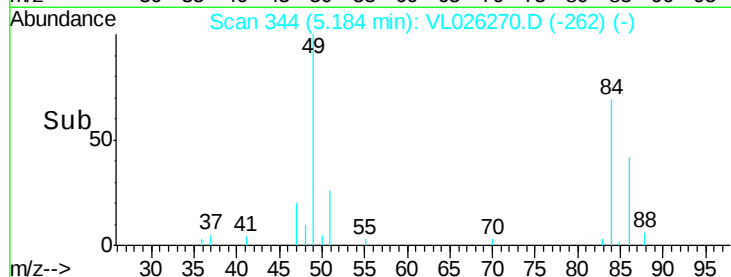
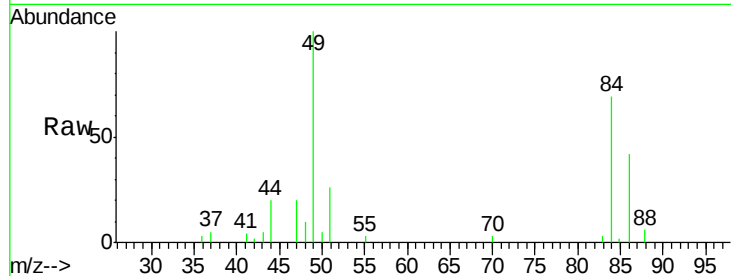
#20
Methvlene Chloride
Concen: 0.63 ppbv
RT: 5.18 min Scan# 344
Delta R.T. 0.00 min
Lab File: VL026270.D
Acq: 29 Oct 2015 18:23

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion:	84	Resp:	20630
Ion	Ratio	Lower	Upper
84	100		
49	145.1	109.0	163.4
51	37.8	32.8	49.2
86	61.1	50.8	76.2

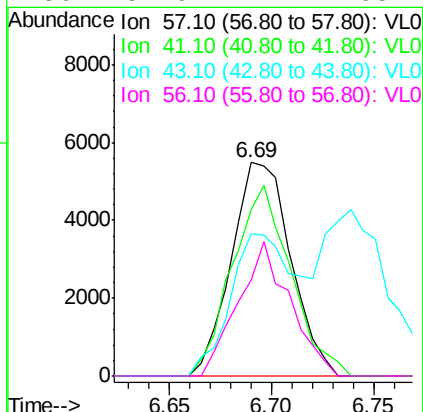
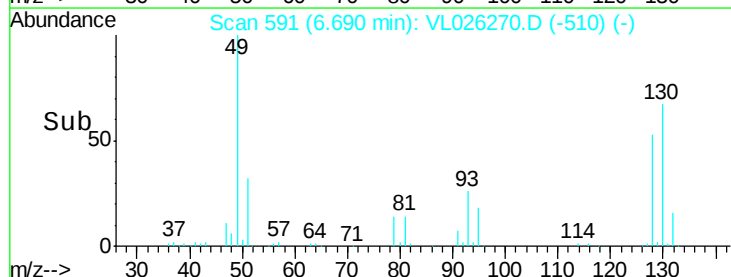
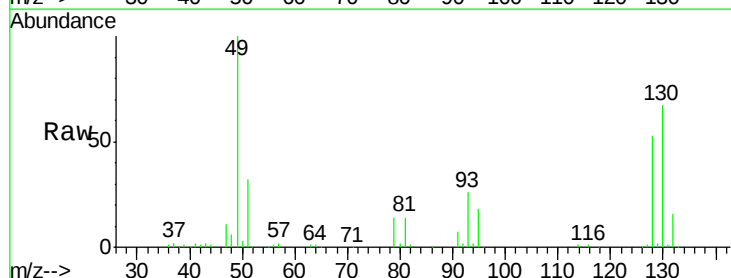
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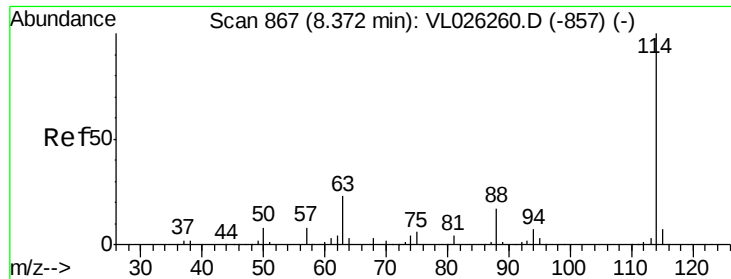
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#26
Hexane
Concen: 0.14 ppbv
RT: 6.69 min Scan# 591
Delta R.T. -0.01 min
Lab File: VL026270.D
Acq: 29 Oct 2015 18:23

Tgt Ion:	57	Resp:	11098
Ion	Ratio	Lower	Upper
57	100		
41	88.2	67.4	101.2
43	168.5	163.9	245.9
56	54.9	42.2	63.2





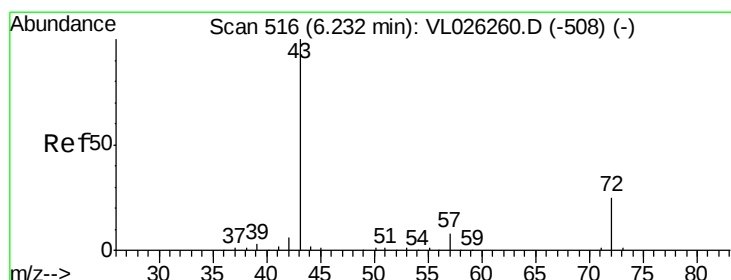
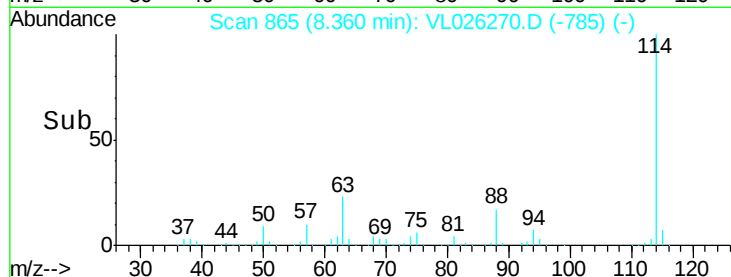
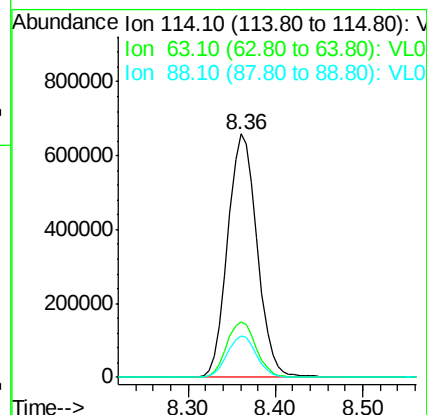
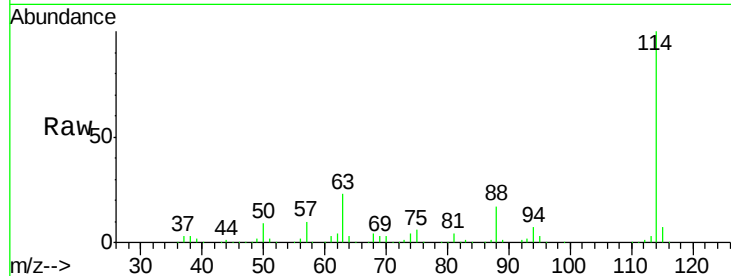
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.36 min Scan# 865
 Delta R.T. -0.01 min
 Lab File: VL026270.D
 Acq: 29 Oct 2015 18:23

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion:114 Resp: 1542444
 Ion Ratio Lower Upper
 114 100
 63 22.9 18.6 28.0
 88 16.9 13.4 20.2

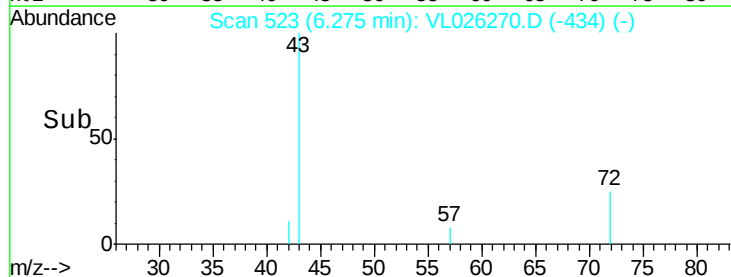
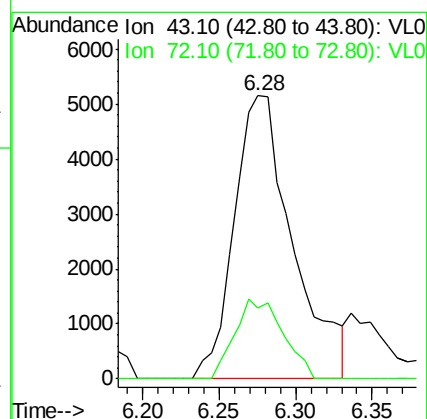
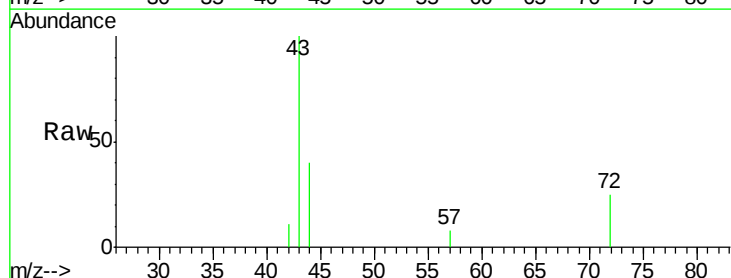
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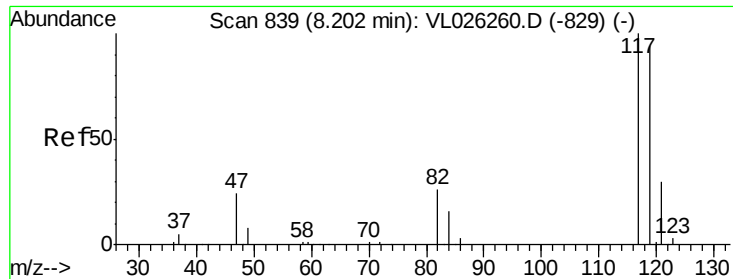
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#34
 2-Butanone
 Concen: 0.15 ppbv
 RT: 6.28 min Scan# 523
 Delta R.T. 0.04 min
 Lab File: VL026270.D
 Acq: 29 Oct 2015 18:23

Tgt Ion: 43 Resp: 13716
 Ion Ratio Lower Upper
 43 100
 72 23.1 19.9 29.9





#35

Carbon Tetrachloride

Concen: 0.06 ppbv

RT: 8.20 min Scan# 839

Delta R.T. 0.00 min

Lab File: VL026270.D

Acq: 29 Oct 2015 18:23

Instrument :

MSVOA_L

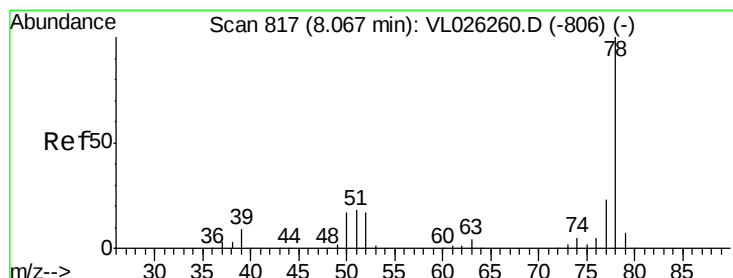
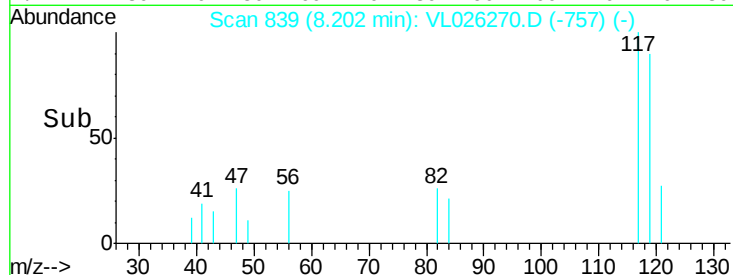
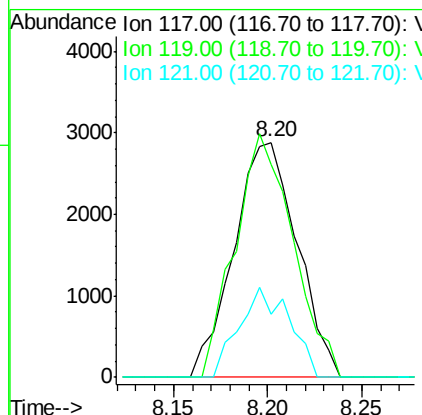
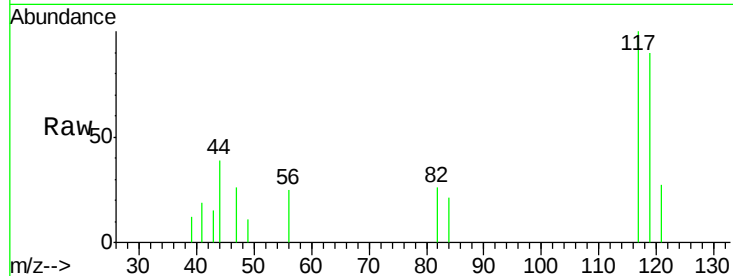
ClientSampleId :

QA1

Tot Ion:	117	Resp:	6716
Ion	Ratio	Lower	Upper
117	100		
119	90.4	75.2	112.8
121	26.8	24.2	36.2

Manual Integrations
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#36

Benzene

Concen: 0.15 ppbv

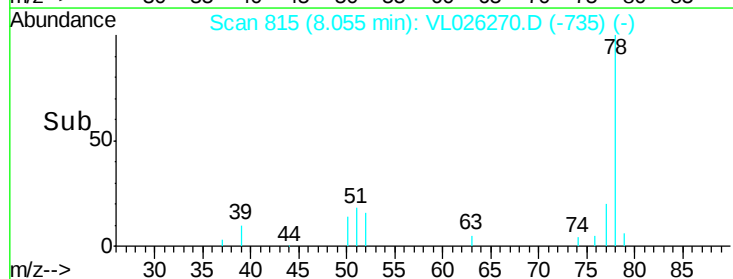
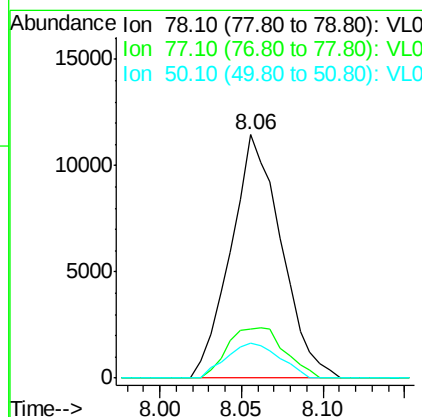
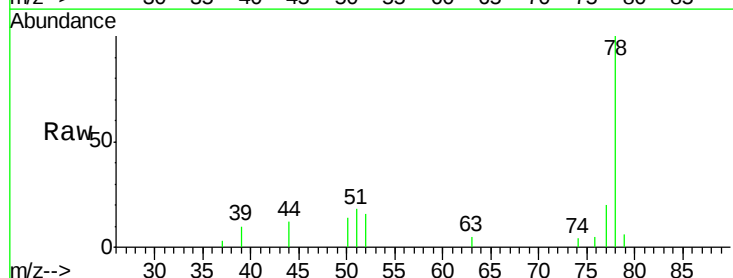
RT: 8.06 min Scan# 815

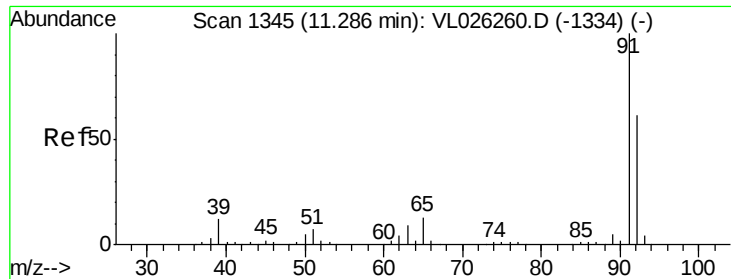
Delta R.T. -0.01 min

Lab File: VL026270.D

Acq: 29 Oct 2015 18:23

Tgt Ion:	78	Resp:	24696
Ion	Ratio	Lower	Upper
78	100		
77	20.2	18.0	27.0
50	14.1	13.3	19.9





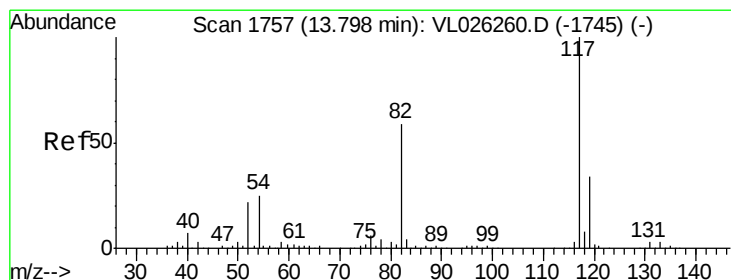
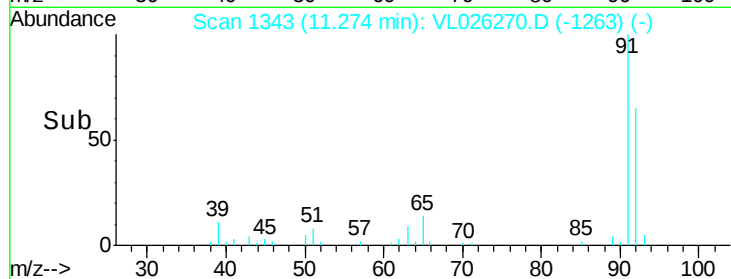
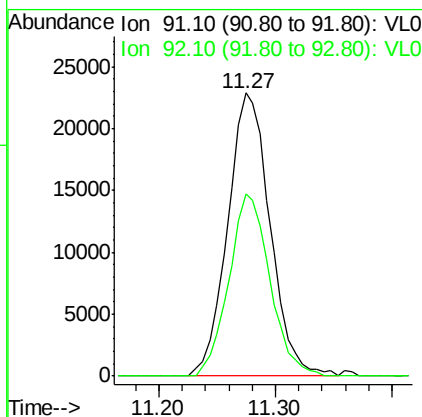
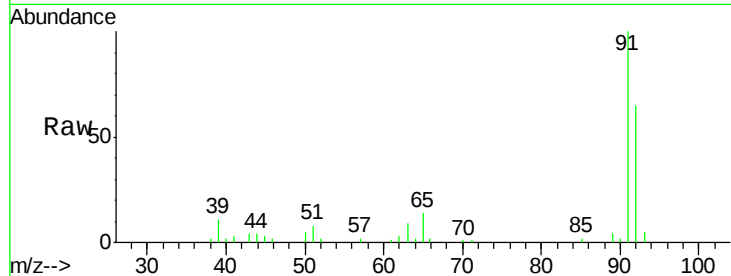
#53
Toluene
Concen: 0.27 ppbv
RT: 11.27 min Scan# 1343
Delta R.T. -0.01 min
Lab File: VL026270.D
Acq: 29 Oct 2015 18:23

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion: 91 Resp: 57858
Ion Ratio Lower Upper
91 100
92 62.2 48.6 73.0

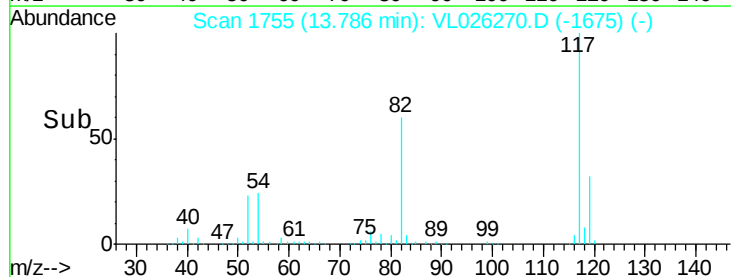
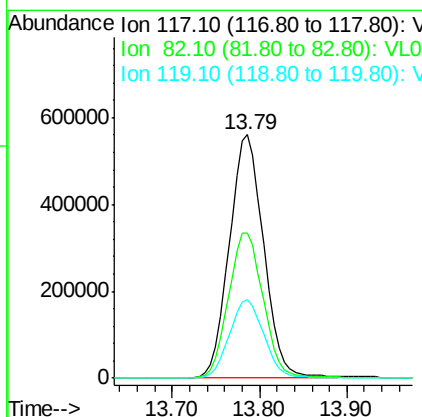
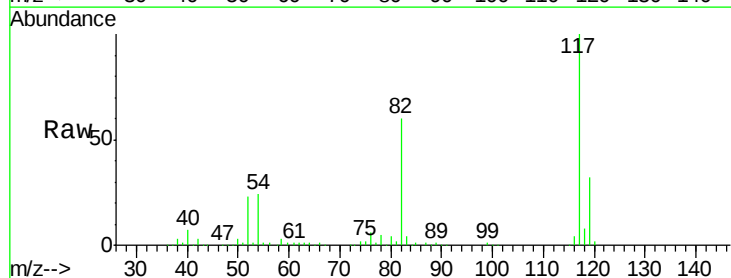
Manual Integrations
APPROVED

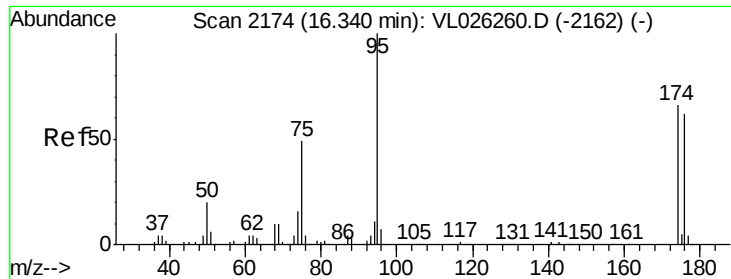
Mmdadoda
10/30/2015 12:06:38 PM



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026270.D
Acq: 29 Oct 2015 18:23

Tgt Ion: 117 Resp: 1533004
Ion Ratio Lower Upper
117 100
82 61.3 48.2 72.4
119 32.9 46.2 69.2#





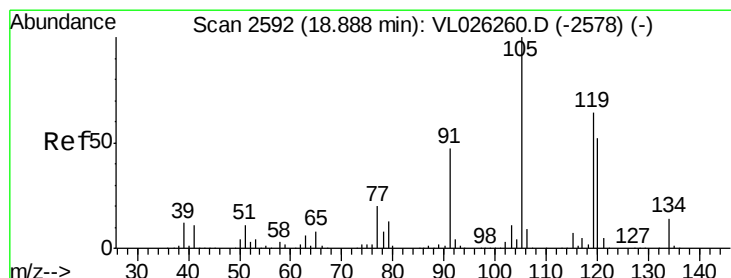
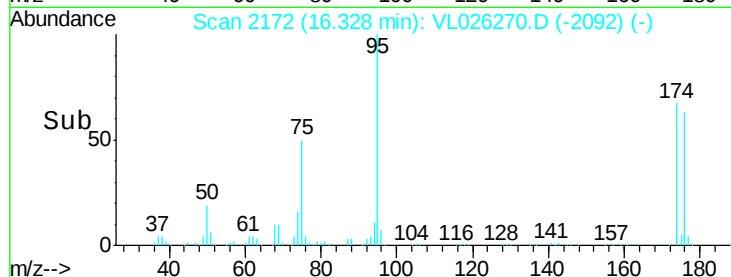
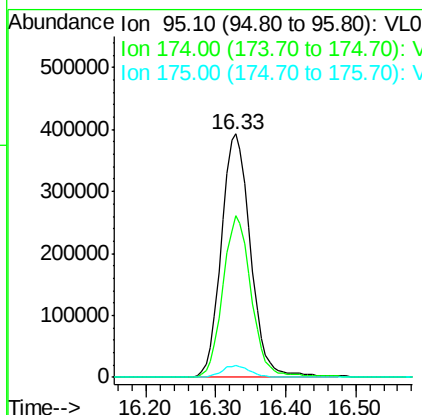
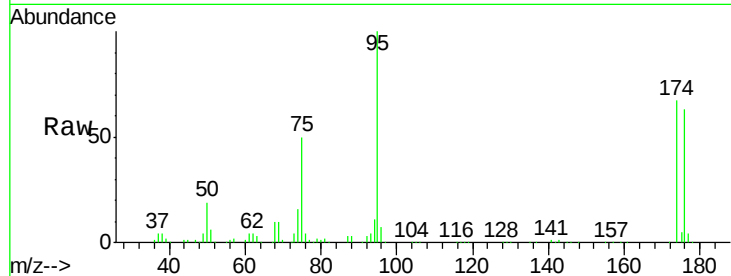
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.83 ppbv
 RT: 16.33 min Scan# 2172
 Delta R.T. -0.01 min
 Lab File: VL026270.D
 Acq: 29 Oct 2015 18:23

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tot Ion: 95 Resp: 1143000
 Ion Ratio Lower Upper
 95 100
 174 65.2 52.9 79.3
 175 4.7 3.8 5.8

Manual Integrations
 APPROVED

Mmdadoda
 10/30/2015 12:06:38 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.10 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: VL026270.D
 Acq: 29 Oct 2015 18:23

Tgt Ion: 105 Resp: 23863
 Ion Ratio Lower Upper
 105 100
 120 41.1 41.2 61.8#
 91 12.2 37.8 56.8#
 77 14.0 16.1 24.1#

