

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102115\
 Data File : VL026244.D
 Acq On : 21 Oct 2015 19:05
 Operator : SY/MD
 Sample : G4128-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFF

Quant Time: Oct 22 08:36:26 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 01:20:55 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	466976	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.30	114	1356813	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.71	117	1705022	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	1332855	10.14	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.62	85	14052	0.15	ppbv	94
3) Chlorodifluoromethane	3.55	51	90543	1.53	ppbv #	82
4) Chloromethane	3.73	50	228838	7.17	ppbv	100
5) Vinyl Chloride	3.58	62	688	0.02	ppbv #	43
6) Bromomethane	4.12	94	1665	0.07	ppbv	98
7) Chloroethane	4.22	64	3855	0.27	ppbv #	79
8) Dichlorotetrafluoroethane	3.79	85	2420	0.03	ppbv	91
9) Propene	3.57	41	20989	0.76	ppbv	92
10) Heptane	9.32	43	24459	0.26	ppbv	100
11) Trichlorofluoromethane	4.67	101	199346	2.10	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.28	101	13153	0.20	ppbv	97
13) Ethanol	4.31	45	6940	1.67	ppbv	93
15) Acetone	4.57	43	876417	12.75	ppbv	100
16) 1,3-Butadiene	3.92	39	79146	2.58	ppbv #	14
17) tert-Butyl alcohol	5.11	59	5895	0.13	ppbv #	72
18) 1,1-Dichloroethene	5.06	96	14167	0.48	ppbv	93
19) Isopropyl Alcohol	4.73	45	32548	1.21	ppbv #	27
20) Methylene Chloride	5.12	84	25009	0.91	ppbv	94
21) Allyl Chloride	5.14	41	6951	0.15	ppbv #	66
22) trans-1,2-Dichloroethene	5.74	96	25459	0.67	ppbv	94
23) Vinyl Acetate	5.96	43	252115	1.99	ppbv #	85
24) 1,1-Dichloroethane	5.88	63	3071	0.04	ppbv #	85
25) Ethyl Acetate	6.63	43	34114	0.26	ppbv #	78
26) Hexane	6.63	57	49123	0.76	ppbv #	49
27) Carbon Disulfide	5.36	76	12453	0.15	ppbv #	40
28) Methyl tert-Butyl Ether	5.84	73	8600	0.07	ppbv #	81
29) Chloroform	6.72	83	25056	0.27	ppbv	97
30) Cyclohexane	8.26	84	14659	0.23	ppbv #	29
31) cis-1,2-Dichloroethene	6.49	61	2757449	47.16	ppbv	97
32) 1,1,1-Trichloroethane	7.57	97	17030	0.16	ppbv	96
34) 2-Butanone	6.18	43	175461	2.29	ppbv	100
35) Carbon Tetrachloride	8.13	117	3870	0.04	ppbv #	75
36) Benzene	7.99	78	37563	0.27	ppbv	97
37) 1,2-Dichloroethane	7.35	62	13310	0.19	ppbv #	94
38) Trichloroethene	9.03	130	1782450	26.59	ppbv	97
39) 1,2-Dichloropropane	9.03	63	7494	0.15	ppbv #	1
40) 1,4-Dioxane	9.14	88	2299	0.25	ppbv #	1
41) Tetrahydrofuran	7.12	42	13124	0.30	ppbv	94
42) Bromodichloromethane	9.03	83	28820	0.28	ppbv	95
44) 2,2,4-Trimethylpentane	9.06	57	12316	0.06	ppbv #	12
50) 4-Methyl-2-Pentanone	10.07	43	14641	0.14	ppbv #	79

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Quant Time: Oct 22 08:36:26 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 01:20:55 2015
 QLast Update : Wed Oct 21 01:20:55 2015
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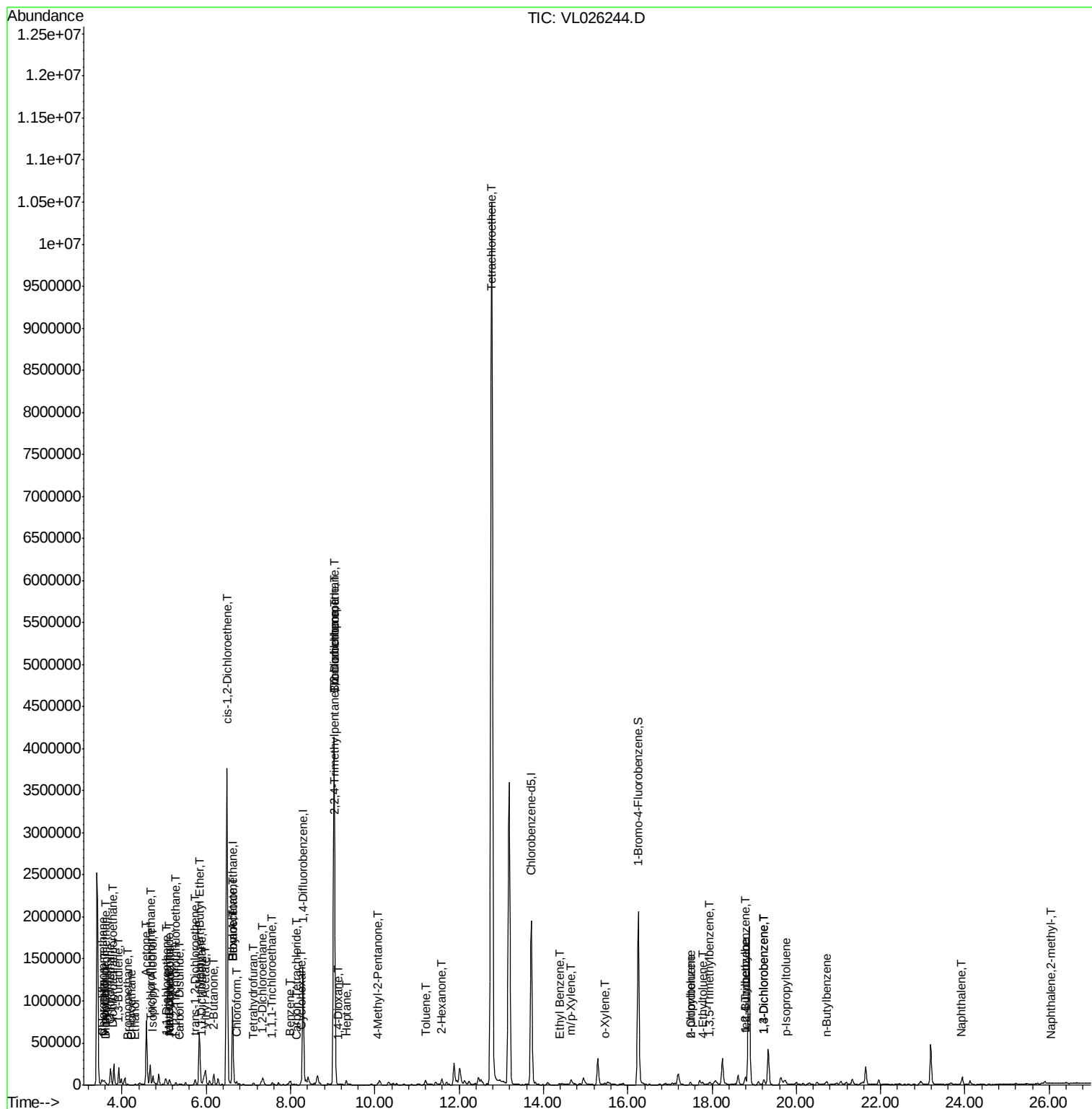
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) 2-Hexanone	11.59	43	65917	0.68	ppbv #	100
52) Tetrachloroethene	12.77	164	4227511	53.34	ppbv	98
53) Toluene	11.20	91	50941	0.27	ppbv	99
58) Ethyl Benzene	14.38	91	17551	0.06	ppbv	100
59) m/p-Xylene	14.66	91	68324	0.32	ppbv	96
60) o-Xylene	15.45	91	21372	0.09	ppbv	97
64) n-propylbenzene	17.48	120	4029	0.05	ppbv #	11
65) tert-Butylbenzene	18.79	119	10472	0.04	ppbv #	65
69) p-Isopropyltoluene	19.75	119	29835	0.09	ppbv #	82
70) n-Butylbenzene	20.72	91	21248	0.07	ppbv #	67
71) 2-Chlorotoluene	17.49	91	25063	0.11	ppbv #	42
72) 4-Ethyltoluene	17.79	105	24275	0.09	ppbv #	94
73) 1,3,5-Trimethylbenzene	17.95	105	29620	0.12	ppbv	97
74) 1,2,4-Trimethylbenzene	18.79	105	87059	0.34	ppbv #	74
75) 1,3-Dichlorobenzene	19.23	146	49908	0.30	ppbv	99
76) 1,4-Dichlorobenzene	19.23	146	49908	0.29	ppbv	99
79) Naphthalene	23.91	128	14919	0.07	ppbv	95
80) Naphthalene,2-methyl-	26.02	142	2473	0.06	ppbv #	84

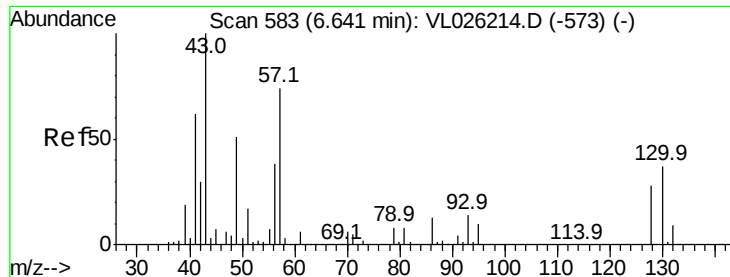
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample    : G4128-02  
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ALS Vial  : 1      Sample Multiplier: 1
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Instrument :
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Quant Time: Oct 22 08:36:26 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL102015AIR.M
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QLast Update : Wed Oct 21 01:20:55 2015
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.62 min Scan# 580

Delta R.T. -0.02 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

EFF

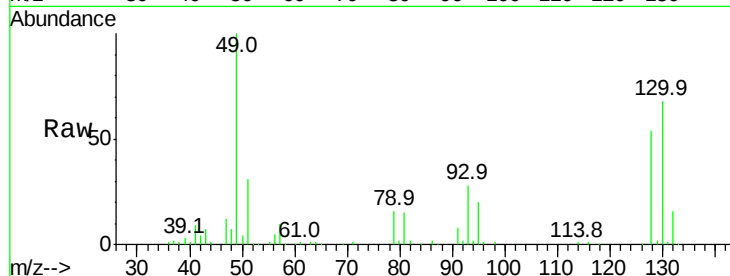
Tgt Ion: 49 Resp: 466976

Ion Ratio Lower Upper

49 100

128 56.8 28.2 84.7

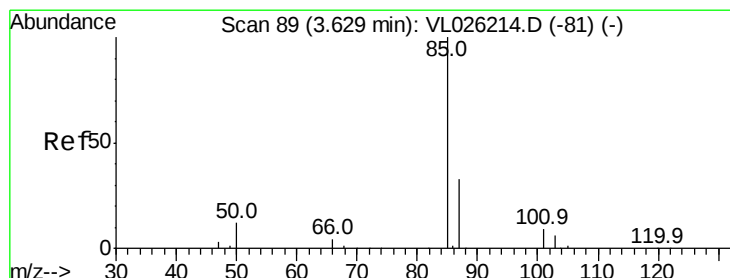
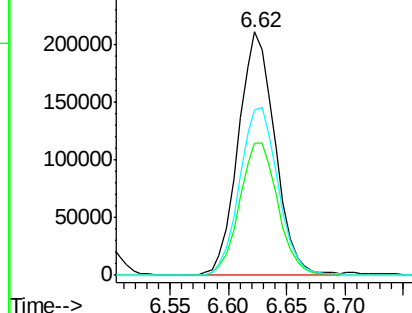
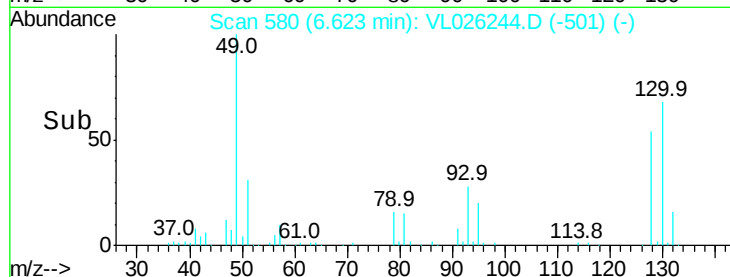
130 72.4 36.0 108.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.15 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VL026244.D

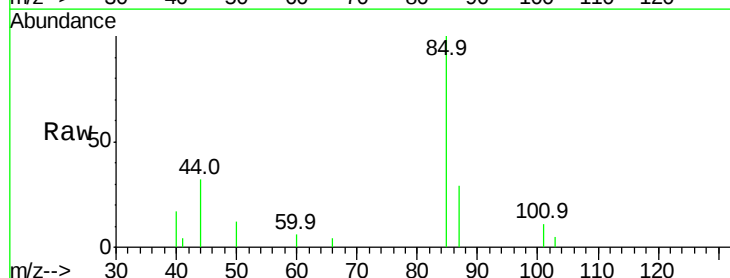
Acq: 21 Oct 2015 19:05

Tgt Ion: 85 Resp: 14052

Ion Ratio Lower Upper

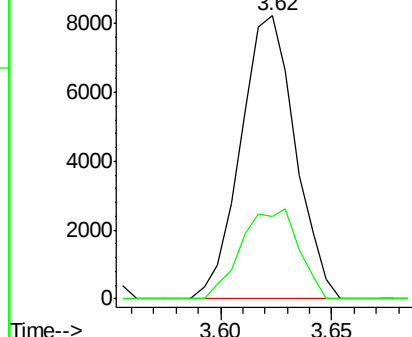
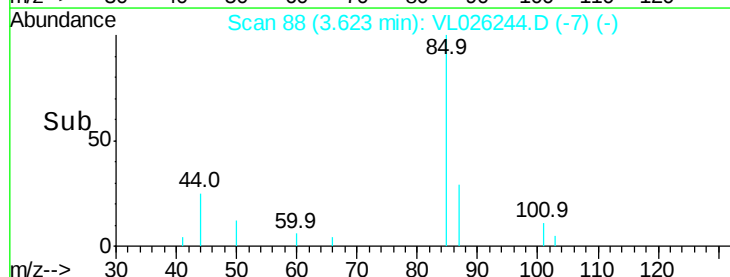
85 100

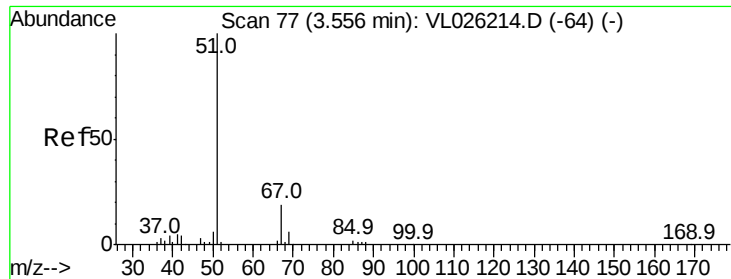
87 29.3 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.53 ppbv

RT: 3.55 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

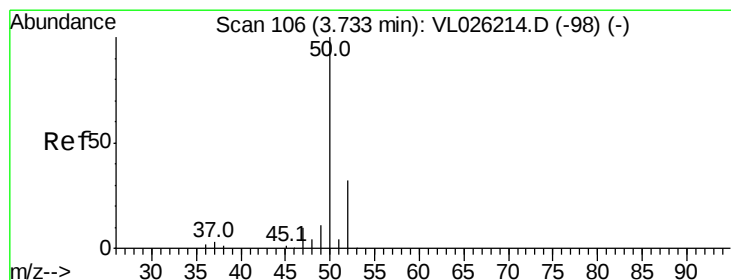
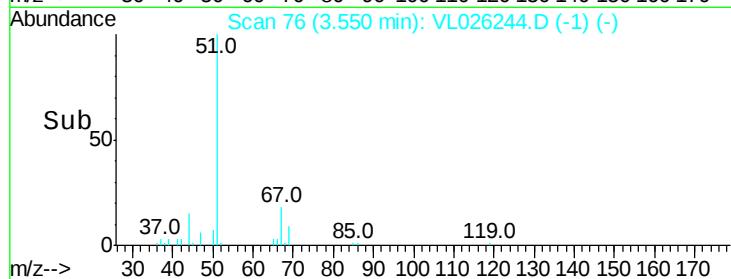
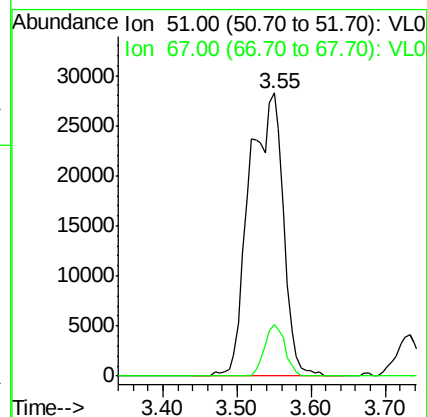
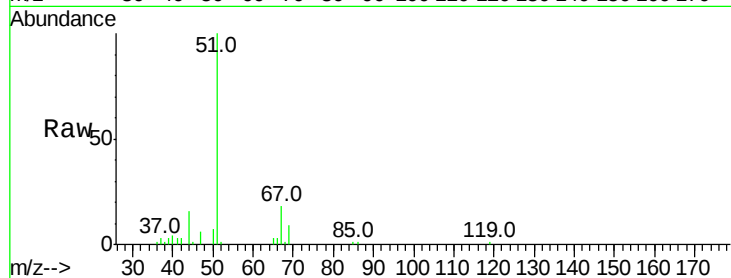
EFF

Tgt Ion: 51 Resp: 90543

Ion Ratio Lower Upper

51 100

67 10.8 15.3 22.9#



#4

Chloromethane

Concen: 7.17 ppbv

RT: 3.73 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL026244.D

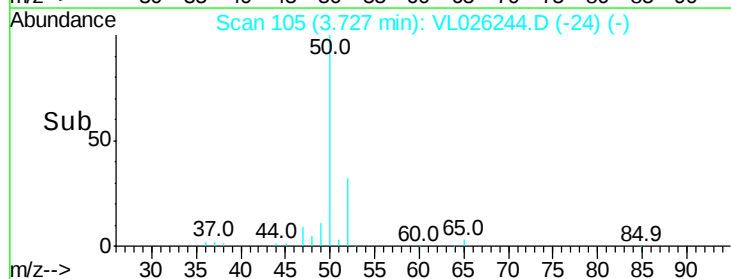
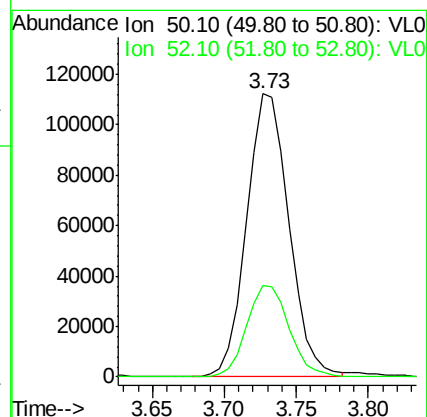
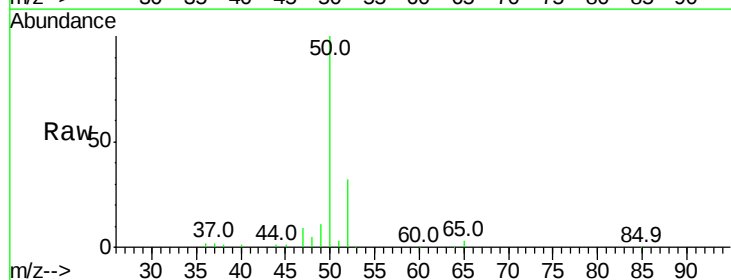
Acq: 21 Oct 2015 19:05

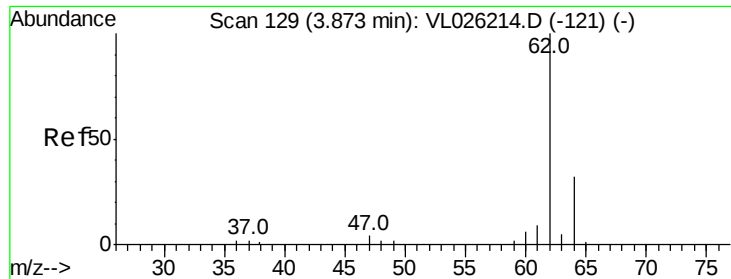
Tgt Ion: 50 Resp: 228838

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.6





#5

Vinyl Chloride

Concen: 0.02 ppbv

RT: 3.58 min Scan# 81

Delta R.T. -0.29 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

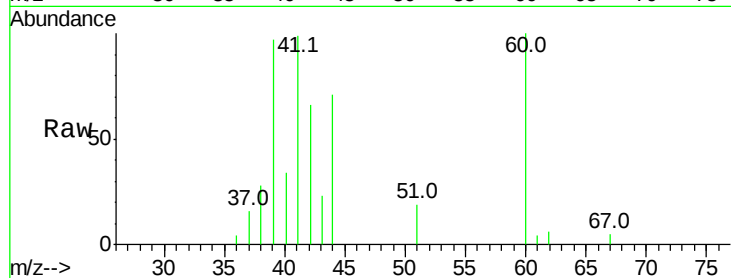
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Tgt Ion: 62 Resp: 688

Ion Ratio Lower Upper

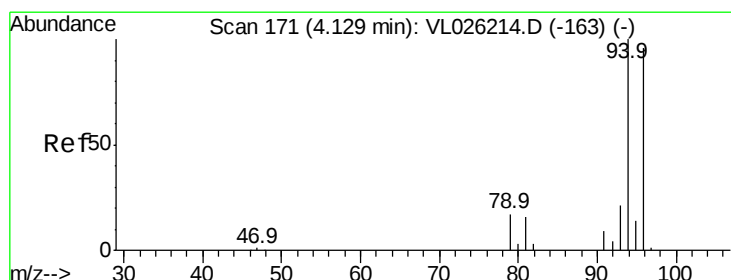
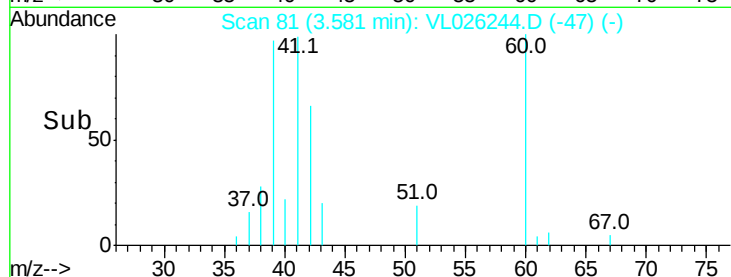
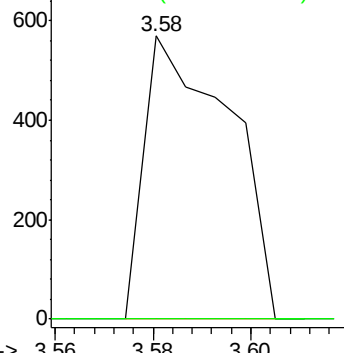
62 100

64 0.0 25.6 38.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.07 ppbv

RT: 4.12 min Scan# 170

Delta R.T. -0.01 min

Lab File: VL026244.D

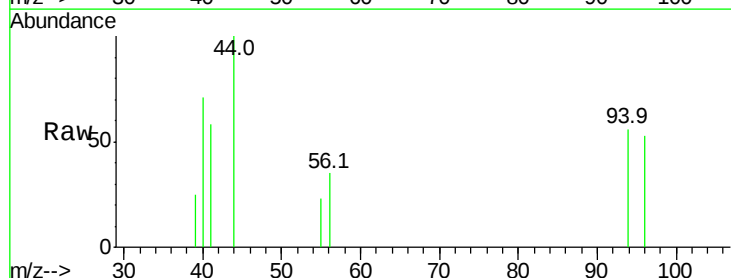
Acq: 21 Oct 2015 19:05

Tgt Ion: 94 Resp: 1665

Ion Ratio Lower Upper

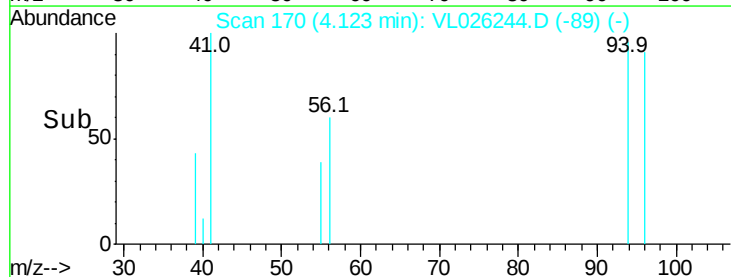
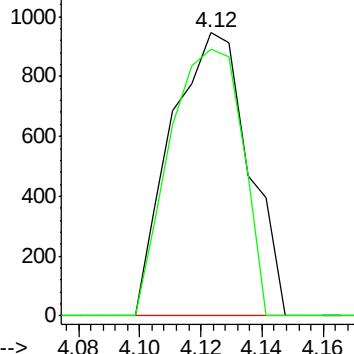
94 100

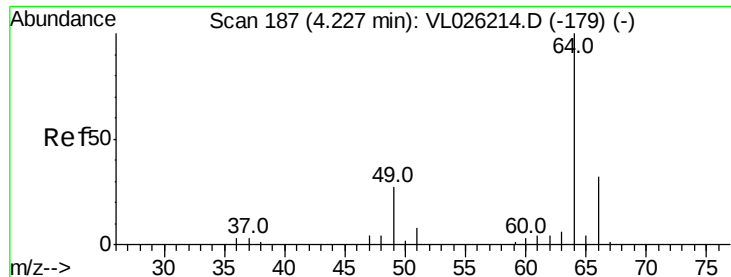
96 94.1 76.5 114.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.27 ppbv

RT: 4.22 min Scan# 186

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

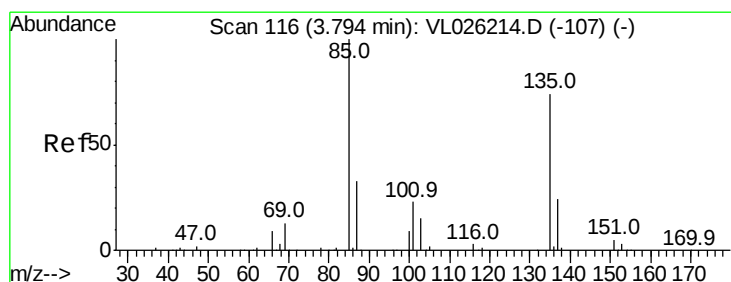
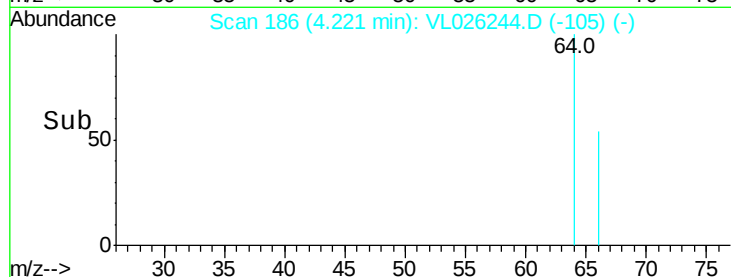
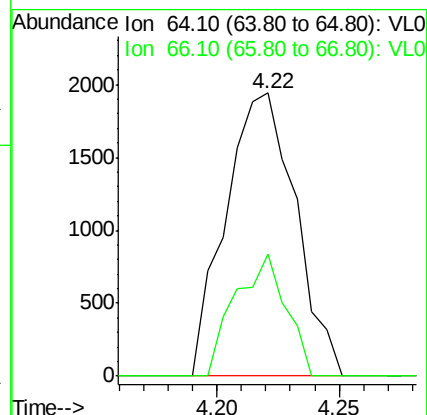
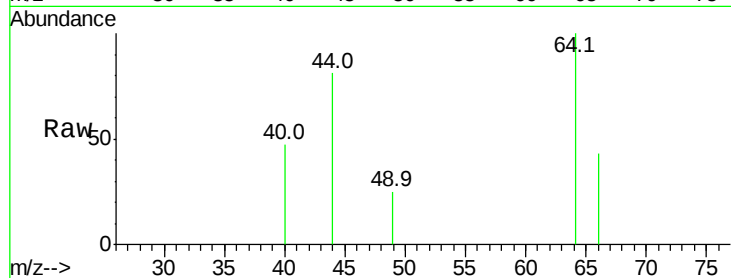
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Tgt Ion: 64 Resp: 3855

Ion Ratio Lower Upper

64 100

66 43.2 25.4 38.0#



#8

Dichlorotetrafluoroethane

Concen: 0.03 ppbv

RT: 3.79 min Scan# 115

Delta R.T. -0.01 min

Lab File: VL026244.D

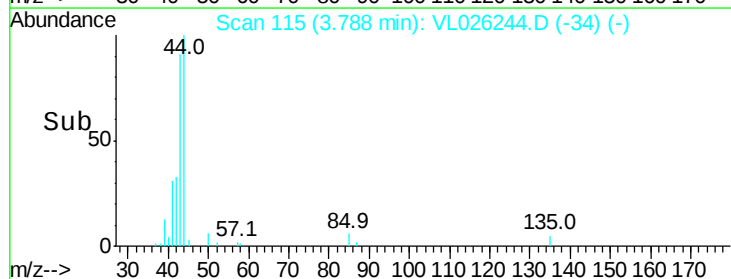
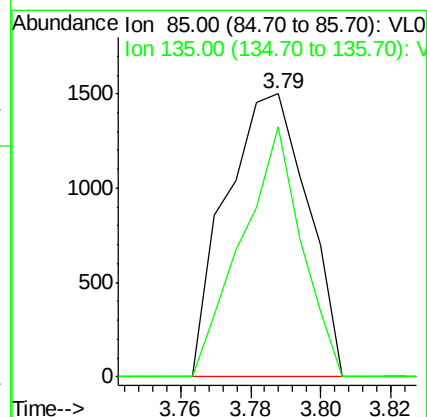
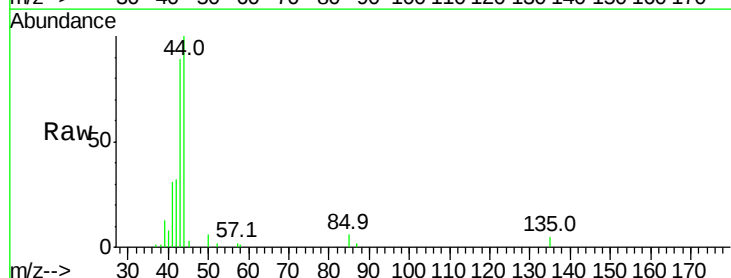
Acq: 21 Oct 2015 19:05

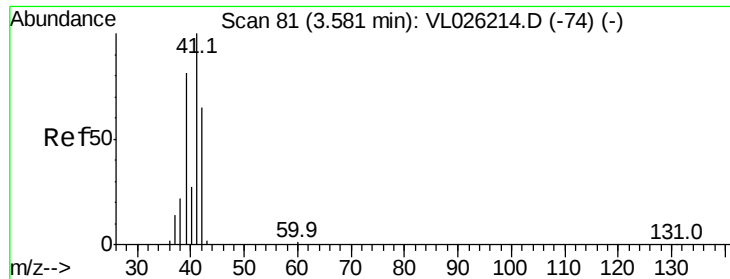
Tgt Ion: 85 Resp: 2420

Ion Ratio Lower Upper

85 100

135 65.0 57.8 86.8





#9

Propene

Concen: 0.76 ppbv

RT: 3.57 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

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ClientSampleId :

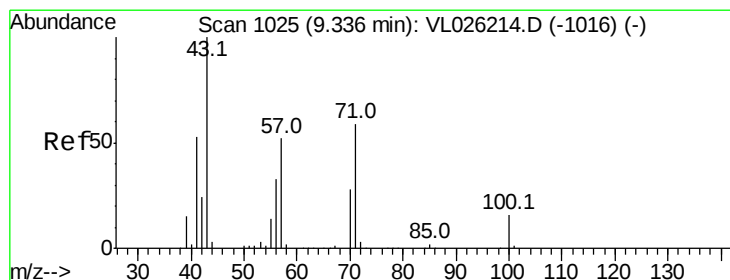
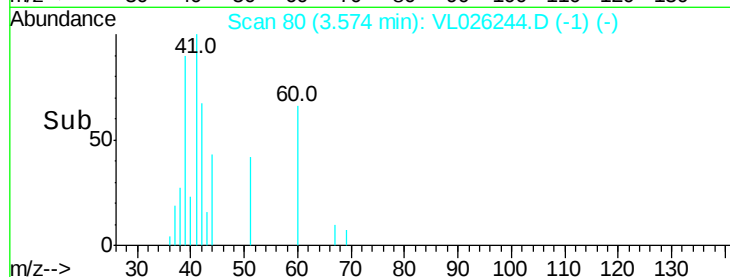
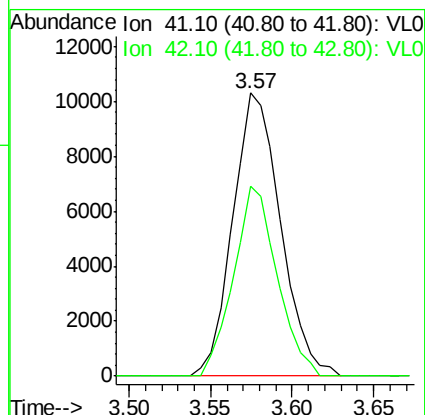
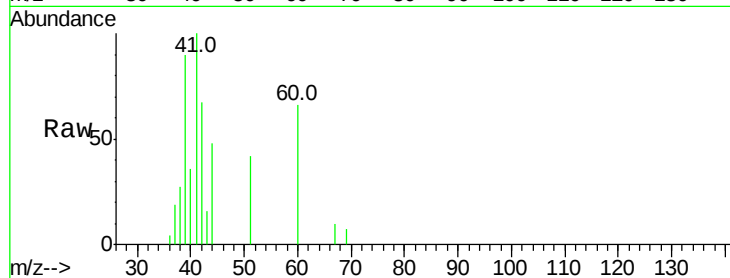
EFF

Tgt Ion: 41 Resp: 20989

Ion Ratio Lower Upper

41 100

42 61.2 53.8 80.8



#10

Heptane

Concen: 0.26 ppbv

RT: 9.32 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VL026244.D

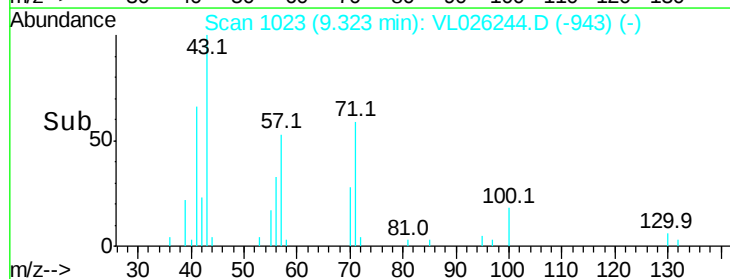
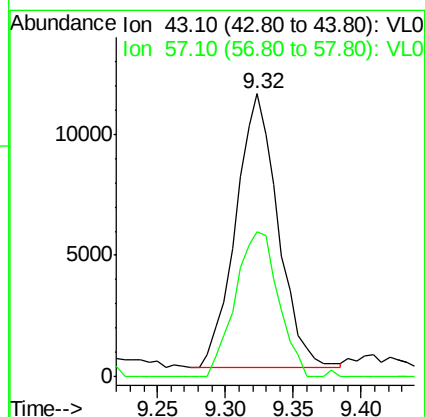
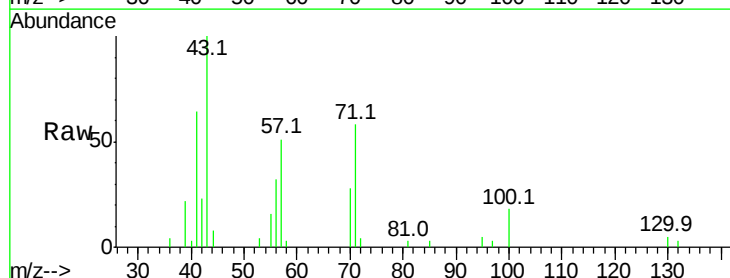
Acq: 21 Oct 2015 19:05

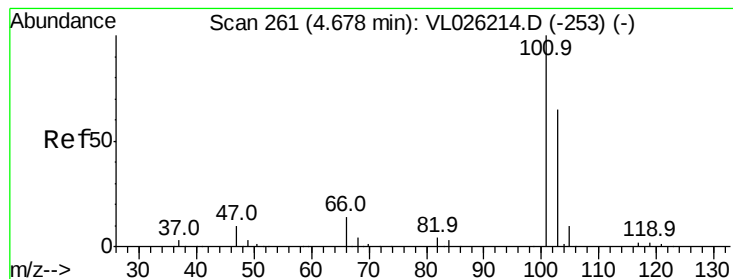
Tgt Ion: 43 Resp: 24459

Ion Ratio Lower Upper

43 100

57 54.5 43.7 65.5





#11

Trichlorofluoromethane

Concen: 2.10 ppbv

RT: 4.67 min Scan# 260

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

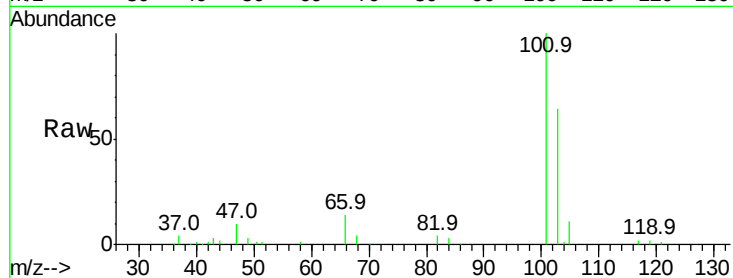
EFF

Tgt Ion:101 Resp: 199346

Ion Ratio Lower Upper

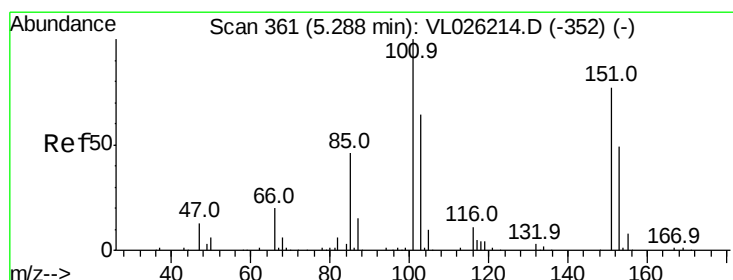
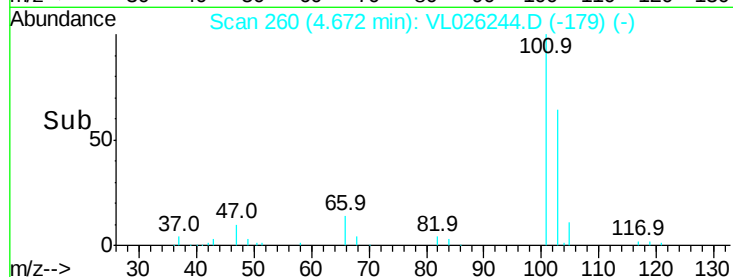
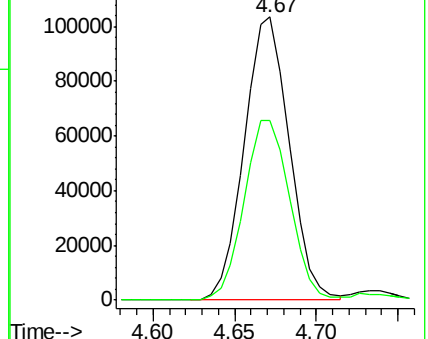
101 100

103 63.7 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.20 ppbv

RT: 5.28 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL026244.D

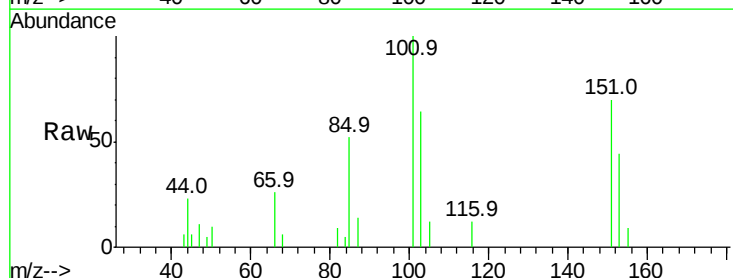
Acq: 21 Oct 2015 19:05

Tgt Ion:101 Resp: 13153

Ion Ratio Lower Upper

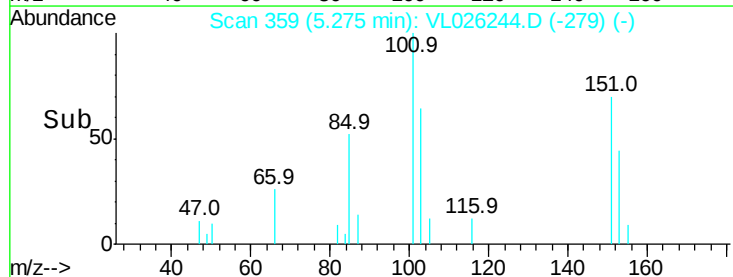
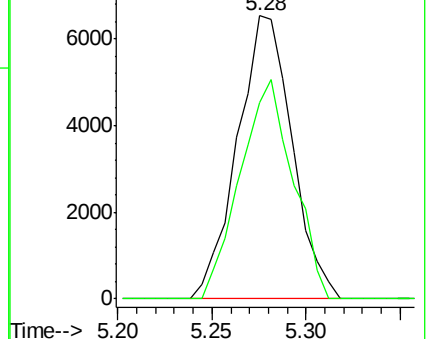
101 100

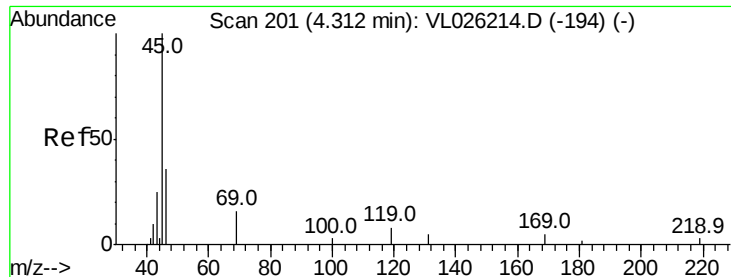
151 74.8 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.67 ppbv

RT: 4.31 min Scan# 201

Delta R.T. -0.00 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

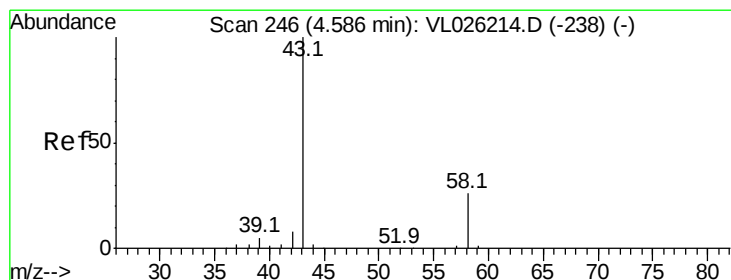
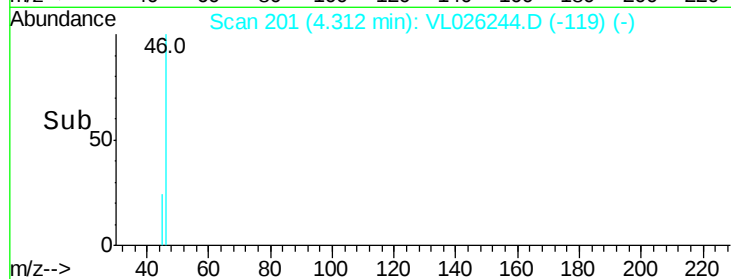
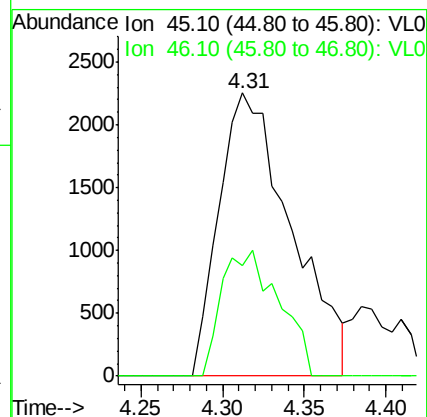
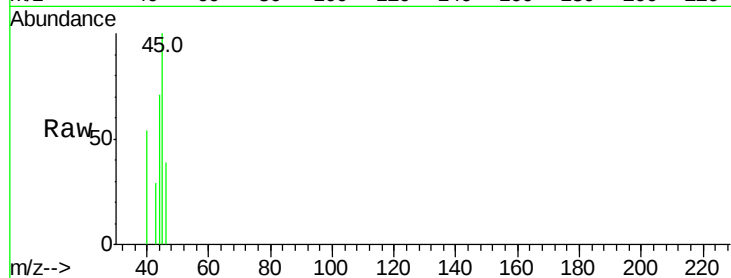
EFF

Tgt Ion: 45 Resp: 6940

Ion Ratio Lower Upper

45 100

46 35.4 15.8 63.0



#15

Acetone

Concen: 12.75 ppbv

RT: 4.57 min Scan# 244

Delta R.T. -0.01 min

Lab File: VL026244.D

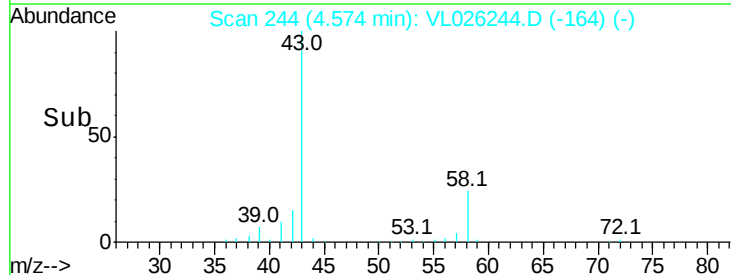
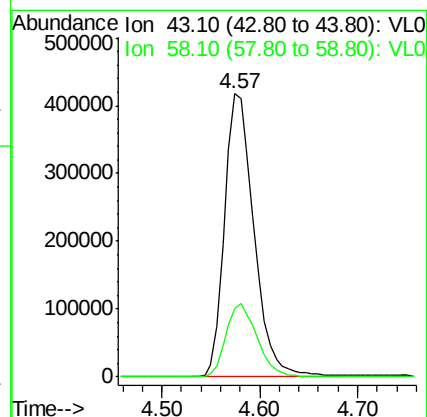
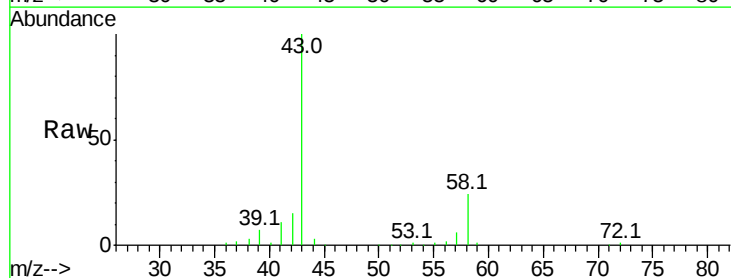
Acq: 21 Oct 2015 19:05

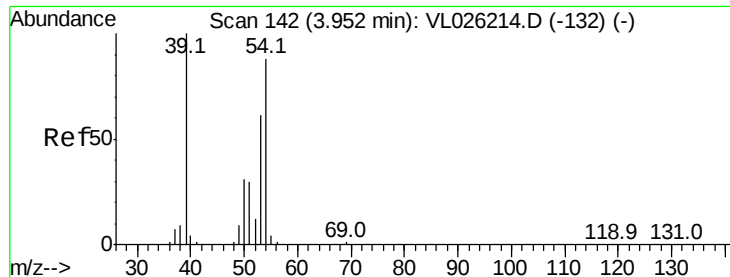
Tgt Ion: 43 Resp: 876417

Ion Ratio Lower Upper

43 100

58 27.3 21.8 32.6





#16

1,3-Butadiene

Concen: 2.58 ppbv

RT: 3.92 min Scan# 137

Delta R.T. -0.03 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

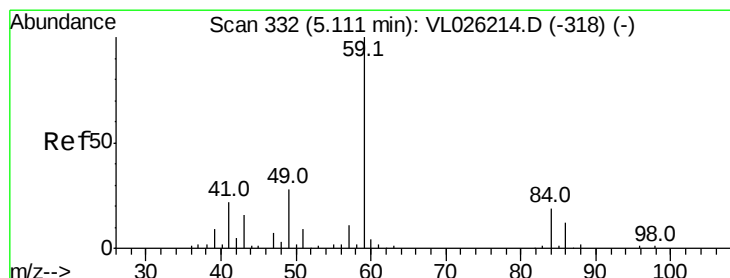
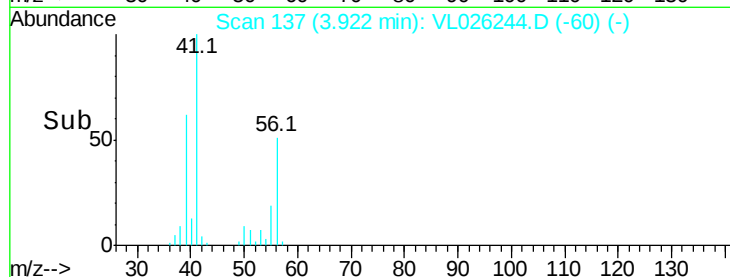
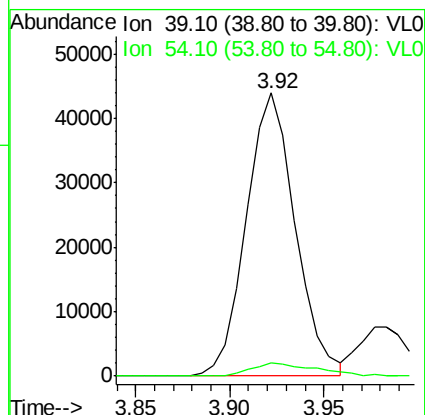
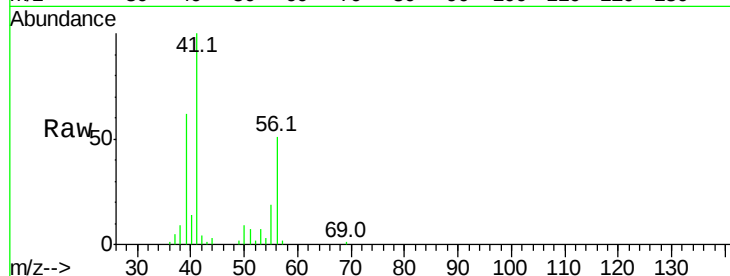
EFF

Tgt Ion: 39 Resp: 79146

Ion Ratio Lower Upper

39 100

54 6.1 67.3 100.9#



#17

tert-Butyl alcohol

Concen: 0.13 ppbv

RT: 5.11 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL026244.D

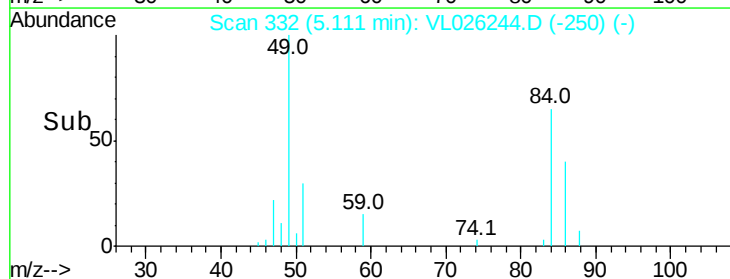
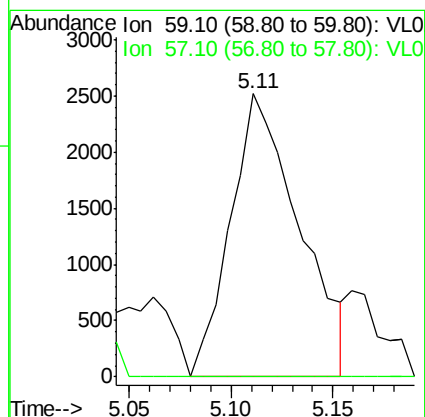
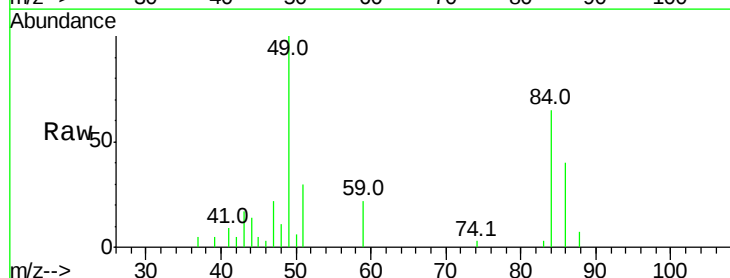
Acq: 21 Oct 2015 19:05

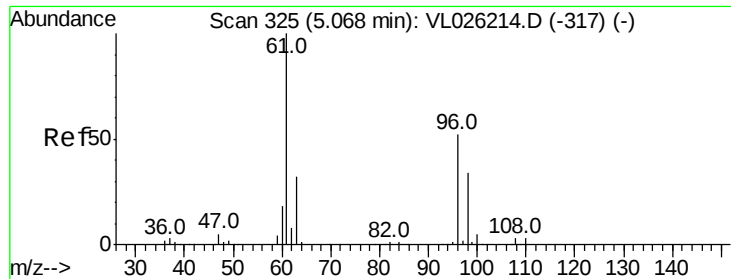
Tgt Ion: 59 Resp: 5895

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#18

1,1-Dichloroethene

Concen: 0.48 ppbv

RT: 5.06 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

EFF

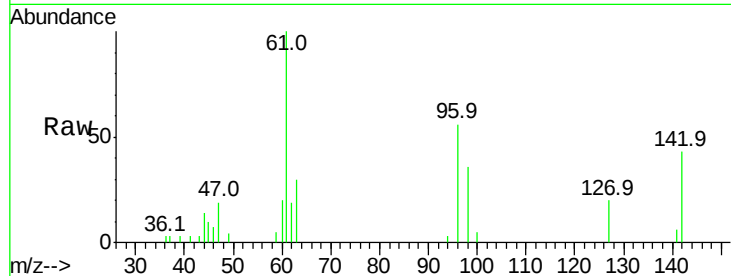
Tgt Ion: 96 Resp: 14167

Ion Ratio Lower Upper

96 100

61 178.2 153.7 230.5

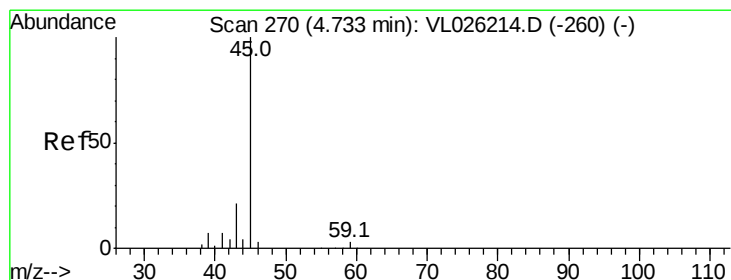
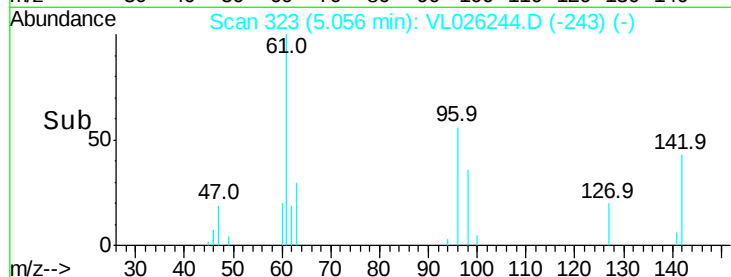
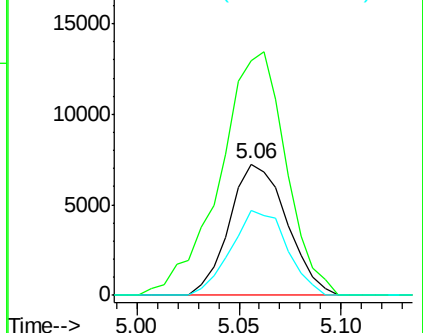
98 64.5 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 1.21 ppbv

RT: 4.73 min Scan# 270

Delta R.T. -0.00 min

Lab File: VL026244.D

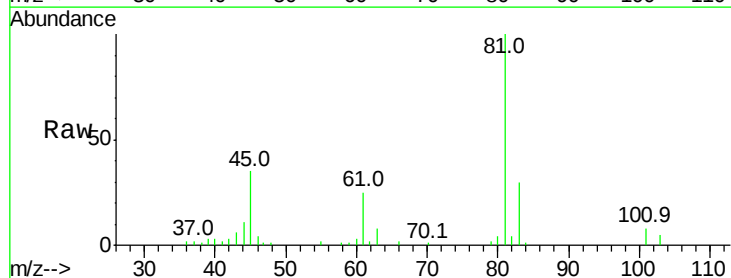
Acq: 21 Oct 2015 19:05

Tgt Ion: 45 Resp: 32548

Ion Ratio Lower Upper

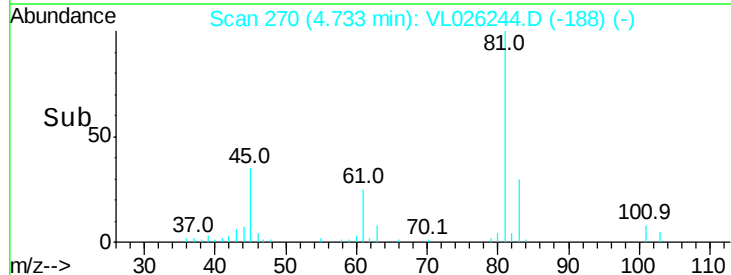
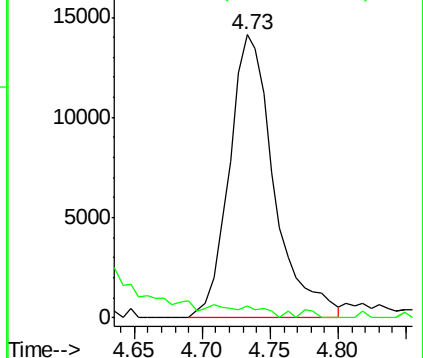
45 100

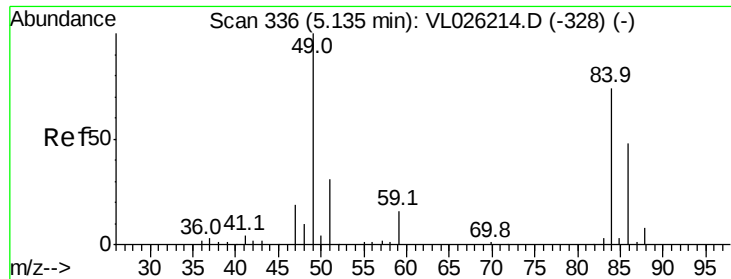
58 0.0 40.3 60.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

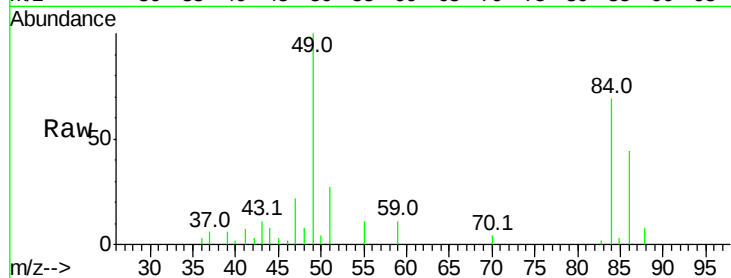




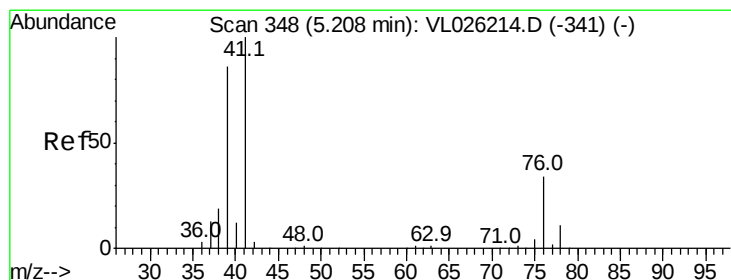
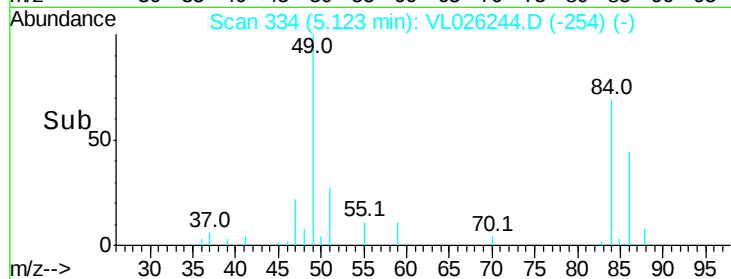
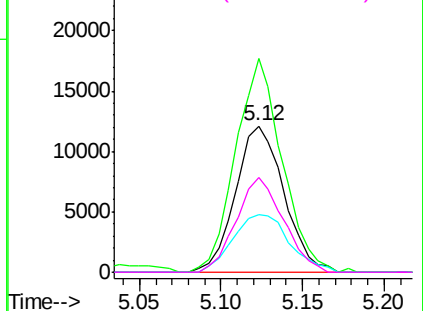
#20
Methylene Chloride
Concen: 0.91 ppbv
RT: 5.12 min Scan# 334
Delta R.T. -0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Instrument :
MSVOA_L
ClientSampleId :
EFF

Tgt Ion: 84 Resp: 25009
Ion Ratio Lower Upper
84 100
49 145.9 108.7 163.1
51 39.8 33.7 50.5
86 64.4 52.2 78.2

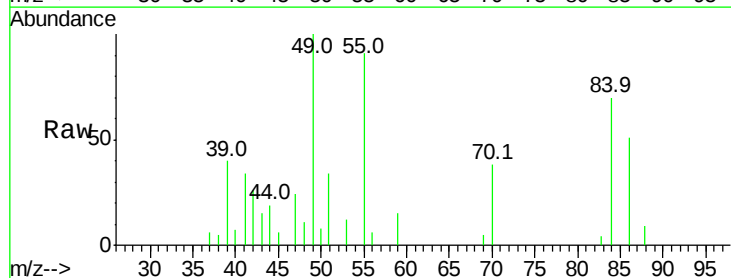


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

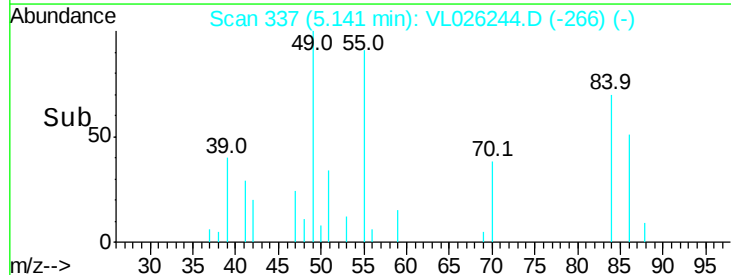
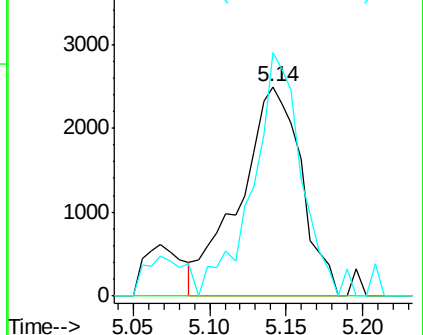


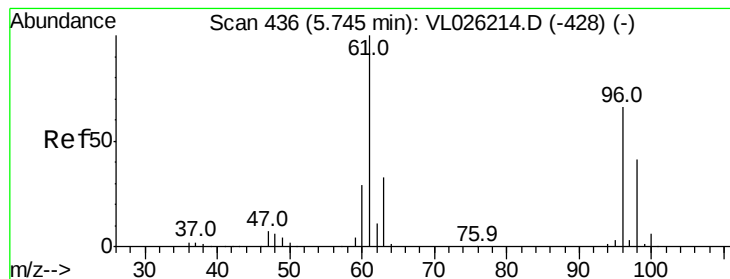
#21
Allyl Chloride
Concen: 0.15 ppbv
RT: 5.14 min Scan# 337
Delta R.T. -0.07 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 41 Resp: 6951
Ion Ratio Lower Upper
41 100
76 0.0 26.6 39.8#
39 106.8 67.4 101.2#



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: 0.67 ppbv

RT: 5.74 min Scan# 435

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

EFF

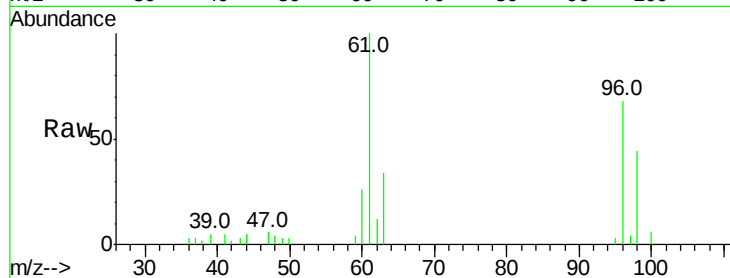
Tgt Ion: 96 Resp: 25459

Ion Ratio Lower Upper

96 100

61 143.3 121.5 182.3

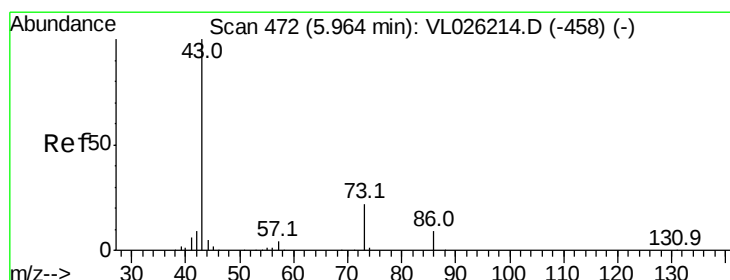
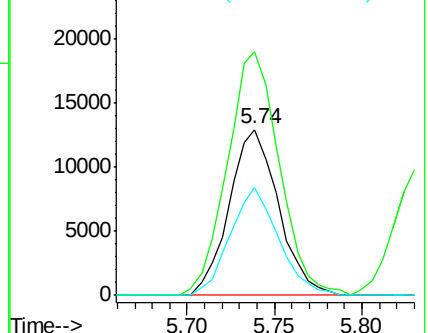
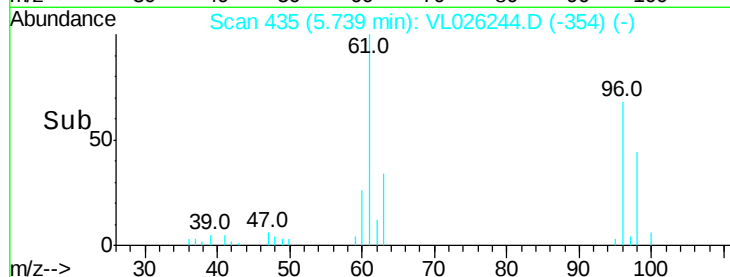
98 64.9 49.7 74.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 1.99 ppbv

RT: 5.96 min Scan# 471

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Tgt Ion: 43 Resp: 252115

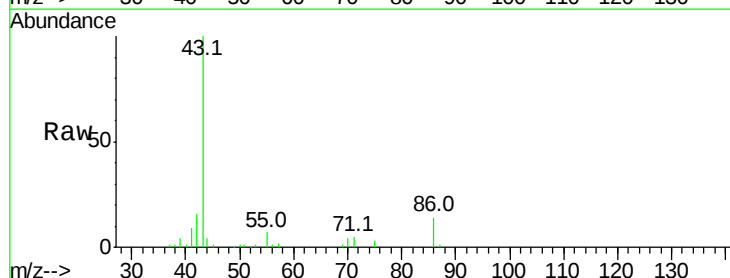
Ion Ratio Lower Upper

43 100

86 14.1 7.0 10.6#

42 16.5 7.5 11.3#

44 2.6 3.6 5.4#

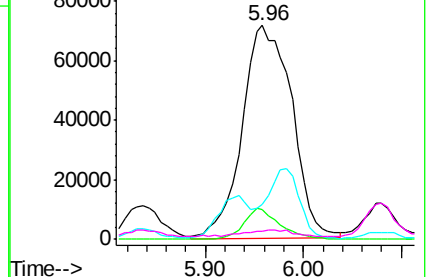
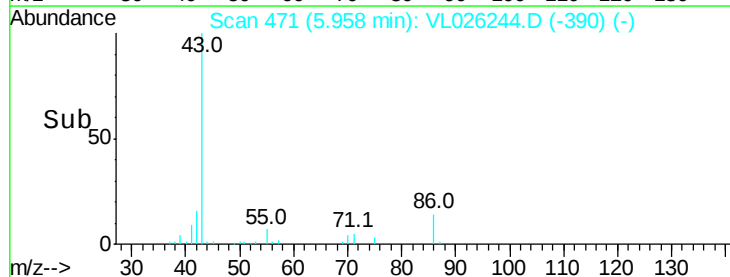


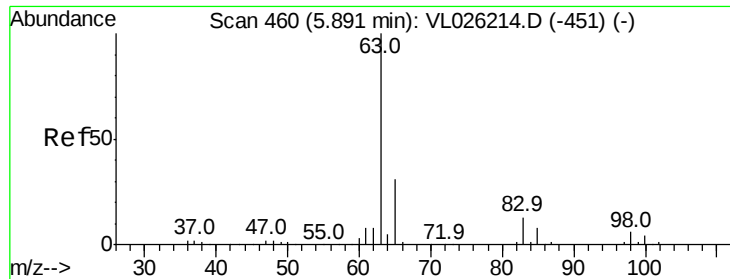
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

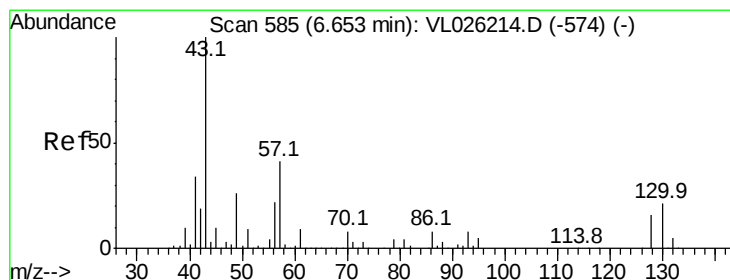
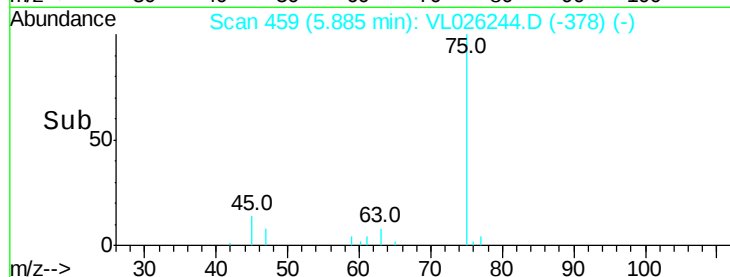
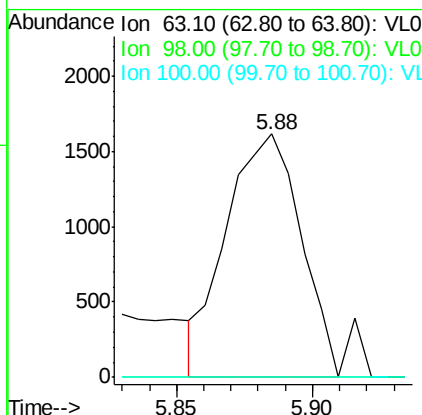
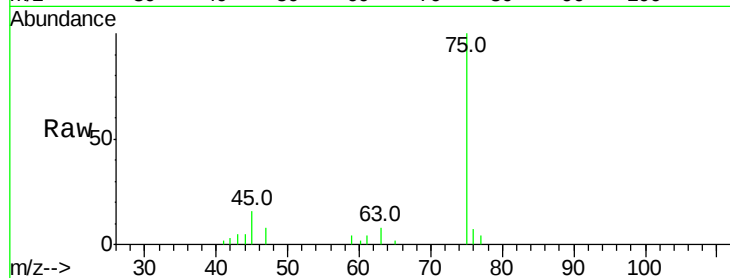




#24
1,1-Dichloroethane
Concen: 0.04 ppbv
RT: 5.88 min Scan# 459
Delta R.T. -0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

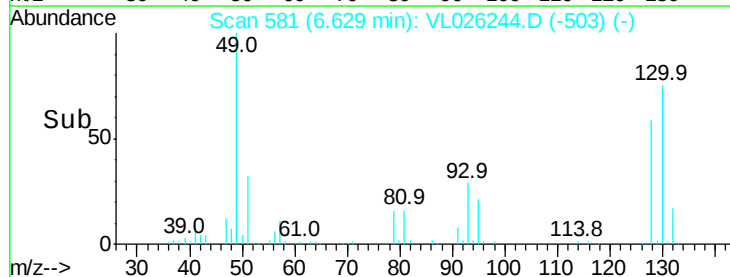
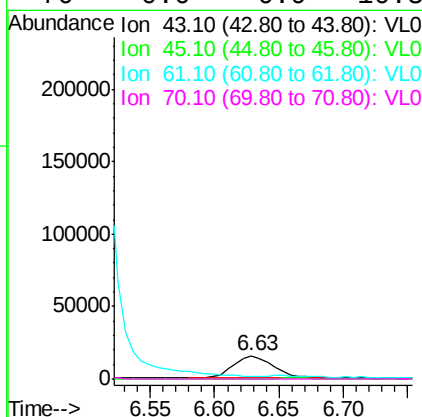
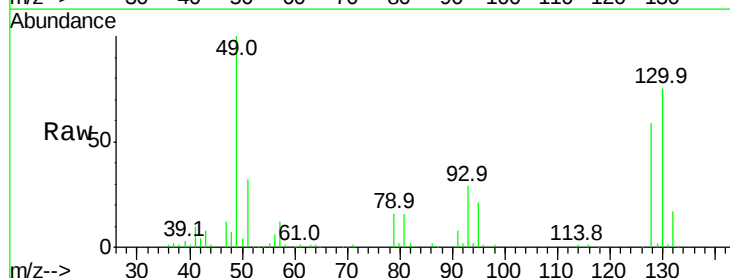
Instrument :
MSVOA_L
ClientSampleId :
EFF

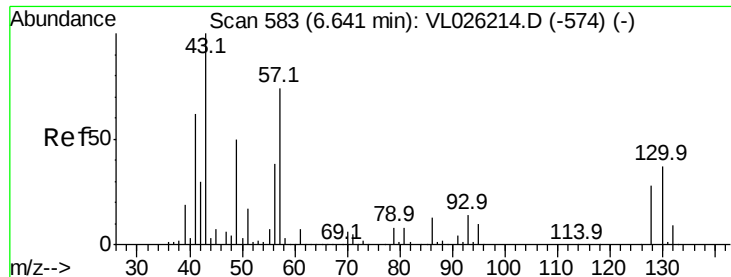
Tgt Ion: 63 Resp: 3071
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.8#
100 0.0 1.8 5.5#



#25
Ethyl Acetate
Concen: 0.26 ppbv
RT: 6.63 min Scan# 581
Delta R.T. -0.02 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 43 Resp: 34114
Ion Ratio Lower Upper
43 100
45 3.1 7.7 11.5#
61 0.0 7.5 11.3#
70 0.0 6.9 10.3#

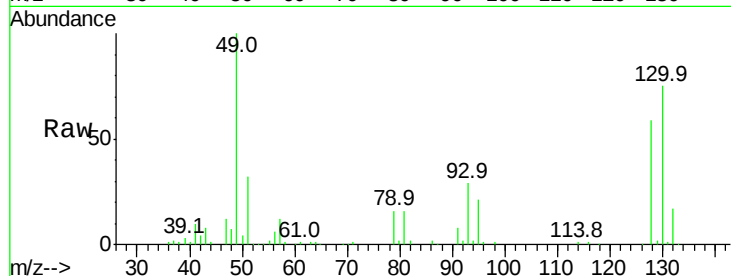




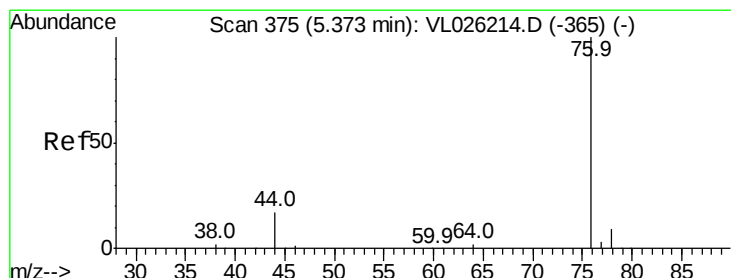
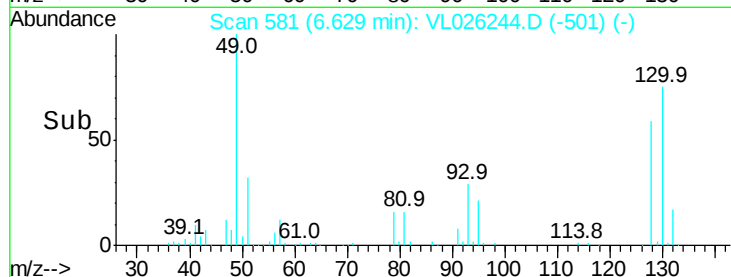
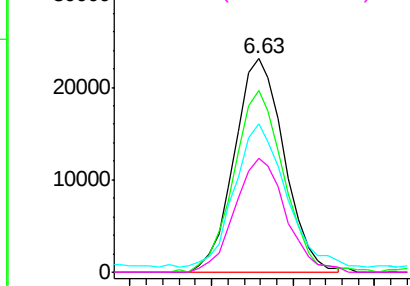
#26
Hexane
Concen: 0.76 ppbv
RT: 6.63 min Scan# 581
Delta R.T. -0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Instrument :
MSVOA_L
ClientSampleId :
EFF

Tgt Ion: 57 Resp: 49123
Ion Ratio Lower Upper
57 100
41 85.8 68.1 102.1
43 73.6 163.4 245.2#
56 54.2 42.2 63.4

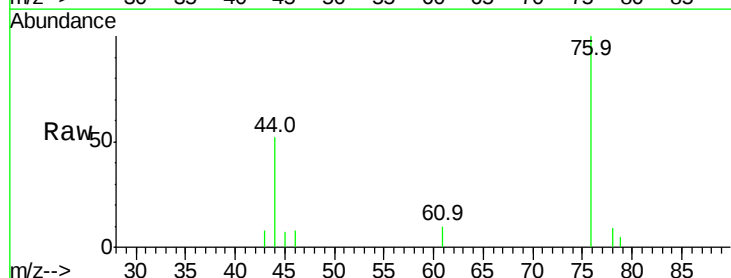


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

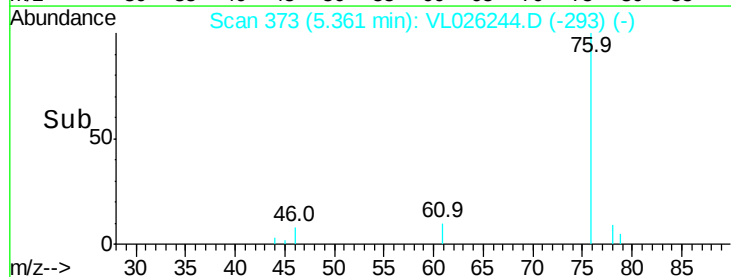
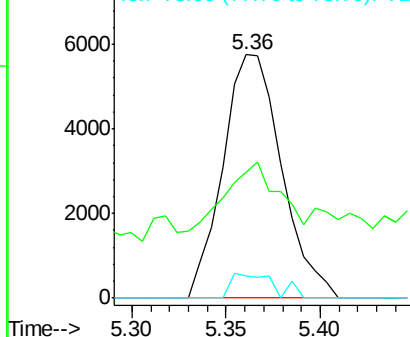


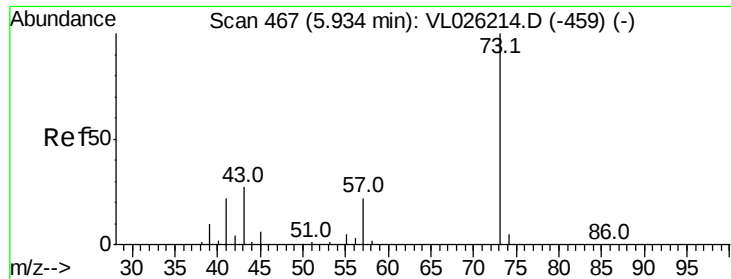
#27
Carbon Disulfide
Concen: 0.15 ppbv
RT: 5.36 min Scan# 373
Delta R.T. -0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 76 Resp: 12453
Ion Ratio Lower Upper
76 100
44 56.7 14.0 21.0#
78 7.4 7.4 11.2#



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: 0.07 ppbv

RT: 5.84 min Scan# 452

Delta R.T. -0.09 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

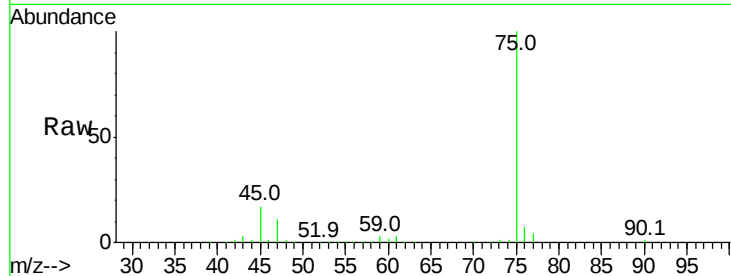
EFF

Tgt Ion: 73 Resp: 8600

Ion Ratio Lower Upper

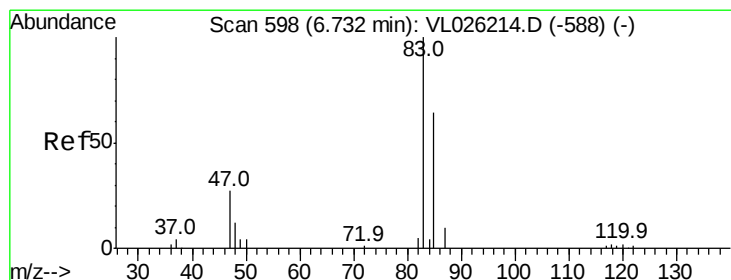
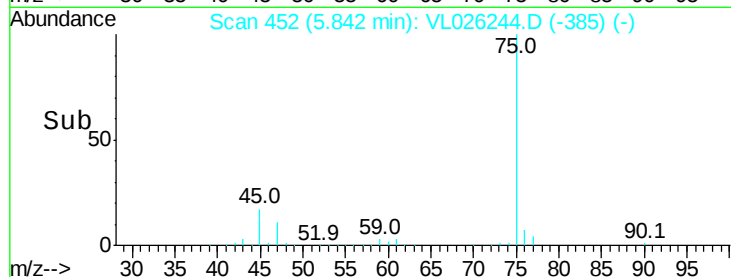
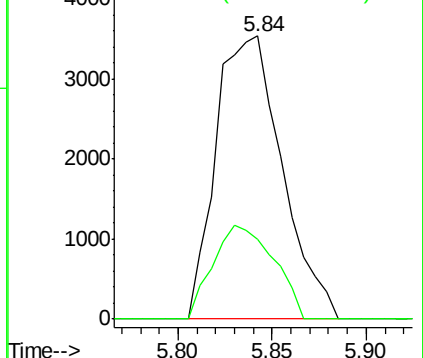
73 100

57 30.6 17.4 26.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.27 ppbv

RT: 6.72 min Scan# 596

Delta R.T. -0.01 min

Lab File: VL026244.D

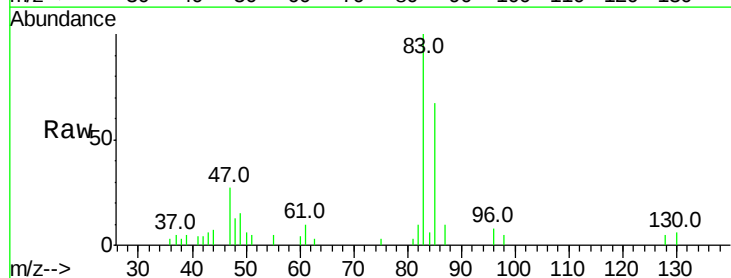
Acq: 21 Oct 2015 19:05

Tgt Ion: 83 Resp: 25056

Ion Ratio Lower Upper

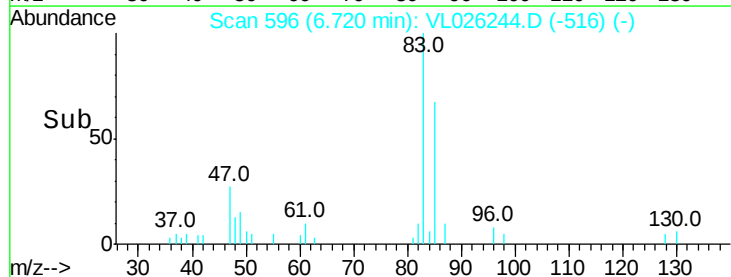
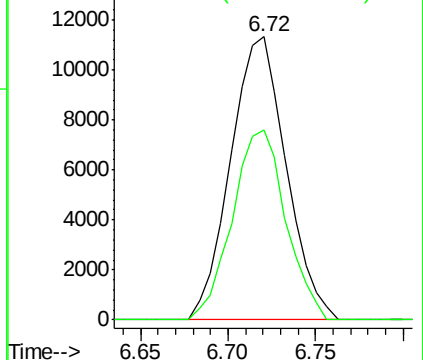
83 100

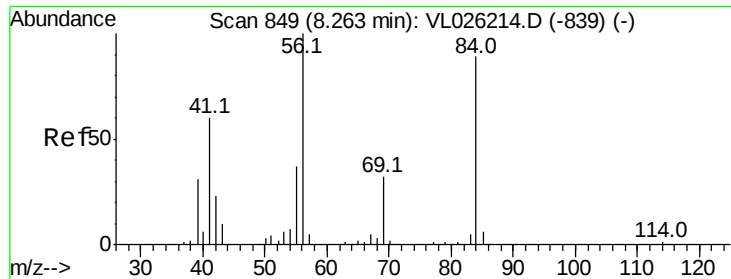
85 66.9 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

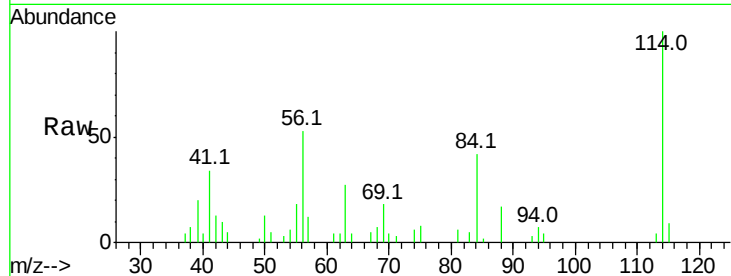




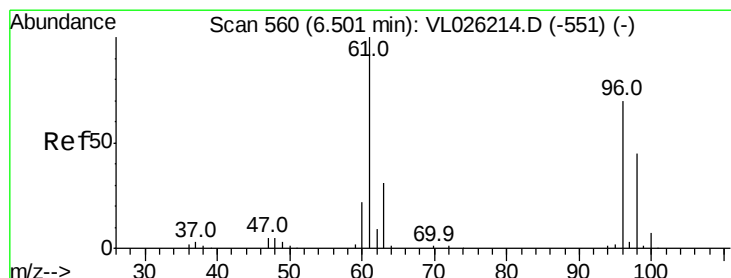
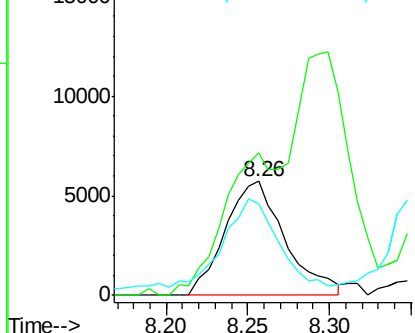
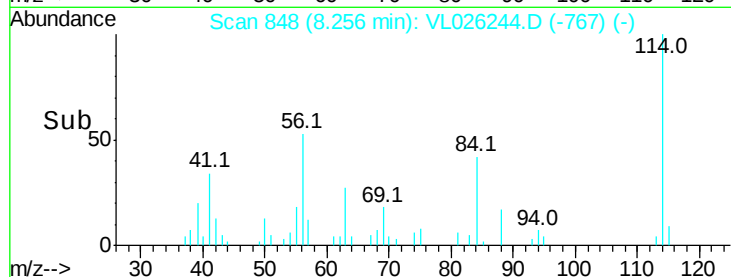
#30
Cyclohexane
Concen: 0.23 ppbv
RT: 8.26 min Scan# 848
Delta R.T. -0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Instrument :
MSVOA_L
ClientSampled :
EFF

Tgt Ion: 84 Resp: 14659
Ion Ratio Lower Upper
84 100
56 0.0 95.9 143.9#
41 73.6 54.8 82.2

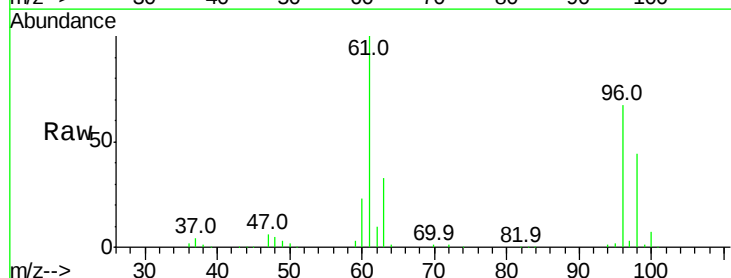


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

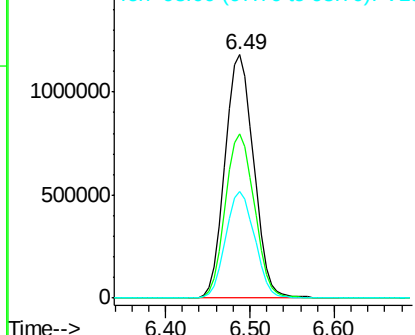
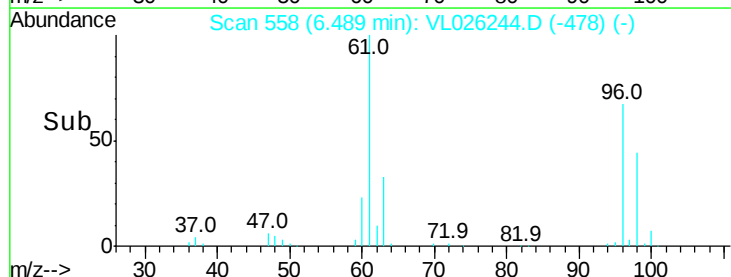


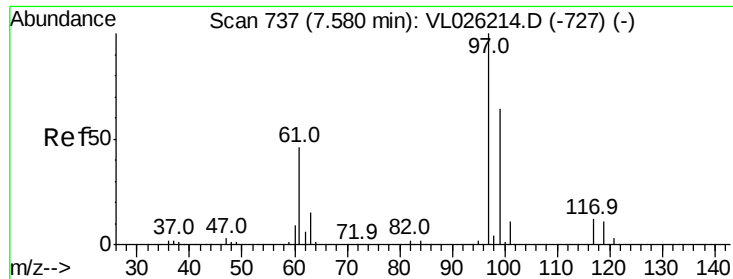
#31
cis-1,2-Dichloroethene
Concen: 47.16 ppbv
RT: 6.49 min Scan# 558
Delta R.T. -0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 61 Resp: 2757449
Ion Ratio Lower Upper
61 100
96 67.4 56.0 84.0
98 44.0 36.1 54.1



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.16 ppbv

RT: 7.57 min Scan# 735

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

EFF

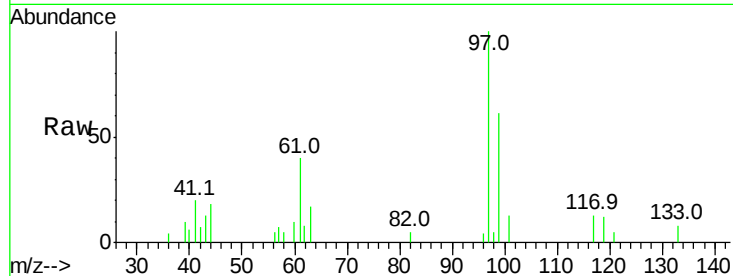
Tgt Ion: 97 Resp: 17030

Ion Ratio Lower Upper

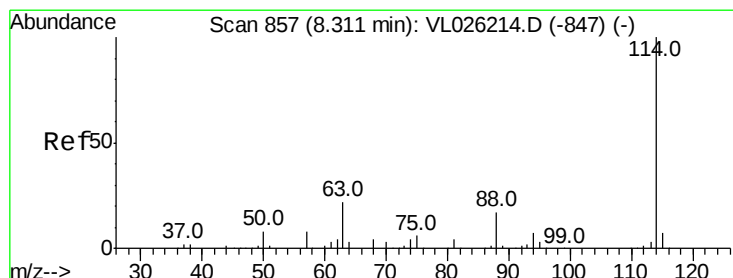
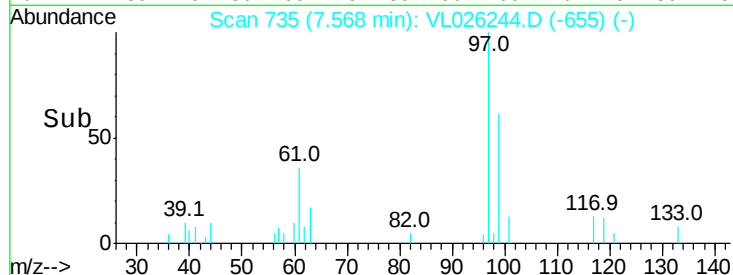
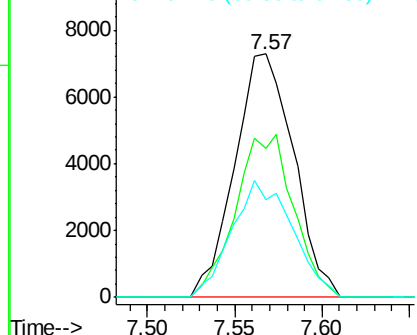
97 100

99 65.9 51.4 77.0

61 49.5 36.2 54.4



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.30 min Scan# 855

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

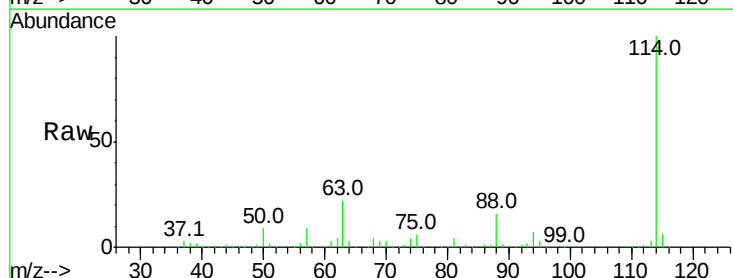
Tgt Ion: 114 Resp: 1356813

Ion Ratio Lower Upper

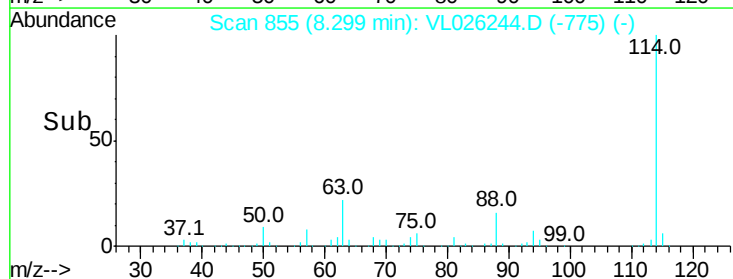
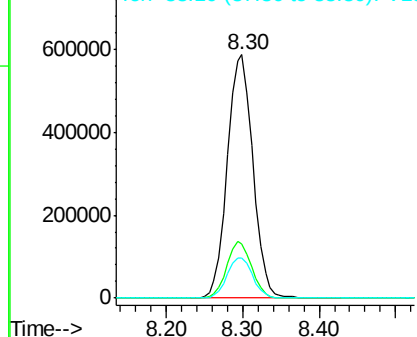
114 100

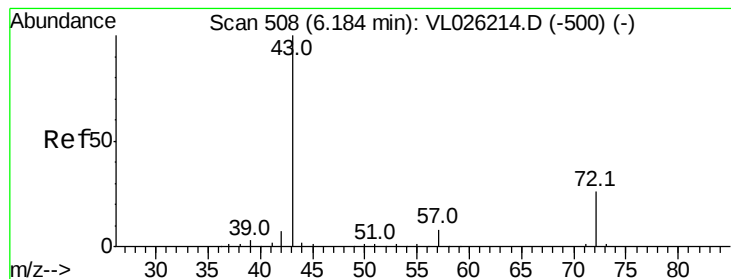
63 22.6 18.2 27.4

88 16.7 13.5 20.3



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





#34

2-Butanone

Concen: 2.29 ppbv

RT: 6.18 min Scan# 507

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

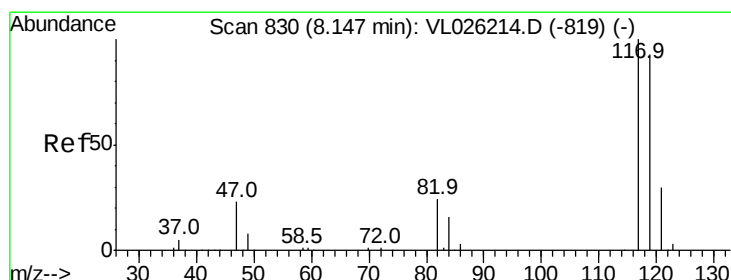
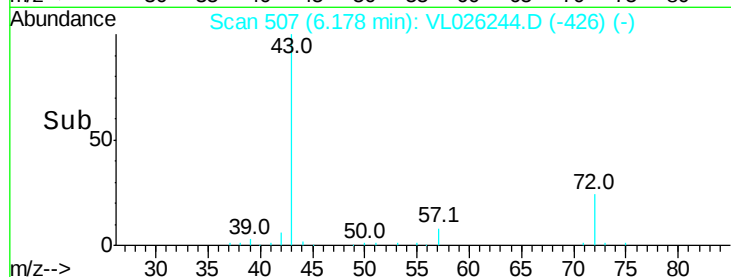
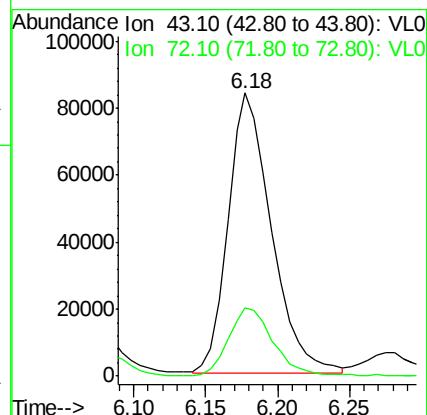
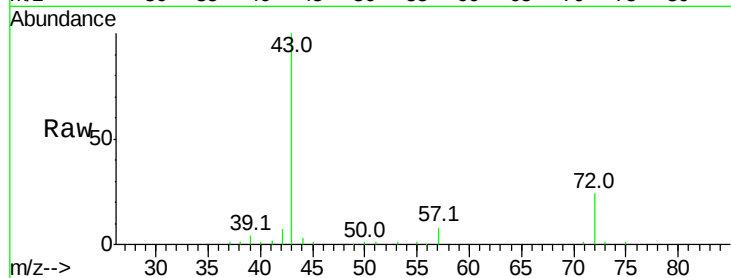
EFF

Tgt Ion: 43 Resp: 175461

Ion Ratio Lower Upper

43 100

72 25.3 20.1 30.1



#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 8.13 min Scan# 828

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

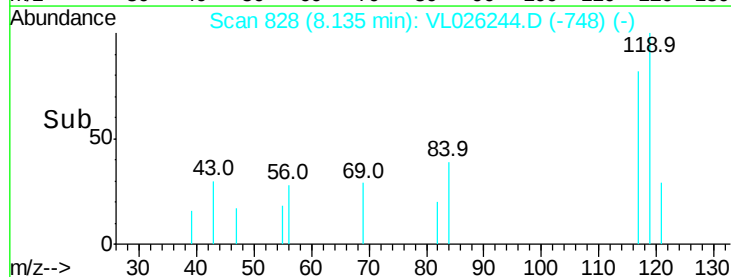
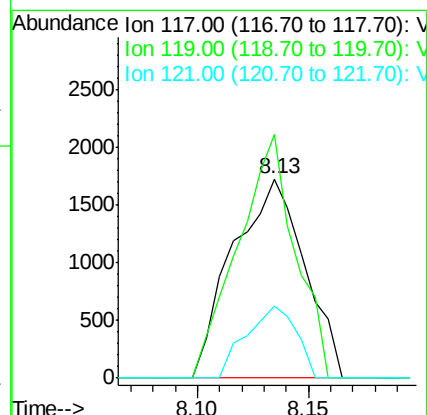
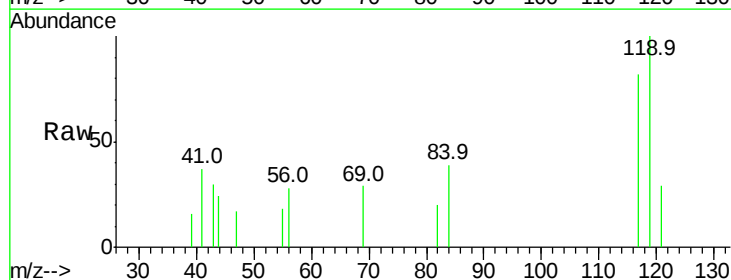
Tgt Ion: 117 Resp: 3870

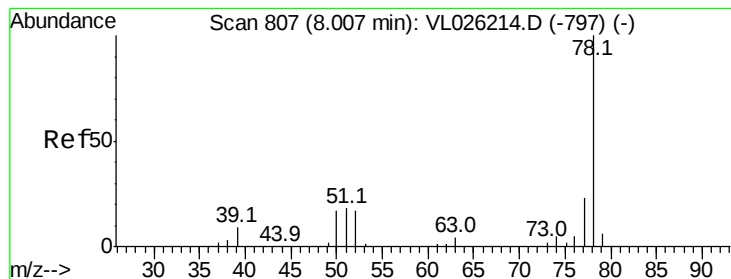
Ion Ratio Lower Upper

117 100

119 122.2 74.6 111.8#

121 35.9 24.2 36.2





#36

Benzene

Concen: 0.27 ppbv

RT: 7.99 min Scan# 805

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

EFF

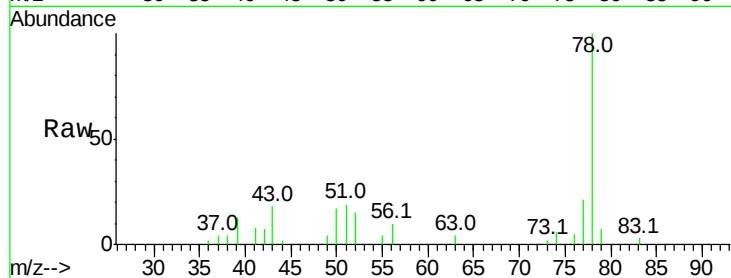
Tgt Ion: 78 Resp: 37563

Ion Ratio Lower Upper

78 100

77 20.5 18.1 27.1

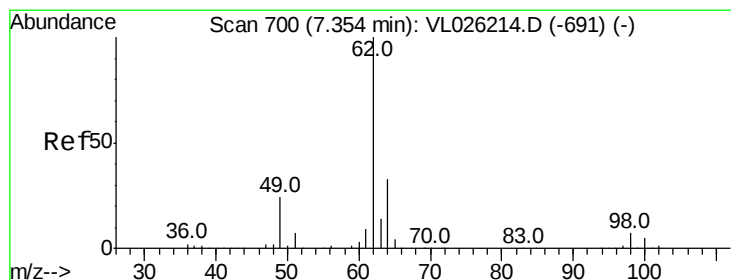
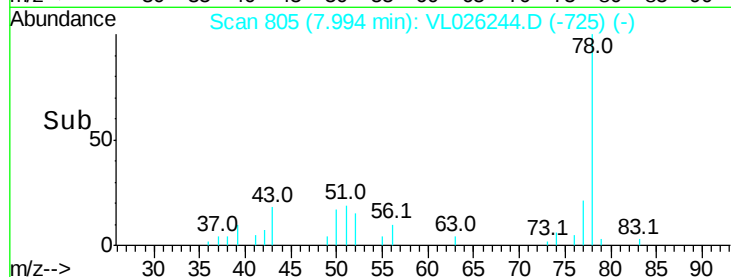
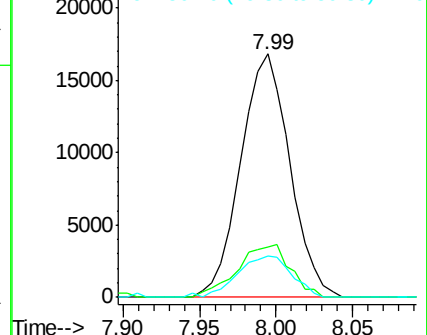
50 17.1 13.8 20.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.19 ppbv

RT: 7.35 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL026244.D

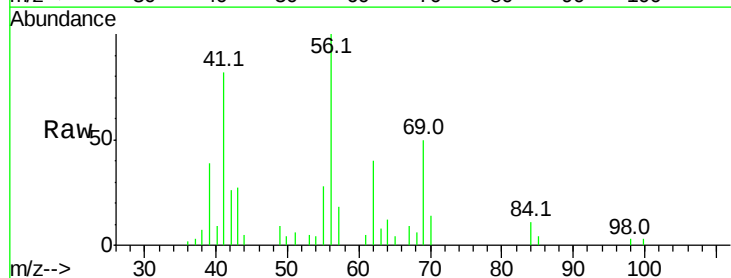
Acq: 21 Oct 2015 19:05

Tgt Ion: 62 Resp: 13310

Ion Ratio Lower Upper

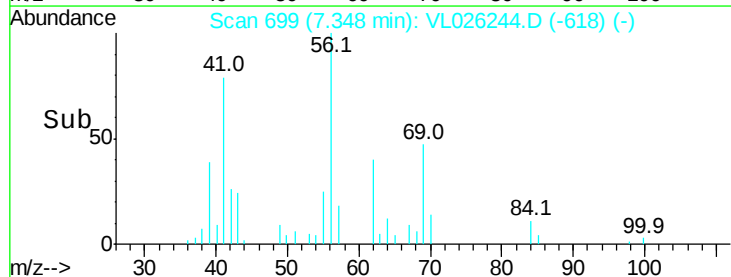
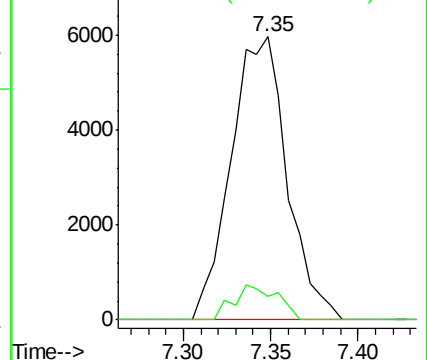
62 100

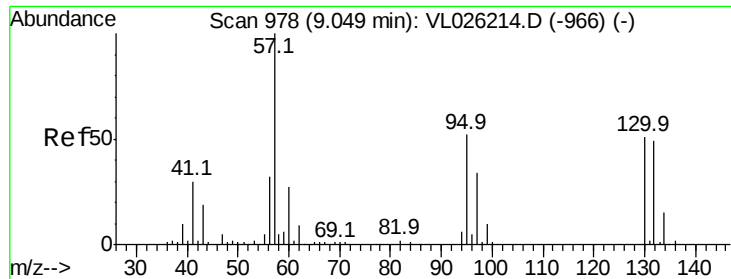
98 9.7 6.1 9.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

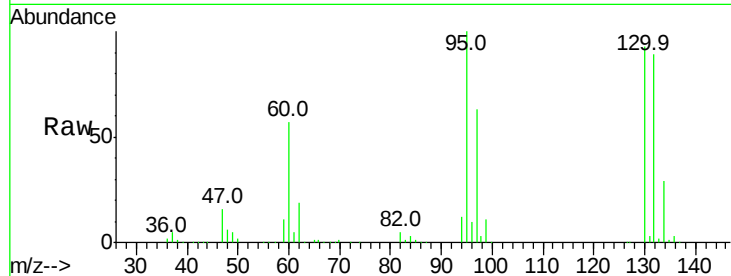




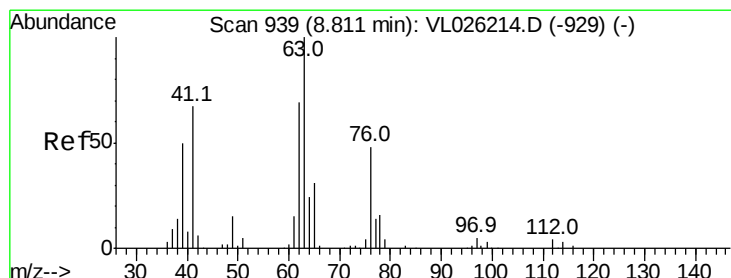
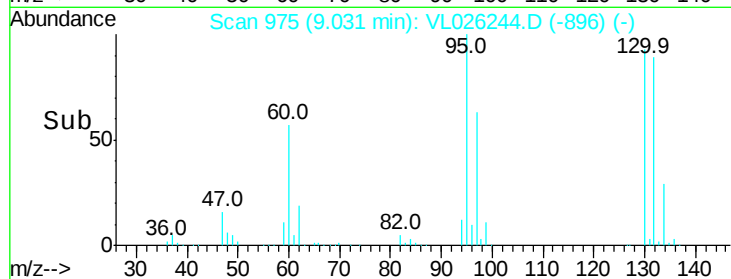
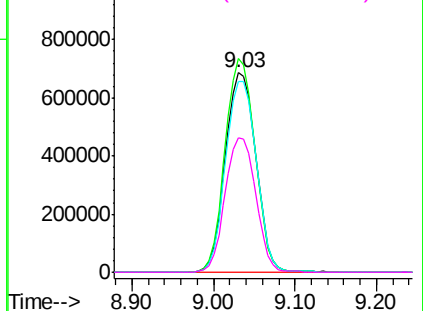
#38
 Trichloroethene
 Concen: 26.59 ppbv
 RT: 9.03 min Scan# 975
 Delta R.T. -0.02 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

Instrument :
 MSVOA_L
 ClientSampleId :
 EFF

Tgt Ion:130 Resp: 1782450
 Ion Ratio Lower Upper
 130 100
 95 107.0 81.0 121.4
 132 95.7 76.5 114.7
 97 67.4 52.5 78.7

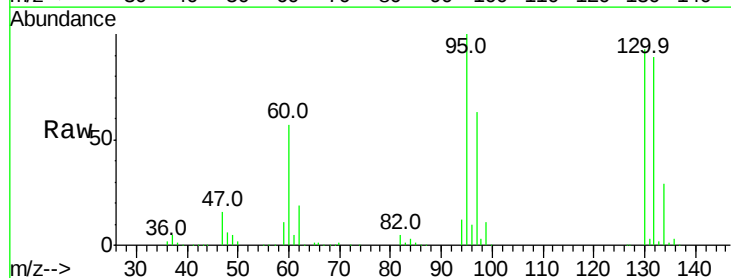


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

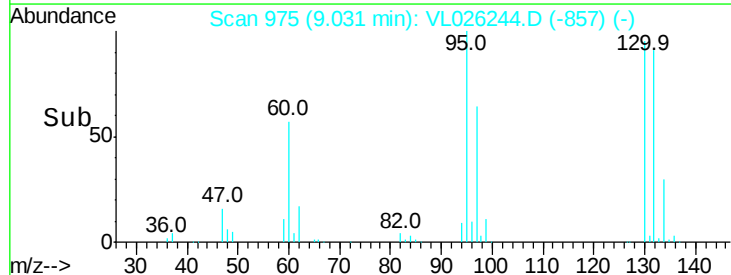
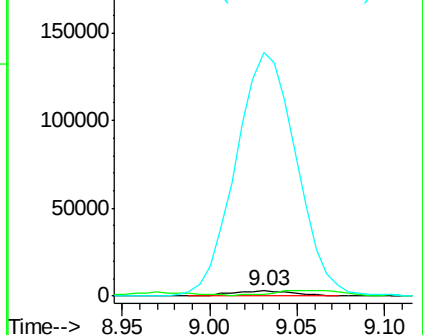


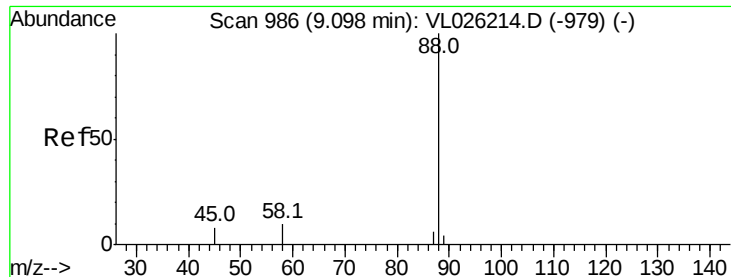
#39
 1,2-Dichloropropane
 Concen: 0.15 ppbv
 RT: 9.03 min Scan# 975
 Delta R.T. 0.22 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

Tgt Ion: 63 Resp: 7494
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.2 79.8#
 62 4862.3 55.4 83.2#



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

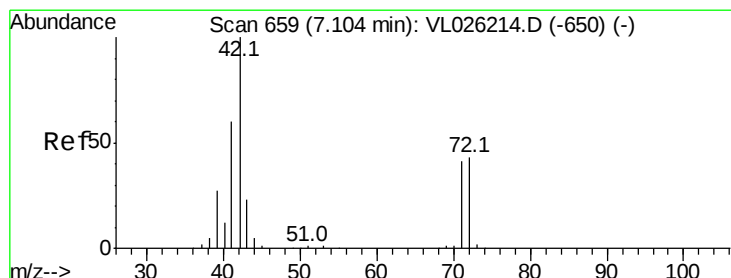
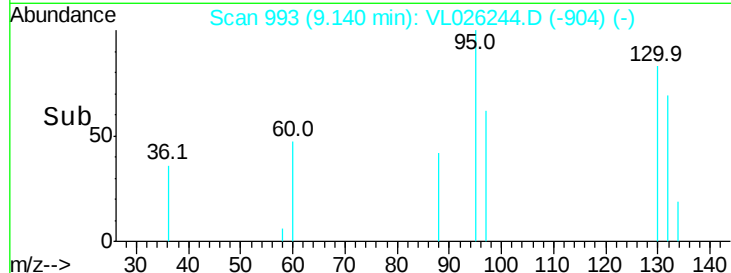
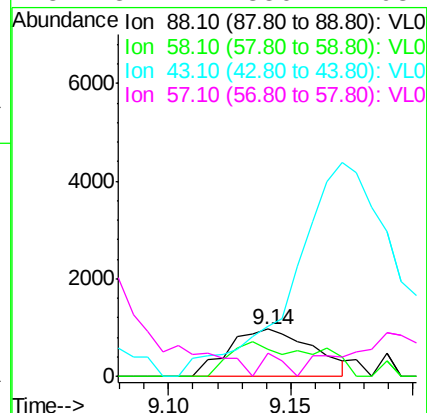
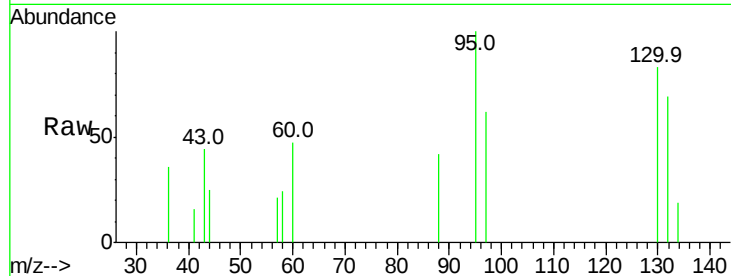




#40
1,4-Dioxane
Concen: 0.25 ppbv
RT: 9.14 min Scan# 993
Delta R.T. 0.04 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

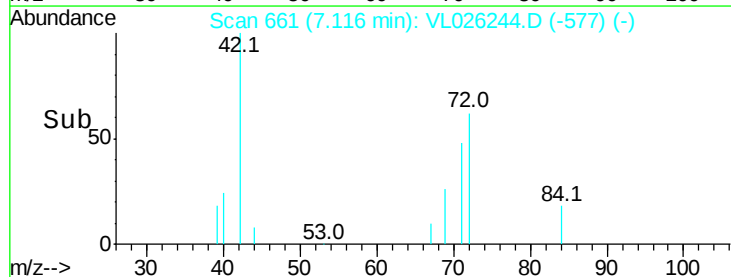
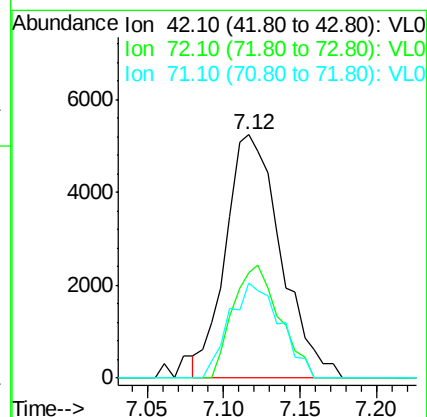
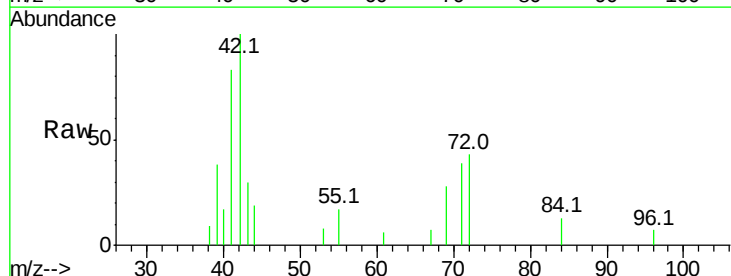
Instrument :
MSVOA_L
ClientSampleId :
EFF

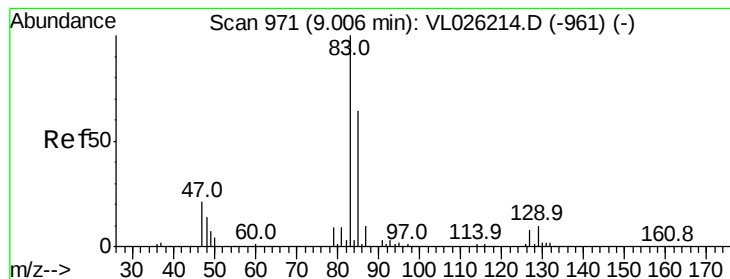
Tgt Ion: 88 Resp: 2299
Ion Ratio Lower Upper
88 100
58 77.6 115.4 173.2#
43 161.2 272.6 409.0#
57 572.1 1356.1 2034.1#



#41
Tetrahydrofuran
Concen: 0.30 ppbv
RT: 7.12 min Scan# 661
Delta R.T. 0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 42 Resp: 13124
Ion Ratio Lower Upper
42 100
72 39.1 34.3 51.5
71 36.3 32.1 48.1





#42

Bromodichloromethane

Concen: 0.28 ppbv

RT: 9.03 min Scan# 975

Delta R.T. 0.02 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

EFF

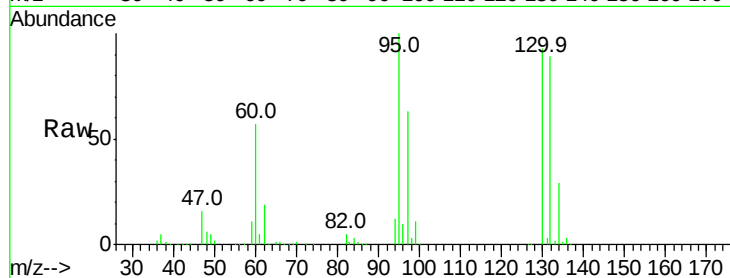
Tgt Ion: 83 Resp: 28820

Ion Ratio Lower Upper

83 100

85 67.6 50.9 76.3

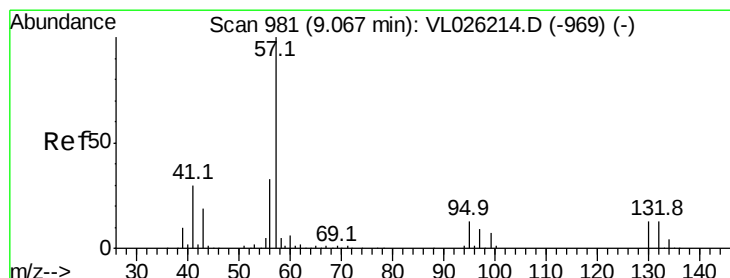
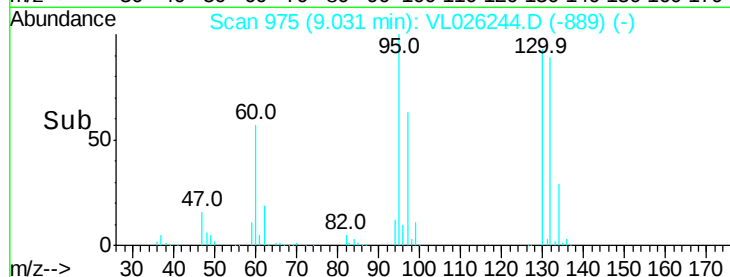
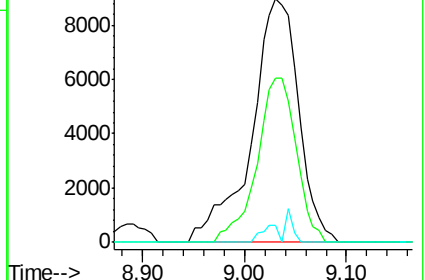
127 7.0 6.2 9.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.06 ppbv

RT: 9.06 min Scan# 979

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

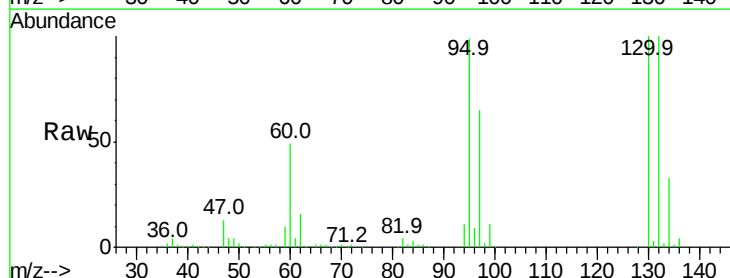
Tgt Ion: 57 Resp: 12316

Ion Ratio Lower Upper

57 100

41 78.7 23.7 35.5#

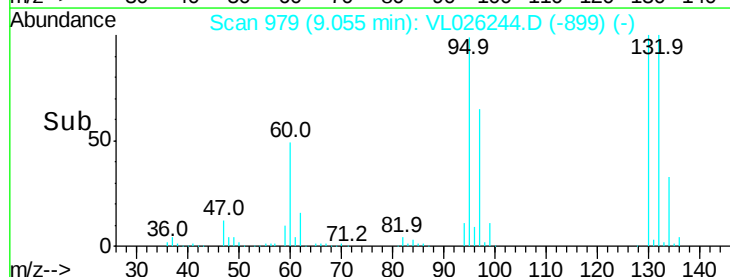
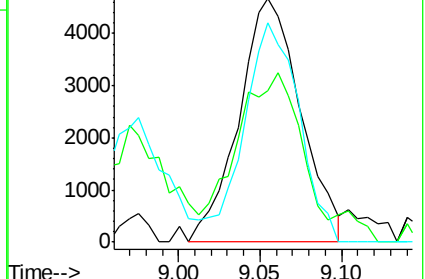
56 80.4 25.9 38.9#

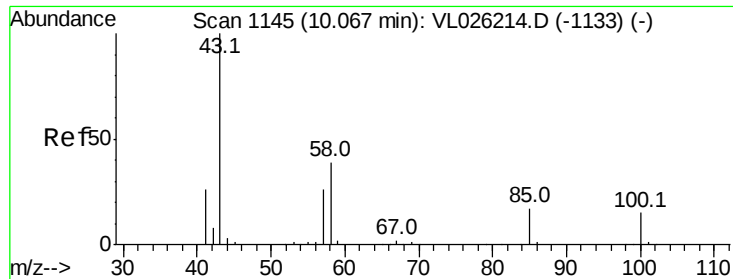


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

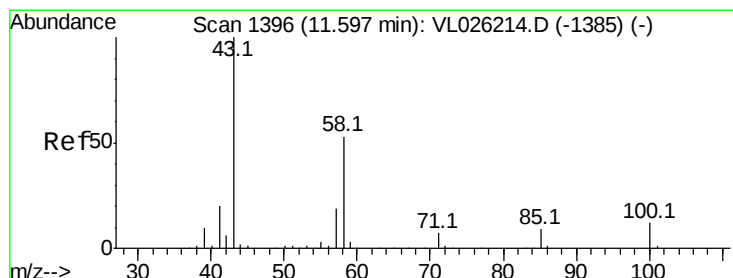
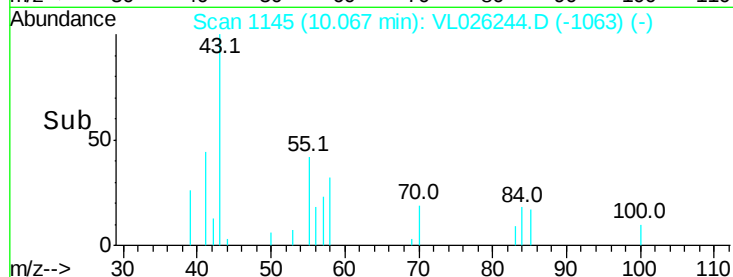
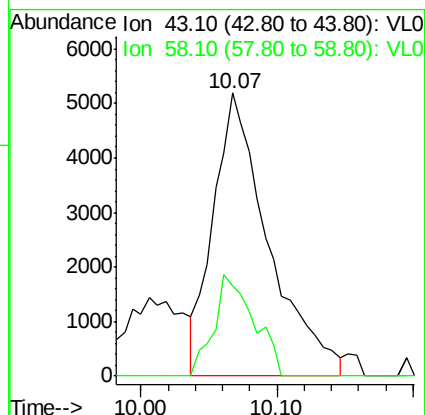
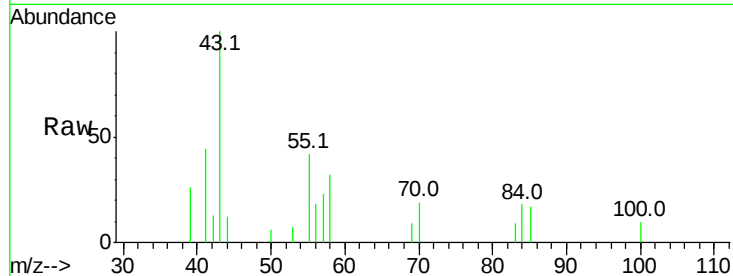




#50
4-Methyl-2-Pentanone
Concen: 0.14 ppbv
RT: 10.07 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

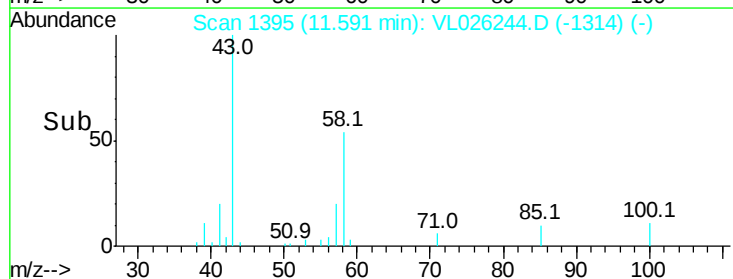
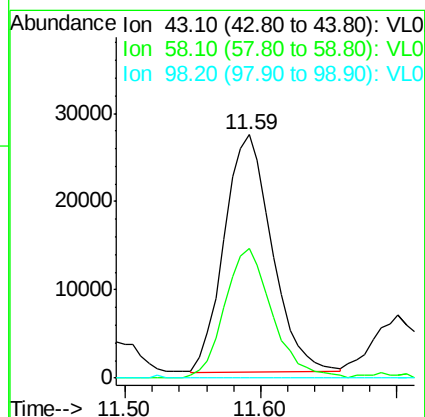
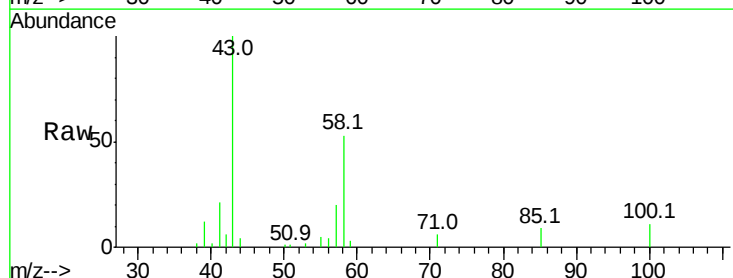
Instrument :
MSVOA_L
ClientSampled :
EFF

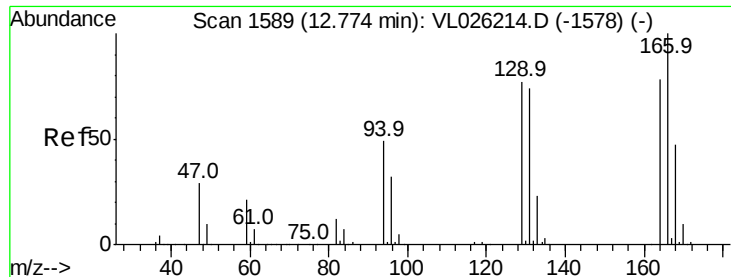
Tgt Ion: 43 Resp: 14641
Ion Ratio Lower Upper
43 100
58 26.0 31.1 46.7#



#51
2-Hexanone
Concen: 0.68 ppbv
RT: 11.59 min Scan# 1395
Delta R.T. -0.01 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 43 Resp: 65917
Ion Ratio Lower Upper
43 100
58 54.3 43.2 64.8
98 0.0 0.0 0.0





#52

Tetrachloroethene

Concen: 53.34 ppbv

RT: 12.77 min Scan# 1589

Delta R.T. -0.00 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampled :

EFF

Tgt Ion:164 Resp: 4227511

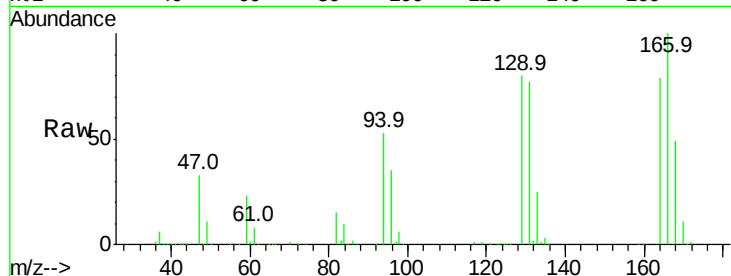
Ion Ratio Lower Upper

164 100

166 126.3 102.3 153.5

129 101.6 78.2 117.4

131 96.9 75.7 113.5

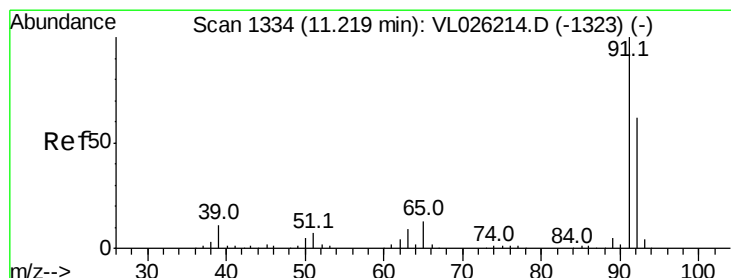
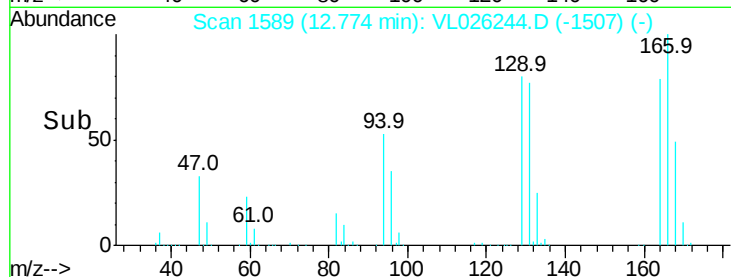
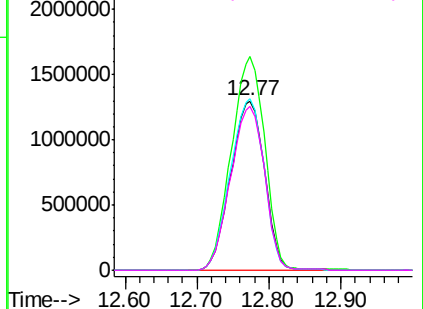


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.27 ppbv

RT: 11.20 min Scan# 1331

Delta R.T. -0.02 min

Lab File: VL026244.D

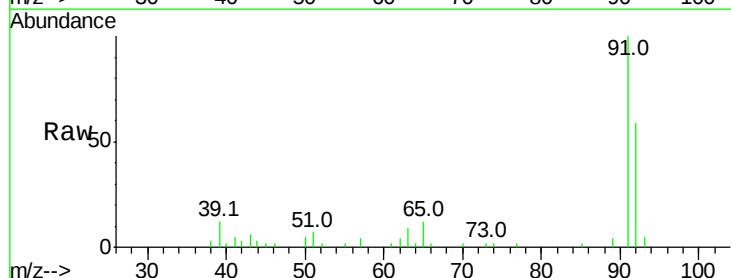
Acq: 21 Oct 2015 19:05

Tgt Ion: 91 Resp: 50941

Ion Ratio Lower Upper

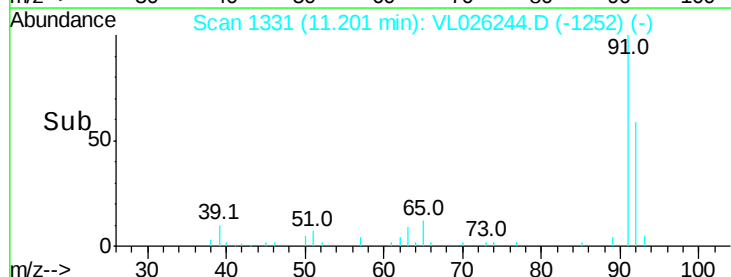
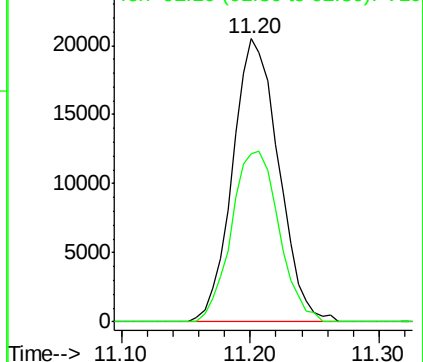
91 100

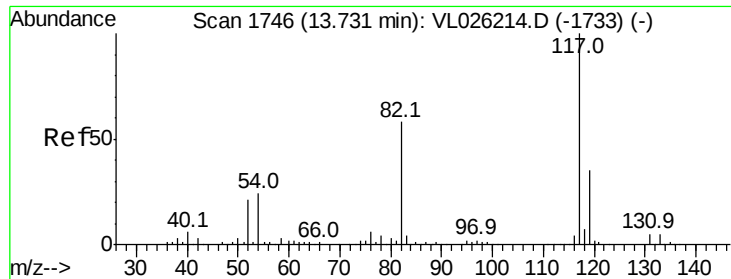
92 62.0 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

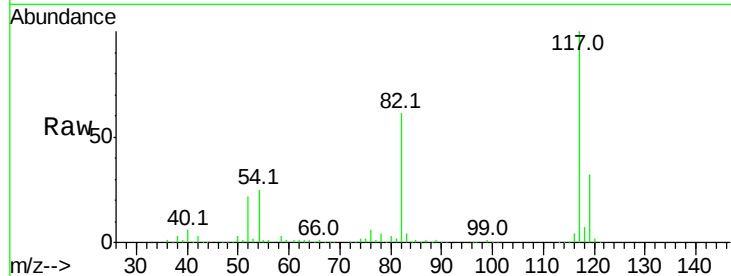




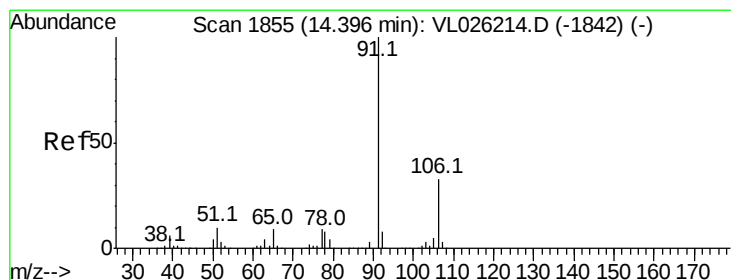
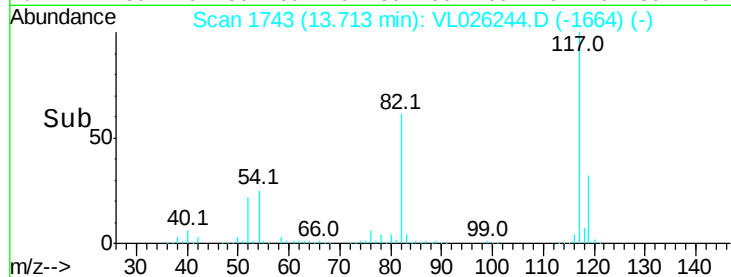
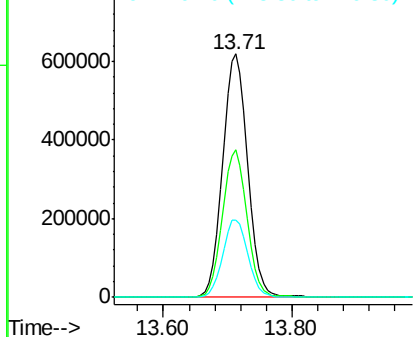
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.71 min Scan# 1743
Delta R.T. -0.02 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Instrument :
MSVOA_L
ClientSampleId :
EFF

Tgt Ion:117 Resp: 1705022
Ion Ratio Lower Upper
117 100
82 59.9 45.8 68.8
119 32.5 45.0 67.4#

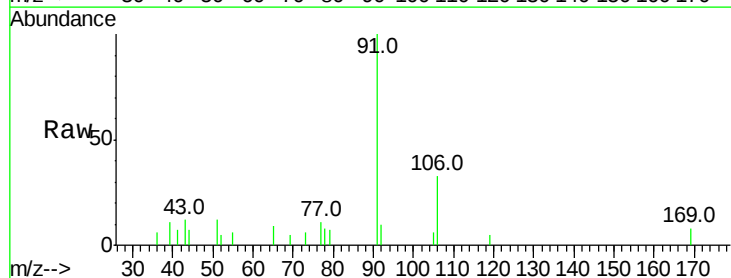


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

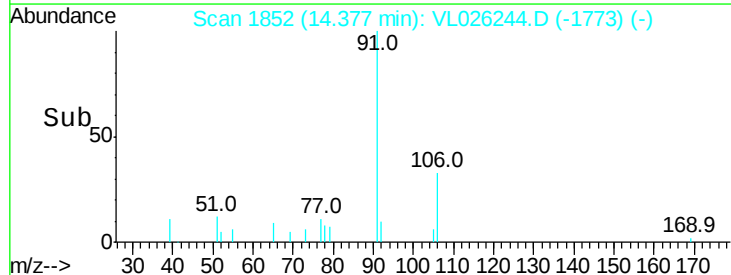
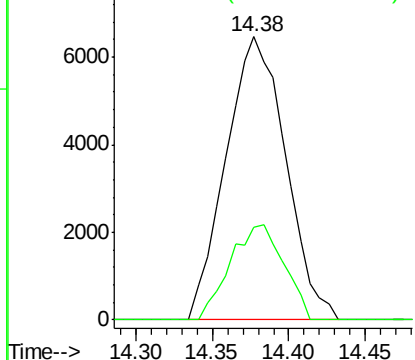


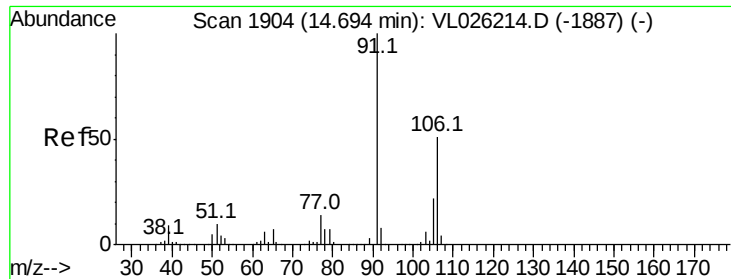
#58
Ethyl Benzene
Concen: 0.06 ppbv
RT: 14.38 min Scan# 1852
Delta R.T. -0.02 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 91 Resp: 17551
Ion Ratio Lower Upper
91 100
106 32.6 26.1 39.1



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

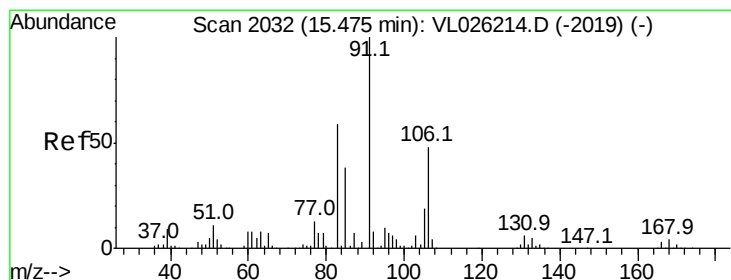
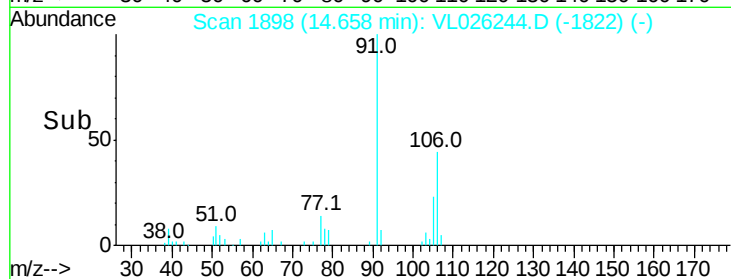
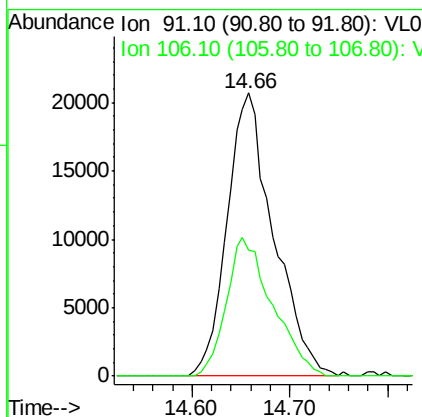
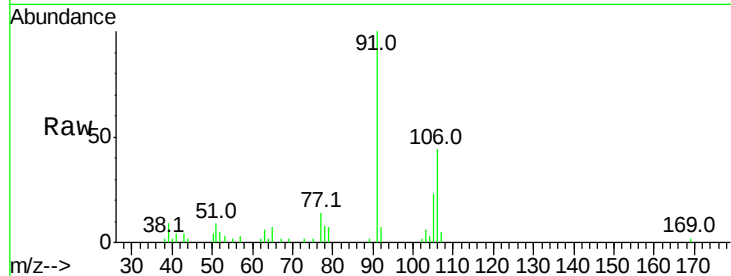




#59
m/p-Xylene
Concen: 0.32 ppbv
RT: 14.66 min Scan# 1898
Delta R.T. -0.04 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

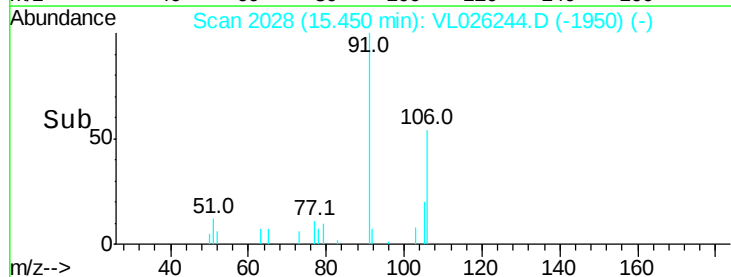
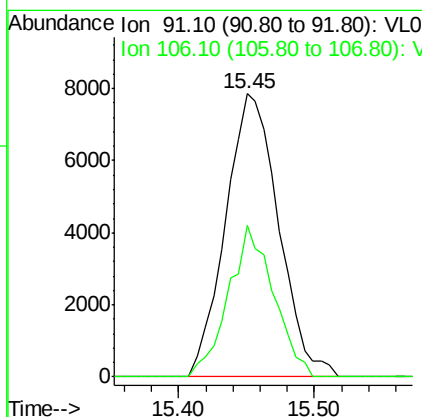
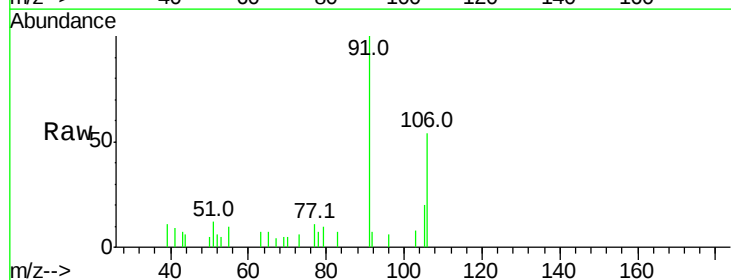
Instrument :
MSVOA_L
ClientSampleId :
EFF

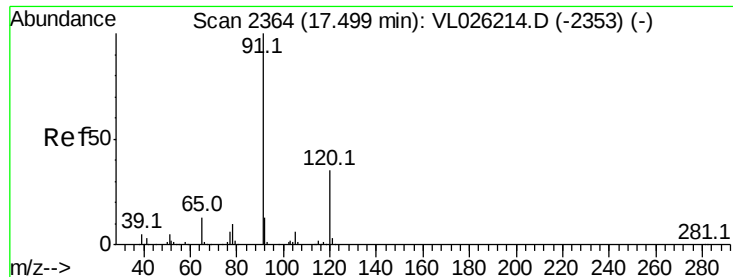
Tgt Ion: 91 Resp: 68324
Ion Ratio Lower Upper
91 100
106 48.2 40.6 61.0



#60
o-Xylene
Concen: 0.09 ppbv
RT: 15.45 min Scan# 2028
Delta R.T. -0.02 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 91 Resp: 21372
Ion Ratio Lower Upper
91 100
106 45.4 23.8 71.5





#64

n-propylbenzene

Concen: 0.05 ppbv

RT: 17.48 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

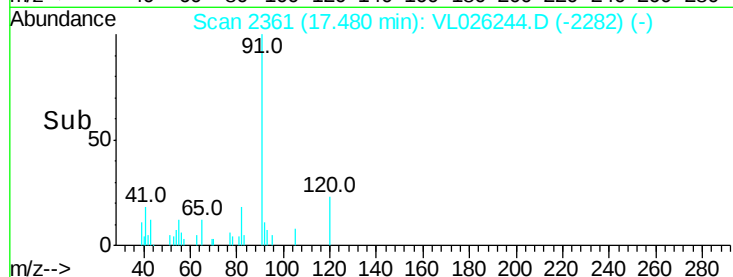
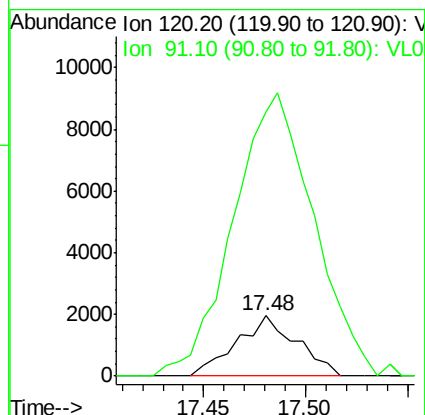
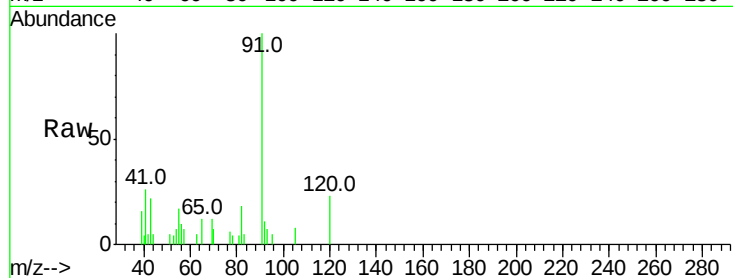
EFF

Tgt Ion:120 Resp: 4029

Ion Ratio Lower Upper

120 100

91 631.5 331.7 497.5#



#65

tert-Butylbenzene

Concen: 0.04 ppbv

RT: 18.79 min Scan# 2576

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

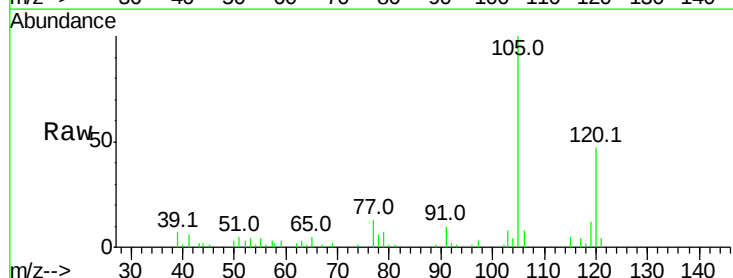
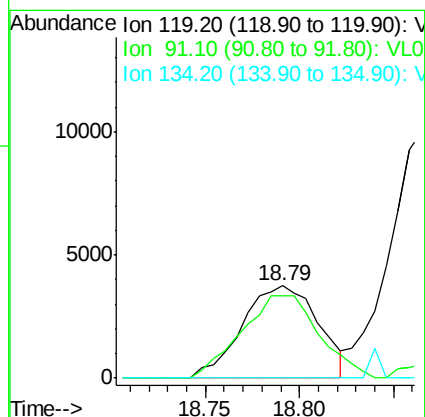
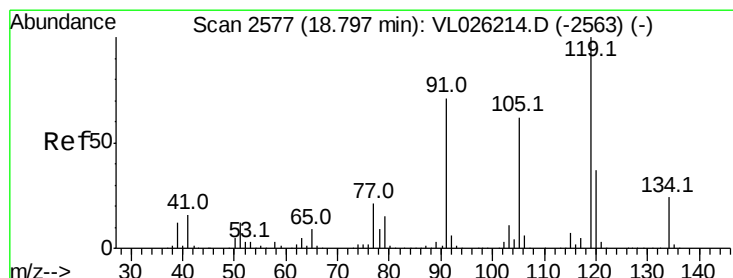
Tgt Ion:119 Resp: 10472

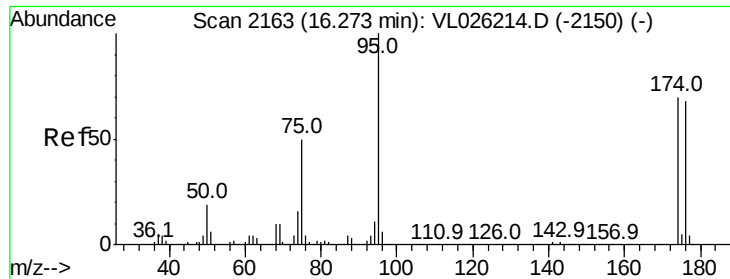
Ion Ratio Lower Upper

119 100

91 97.7 57.5 86.3#

134 0.0 18.1 27.1#

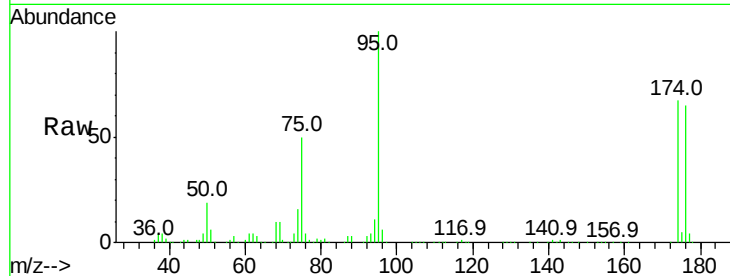




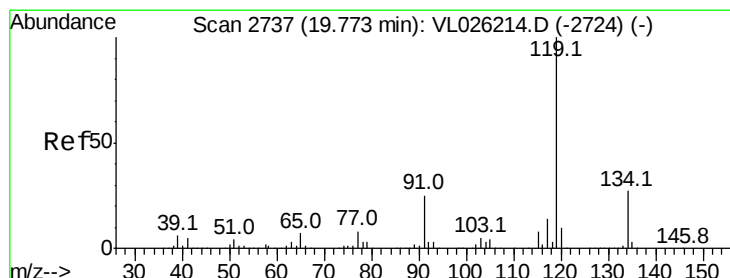
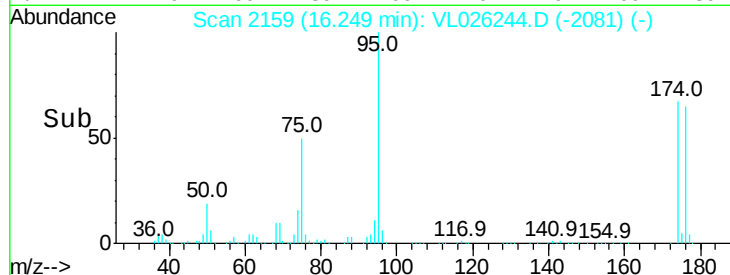
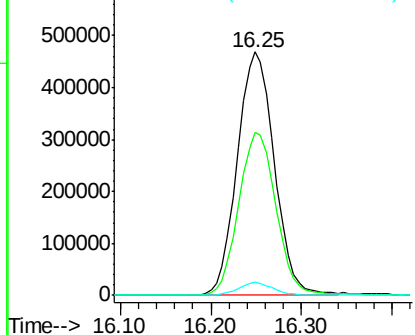
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.14 ppbv
 RT: 16.25 min Scan# 2159
 Delta R.T. -0.02 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

Instrument :
 MSVOA_L
 ClientSampleId :
 EFF

Tgt Ion: 95 Resp: 1332855
 Ion Ratio Lower Upper
 95 100
 174 67.6 55.8 83.8
 175 5.1 4.3 6.5

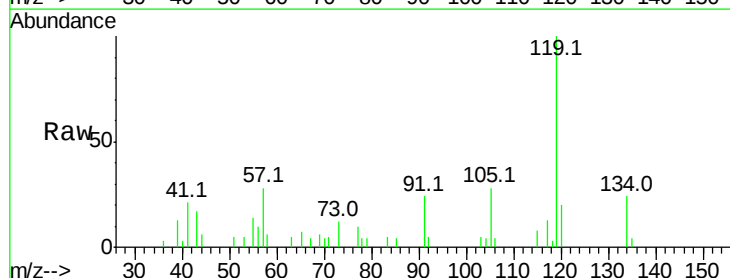


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

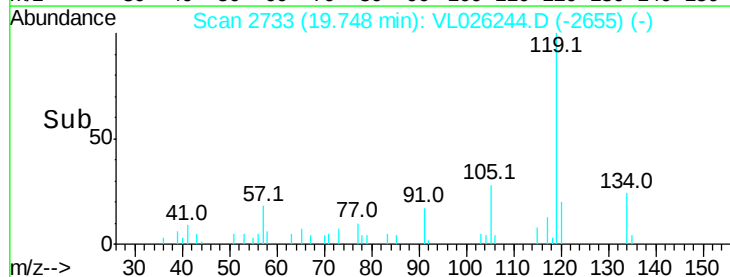
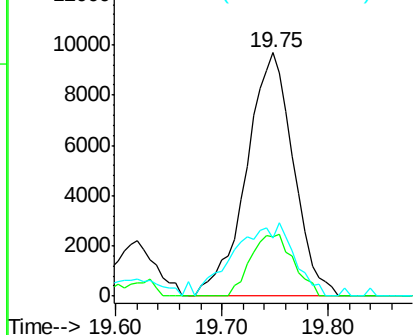


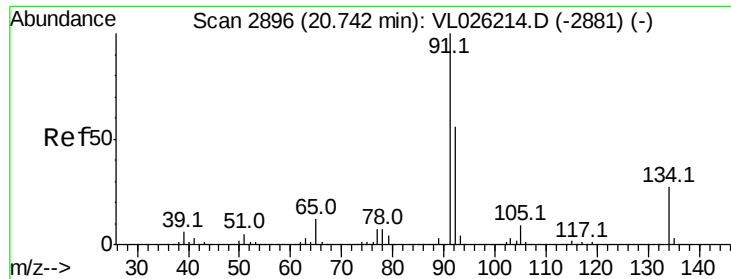
#69
 p-Isopropyltoluene
 Concen: 0.09 ppbv
 RT: 19.75 min Scan# 2733
 Delta R.T. -0.02 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

Tgt Ion: 119 Resp: 29835
 Ion Ratio Lower Upper
 119 100
 134 23.2 21.4 32.0
 91 39.5 19.5 29.3#



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0

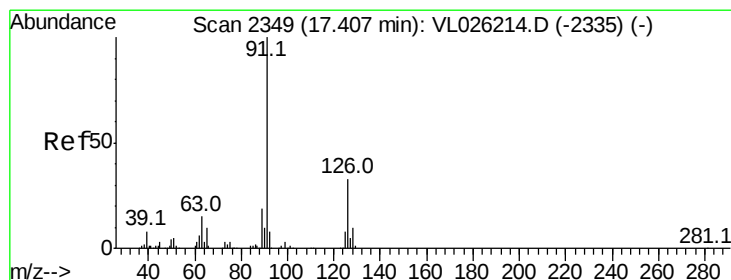
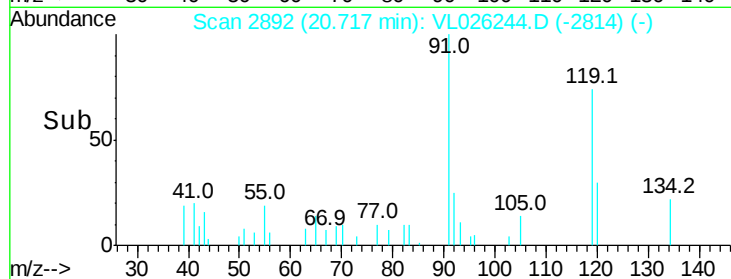
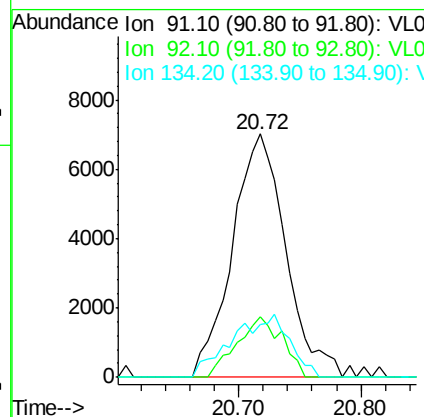
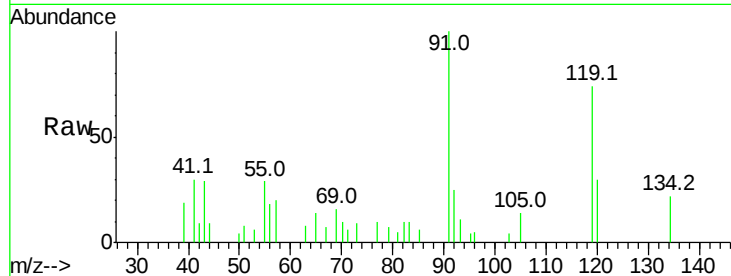




#70
n-Butylbenzene
Concen: 0.07 ppbv
RT: 20.72 min Scan# 2892
Delta R.T. -0.02 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

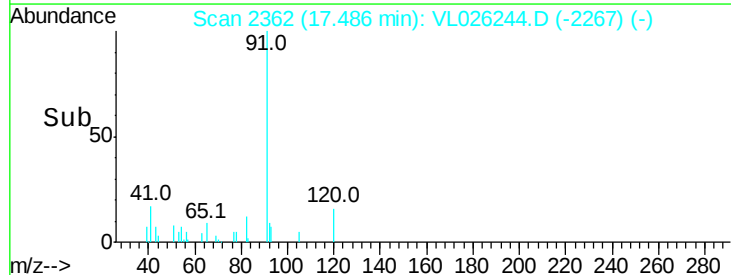
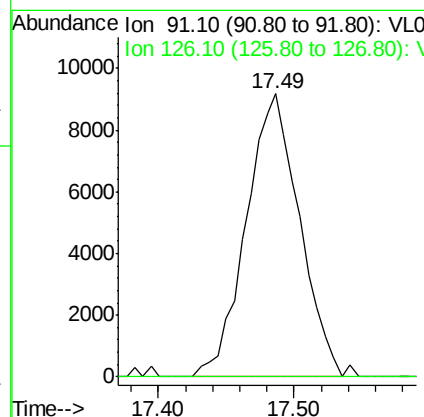
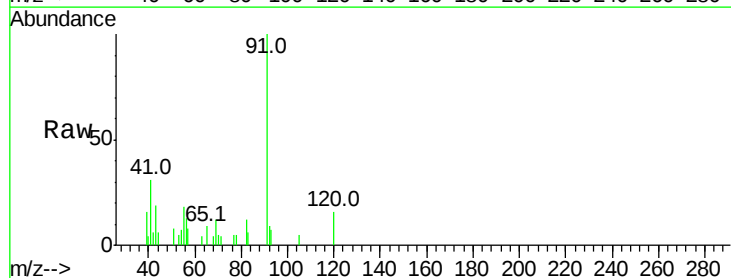
Instrument :
MSVOA_L
ClientSampleId :
EFF

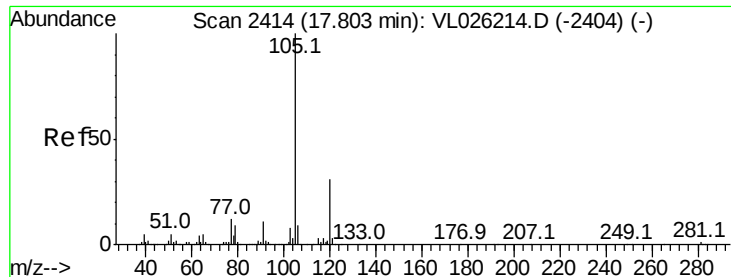
Tgt Ion: 91 Resp: 21248
Ion Ratio Lower Upper
91 100
92 20.9 45.0 67.6#
134 27.8 21.4 32.0



#71
2-Chlorotoluene
Concen: 0.11 ppbv
RT: 17.49 min Scan# 2362
Delta R.T. 0.08 min
Lab File: VL026244.D
Acq: 21 Oct 2015 19:05

Tgt Ion: 91 Resp: 25063
Ion Ratio Lower Upper
91 100
126 0.0 12.9 51.7#





#72

4-Ethyltoluene

Concen: 0.09 ppbv

RT: 17.79 min Scan# 2411

Delta R.T. -0.02 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

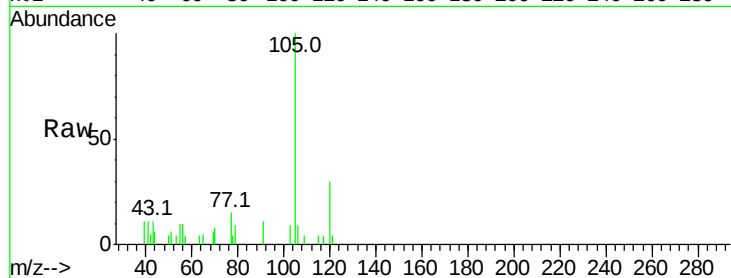
Instrument :

MSVOA_L

ClientSampleId :

EFF

Tgt Ion:	105	Resp:	24275
Ion	Ratio	Lower	Upper
105	100		
120	27.4	25.2	37.8
91	10.1	9.0	13.6
77	14.9	9.7	14.5#

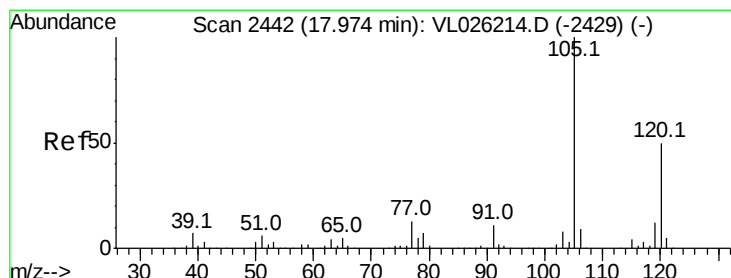
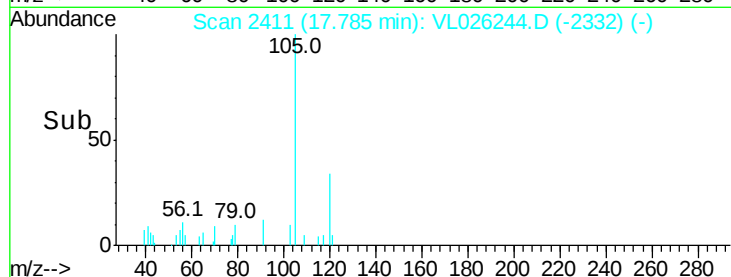
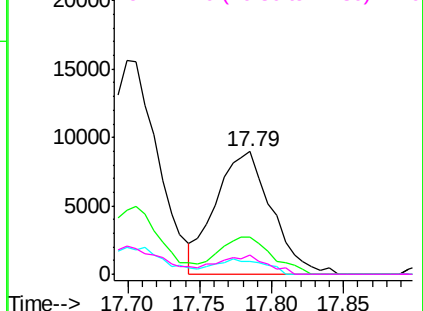


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.12 ppbv

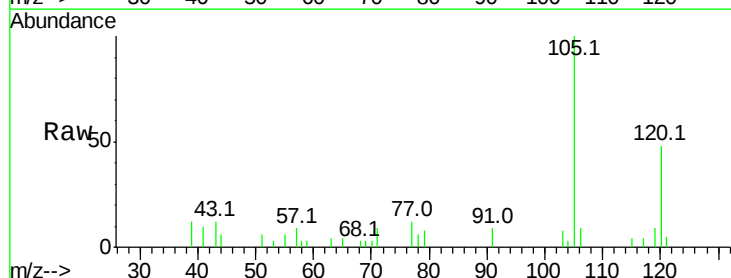
RT: 17.95 min Scan# 2438

Delta R.T. -0.02 min

Lab File: VL026244.D

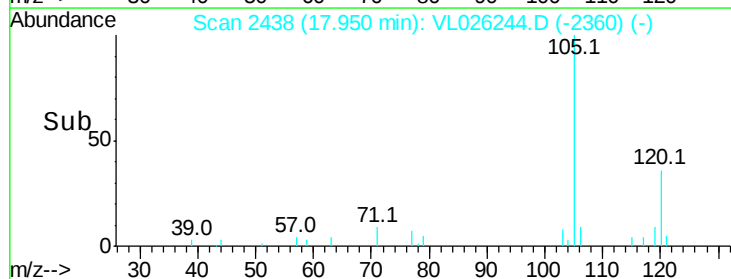
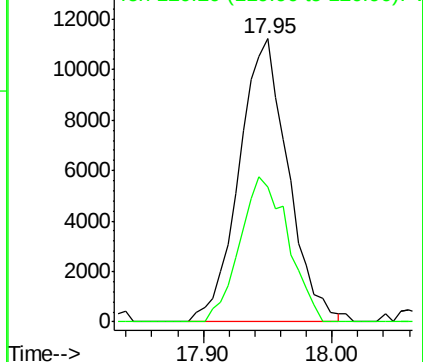
Acq: 21 Oct 2015 19:05

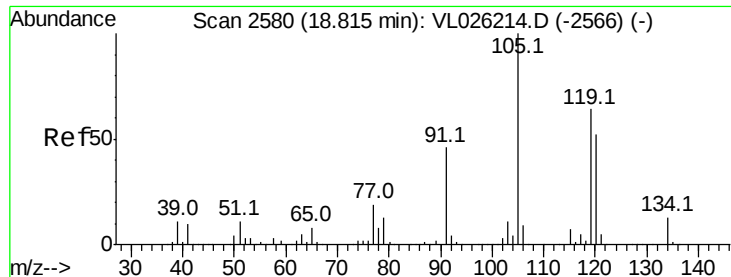
Tgt Ion:	105	Resp:	29620
Ion	Ratio	Lower	Upper
105	100		
120	47.8	39.8	59.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

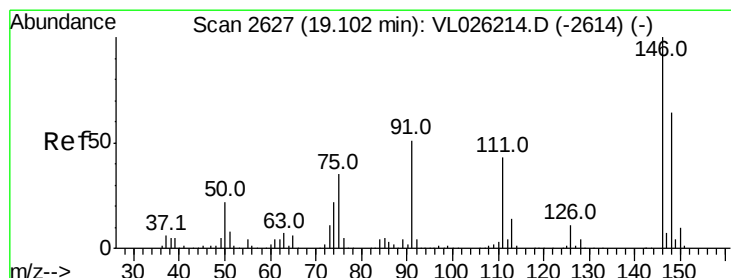
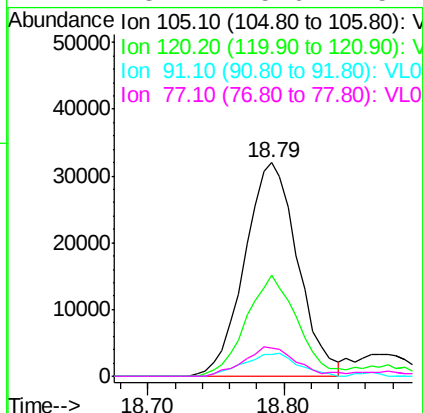
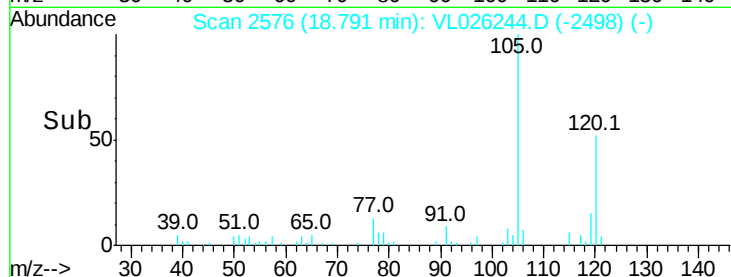
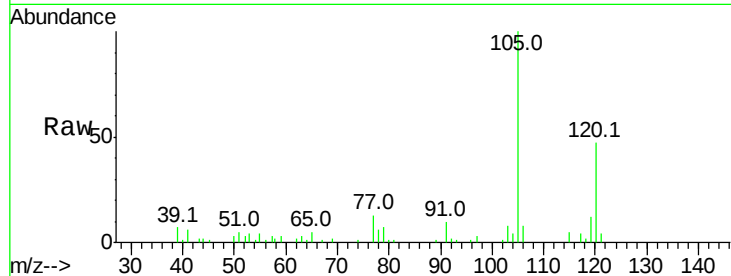




#74
 1,2,4-Trimethylbenzene
 Concen: 0.34 ppbv
 RT: 18.79 min Scan# 2576
 Delta R.T. -0.02 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

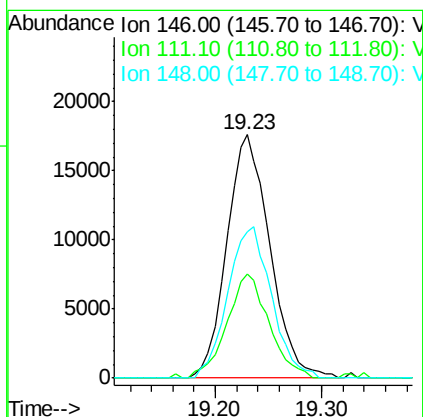
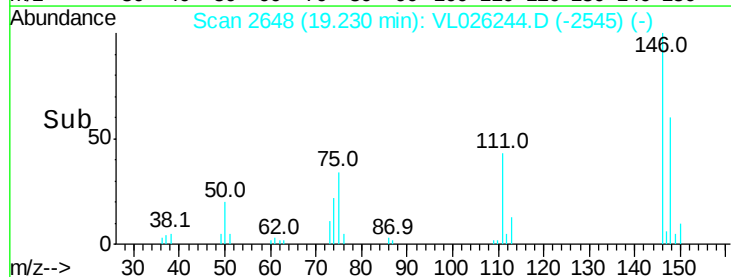
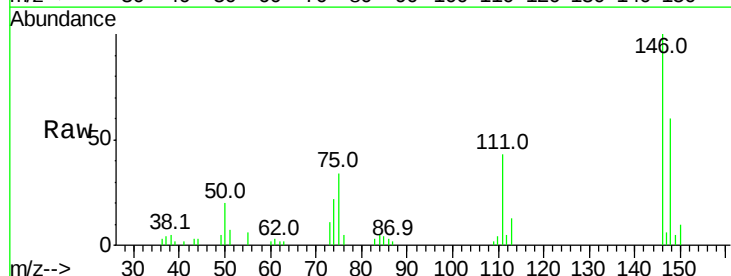
Instrument :
 MSVOA_L
 ClientSampled :
 EFF

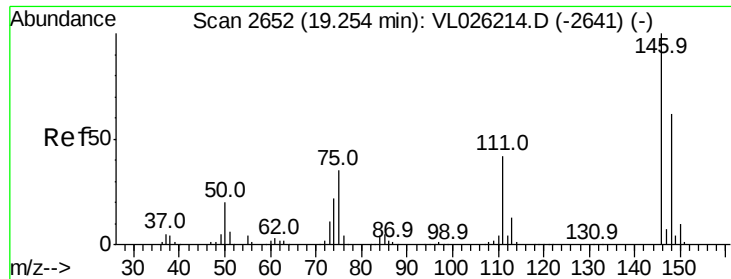
Tgt Ion:105 Resp: 87059
 Ion Ratio Lower Upper
 105 100
 120 47.3 41.2 61.8
 91 10.4 37.2 55.8#
 77 13.2 15.6 23.4#



#75
 1,3-Dichlorobenzene
 Concen: 0.30 ppbv
 RT: 19.23 min Scan# 2648
 Delta R.T. 0.13 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

Tgt Ion:146 Resp: 49908
 Ion Ratio Lower Upper
 146 100
 111 42.0 21.6 64.8
 148 63.0 31.8 95.4

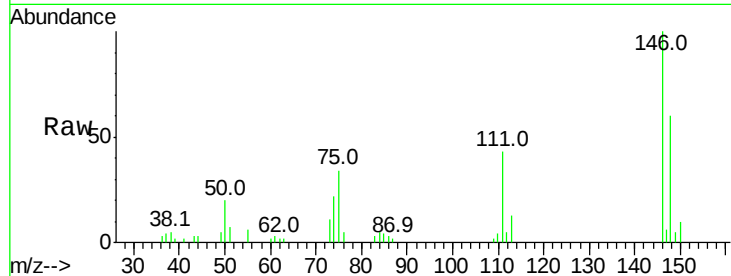




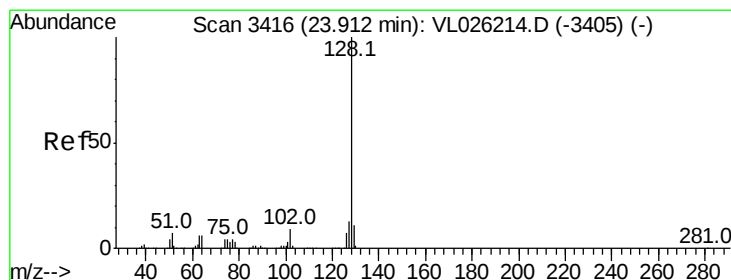
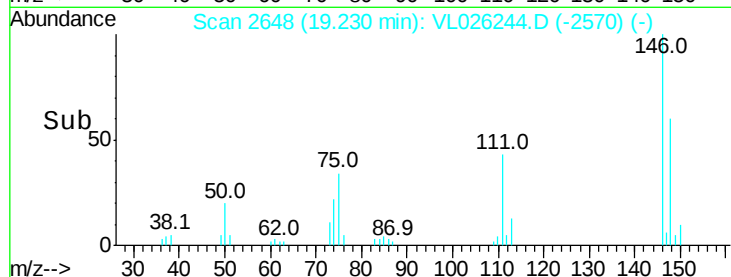
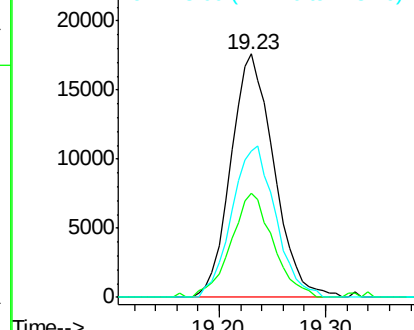
#76
 1,4-Dichlorobenzene
 Concen: 0.29 ppbv
 RT: 19.23 min Scan# 2648
 Delta R.T. -0.02 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

Instrument :
 MSVOA_L
 ClientSampleId :
 EFF

Tgt Ion:146 Resp: 49908
 Ion Ratio Lower Upper
 146 100
 111 42.0 20.8 62.2
 148 63.0 31.9 95.9

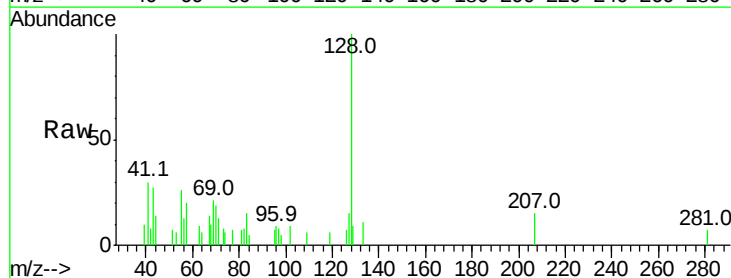


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

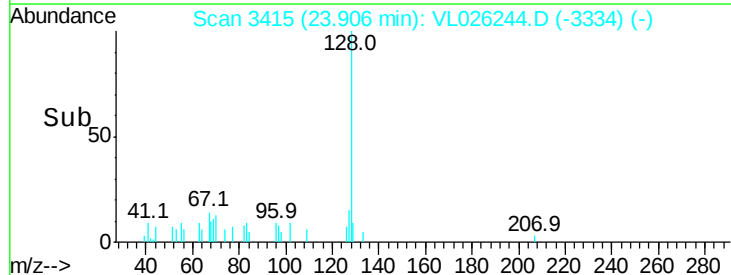
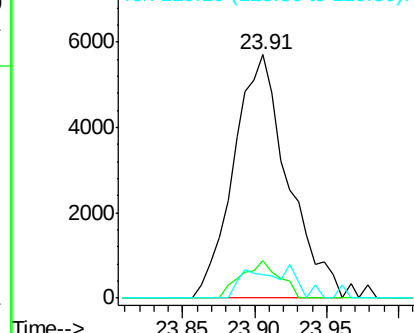


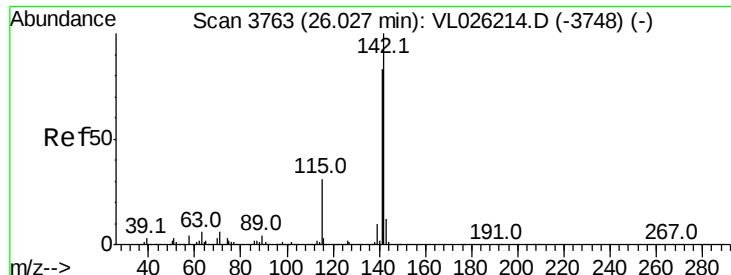
#79
 Naphthalene
 Concen: 0.07 ppbv
 RT: 23.91 min Scan# 3415
 Delta R.T. -0.01 min
 Lab File: VL026244.D
 Acq: 21 Oct 2015 19:05

Tgt Ion:128 Resp: 14919
 Ion Ratio Lower Upper
 128 100
 127 15.2 10.4 15.6
 129 9.4 8.8 13.2



Abundance Ion 128.10 (127.80 to 128.80): V
 Ion 127.10 (126.80 to 127.80): V
 Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.06 ppbv

RT: 26.02 min Scan# 3762

Delta R.T. -0.01 min

Lab File: VL026244.D

Acq: 21 Oct 2015 19:05

Instrument :

MSVOA_L

ClientSampleId :

EFF

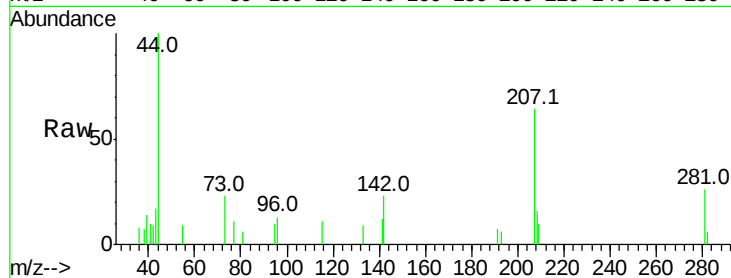
Tgt Ion:142 Resp: 2473

Ion Ratio Lower Upper

142 100

141 79.2 66.5 99.7

115 56.7 24.2 36.4#



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

